

YAMAHA COMMERCIAL AUDIO FULL CATALOGUE 2023



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YAMAHA
Make Waves

YAMAHA COMMERCIAL AUDIO

FULL CATALOGUE 2023

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WELCOME!

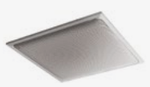
THANK YOU FOR CONSIDERING TO USE ONE OR MORE YAMAHA PROFESSIONAL AUDIO PRODUCTS FOR YOUR PROJECT!

This product catalogue is designed as a tool to select and compare products and to verify and confirm that selected products meet project specifications. the catalogue is structured in main product categories: loudspeakers, power amplifiers, signal processors, mixing consoles, networked infrastructure, presenting also acoustic enhancement and remote communication systems. within those categories, product families are presented in a single spread providing a quick introduction, selected detail views and quick specification lists. at the end of each category a unified detailed specification list is presented, allowing easy comparison between products.

We hope this product catalogue helps you in the process to dsign and to realize fantastic live sound systems. in case you have any further questions or need engineering support please contact our staff listed at the end of this catalogue.

LET'S MAKE WAVES TOGETHER!



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YAMAHA

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PASSIVE LOUDSPEAKERS

CREATING A PLEASANT SONIC ENVIRONMENT IS EVERY BIT AS IMPORTANT AS LIGHTING, DÉCOR AND AROMA IN ANY SPACE. With over 50 years of producing passive loudspeakers, today Yamaha's range of passive loudspeakers is so large that it would be difficult not to find a model which meets your needs. From shopping malls and hotels to restaurants, pubs and clubs, they are the sonic backbone of a huge variety of retail, hospitality and entertainment venues.

Yamaha is well known for the legendary NS10 nearfield monitor. Used to mix literally thousands of hit records, today this legacy continues to grow with a diverse range of passive speakers designed to bring clear, uncoloured sound to every kind of installation. With high and low impedance operation, multi-tap versatility and more, the Yamaha range includes several types of ceiling speaker, as well as a range of compact surface mounted models, all designed to deliver great sound while minimising visual impact.

Of course **YAMAHA PASSIVE SPEAKERS** are just as at home in the corporate environment. Slimline VXL series line array speakers are a key component in the ADECIA audio conferencing solution and are ideal for presentations where clear, precise sound and maximised sightlines are important.

And if you need high SPL sound reinforcement, stage monitoring or professional quality headphones, you can rely on Yamaha passives to make waves in just the way you want.


VXS SERIES


VXS SERIES COMPACT MODELS


VXL SERIES


VXC SERIES


VXC SERIES F MODELS


VC SERIES


VXH SERIES


CBR SERIES


CHR SERIES


CZR/CXS-XLF SERIES


MT SERIES


CONFIGURATION SOFTWARE


BRACKETS & OPTIONS

PASSIVE LOUDSPEAKERS

VXS SERIES

SURFACE MOUNT SPEAKERS



HIGH QUALITY SURFACE MOUNT SPEAKERS

Combining excellent sound quality and flexible installation workflow, the **VXS SERIES** is designed especially for the commercial installation market. The **VXS SERIES** comprise two sizes of surface mount cabinets available in black and white colour, including brackets and internal 100V transformers. The matching subwoofer is available with and without internal 100V transformer, featuring a dual voice coil speaker for easy stereo configuration. All models come with overload protection circuits. The **VXS SERIES** comes with IP35 splash resistant paintable speaker enclosures, grilles and brackets supporting any interior and exterior design. For applications requiring Voice Alarm functionality, the VXS 2-way models are also available as VA models with EN54-24 certification.

KEY FEATURES

- **TWO FULL-RANGE MODELS AND SUBWOOFERS AVAILABLE IN BLACK AND WHITE.**
- **SURFACE MOUNT BRACKETS INCLUDED.**
- **PAINTABLE SPEAKER BODIES, GRILLES AND BRACKETS**
- **INTERNAL 100V TRANSFORMER (EXCEPT VXS10S AND VXS3F MODEL), OVERLOAD PROTECTION**
- **VXS5 AND VXS8 MODELS: IP35 SPLASH RESISTANT**
- **VXS5 AND VXS8 MODELS: EN54-24 CERTIFIED VA VERSIONS AVAILABLE**



VXS VA MODELS
EN54-24 CERTIFICATE

DETAILS



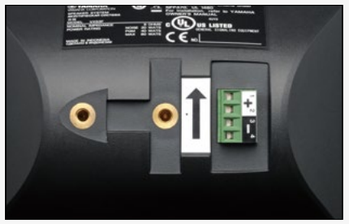
VXS3F, VXS5, VXS8 MOUNTING ACCESSORIES (INCLUDED)



VXS3FT 100V TRANSFORMER (INCLUDED WITH VXS3-FT))



VXS10S REAR PANEL



VXS3 REAR PANEL



VXS5, VXS8 REAR PANEL



VXS5VA, VXS8VA REAR PANEL

QUICK SPECIFICATIONS

	VXS3F (T)	VXS5 (VA)	VXS8 (VA)	VXS10S(T)
TRANSDUCERS	3.5" full range	5.25" + 0.75" 2-way	8" + 1" 2-way	10" dual voice coil subwoofer
POWER RATING (NOISE)	20 W	75 W	90 W	100 W + 100 W
TRANSFORMER TAPS (100V)	(T: 15 W, 7.5 W, 3.5 W)	30 W, 15 W, 7.5 W	60 W, 30 W, 15 W	200 W, 100 W, 50 W (T model only)
SENSITIVITY @1W,1M	86 dB SPL	89 dB SPL (VA: 88 dB SPL)	91 dB SPL (VA: 89 dB SPL)	96 dB SPL
PEAK SPL	105 dB SPL	114 dB SPL (VA: 113 dB SPL)	117 dB SPL (VA: 115 dB SPL)	125 dB SPL
FREQUENCY RANGE (-10 DB)	130 Hz - 20 kHz	62 Hz - 20 kHz	51 Hz - 20 kHz	45 Hz - 250 Hz
NOMINAL COVERAGE	150° x 150°	120° x 120°	100° x 100°	–
TERMINALS	4P Euroblock (T: 2P barrier strip)	4P Euroblock (VA: 3P ceramic)	4P Euroblock (VA: 3P ceramic)	2 x 4P Euroblock
MEASURES W X H X D	176 x 280 x 163 mm	176 x 280 x 163 mm	278 x 430 x 239 mm	260 x 500 x 389 mm
WEIGHT	1.1 kg (T: 1.7 kg)	3.6 kg	8.2 kg	16.5 kg (T: 19.5 kg)
COLOUR	black, white			
INCLUDED ACCESSORIES	wall mount bracket (T: transformer)	wall mount bracket, terminal cover	wall mount bracket, terminal cover	wall mount bracket

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 34

VXS SERIES COMPACT MODELS

SURFACE MOUNT SPEAKERS

S SERIES M







VXS SERIES S







COMPACT SURFACE MOUNT SPEAKERS

An elegant environment depends on more than just décor and lighting. Sound plays a vital role as well. **VXS SERIES** "M" models combine sophisticated sound and design in compact surface-mount speakers that will make a significant contribution to the most refined, elegant spaces. While the sound of some compact speaker systems is a compromise, the innovative **VXS SERIES** "M" models are designed in every detail, from driver to enclosure, to deliver the finest possible sound quality in the smallest possible space, with elegant that will blend beautifully in any interior. The key to extraordinary sonic performance is a small 1.5-inch full-range driver unit. Technology and expertise accumulated over 50 years of speaker development and production has been liberally applied in a speaker that delivers exceptional clarity and astonishing musical realism. First you'll be surprised by this speaker's looks, and then by its extraordinary sound.

KEY FEATURES

- VXS1ML – MINI SATELLITE 1.5" FULL RANGE SPEAKER
- VXS3S - COMPACT 3.5" SUBWOOFER
- MINIMALISTIC DESIGN WITH SUPERIOR SOUND QUALITY
- WALL & CEILING MOUNT BRACKET INCLUDED
- PAINTABLE, AVAILABLE IN BLACK AND WHITE
- OPTIONAL FLUSH MOUNT AND RAIL MOUNT KITS

DETAILS



VXS1ML REAR PANEL



VXS3S REAR PANEL



VXS3S BRACKET (INCLUDED)



CMA1MB / CMA1MW
CEILING MOUNT ADAPTER
FOR VXS1ML (OPTION)



CMA3SB / CMA3SW
CEILING MOUNT ADAPTER FOR VXS3S
(OPTION)



RMA1MB
RAIL MOUNT ADAPTER FOR
VXS1ML (OPTION)

QUICK SPECIFICATIONS

	VXS1ML	VXS3S
TRANSDUCERS	1.5"	3.5"
POWER RATING (NOISE)	5 W	20 W
TRANSFORMER TAPS (100V)	-	15 W, 7.5 W, 3.8 W
SENSITIVITY @1 W, 1 M	79 dB SPL	79 dB SPL
PEAK SPL	92 dB SPL	98 dB SPL
FREQUENCY RANGE (-10 DB)	180 Hz - 20 kHz	65 Hz - 180 Hz
NOMINAL COVERAGE	170°	-
TERMINALS	2P Euroblock	4P Euroblock
MEASURES W X H X D	62 x 62 x 82 mm	322 x 162 x 118 mm
WEIGHT	0.17 kg	2.7 kg
COLOUR	black, white	
INCLUDED ACCESSORIES	mounting bracket	mounting bracket, safety wire

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 34

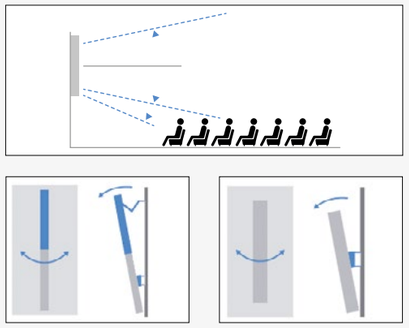
PASSIVE LOUDSPEAKERS

VXL SERIES

SLIM LINE ARRAYS

COMPACT HIGH QUALITY SURFACE MOUNT LINE ARRAYS

High quality sound with visual discretion are two of the key demands for installed loudspeakers in acoustically challenging spaces such as houses of worship, boardrooms, lecture theatres and many other situations. Featuring IP35-rated, paintable enclosures in black or white, the **VXL** slim line array series use arrays of the same 1.5” driver, with a high impedance 100V transformer available as option. All models measure just 54mm wide by 104mm deep, slim enough to support installation even in the most demanding interior designs. Ranging from 8 drivers up to 24 drivers for a single array, the **VXL SERIES** produces tight vertical dispersion for maximum speech intelligibility even in reverberant spaces, while supporting also music when combined with VXS subwoofers. For very demanding applications such as cathedrals and large public spaces, multiple **VXL** cabinets can be stacked for even tighter coverage. The VXL16 model is also available as powered PoE Dante version.





VXL1-8 VXL1-16 VXL1-24
VXL1-16P

KEY FEATURES

- HIGH QUALITY COMPACT 1.5” DRIVERS DELIVER EXCELLENT SOUND
- 54MM TOTAL WIDTH ENCLOSURE TO BLEND IN WITH ANY INTERIOR DESIGN
- OPTIONAL BRACKETS FOR VERTICAL AND HORIZONTAL STACKED ARRAYS
- OPTIONAL WALL MOUNT BRACKETS FOR 2-AXIS ADJUSTMENT
- 100V TRANSFORMER OPTION
- VXL1-16P DANTE PoE POWERED SPEAKER MODEL



ST-L1
TRANSFORMER (OPTION)
TAPS: 60W, 30W, 15W

DETAILS



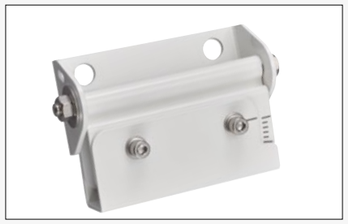
VXL1-16 AND VXL1-16P REAR PANELS



WALL MOUNT BRACKET (INCLUDED)



PA-L1
POLE MOUNT BRACKET (OPTION)



WMB-L1
2-AXIS ADJUSTMENT WALL BRACKET
(OPTION)



HCB-L1 / VCB-L1
HORIZONTAL / VERTICAL
COUPLING BRACKET (OPTION)



VCS-L1
VERTICAL COUPLING SUPPORT BRACKET
(OPTION)

QUICK SPECIFICATIONS

	VXL1-8	VXL1-16	VXL1-24	VXL1-16P
TRANSDUCERS	8 x 1,5”	16 x 1,5”	24 x 1,5”	16 x 1,5”
POWER RATING (NOISE)	40 W	80 W	110 W	15 W (PoE+), 6 W (PoE)
SENSITIVITY @1 W ,1 M	89 dB SPL	91 dB SPL	91 dB SPL	-
PEAK SPL	111 dB SPL	116 dB SPL	117 dB SPL	102 dB SPL
FREQUENCY RANGE (-10 DB)	70 Hz - 20 kHz	81 Hz - 20 kHz	77 Hz - 20 kHz	80 Hz - 20 kHz
NOMINAL COVERAGE H X V	170° x 40°	170° x 25°	170° x 15°	170° x 25°
TERMINALS	2 x 2P barrier strip	2 x 2P barrier strip	2 x 2P barrier strip	RJ45
MEASURES W X H X D	54 x 480 x 104 mm	54 x 846 x 104 mm	54 x 1212 x 104 mm	54 x 1120 x 104 mm
WEIGHT	2.1 kg	3.9 kg	5.5 kg	5.0 kg
COLOUR	black, white			
INCLUDED ACCESSORIES	wall bracket			
AUDIO NETWORK PROTOCOL (VXL1-16P ONLY)	-			Dante
DUST AND WATER RESISTANT	IP33 (IP35 with port cover)	IP34 (IP35 with port cover)	IP34 (IP35 with port cover)	–

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 34

PASSIVE LOUDSPEAKERS

VXC SERIES

CEILING MOUNT SPEAKERS



SUBWOOFER MODEL

VXC4, VXC6, VXC8

HIGH QUALITY CEILING MOUNT SPEAKERS

Combining esuperior sound quality and flexible installation workflow, the **VXC SERIES** are designed especially for the high quality segments of the commercial installation market. The **VXC SERIES** comprises three sizes of ceiling mount cabinets available in black and white grille colour, inlcuding O-ring and tile rail mounting accessories (except for VXC8S subwoofer) as well as an advanced carrying band and anti-drop tab mechanism to facilitate easy, fast and safe installation. All models feature a metal back can and include internal 100V transformers and overload protection circuits. Finally, the **VXC SERIES** comes with paintable speaker grilles supporting any interior design. A subwoofer is available to support optimal distribution of low frequencies. For applications requiring Voice Alarm functionality, the VXC4, VXC6, VXC8 are also available as VA models with EN54-24 certification.

KEY FEATURES

- THREE FULL-RANGE MODELS AND SUBWOOFER AVAILABLE IN EITHER BLACK OR WHITE
- O-RING AND TILE RAIL INCLUDED (EXCEPT FOR VXC8S SUBWOOFER)
- PAINTABLE SPEAKER GRILLES
- INTERNAL 100V TRANSFORMER, OVERLOAD PROTECTION
- CARRYING BAND AND ANTI-DROP TAB MECHANISM PROVIDE SECURE TEMPORARY POSITIONING DURING INSTALLATION
- VXC4, VXC6 AND VXC8: EN54-24 CERTIFIED VA VERSIONS AVAILABLE

DETAILS



O-RING AND TILE RAIL INCLUDED (EXCEPT FOR VXC8S: AB-C8S)



PAINTABLE GRILLES



PENDANT-MOUNT KIT FOR VXC4



REAR PANEL



REAR PANEL (VA MODELS)



TRANSFORMER TAP SELECTOR

QUICK SPECIFICATIONS

	VXC4 (VA)	VXC6 (VA)	VXC8 (VA)	VXC8S
TRANSDUCERS	4” full range	5.5” + 0.75”	8” + 1”	8”
POWER RATING (NOISE)	30 W	75 W	90 W	100 W
TRANSFORMER TAPS (100V)	30 W, 15 W, 7.5 W	60 W, 30 W, 15 W	60 W, 30 W, 15 W	60 W, 30 W, 15 W
SENSITIVITY @1 W, 1 M	87 dB SPL (VA: 87 dB) SPL	86 dB SPL (VA: 86 dB SPL)	90 dB SPL (VA: 89 dB SPL)	88 dB SPL
PEAK SPL	108 dB SPL (VA: 108 dB SPL)	111 dB SPL (VA: 111 dB SPL)	116 dB SPL (VA: 114 dB SPL)	114 dB
FREQUENCY RANGE (-10 DB)	80 Hz - 20 kHz	56 Hz - 20 kHz	55 Hz - 20 kHz	44 Hz - 200 Hz
NOMINAL COVERAGE	130°	110°	100°	-
TERMINALS	4P Euroblock (VA: 3P ceramic)	4P Euroblock (VA: 3P ceramic)	4P Euroblock (VA: 3P ceramic)	2 x 4P Euroblock
MEASURES O X D	225 x 195 mm	286 x 205 mm	325 x 259 mm	324 x 314 mm
WEIGHT	2.6 kg	4.4 kg	6.6 kg	8.7 kg
COLOUR	black, white			
INCLUDED ACCESSORIES	O-ring, Tile rail, cut out template			cut-out template

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 36

PASSIVE LOUDSPEAKERS

VXC SERIES F MODELS

LOW PROFILE CEILING MOUNT SPEAKERS



EXCELLENT SOUND QUALITY FOR LOW PROFILE CEILINGS

Combining excellent sound quality and flexible installation workflow, the **VXC SERIES F MODELS** are designed especially for applications with low profile ceilings. The **VXC SERIES F MODELS** comprises three sizes of ceiling mount cabinets available in black and white grille colour, including O-ring and tile rail mounting accessories (except for VXC2F) as well as an advanced carrying band and anti-drop tab mechanism to facilitate easy, fast and safe installation. To support zoning with high ceilings an elegant pendant kit is available as option. All models inlcude internal 100 V transformers and overload protection circuits. Finally, the **VXC SERIES F MODELS** comes with paintable speaker grilles supporting any interior design. For applications requiring Voice Alarm functionality, the VXC-F models are also available as VA models with EN54-24 certification. Black and white versions available.

KEY FEATURES

- THREE FULL-RANGE MODELS AVAILABLE IN EITHER BLACK OR WHITE.
- CARRYING BAND AND ANTI-DROP TAB MECHANISM PROVIDE SECURE TEMPORARY POSITIONING DURING INSTALLATION
- O-RING AND TILE RAIL INCLUDED (EXCEPT FOR VXC2F)
- PAINTABLE SPEAKER GRILLES WITH MAGNETIC CATCHES
- INTERNAL 100V TRANSFORMER, OVERLOAD PROTECTION
- EN54-24 CERTIFIED VA VERSIONS AVAILABLE FOR VXC3F AND VXC5F


telefication
Certificate
CE

VXC-F VA MODELS
EN54-24 CERTIFICATE

DETAILS



O-RING AND TILE RAIL INCLUDED
(EXCEPT FOR VXC2F: AB-C2)



PK-C4 PENDANT-MOUNT KIT
(OPTION FOR VXC2F)



REAR PANEL



TRANSFORMER TAP SELECTOR



ANTI-DROP TAB

QUICK SPECIFICATIONS

	VXC2F	VXC3F (VA)	VXC5F (VA)
TRANSDUCERS	2.5”	3.5”	4.5”
POWER RATING (NOISE)	15 W	20 W	40 W
TRANSFORMER TAPS (100V)	15 W, 7.5 W, 3.8 W, 1.9 W	15 W, 7.5 W, 3.8 W	30 W, 15 W, 7.5 W, 3.8 W
SENSITIVITY @1 W, 1 M	86 dB SPL	87 dB SPL (VA: 86 dB SPL)	89 dB SPL (VA: 87 dB SPL)
PEAK SPL	104 dB SPL	106 dB SPL (VA: 105 dB SPL)	111 dB SPL (VA: 109 dB SPL)
FREQUENCY RANGE (-10 DB)	67 Hz - 20 kHz	71 Hz - 20 kHz	60 Hz - 20 kHz
NOMINAL COVERAGE	160°	140°	130°
TERMINALS	4P Euroblock	4P Euroblock (VA: 3P ceramic)	4P Euroblock (VA: 3P ceramic)
MEASURES O X D	225 x 89 mm	285 x 112 mm	324 x 143 mm
WEIGHT	1.7 kg	2.5 kg	3.1 kg
COLOUR	black, white		
INCLUDED ACCESSORIES	Cutout Template	O-ring, Tile Rail, Cutout Template, Terminal Cover	

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 37

VXH SERIES

PENDULUM SPEAKERS



STUNNING SOUND FROM ANY CEILING

VXH SERIES pendant speakers are an ideal choice for open-structure or sloped ceilings, adding versatility for a variety of environments and sonic needs. Two models are available: the wide-dispersion 6.5-inch VXH6 for use where the speakers are to be suspended at a relatively low position, and the high-power 8-inch VXH8 with narrower dispersion for higher suspension positions. You can select or mix and match models to achieve the best sound and coverage in any application.

KEY FEATURES

- NARROW AND WIDE DISPERSION MODELS
- PENDANT SPEAKER SUITABLE FOR HIGH, OPEN STRUCTURE OR SLOPED CEILINGS
- DIRECT SUPPORT FOR LOW-IMPEDANCE OR HIGH-IMPEDANCE CONNECTIONS
- PAINTABLE GRILLES WITH MAGNETIC CATCHES
- 2 X 6 M STEEL WIRE CABLES BY GRIPPLE INCLUCED
- BLACK AND WHITE VERSIONS AVAILABLE

DETAILS



VXH6 FRONT
(WITHOUT GRILLE)



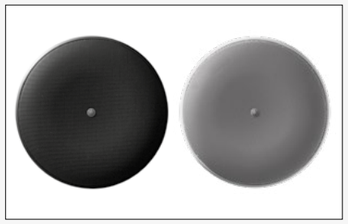
VXH6/8 BACK PANEL



VXH GRIPPLE
(INCLUDED)



VXH8 FRONT
(WITHOUT GRILLE)



VXH6/8 GRILLE
(BLACK, WHITE)



GRIPPLE LOCK

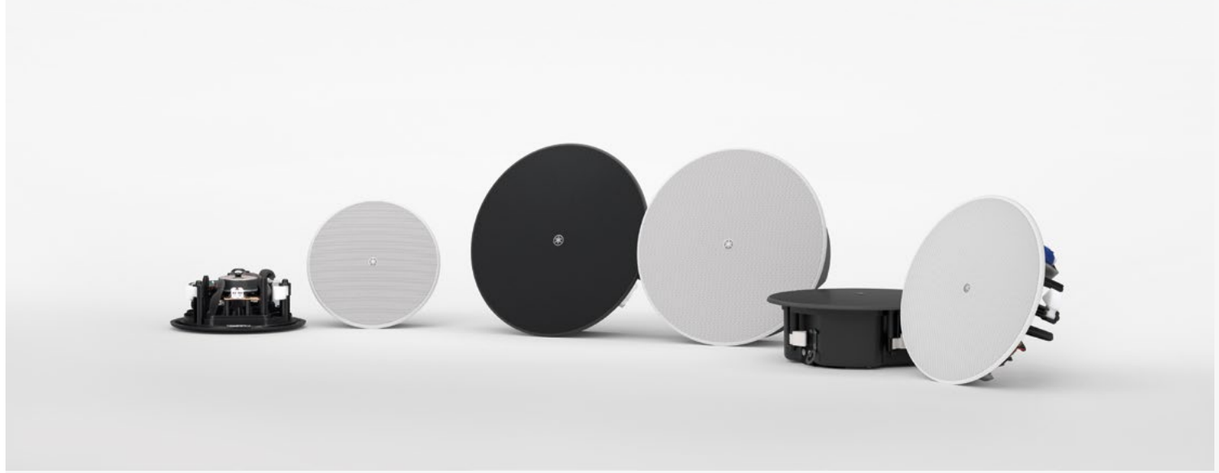
QUICK SPECIFICATIONS

	VXH6	VXH8
TRANSDUCERS	6.5" + 1"	8" + 1"
POWER RATING (NOISE)	75 W	90 W
TRANSFORMER TAPS (100 V)	60 W / 30 W / 15 W	60 W / 30 W / 15 W
SENSITIVITY @1 W, 1 M	93 dB	94 dB
PEAK SPL	118 dB	120 dB
FREQUENCY RANGE (-10 DB)	55 Hz - 20 kHz	57 Hz - 20 kHz
NOMINAL COVERAGE	120°	75°
MEASURES O X D	341 x 379 mm	356 x 434 mm
WEIGHT	5.7 kg	7.2 kg
COLOUR	black, white	
CERTIFICATES	IP45, UL1480A, NFPA70, CE, RoHS	
INCLUDED ACCESSORIES	black, white	

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 36

VC SERIES

CEILING SPEAKERS



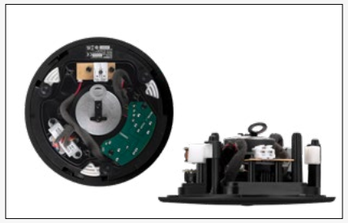
PREMIUM SOUNDING COMPACT CEILING SPEAKERS AT A NON-PREMIUM PRICE

VC SERIES CEILING SPEAKERS for commercial installations deliver excellent sound quality at a price point traditionally reserved for economy speakers. A total of six models, three with back cans and three without, feature elegant low-profile designs that can be install easily even in limited ceiling or wall spaces. Shallow, lightweight, and flexible design can easily adapt to the strictest installation limitations, ensuring superb audio performance wherever they're placed without spoiling interior design. Large mounting clamps with non-slip treads ensure secure mounting. Both high-impedance and low-impedance connections are supported, and speaker wattage can be easily switched even after installation.

KEY FEATURES

- EXTREMELY LOW PROFILE
- VC8, VC6 AND VC4 WITH BACK CAN, VC8N, VC6N, VC4N WITHOUT BACK CAN
- ELEGANT DESIGN BLENDS WITH ANY DÉCOR
- HIGH-IMPEDANCE AND LOW-IMPEDANCE SUPPORTED
- SAFER, FASTER INSTALLATION
- PAINTABLE GRILLES

DETAILS



VC4N REAR & SIDE



VC8N REAR & SIDE



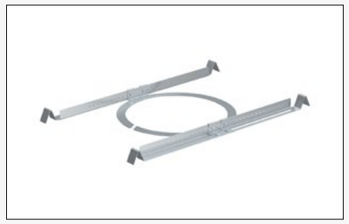
100V TAP SELECTOR



VC4 REAR & SIDE



VC8 REAR & SIDE



AB-C2 OPTIONAL TILE RAIL KIT FOR VC4(N)

QUICK SPECIFICATIONS

	VC4	VC6	VC8	VC4N	VC6N	VC8N
TRANSDUCERS	4" + 0.8"	6.5" + 0.8"	8" + 1"	4" + 0.8"	6.5" + 0.8"	8" + 1"
POWER RATING (NOISE)	15 W	25 W	25 W	15 W	25 W	25 W
TRANSFORMER TAPS (100 V)	6 W / 3 W / 1.5 W	12 W / 6 W / 3 W	12 W / 6 W / 3 W	6 W / 3 W / 1.5 W	12 W / 6 W / 3 W	12 W / 6 W / 3 W
SENSITIVITY @1 W, 1 M	88 dB SPL	89 dB SPL	91 dB SPL	88 dB SPL	89 dB SPL	91 dB SPL
PEAK SPL	106 dB SPL	109 dB SPL	111 dB SPL	106 dB SPL	109 dB SPL	111 dB SPL
FREQUENCY RANGE (-10 DB)	121 Hz - 20 kHz	104 Hz - 20 kHz	96 Hz - 20 kHz	85 Hz - 20 kHz	63 Hz - 20 kHz	52 Hz - 20 kHz
NOMINAL COVERAGE	160°	120°	110°	160°	120°	110°
MEASURES O X D	225 x 95 mm	286 x 106 mm	325 x 122 mm	225 x 95 mm	286 x 106 mm	325 x 122 mm
WEIGHT	2.1 kg	3.3 kg	4.2 kg	1.4 kg	2.3 kg	2.8 kg
COLOUR	black, white					
INCLUDED ACCESSORIES	Grille, safety wire	Grille, C-ring, tile rails, safety wire	Grille, C-ring, tile rails, safety wire	Grille, safety wire	Grille, C-ring, tile rails, safety wire	Grille, C-ring, tile rails, safety wire

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 36

CBR SERIES

SOUND REINFORCEMENT LOUDSPEAKERS



MID SPL SOUND REINFORCEMENT SPEAKERS

The **CBR SERIES** is a lineup of passive loudspeakers developed by adopting the extensive knowledge of speaker design and acoustic technologies that Yamaha has accrued over a long and storied history of making speakers of every kind. Combining a meticulous materials selection process, thorough customization of the audio components, and a fresh, innovative approach to speaker design, our engineering team's primary focus was to deliver mid-power, high-definition sound in a highly portable and versatile design that is equally at home in front-of-house, floor monitoring, or rigged configurations.

KEY FEATURES

- HF PROTECTION AND HIGHLY RESPONSIVE LF UNIT FOR RELIABLE PERFORMANCE AT ANY OUTPUT LEVEL
- RUGGED YET LIGHTWEIGHT ENCLOSURE DESIGN
- SIMPLE CONNECTIVITY WITH SPEAKON AND PHONE CONNECTORS
- WEDGE DESIGN FOR FLOOR MONITORING
- M8 RIGGING POINTS FOR INSTALLATION APPLICATIONS
- OPTIONAL BRACKETS AND SPEAKER COVERS

DETAILS



REAR PANEL



BBS251 BATON BRACKET
(OPTION)



BCS251 CEILING BRACKET
(OPTION)



BWS251-300/400
WALL BRACKET (OPTION)



EYE BOLTS
(NOT INCLUDED)



SPCVR-1001, 1201, 1501
SPEAKER COVERS (OPTION)

QUICK SPECIFICATIONS

	CBR10	CBR12	CBR15
TRANSDUCERS	10" + 1"	12" + 1.4"	15" + 1.4"
POWER RATING (NOISE)	175 W	175 W	250 W
SENSITIVITY @1 W, 1 M	94 dB SPL	96 dB SPL	96 dB SPL
PEAK SPL	123 dB SPL	125 dB SPL	126 dB SPL
FREQUENCY RANGE (-10 DB)	50 Hz - 20 kHz	48 Hz - 20 kHz	46 Hz - 20 kHz
NOMINAL COVERAGE	90° x 60°	90° x 60°	90° x 60°
TERMINALS	1 x NL4MP, 1 x 1/4" phone		
MEASURES W X H X D	308 x 493 x 289 mm	376 x 601 x 348 mm	455 x 700 x 3878 mm
WEIGHT	9.4 kg	13.9 kg	17.7 kg
CABINET MATERIAL	plastic		
COLOUR	black		
MOUNTING & FLYING	2 x M8, 35 mm pole socket	3 x M8, 35 mm pole socket	

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 40

CHR SERIES

SOUND REINFORCEMENT LOUDSPEAKERS

LOUDSPEAKERS CHR SERIES



PERFORMANCE. OPTIMIZED.

The **CHR SERIES** offers an ideal solution for anyone ready to step up their sound reinforcement game to a new level of professional quality, accuracy, and performance. Premium plywood cabinets finished in a tough polyurea coating provide durability not found on other loudspeakers in this class.

Each model in the series has been optimized to meet the demands of a variety of sound reinforcement applications, with a 10” model for fixed installation and utilities, a 12” model designed for use as a floor monitor, and a 15” version for FOH applications — all featuring carefully selected custom transducers. Combined with practical features adapted for their specific applications, the series gives you the flexibility to choose the ideal speaker for a wide variety of sonic environments. Isn’t it time you audition CHR quality and performance to improve your sound?

KEY FEATURES

- **LIVE SOUND REINFORCEMENT LOUDSPEAKERS**
- **CUSTOM DESIGNED TRANSDUCERS**
- **RUGGED, HIGHLY PORTABLE CABINETS**
- **DUAL ANGLE POLE MOUNT SOCKET (CHR15)**
- **ROTATABLE HORN (CHR10)**

DETAILS



REAR PANEL



CHR12M 1,75” COAXIAL COMPRESSION DRIVER



CHR15 EYE BOLT RIGGING
(EYE BOLTS NOT INCLUDED)



CHR10 ROTATABLE HORN



UB-DXRDHR10 U-BRACKET FOR CHR10
(OPTION)

QUICK SPECIFICATIONS

	CHR10	CHR12M	CHR15
TRANSDUCERS	10” + 1.4”	12” + 1.75”	` 15” + 1.4”
POWER RATING (NOISE)	175 W	250 W	250 W
SENSITIVITY @1 W, 1 M	93 dB SPL	93 dB SPL	95 dB SPL
PEAK SPL	122 dB APL	123 dB SPL	125 dB SPL
FREQUENCY RANGE (-10 DB)	55 Hz - 20 kHz	61 Hz - 20 kHz	49 Hz - 20 kHz
NOMINAL COVERAGE	90° x 60°, Rotatable	90° x 90°	90° x 60°
TERMINALS	SpeakON NL4MP x 2 (Parallel)		
MEASURES W X H X D	305 x 494 x 300 mm	500 x 343 x 454 mm	432 x 692 x 405 mm
WEIGHT	13.7 kg	15.6 kg	22.0 kg
CABINET MATERIAL	plywood, durable polyurea painting		
COLOUR	black		
MOUNTING & FLYING	Top x 2, Rear x 1 (Fit for M10 x 30 - 50 mm Eyebolts)	-	Top x 2, Rear x 1 (Fit for M10 x 30 - 50 mm Eyebolts)

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 40

CZR/CXS-XLF SERIES

SOUND REINFORCEMENT SPEAKERS

LOUDSPEAKERS
CZR SERIES
SUBWOOFERS
CXS XLF SERIES



HIGH SPL SOUND REINFORCEMENT SPEAKERS

The **CZR SERIES** is a range of passive loudspeakers offering high power handling and outstanding sonic performance in a portable, lightweight, yet rugged design. The CZR is ideal for a range of live performance and installed sound environments—from live bands at outdoor festivals to DJ's in clubs— delivering crystal clear, high-quality sound with impressive bass performance. For even more bottom end, adding **CXS XLF SERIES** subwoofers can extend your system's low frequency performance dramatically to support demanding music genres.

KEY FEATURES

- **DURABLE PLYWOOD CABINET WITH POLYUREA COATING**
- **ROTATABLE WIDE DISPERSION CONSTANT DIRECTIVITY HORN**
- **MIRROR SET UP FOR FLOOR MONITORING (CZR12 AND CZR15)**
- **DUAL ANGLE POLE SOCKET**
- **VERTICAL AND HORIZONTAL U-BRACKET**
- **M10 AND M8 RIGGING POINTS**

DETAILS



CZR REAR PANEL



CXS-XLF REAR PANEL



UB-DZR10H/12H/15H
HORIZONTAL U-BRACKET



UB-DZR10V/12V/15V
VERTICAL U-BRACKET



SPCVR-DZR10/12/15
SPEAKER COVER



SPW-1 WHEEL KIT
FOR CXS XLF SERIES

QUICK SPECIFICATIONS

	CZR10	CZR12	CZR15	CXS15XLF	CXS18XLF
TRANSDUCERS	10" + 2"	12" + 2"	15" + 2"	15"	18"
POWER RATING (NOISE)	350 W	400W	400W	400W	500 W
SENSITIVITY @1 W, 1 M	95 dB SPL	97 dB SPL	97 dB SPL	98 dB SPL	100 dB SPL
PEAK SPL	127 dB SPL	129 dB SPL	129 dB SPL	130 dB SPL	133 dB SPL
FREQUENCY RANGE (-10 DB)	43 Hz - 20 kHz	43 Hz - 20 kHz	43 Hz - 20 kHz	33 Hz - 3 kHz	32 Hz - 3 kHz
NOMINAL COVERAGE	90° x 60°, Rotatable	90° x 60°, Rotatable	90° x 50°, Rotatable	–	–
TERMINALS	NL4 x 2	NL4 x 2	NL4 x 2	NL4 x 3	NL4 x 3
MEASURES W X H X D	315 x 537 x 345 mm	410 x 646 x 394 mm	450 x 761 x 460 mm	450 x 587 x 600 mm	550 x 657 x 720 mm
WEIGHT	14 kg	18 kg	21.3 kg	35.6 kg	43.6 kg
CABINET MATERIAL	Polyurea coated plywood				
COLOUR	black, white				
MOUNTING & FLYING	M10 x 8, M8 x2 35mm pole socket	M10 x 12, 35 mm pole socket	M10 x 12, 35mm pole socket	35 mm pole socket, M20 thread	35 mm pole socket, M20 thread

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 40

MT SERIES

STUDIO MONITOR HEADPHONES



PROFESSIONAL HEADPHONES FOR STUDIO AND SOUND REINFORCEMENT MONITORING

It takes a true original to become an industry standard, and since their inception Yamaha's NS-10M studio monitor speakers have become a mainstay of professional studios the world over, renowned for their legendary accuracy. Yamaha has remained faithful to a design philosophy focused on delivering the sonic accuracy that provides sound professionals with the perfect platform upon which to develop and establish their own signature sound. The **MT SERIES** studio monitor headphones remain true to this fundamental concept, delivering precision sound reproduction that meets the demanding requirements of today's professional studio and monitoring applications.

KEY FEATURES

- HIGH RESOLUTION SOUND
- CCAW VOICE COILS WITH NEODYMIUM MAGNETS
- SUPERB ISOLATION
- PREMIUM COMFORT
- STURDY, RELIABLE CONSTRUCTION
- BLACK AND WHITE VERSIONS

DETAILS



DIE-CAST ALUMINIUM SUPPORT ARMS



CCAW VOICE COILS
WITH NEODYMIUM MAGNETS



SMOOTH LOW RESISTANCE EAR PADS



CLOSED BACK CIRCUMAURAL HOUSING



HPH-MT5/7
3M STRAIGHT CABLES



HPH-MT8
COILED & STRAIGHT CABLES

QUICK SPECIFICATIONS

	HPH-MT5	HPH-MT7	HPH-MT8
TYPE	40 mm, closed back circumaural (over ear)	40 mm, closed back circumaural (over ear)	45 mm, closed back circumaural (over ear)
PEAK POWER	1,6 W	1,6 W	1,6 W
SENSITIVITY @1 W, 1 M	100 dB SPL	99 dB SPL	102 dB SPL
IMPEDANCE	51 Ω	49 Ω	37 Ω
FREQUENCY RANGE (-10 DB)	20 Hz - 20 kHz	15 Hz - 25 kHz	15 Hz - 28 kHz
CABLE	3 m straight, 3.5 mm stereo jack	3 m straight, 3.5 mm stereo jack	1.2 m coiled, 3.0 m straight, 3.5 mm stereo jack
MEASURES W X H X D	165 x 203 x 88 mm	170 x 195 x 98 mm	161 x 214 x 89 mm
WEIGHT	0.25 kg	0.36 kg	0.35 kg
COLOUR	black, white	black, white	black
INCLUDED ACCESSORIES	threaded 6.3 mm gold plated stereo adaptor, nylon carrying bag	threaded 6.3 mm gold plated stereo adaptor, padded carrying bag	threaded 6.3 mm gold plated stereo adaptor, padded carrying bag

PASSIVE LOUDSPEAKERS

LOUDSPEAKER SYSTEM DESIGN SOFTWARE



CISSCA

Commercial Installation Solutions Speaker Calculator (**CISSCA**) is a quick and easy to use software application that calculates the number of speakers required for optimum performance in a room specified by the user, simulating the effective sound pressure level of the system. CISSCA supports the VXS and VXC series.

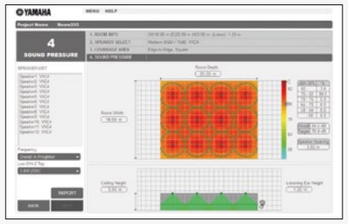
VXL SELECTION ASSISTANT

The online **VXL SELECTION ASSISTANT APP** is intended to assist in the selection of the most appropriate VXL compact line array model for speech reproduction and sound reinforcement applications. The app will provide an indication of whether good amplified sound can be provided throughout the audience area by calculating the difference in SPL between the nearest and furthest audience members, based on the VXL compact line array output attenuation over distance.

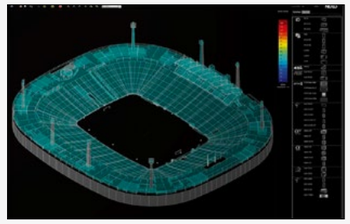
NS-1

The **NEXO NS-1** speaker system configuration software is a powerful and intuitive system configuration and simulation tool enabling system designers and sound engineers to configure and optimise the performance of any Yamaha/NEXO loudspeaker system by predicting its behaviour in any venue to ensure uniform SPL coverage.

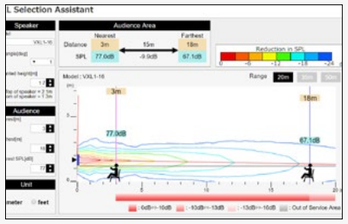
CISSCA NS-1 LINE ARRAY SPEAKER VXL SERIES



CISSCA



NS-1



VXL SELECTION ASSISTANT

KEY FEATURES

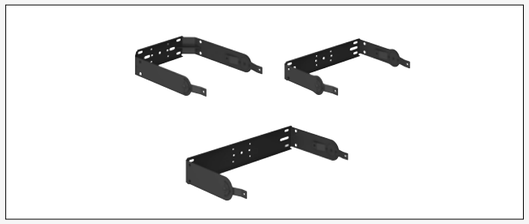
- **THREE SOFTWARE TOOLS AVAILABLE FREE OF CHARGE**
- **VXL WEB APPLICATION SUPPORTS EASY CONFIGURATION FOR VXL SERIES LINE ARRAY SPEAKERS**
- **CISSCA SUPPORTS QUICK AND EASY SPEAKER SYSTEM CONFIGURATION FOR VXS AND VXC SPEAKERS**
- **NS-1 SUPPORTS INTUITIVE CONFIGURATION OF COMPLEX SPEAKER SYSTEMS**
- **NS-1 SUPPORT NEXO SPEAKERS: ID SERIES, EPS, P+ SERIES, GEO-M, STM (AVAILABLE THROUGH NEXO)**

SPECIFICATONS

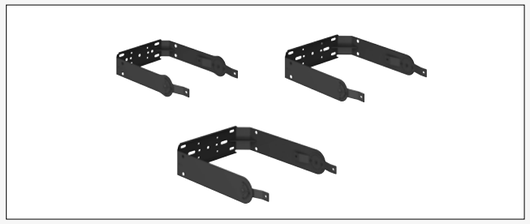
	CISSCA	NS-1	VXL ASSISTANT
SUPPORTED YAMAHA SPEAKERS	VXS, VXC series	VXC, VXS, VXL, CBR, CZR series	VXL series
SUPPORTED NEXO SPEAKERS	–	ID, ePS, P+, GEO-M, STM series	–
OPERATING SYSTEM	Windows 10	Windows 10	Windows 10
ACCESS	free of charge download: https://europe.yamaha.com/en/products/proaudio/software/commercial_installation_solutions_speaker_calculator/index.html	free of charge download: https://www.nexo-sa.com/systems/software/	web page: https://europe.yamaha.com/en/products/proaudio/speakers/vxl/selection_assistant.html#product-tabs

PASSIVE LOUDSPEAKERS

SPEAKER BRACKETS FOR PASSIVE SPEAKERS



UB-DZR10H / UB-DZR12H / UB-DZR15H
HOPRIZONTAL U-BRACKETS FOR DZR AND CZR SERIS



UB-DZR10V / UB-DZR12V / UB-DZR15V
VERTICAL U-BRACKETS FOR DZR AND CZR SERIS



BBS251 BATON BRACKET
MAX LOAD: 30 KG



BCS251 CEILING BRACKET
MAX LOAD: 30 KG



BWS251-300/400 WALL BRACKETS
MAX LOAD: 30 KG



BWS50-190/260 WALL BRACKETS
MAX LOAD: 20 KG



BWS20-120/190 WALL BRACKETS
MAX LOAD: 7 KG



BCS20-150/210 CEILING BRACKETS
MAX LOAD: 10 KG

BRACKET COMPATIBILITY

	UB-DZR10H	UB-DZR12H	UB-DZR15H	UB-DZR10V	UB-DZR12V	UB-DZR15V	UB-DXR DHR10	BBS 251	BCS251	BWS251 -300 -400	BWS50 (190, 260)	BCS20 (150, 210)	BWS20 (120, 190)
DBR/CBR 10								✗	✗	✗			
DBR/CBR 12								✗	✗	✗			
DBR/CBR 15								✗	✗	✗			
DHR/CHR 10							✗						
DZR/CZR 10	✗			✗									
DZR/CZR 12		✗			✗								
DZR/CZR 15			✗			✗							
VXS5												✗	✗
VXS8												✗	

SPEAKER COVERS FOR PASSIVE SPEAKERS



SPVCR-DZR15



SPVCR-DZR12



SPVCR-DZR10



SPVCR-DXS18X



SPVCR-DXS15X



SPW-1

COVER COMPATIBILITY

	SPVCR - DZR10	SPVCR - DZR12	SPVCR - DZR15	SPCVR - DXS15X	SPCVR - DXS18X	SPCVR - 1001	SPVCR - 1201	SPCVR - 1501	SPW-1
CZR10	✗								
CZR12		✗							
CZR15			✗						
CXS15XLF				✗					✗
CXS18XLF					✗				✗
DBR10						✗			
DBR12							✗		
DBR15								✗	

PASSIVE LOUDSPEAKERS

SPECIFICATIONS COMMERCIAL INSTALLATION SURFACE MOUNT & COMPACT LINE ARRAY LOUDSPEAKERS

		SURFACE MOUNT SPEAKERS					
		VXS3F	VXS3FT	VXS5	VXS8	VXS10S	VXS10ST
SYSTEM	TYPE	full range		2-way full range		subwoofer	
	LF	acoustic suspension		bass reflex		bass reflex	
	HF	-		soft dome		-	
	ENCLOSURE	surface mount				-	
POWER RATING	NOISE	20 W	20 W	75 W	90 W	100 W + 100 W	
	PEAK	80 W	80 W	300 W	360 W	800 W	
	TRANSFORMER TAPS (100V)	-	15 W / 7.5 W / 3.5 W	30 W/ 15 W/ 7.5 W	60 W / 30 W / 15 W	-	200 W / 100 W/ 50 W
PROTECTION CIRCUIT		yes				yes	
IMPEDANCE	NOMINAL	8 Ω				8 Ω + 8 Ω	–
	TRANSFORMER TAPS (100V)	-	670 / 1.3 k / 2.7 k Ω	170 / 330 / 670 Ω	170 / 330 / 670 Ω	-	50 / 100 / 200 Ω
SENSITIVITY		86 dB SPL	86 dB SPL	89 dB SPL	91 dB SPL	96 dB SPL	
PEAK SPL		105 dB SPL	105 dB SPL	114 dB SPL	117 dB SPL	125 dB SPL	
FREQUENCY RANGE		130 Hz - 20 kHz	130 Hz - 20 kHz	62 Hz - 20 kHz	51 Hz - 20 kHz	45 Hz - 250 Hz	
CROSSOVER		-	-	3 kHz	2.8 kHz	-	
COVERAGE ANGLE	DEGREES HORIZONTAL	150°	150°	120°	100°	-	
	DEGREES VERTICAL	160°	160°	120°	100°	-	
TRANSDUCERS	LF CONE DIAMETER	3.5"	3.5"	5.25"	8"	10" dual voice coil	
	HF VOICE COIL DIAMETER	-	-	0.75"	1"	-	
TERMINALS	BARRIER STRIP	-	2P	-	-	-	
	EUROBLOCK	4P	-	4P	4P	4P x 2	
	CERAMIC	-				-	
DIMENSIONS (EXCL. BRACKET)	W	184 mm	184 mm	176 mm	278 mm	260 mm	
	H	130 mm	130 mm	280 mm	430 mm	500 mm	
	D	94 mm	94 mm	163 mm	239 mm	389 mm	
	O	-				-	
	CUTOUT SIZE	-				-	
	CEILING BOARD THICKNESS	-				-	
WEIGHT		1 kg	1.7 kg	3.6 kg	8.2 kg	16.5 kg	19.5 kg
ENCLOSURE MATERIALS	MATERIAL	ABS				MDF	
	FINISH	paintable				-	
	COLOUR	black, white				black, white	
	IP RATING	-	-	IP35	IP35	-	
EN54-24 COMPLIANT		-				-	
PACKAGING		pair				piece	
WALL BRACKET		included	incl. transformer	included	included	included	
TERMINAL COVER		included				-	
CEILING MOUNT		-				option UB-DXR8	
OPTIONS		-				-	
POE (IEEE 802.3 AT/AF)	DYNAMIC POWER AT/AF	-				-	
	CONTINUOUS POWER AT/AF	-				-	
	COOLING	-				-	
	RJ45 (DANTE) CONNECTORS	-				-	
	POWER CONSUMPTION IDLE	-				-	
	POWER CONSUMPTION 1/8 POWER (AT/AF)	-				-	

	COMPACT SURFACE MOUNT SPEAKERS				COMPACT LINE ARRAYS			
	VXS1ML	VXS3S	VS4	VS6	VXL1-8	VXL1-16	VXL1-24	VXL1-16P
SYSTEM	full range	subwoofer	full range	full range	line array			
	acoustic suspension	SR-Bass	acoustic suspension	acoustic suspension	bass reflex			
	-	-	dome	dome	-			
					surface mount			
POWER RATING	5 W	20 W	15 W	25 W	40 W	80 W	110 W	-
	20 W	80 W	60 W	100 W	160 W	320 W	40 W	-
	-		15 W / 7.5 W / 3.8 W	12 W / 12.5 W / 6.3 W	-			
PROTECTION CIRCUIT	-	yes	-		yes			
IMPEDANCE	8 Ω				16 Ω	12 Ω	8 Ω	-
	-				-			
SENSITIVITY	79 dB SPL	79 dB SPL	88 dB SPL	90 dB SPL	88 dB SPL	90 dB SPL	91 dB SPL	-
PEAK SPL	92 dB SPL	98 dB SPL	106 dB SPL	110 dB SPL	111 dB SPL	116 dB SPL	117 dB SPL	102 dB SPL
FREQUENCY RANGE	180 Hz - 20 kHz	65 Hz - 180 Hz	100 Hz - 20 kHz	80 Hz - 20 kHz	110 Hz - 20 kHz	108 Hz - 20 kHz	98 Hz - 20 kHz	110 Hz - 20 kHz
CROSSOVER	-	-	15 kHz	15 kHz	-			
COVERAGE ANGLE	170°	-	110°	90°	170°			
	170°	-	110°	90°	65°	25° / 30°	15° / 20°	30°
TRANSDUCERS	1.5"	3.5"	4"	6.5"	1.5" x 8	1.5" x 16	1.5" x 24	1.5" x 16
	-	-	1"	1"	-			
TERMINALS	-	-	4P	4P	-	-	-	-
	2P	4P+8P	-	-	2P x 2	2P x 2	2P x 2	-
	-				-	-	-	-
DIMENSIONS (EXCL. BRACKET)	62 mm	322 mm	152 mm	190 mm	54 mm			
	62 mm	162 mm	243 mm	308 mm	480 mm	846 mm	1212 mm	480 mm
	82 mm	118 mm	172 mm	219 mm	104 mm			
	-				-			
	-				-			
	-				-			
WEIGHT	0.17 kg	2.7 kg	1.9 kg	2.8 kg	2.1 kg	3.9 kg	5.5 kg	5 kg
ENCLOSURE MATERIALS	ABS	ABS	HIPS, 94-HB	HIPS, 94-HB	Aluminium extrusion			
	-				paintable			
	-				black, white			
	-	-	IPX3	IPX3	IP35	IP35	IP35	-
EN54-24 COMPLIANT	-				-			
PACKAGING	piece	piece	pair	pair	piece			
WALL BRACKET	included	included	included	included	included			
TERMINAL COVER	-	-	included	included	-			
CEILING MOUNT	included	option	-	-	-			
OPTIONS	-				WMB-L1 2-axis bracket, VCB-L1 vertical stack bracket, HCB-L1 horizintal stack bracket, VCSB-L1 2-axis vertical stack bracket, PA-L1 pole mount bracket, (non-PoE models only) ST-L1 100V transformer			
POE (IEEE 802.3 AT/AF) DYNAMIC POWER AT/AF	-				-			15 W/6 W
CONTINUOUS POWER AT/AF	-				-			15 W/6 W
COOLING	-				-			convection
RJ45 (DANTE) CONNECTORS	-				-			1
POWER CONSUMPTION IDLE	-				-			3 W
POWER CONSUMPTION 1/8 POWER (AT/AF)	-				-			6 W/4.3 W

PASSIVE LOUDSPEAKERS

YAMAHA

SPECIFICATIONS COMMERCIAL INSTALLATION CEILING MOUNT & PENDANT LOUDSPEAKERS

		CEILING MOUNT SPEAKERS			
		VXC4	VXC6	VXC8	VXC8S
SYSTEM	TYPE	full range	2-way full range	2-way full range	subwoofer
	LF	bass reflex	acoustic suspension	acoustic suspension	band pass
	HF	-	soft dome	soft dome	-
	ENCLOSURE	in-ceiling with back can			in-ceiling with back can
POWER RATING	NOISE	30 W	75 W	90 W	100 W
	PEAK	120 W	300 W	360 W	400 W
	TRANSFORMER TAPS (100 V)	30 W /15 W / 7.5 W	60 W / 30 W / 15 W	60 W / 30 W / 15 W	60 W / 30 W / 15 W / 7.5 W
PROTECTION CIRCUIT		yes			yes
IMPEDANCE	NOMINAL	8 Ω			8 Ω
	TRANSFORMER TAPS (100 V)	330 / 670 / 1.3k Ω	170 / 330 / 670 Ω	170 / 330 / 670 Ω	170 / 330 / 670 / 1.3k Ω
SENSITIVITY		87 dB SPL	86 dB SPL	90 dB SPL	88 dB SPL
PEAK SPL		108 dB SPL	111 dB SPL	116 dB SPL	114 dB SPL
FREQUENCY RANGE		80 Hz - 20 kHz	56 Hz - 20 kHz	55 Hz - 20 kHz	44 Hz - 200 Hz
CROSSOVER		-	3.2kHz	3kHz	-
COVERAGE ANGLE	DEGREES HORIZONTAL	130°	110°	100°	-
	DEGREES VERTICAL	130°	110°	100°	-
TRANSDUCERS	LF CONE DIAMETER	4”	6.5”	8”	8”
	HF VOICE COIL DIAMETER	-	0.75”	1”	-
TERMINALS	BARRIER STRIP	-			-
	EUROBLOCK	4P			4P
	CERAMIC	-			-
DIMENSIONS	W	-			-
	H	-			-
	D	195 mm	205 mm	259 mm	324 mm
	O	225 mm	286 mm	325 mm	314 mm
	CUTOUT SIZE	186 mm	247 mm	285 mm	285 mm
	CEILING BOARD THICKNESS	1-35 mm			1-37 mm
WEIGHT		2.6 kg	4.4 kg	6.6 kg	8.7 kg
ENCLOSURE MATERIALS	MATERIAL	Steel/HIPS			Steel/HIPS
	FINISH	paintable			paintable
	COLOUR	black, white			black, white
	IP RATING	-			-
EN54-24 COMPLIANT		-			-
PACKAGING		pair			pair
WALL BRACKET		-			–
TERMINAL COVER		-			–
CEILING MOUNT		0-ring, tile rail			–
OPTIONS		-			0-ring, tile rail

LOW PROFILE CEILING MOUNT SPEAKERS			CEILING MOUNT SPEAKERS						PENDULUM SPEAKERS	
VXC2F	VXC3F	VXC5F	VC4	VC6	VC8	VC4N	VC6N	VC8N	VXH6	VXH8
full range	full range	full range	2-way coaxial						2-way coaxial	
bass reflex	bass reflex	bass reflex	acoustic suspension			without back can			bass reflex	
-	-	-	film dome	soft dome	soft dome	film dome	soft dome	soft dome	soft dome	
in-ceiling with back can			in-ceiling with back can			in-ceiling with back can			pendulum	
15 W	20 W	40 W	15 W	25 W	25 W	15 W	25 W	25 W	75 W	90 W
60 W	80 W	160 W	60 W	100 W	100 W	60 W	100 W	100 W	300 W	360 W
15 W / 7.5 W / 3.8 W / 1.9 W	15 W / 7.5 W / 3.8 W	30 W / 15 W / 7.5 W	6 W / 3 W / 1.5 W	12 W / 6 W / 3 W	12 W / 6 W / 3 W	6 W / 3 W / 1.5 W	12 W / 6 W / 3 W	12 W / 6 W / 3 W	60 W, 30 W, 15 W	
yes			yes						yes	
8 Ω			16 Ω						8 Ω	
670 / 1.3k / 2.7k / 5.4k Ω	670 / 1.3k / 2.6k Ω	330 / 670 / 1.3k Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	950 / 1k9 / 3k8 Ω	170 / 330 / 670 Ω	
86 dB SPL	87 dB SPL	89 dB SPL	88 dB SPL	89 dB SPL	91 dB SPL	88 dB SPL	89 dB SPL	91 dB SPL	93 dB SPL	94 dB SPL
104 dB SPL	106 dB SPL	111 dB SPL	106 dB SPL	109 dB SPL	111 dB SPL	106 dB SPL	109 dB SPL	111 dB SPL	118 dB SPL	120 dB SPL
67 Hz - 10 kHz	71 Hz - 20 kHz	60 Hz - 20 kHz	121 Hz - 20 kHz	104 Hz - 20 kHz	96 Hz - 20 kHz	85 Hz - 20 kHz	63 Hz - 20 kHz	52 Hz - 20 kHz	55 Hz - 20 kHz	57 Hz - 20 kHz
-									3 kHz	
160°	140°	130°	160°	120°	110°	160°	120°	110°	120°	75°
160°	140°	130°	4”	6.5”	8”	4”	6.5”	8”	120°	75°
2.5”	3.5”	4.5”	0.8”		1”	0.8”		1”	6.5”	8”
-	-	-							1”	
-									-	
4P			4P	4P	4P	–	–	–	4P	
-			–	–	–	2P	2P	2P	-	
-									-	
-									-	
89 mm	112 mm	143 mm	225 mm	286 mm	325 mm	225 mm	286 mm	325 mm	379 mm	434 mm
225 mm	285 mm	324 mm	95 mm	106 mm	122 mm	103 mm	114 mm	131 mm	341 mm	356 mm
186 mm	247 mm	285 mm	186 mm	247 mm	285 mm	186 mm	247 mm	285 mm	-	
5-37 mm	5-37 mm	5-37 mm							-	
1.7 kg	2.5 kg	3.1 kg	2.1 kg	3.3 kg	4.2 kg	1.4 kg	2.3 kg	2.8 kg	5.7 kg	7.2 kg
Steel/ABS	ABS	ABS	steel			fiber			steel	
paintable			-						powder coating, paintable	
black, white			black, white						black, White	
-			-						IP45	
-									-	
pair			piece						single	
-									-	
-									-	
0-ring, tile rail			Grille, C-ring, tile rails, safety wire		Grille, safety wire	Grille, C-ring, tile rails, safety wire		Grille, safety wire	GRIPPLE wire (included)	
pendant kit			AB-C2 C-ring + tile rail kit	–		AB-C2 C-ring + tile rail kit	–		-	

PASSIVE LOUDSPEAKERS

SPECIFICATIONS
COMMERCIAL INSTALLATION EN54-24 CERTIFIED LOUDSPEAKERS

		SURFACE MOUNT SPEAKERS	
		VXS5-VA	VXS8-VA
SYSTEM	TYPE	2-way full range	
	LF	bass reflex	
	HF	soft dome	
	ENCLOSURE	surface mnt	
POWER RATING	NOISE	75 W	90 W
	PEAK	300 W	360 W
	TRANSFORMER TAPS (100V)	30 W / 15 W / 7.5 W	60 W / 30 W / 15 W
PROTECTION CIRCUIT		yes	
IMPEDANCE	NOMINAL	8 Ω	
	TRANSFORMER TAPS (100V)	170/330/670 Ω	170/330/670 Ω
SENSITIVITY		88 dB SPL	89 dB SPL
PEAK SPL		113 dB SPL	115 dB SPL
FREQUENCY RANGE		62 Hz - 20 kHz	51 Hz - 20 kHz
CROSSOVER		3 kHz	2.8 kHz
COVERAGE ANGLE	DEGREES HORIZONTAL	120°	100°
	DEGREES VERTICAL	120°	100°
TRANSDUCERS	LF CONE DIAMETER	5.25"	8"
	HF VOICE COIL DIAMETER	0.75"	1"
TERMINALS	BARRIER STRIP	-	
	EUROBLOCK	-	
	CERAMIC	3P	
DIMENSIONS MM	W	176 mm	278 mm
	H	280 mm	430 mm
	D	163 mm	239 mm
	O	-	
	CUTOUT SIZE	-	
	CEILING BOARD THICKNESS	-	
WEIGHT		3.6 kg	8.2 kg
ENCLOSURE MATERIALS	MATERIAL	ABS	
	FINISH	paintable	
	COLOUR	black, white	
	IP RATING	IP35	
EN54-24 COMPLIANT		yes	
PACKAGING		pair	
WALL BRACKET		included	
TERMINAL COVER		included	
CEILING MOUNT		-	
OPTIONS		-	

CEILING MOUNT SPEAKERS			LOW PROFILE CEILING MOUNT SPEAKERS	
VXC4-VA	VXC6-VA	VXC8-VA	VXC3F-VA	VXC5F-VA
full range	2-way full range		full range	full range
bass reflex	acoustic suspension		bass reflex	bass reflex
-	soft dome		-	
ceiling			ceiling	
30 W	75 W	90 W	20 W	40 W
120 W	300 W	360 W	80 W	160 W
30 W / 15 W / 7.5 W	60 W / 30 W / 15 W	60 W / 30 W / 15 W	15 W / 7.5 W / 3.8 W	30 W / 15 W / 7.5 W
yes			yes	
8 Ω			8 Ω	
330/670/1.3k Ω	170/330/670 Ω	170/330/670 Ω	670/1.3k/2.6k Ω	330/670/1.3k Ω
87 dB SPL	86 dB SPL	89 dB SPL	86 dB SPL	87 dB SPL
108 dB SPL	111 dB SPL	114 dB SPL	105 dB SPL	109 dB SPL
80 Hz - 20 kHz	56 Hz - 20 kHz	55 Hz - 20 kHz	71 Hz - 20 kHz	60 Hz - 20 kHz
-	3.2 kHz	3 kHz	-	
130°	110°	100°	140°	130°
130°	110°	100°	140°	130°
4"	6.5"	8"	3.5"	4.5"
-	0.75"	1"	-	
-			-	
-			-	
3P			3P	
-			-	
-			-	
195 mm	205 mm	259 mm	112 mm	143 mm
225 mm	286 mm	325 mm	285 mm	324 mm
186 mm	247 mm	285 mm	247 mm	285 mm
5-37 mm			5-37 mm	
2.6 kg	4.4 kg	6.6 kg	2.6 kg	3.2 kg
ABS			ABS	
paintable			paintable	
black, white			black, white	
IP32			IP32	
yes			yes	
pair			pair	
included			included	
included			included	
0-ring, tile rail			optional	0-ring, tile rail
-			pendant kit	

PASSIVE LOUDSPEAKERS



SPECIFICATIONS SOUND REINFORCEMENT LOUDSPEAKERS

			CBR SERIES			CHR SERIES		
			CBR10	CBR12	CBR15	CHR10	CHR12M	CHR15
SYSTEM		TYPE	2-way full range			2-way full range		
		HF	compression driver			compression driver		
		LF	bass reflex			bass reflex		
		DRIVE MODE	passive			passive		
POWER RATING	**PASSIVE**	NOISE	175 W		250 W	175 W	250 W	250 W
		PEAK	700 W		1000 W	700 W	1000 W	1000 W
	BI-AMP LF	NOISE	-			-		
		PEAK	-			-		
	BI-AMP MF/HF	NOISE	-			-		
		PEAK	-			-		
IMPEDANCE		PASSIVE	8 Ω			8 Ω		
		BI-AMPED LF	-			-		
		BI-AMPED MF/HF	-			-		
SENSITIVITY		PASSIVE	94 dB SPL	96 dB SPL		93 dB SPL	93 dB SPL	95 dB SPL
		BI-AMPED LF	-			-		
		BI-AMPED MF/HF	-			-		
PEAK SPL		PASSIVE	123 dB SPL	125 dB SPL	126 dB SPL	122 dB SPL	123 dB SPL	125 dB SPL
		BI-AMPED LF	-			-		
		BI-AMPED MF/HF	-			-		
FREQUENCY RANGE		PASSIVE	50 Hz - 20 kHz	48 Hz - 20 kHz	46 Hz - 20 kHz	55 Hz - 20 kHz	61 Hz - 20 kHz	49 Hz - 20 kHZ
PASSIVE NETWORK CROSSOVER			2.8 kHz	2.1 kHZ	2 kHz	2.5 Khz	1.8 kHz	2.0 kHz
COVERAGE ANGLE		DEGREES HORIZONTAL	90°			90°		
		DEGREES VERTICAL	60°			60°	90°	60°
		ROTATABLE	–			yes	-	-
TRANS-DUCERS	**LF**	CONE DIAMETER	10”	12”	15”	10"	12"	15"
		VOICE COIL DIAMETER	2”	2”	2.5”	2"	2.5"	2.5"
		MAGNET MATERIAL	Ferrite			Ferrite		
	HF	VOICE COIL DIAMETER	1”	1.4”	1.4”	1.4"	1.75"	1.4"
		THROAT / EXIT DIAMETER	1”	1”	1”	1"		
		DIAPHRAGM MATERIAL	PET			PET		
		MAGNET MATERIAL	Ferrite			Ferrite	-	
CONNECTORS		NEUTRIK NL4	1			2 (parralel)		
		BARRIER STRIP	-			-		
		PHONE	1			-		
DIMENSIONS		W	308 mm	376 mm	455 mm	305 mm	500 mm	432 mm
		H	493 mm	601 mm	700 mm	494 mm	343 mm	692 mm
		D	289 mm	348 mm	378 mm	300 mm	454 mm	405 mm
WEIGHT			9.4 kg	13.9 kg	17.7 kg	13.7 kg	15.6 kg	22.0 kg
SHAPE			50°			trapezoid	wedge	trapezoid
ENCLOSURE MATERIALS		MATERIAL	Plastic			Plywood		
		FINISH	-			Polyurea coating		
		COLOUR	black			black		
		IP RATING	-			-		
POLE SOCKET		35MM 0 DEGREES	1			1		
		35MM 7 DEGREES	-			-		1
		M20 THREADED	-			-		
RIGGING POINTS		M6 / M8 / M10	- / 2 / -	- / 3 / -	- / 3 / -	- / - / 3	-	- / - / 3
HANDLES		SIDE / TOP	- / 1	2 / -	2 / -	- / 1	1 / -	2 / -
FLOOR MONITOR ANGLE			50°			-	57°	-

			CZR / CXS-XLF SERIES				
			CZR10	CZR12	CZR15	CXS15XLF	CXS18XLF
SYSTEM		TYPE	2-way full range			subwoofer	
		HF	compression driver			-	
		LF	bass reflex			bass reflex	
		DRIVE MODE	passive, bi-amp			-	
POWER RATING	**PASSIVE**	NOISE	350 W	400 W		400 W	500 W
		PEAK	1400 W	1600 W		1600 W	2000 W
	BI-AMP LF	NOISE	350 W	400 W		-	
		PEAK	1400 W	1600 W		-	
	BI-AMP MF/HF	NOISE	50 W			-	
		PEAK	200 W			-	
IMPEDANCE		PASSIVE	8 Ω			8 Ω	
		BI-AMPED LF	8 Ω			-	
		BI-AMPED MF/HF	16 Ω			-	
SENSITIVITY		PASSIVE	95 dB SPL	97 dB SPL	97 dB SPL	98 dB SPL	100 dB SPL
		BI-AMPED LF	95 dB SPL	97 dB SPL	99 dB SPL	-	
		BI-AMPED MF/HF	108 dB SPL	108 dB SPL	108 dB SPL	-	
PEAK SPL		PASSIVE	127 dB SPL	129 dB SPL	129 dB SPL	130 dB SPL	133 dB SPL
		BI-AMPED LF	127 dB SPL	129 dB SPL	131 dB SPL	-	
		BI-AMPED MF/HF	131 dB SPL	131 dB SPL	131 dB SPL	-	
FREQUENCY RANGE		PASSIVE	43 Hz - 20 kHz			33 Hz - 3.5 kHz	32 Hz - 3 kHz
PASSIVE NETWORK CROSSOVER			2.5 kHz	2 kHz		-	
COVERAGE ANGLE		DEGREES HORIZONTAL	90°			-	
		DEGREES VERTICAL	60°	60°	50°	-	
		ROTATABLE	yes			-	
TRANS-DUCERS	**LF**	CONE DIAMETER	10”	12”	15”	15”	18”
		VOICE COIL DIAMETER	3”			4”	
		MAGNET MATERIAL	Neodymium			Ferrite	
	HF	VOICE COIL DIAMETER	2”			-	
		THROAT / EXIT DIAMETER	1”			-	
		DIAPHRAGM MATERIAL	titanium			-	
		MAGNET MATERIAL	Neodymium			-	
CONNECTORS		NEUTRIK NL4	2			3	
		BARRIER STRIP	-			-	
		PHONE	-			-	
DIMENSIONS		W	315 mm	410 mm	450 mm	450 mm	550 mm
		H	537 mm	646 mm	761 mm	587 mm	657 mm
		D	345 mm	394 mm	460 mm	600 mm	720 mm
WEIGHT			14 kg	18 kg	21.3 kg	35.6 kg	43.6 kg
SHAPE			50°	50°	50° trapezoid	rectangular	
ENCLOSURE MATERIALS		MATERIAL	Plywood			Plywood	
		FINISH	Polyurea coating			Polyurea coating	
		COLOUR	black, white			black, white	
		IP RATING	-			-	
POLE SOCKET		35MM 0 DEGREES	1			1 (depth 80 mm)	
		35MM 7 DEGREES	1			-	
		M20 THREADED	-			1 (depth 25 mm)	
RIGGING POINTS		M6 / M8 / M10	- / 2 / 8	- / - / 12	- / - / 12	-	
HANDLES		SIDE / TOP	1 / 1	2 / -	2 / -	2 / -	2 / -
FLOOR MONITOR ANGLE			50°	50° symmetrical		-	

PASSIVE LOUDSPEAKERS

POWERED LOUDSPEAKERS

YAMAHA'S LOUDSPEAKER LEGACY CONTINUES IN ITS RANGE OF POWERED MODELS FOR SOUND REINFORCEMENT AND STUDIO MONITORING.

Combining the advanced technology of Yamaha's passive loudspeakers, amplifiers and digital signal processing (DSP) in stylish, road-ready enclosures, the active loudspeaker range includes models designed to satisfy the needs of all small-to-medium sized live sound reinforcement applications.

Whether the priority is speech or music, audience sound reinforcement or onstage monitoring, standalone or networked audio, high definition, high power or compact systems - or indeed all of these - **YAMAHA POWERED LOUDSPEAKERS** offer high efficiency amplifiers, advanced features and a range of loudspeaker sizes, all delivering integrated power and performance, designed to withstand the rigours of the road.

In the studio, the HS series range of powered reference monitors carries the industry-standard legacy of the NS10 into the 21st century. Like its illustrious predecessor, the iconic white speaker cone highlights monitors designed for precise, truthful reproduction, providing an honest reference to help make sure any mix is as accurate as possible.

And with three models and an extension subwoofer to choose from, the HS series is suitable for any listening environment.



DBR SERIES



DHR SERIES



DXR MKII SERIES / DXS SERIES



DZR / DXS-XLF SERIES



DXL-1K



MSP SERIES



HS SERIES



POWERED LOUDSPEAKERS

DBR SERIES

COMPACT SOUND REINFORCEMENT SPEAKERS



POWER TO PLAY

DBR SERIES loudspeakers offer high-definition sound and high sound pressure levels in a compact and extremely lightweight speaker design. Each DBR speaker provides two Class D digital amplifiers, one D-Contour multi-band compressor and comprehensive DSP-protections. Yamaha implemented FIR-X tuning™ tuning technology which offers linear frequency and phase response.

KEY FEATURES

- COMPACT, LIGHTWEIGHT HIGH-DEFINITION SOUND
- BI-AMPED CLASS D POWER AMPLIFIERS
- D-CONTOUR MULTI-BAND COMPRESSOR
- FIR-X TUNING
- INTELLIGENT INTEGRATED 2-CHANNEL MIXER
- SYMMETRICAL ENCLOSURE FOR POLE MOUNT AND FLOOR MONITOR APPLICATIONS

DETAILS



DURABLE, COMPACT DESIGN



HIGH VERSATILITY AND FUNCTIONALITY (2 CHANNEL MIXER WITH XLR, PHONE, RCA INPUTS)



SYMMETRICAL ENCLOSURE DESIGN FOR MIRROR-MODE FLOOR MONITORING (DBR12/DBR15)



EXTREMELY ACCURATE 90X60 CONSTANT-DIRECTIVITY HORN



SPCVR-0801/1001/1201/1501 SPEAKER COVERS FOR DBR10, DBR12, DBR15 (SEE PAGE 59)



SPEAKER STAND MOUNT

QUICK SPECIFICATIONS

	DBR10	DBR12	DBR15
TRANSDUCERS	10” + 1”	12” + 1.4”	15” + 1.4”
POWER AMP	700 W	1000 W	1000 W
PEAK SPL	129 dB SPL	131 dB SPL	132 dB SPL
FREQUENCY RANGE (-10DB)	55 Hz - 20 kHz	52 Hz - 20 kHz	50 Hz - 20 kHz
NOMINAL COVERAGE		90° x 60°	
ANALOGUE IN		2 x combo, 2 x RCA	
ANALOGUE OUT		1 x XLR	
MEASURES W X H X D	308 x 493 x 289 mm	376 x 601 x 348 mm	455 x 700 x 378 mm
WEIGHT	10.5 kg	15.8 kg	19.3 kg
CABINET MATERIAL		plastic	
COLOUR		black	
MOUNTING & FLYING	2 x M8, 35mm pole socket	3 x M8, 35mm pole socket	3 x M8, 35mm pole socket

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 60

DHR SERIES

LIVE SOUND REINFORCEMENT SPEAKERS

POWERED LOUDSPEAKERS
DHR SERIES
DHR15 DHR12M DHR10



PERFORMANCE. OPTIMIZED.

The **DHR SERIES** is ideal solution for anyone ready to step up their sound reinforcement game to a new level of professional quality, accuracy, and performance. Premium plywood cabinets finished in a tough polyurea coating provide durability not found on other loudspeakers in this class. Each model has been optimized to meet the demands of a variety of sound reinforcement applications, with 10” models for fixed installation and utilities, 12” models designed for use as floor monitors, and 15” versions for FOH applications—all featuring customs transducers carefully selected. With DHR Series featuring custom transducers driven by DSP-equipped class-D power amplifiers to deliver stunning sound quality and clarity. Combined with practical features adapted for their specific applications, this series gives you the flexibility to choose the ideal speaker for a wide variety of sonic environments.

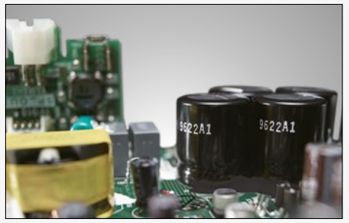
KEY FEATURES

- RUGGED, HIGHLY PORTABLE CABINETS
- OPTIMIZED FOR A RANGE OF AUDIO ENVIRONMENTS
- CUSTOM DESIGNED TRANSDUCERS
- EASY TO USE ONBOARD 2-CHANNEL MIXER
- D-CONTOUR
- BI-AMPED CLASS D POWER AMPLIFIERS

DETAILS



DHR SERIES REAR PANEL



HIGH-EFFICIENCY CLASS-D AMPLIFIERS



CUSTOM DESIGNED TRANSDUCERS



UB-DXRDHR10 U-BRACKET, SUPPORTS BOTH VERTIVAL AND HORIZONTAL MOUNTING OF DHR10 (OPTION, SEE PAGE 58)



DHR12M WEDGE SHAPE WITH COAXIAL DRIVER SUPPORTS FLOOR MONITORING APPLICATIONS



M10 RIGGING POINTS SUPPORT EYE BOLT SUSPENSION OF DHR10 AND DHR15

QUICK SPECIFICATIONS

	DHR10	DHR12M	DHR15
TRANSDUCERS	10” + 1.4”	12” + 1.75”	15” + 1.4”
POWER AMP	700 W	1000 W	1000 W
PEAK SPL	128 dB SPL	129 dB SPL	131 dB SPL
FREQUENCY RANGE (-10DB)	52 Hz - 20 kHz	55 Hz - 20 kHz	44 Hz - 20 kHz
NOMINAL COVERAGE	90° x 60° (rotatable)	90° x 90°	90° x 60°
ANALOGUE IN	2 x combo, 2 x RCA		
ANALOGUE OUT	1 x XLR		
MEASURES W X H X D	305 x 494 x 300 mm	500 x 343 x 454 mm	432 x 692 x 405 mm
WEIGHT	15 kg	16.5 kg	24 kg
CABINET MATERIAL	plywood, polyurea coating		
COLOUR	black		
MOUNTING & FLYING	3 x M10, 35 mm pole socket	35 mm pole socket	3 x M10, 35 mm pole socket

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 60

DXR MKII SERIES / DXS SERIES

HIGH DEFINITION SOUND REINFORCEMENT SPEAKERS AND SUBWOFERS



LOUDER, LIGHTER, LEGENDARY

DXR MKII SERIES powered loudspeakers offer superb high-definition sound and class-leading sound pressure levels – yet in a more compact and extremely functional design that provides a level of versatility unmatched by any speaker in its class today. Each DXR speaker provides two Class D digital amplifiers, one D-Contour multi-band compressor and comprehensive DSP-protections. In addition, all full range models feature Yamaha's proprietary FIR-X tuning™ utilizing linear phase FIR filters for the crossover network.

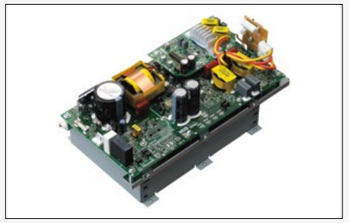
KEY FEATURES

- COMPACT AND LIGHTWEIGHT YET EXTREMELY LOUD
- 8", 10", 12" AND 15" CABINETS WITH MATCHING 12", 15" AND 18" SUBWOOFERS
- INTELLIGENT 3-CHANNEL-MIXER
- D-CONTOUR AND FIR-X TUNING
- BI-AMPED CLASS D POWER AMPLIFIERS
- BROAD RANGE OF OPTIONAL BRACKETS AND COVERS

DETAILS



DXR MKII REAR PANEL



HIGH-EFFICIENCY
CLASS-D AMPLIFIERS



DURABLE, COMPACT ABS ENCLOSURES



UB-DXR8V/10V/12V
VERTICAL U-BRACKET
UB-DZR10H/12H/15H
HORIZONTAL U-BRACKET
(OPTION, SEE PAGE 59)



SPCVR-1001/1201/1501
SPEAKER COVERS
SPCVR-DXS122/152/18S01
SUBWOOFER COVERS
(OPTION, SEE PAGE 59)



SPW-1 WHEEL KIT FOR DXS SERIES
(OPTION, SEE PAGE 59)

QUICK SPECIFICATIONS

	DXR8MKII	DXR10MKII	DXR12MKII	DXR15MKII	DXS12MKII	DXS15MKII	DXS18
TRANSDUCERS	8" + 1.75"	10" + 1.75"	12" + 1.75"	15" + 1.75"	12"	15"	18"
POWER AMP	1100 W	1100 W	1100 W	1100 W	1020 W	1020 W	1020 W
PEAK SPL	130 dB SPL	132 dB SPL	134 dB SPL	134 dB SPL	134 dB SPL	135 dB SPL	136 dB SPL
FREQUENCY RANGE (-10DB)	57 Hz - 20 kHz	56 Hz - 20 kHz	52 Hz - 20 kHz	49 Hz - 20 kHz	42 Hz - 150 Hz	40 Hz - 150 Hz	32 Hz - 120 Hz
NOMINAL COVERAGE	90° x 60°	90° x 60°	90° x 60°	90° x 60°	-	-	-
ANALOGUE IN	IN: 1 x XLR, 2 x PHONE, 2 x RCA	IN: 1 x XLR, 2 x PHONE, 2 x RCA	IN: 1 x XLR, 2 x PHONE, 2 x RCA	IN: 1 x XLR, 2 x PHONE, 2 x RCA	IN: 2 x XLR	IN: 2 x XLR	IN: 2 x XLR
ANALOGUE OUT	2 x XLR						
MEASURES W X H X D	280 x 458 x 280 mm	305 x 502 x 310 mm	362 x 601 x 350 mm	445 x 700 x 380 mm	400 x 567 x 570 mm	480 x 611 x 614 mm	563 x 683 x 721 mm
WEIGHT	12.8 kg	13.9 kg	18.6 kg	21.8 kg	30 kg	36 kg	49.7 kg
CABINET MATERIAL	ABS	ABS	ABS	ABS	meranti plywood	meranti plywood	meranti plywood
COLOUR	black						
MOUNTING & FLYING	3 x M8, 35 mm pole socket 7° + 0°	3 x M8, 35 mm pole socket 7° + 0°	3 x M10, 35 mm pole socket 7° + 0°	3 x M10, 35 mm pole socket 7° + 0°	pole socket (D=80 mm) + M20 threaded (D=25 mm)	pole socket (D=80 mm) + M20 threaded (D=25 mm)	pole socket (D=80 mm) + M20 threaded (D= 25mm)

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 60

POWERED LOUDSPEAKERS

DZR / DXS-XLF SERIES

HIGH POWER SOUND REINFORCEMENT SPEAKERS

POWERED LOUDSPEAKERS DZR SERIES
POWERED SUBWOOFERS DXS XLF SERIES
Dante™



DZR315(-D) & DXS18XLF(-D) | DZR15(-D) & DXS18XLF(-D) | DZR12(-D) & DXS15XLF(-D) | DZR10(-D) & DXS15XLF(-D)

POWER AND PERFORMANCE. INTEGRATED

DZR AND DXS-XLF SERIES is positioned at the highest level of Yamaha professional live SR powered loudspeakers and Yamaha's first fully integrated & digitally connected and smart/editable Speaker Range for Professional Live Sound Productions – in particular considering the Dante versions. Based on Yamaha's long professional audio experiences with digital processing technologies, amplifier designing and speaker development know-how, ultimate power is now available as 10", 12" and 15" 2-way enclosure and 15", 8" and 2" 3-way enclosure, matched by two new 'eXtended Low Frequency' subwoofers for a natural, balanced yet extremely powerful and clear sound. Truly musical bass sound reproduction, truly professional sound clarity and best-in-class sound pressure level guarantee a perfect performance for any music genre.

KEY FEATURES

- **96KHZ HIGH PERFORMANCE DSP WITH 48KHZ SAMPLE RATE CONVERTOR FOR TRULY HIGH-DEFINITION SOUND WITH SUPER LOW LATENCY**
- **ADVANCED FIR-X TUNING, THE COMBINATION OF FIR FILTERING AND EQ**
- **D-CONTOUR AND HIGHLY RELIABLE PROTECTION**
- **DANTE MODELS LISTED FOR SOPHISTICATED INTEGRATION WITH DIGITAL CONSOLES AND THE PROVISIONAIRE SOFTWARE SUITE**
- **HIGH POWER 2000 W CLASS-D AMPLIFIERS**
- **DURABLE PLYWOOD CABINET WITH POLYUREA COATING**



DETAILS



DZR (D) REAR PANELS



DXS-XLF (D) REAR PANELS



2000W CLASS D POWERMODULE



UB-DZR10V/12V/15V VERTICAL U-BRACKET
UB-DZR10H/12H/15H HORIZONTAL U-BRACKET
(OPTION, SEE PAGE 58)



SPCVR-DZR10/12/15/325 SPEAKER COVERS
SPCVR-DXS15X/18X SUBWOOFER COVERS
(OPTION, SEE PAGE 59)



SPW-1 WHEEL KIT FOR DXS XLF SERIES
(OPTION, SEE PAGE 59)

QUICK SPECIFICATIONS

	DZR10(D)	DZR12(D)	DZR15(D)	DZR315(D)	DXS-15XLF(D)	DXS18-XLF(D)
TRANSDUCERS	10" + 2"	12" + 2"	15" + 2"	15"+ 8"+ 2"	15"	18"
POWER AMP	2000 W	2000 W	2000 W	2000 W	1600 W	1600 W
PEAK SPL	137 dB SPL	139 dB SPL	139 dB SPL	143 dB SPL	136 dB SPL	136 dB SPL
FREQUENCY RANGE (-10DB)	44 Hz - 20 kHz	39 Hz - 20 kHz	34 Hz - 20 kHz	31 Hz - 20 kHz	33 Hz - 150 Hz	30 Hz - 150 Hz
NOMINAL COVERAGE	90° x 60° (rotatable)	90° x 60° (rotatable)	90° x 50°, (rotatable)	75° x 50°	-	-
ANALOGUE I/O	IN: 2 x COMBO, OUT: 2 x XLR					
NETWORKED INPUTS (D MODELS)	Dante: Ethercon x 2					
MEASURES W X H X D	315 x 537 x 345 mm	410 x 646 x 394 mm	450 x 761 x 460 mm	550 x 897 x 520 mm	450 x 587 x 600 mm	550 x 657 x 720 mm
WEIGHT	17.9 kg	21.4 kg	25.2 kg	41.6 kg	40 kg	48.9 kg
CABINET MATERIAL	Polyurea coated plywood					
COLOUR	black, white					
MOUNTING & FLYING	M10 x 8, M8 x2, 35mm pole socket	M10 x 12, 35 mm pole socket	M10 x 12, 35mm pole socket	M10 x 16, 35mm pole socket	35 mm pole socket, M20 thread	35 mm pole socket, M20 thread

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 60

POWERED LOUDSPEAKERS

DXL1K

POWERED COLUMN-TYPE LOUDSPEAKER

PORTABLE POWERHOUSE

The **DXL1K** is a column-type powered speaker with a powerful 125dB SPL peak@1m sound output that belies its extremely portable slim body. The combination of an easy setup procedure that only requires the line-array speaker to be attached to the top of the subwoofer cabinet, with the system expandability offered by the Link function, allows the DXL1K to be used in combination with a compact mixer or with the fully compatible STAGEPAS 1K mkII, creating a simple, compact, and high-quality PA system.

KEY FEATURES

- J-CURVE SLIM LINE ARRAY (10X 1.5“)
- CLASS LEADING 12” SUBWOOFER
- HIGH EFFICIENCY 1100W CLASS-D AMP
- ONBOARD 2-CHANNEL MIXER
- LINK I/O FOR EASY SYSTEM EXPANSION
- DEDICATED COVER INCLUDED
- OPTIONAL DOLLYBOARD (DL-SP1K)



DETAILS



DXL1K TOP VIEW



STEREO EXPANSION WITH STAGEPAS1KMK2



DEDICATED COVER WITH STORAGE FOR HF UNIT (INCLUDED)



12“ SUBWOOFER



EASY SETUP



SOPHISTICATED AMP & DSP

QUICK SPECIFICATIONS

	DXL1K
TRANSDUCERS	HF: 10x 1.5” (3.8 cm), LF: 1x 12” (30 cm)
POWER AMP	1100 W
PEAK SPL	125 dB SPL
FREQUENCY RANGE (-10DB)	37 – 20 kHz
NOMINAL COVERAGE	H170° x V30°
ANALOGUE IN	2x Combo-In (1x Mic/Line, 1x Line), 1x LINK IN (XLR)
ANALOGUE OUT	1x LINK OUT (XLR)
MEASURES W X H X D	System: 334 x 2000 x 418 mm (max.)
WEIGHT	23 kg
CABINET MATERIAL	plastic
COLOUR	black, polyurea coating
OPTIONAL ACCESSORIES	DL-SP1K (dedicated dolly)

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 64

MS & MSP SERIES

PERSONAL MONITORS



MS101-4



MSP3A

COMPACT MONITOR SPEAKERS FOR LIVE AND STUDIO

The **MSP3A** reference monitor is designed to be the ideal choice for small studios and post-production setups, while the **MS101-4** is the ideal tool for personal monitoring in live environments. Featuring XLR and jack inputs and front panel controls for equalizing and level, the monitors can be applied on the spot as a shelf speaker, or mounted close to the mixing console using the optional free angle clamp and mic stand adaptors. For installations, ceiling and wall mount brackets are available.

KEY FEATURES

- PRECISION, FATIGUE-FREE MONITORING SPEAKERS
- HIGH-PERFORMANCE POWER AMPLIFIER BUILT IN
- FRONT PANEL CONTROLS
- COMPACT CABINET SIZE
- LIGHT WEIGHT
- WALL, CEILING, CLAMP AND MIC STAND MOUNTING OPTIONS

DETAILS



BCS20-150/210 CEILING BRACKET
(OPTION, SEE PAGE 58)



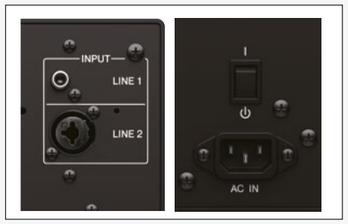
BWS20-120/190 WALL BRACKET
(OPTION, SEE PAGE 58)



BAS10 FREE-ANGLE CLAMP
(OPTION, SEE PAGE 58)



BMS-10A MIC STAND ADAPTOR
(OPTION, SEE PAGE 58)



MSP3A REAR PANEL



MS101-4 REAR PANEL

QUICK SPECIFICATIONS

	MSP3A	MS101-4
TRANSDUCERS	4” + 0.8”	4” + 1”
POWER AMP	22 W	20 W
PEAK SPL	99 dB SPL	115 db spl
FREQUENCY RANGE (-10DB)	67 Hz - 22 kHz	77 hz - 20 khz
ANALOGUE IN	1 x combo, 1 x RCA	1 x combo, 1 x stereo mini, 1 x rca
MEASURES W X H X D	144 x 236 x 166 mm	142 x 196 x 187 mm
WEIGHT	3.6 kg	2.1 kg
CABINET MATERIAL	plastic	plastic (combine cells)
COLOUR	black	black (combine cells)
RIGGING	2 x M5 (D=15mm)	2 x m5 (d=15mm) (combine cells)

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 64

HS SERIES

STUDIO MONITOR SPEAKERS



TIME FOR A REALITY CHECK

When choosing reference monitors for mixing and music production, accuracy is the prime consideration. Speakers that sound “good“ on first impression may not necessarily be accurate. The **HS SERIES** monitors provide an honest reference for your mix, rather than monitors that have been tweaked or coloured to deceptively sound impressive.

Ever since the 1970’s the iconic white woofer and signature sound of Yamaha’s nearfield reference monitors have become a genuine industry standard for a reason - their accuracy. Unlike studio monitors with added bass or treble frequencies which may sound more flattering at first, HS Series speakers were designed to give you the most honest, precise reference possible, providing an ideal sonic platform to build on throughout the mixing process. By combining acquired knowledge and expertise with state-of-the-art sound technologies, Yamaha’s speaker engineering team have examined, then optimized, every aspect that has contributed to making these monitors the most trusted in the business, bringing exceptional monitoring accuracy to any recording environment.

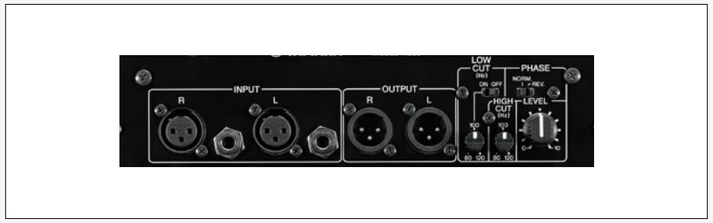
KEY FEATURES

- HIGH PRECISION REFERENCE NEARFIELD STUDIO MONITORS
- BI-AMPED BASS REFLEX MDF ENCLOSURE IN BLACK AND WHITE COLOUR
- ROOM CONTROL AND HIGH TRIM RESPONSE SWITCHES
- XLR AND PHONE JACK INPUTS
- MATCHED PAIR SETS AVAILABLE FOR PERFECT STEREO IMAGE
- SHELFTOP AND INSTALLATION VERSIONS

DETAILS



HS5/7/8 REAR PANEL



HS8S REAR PANEL



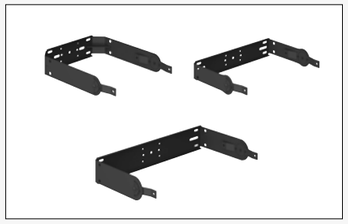
HS INSTALLATION VERSION MOUNT OPTIONS

QUICK SPECIFICATIONS

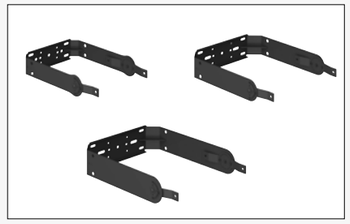
	HS5 (I)	HS7 (I)	HS8 (I)	HS8S
TRANSDUCERS	5” + 1”	6.5” + 1”	8” + 1”	8”
POWER AMP	70 W	95 W	120 W	150 W
FREQUENCY RANGE (-10DB)	54 Hz - 30 kHz	43 Hz - 30 kHz	38 Hz - 30 kHz	22 Hz - 160 Hz
ANALOGUE IN	1 x XLR, 1 x phone	1 x XLR, 1 x phone	1 x XLR, 1 x phone	2 x XLR
ANALOGUE OUT	-	-	-	2 x XLR
MEASURES W X H X D	170 x 285 x 222 mm	210 x 332 x 284 mm	250 x 390 x 334 mm	300 x 350 x 389 mm
WEIGHT	5.3 kg (5.5 kg)	8.2 kg (8.7 kg)	10.2 kg (10.7 kg)	12.5 kg
CABINET MATERIAL	MDF			
COLOUR	black, white	black, white	black, white	black
RIGGING (I VERSION)	4 sides x 2 x M5	4 sides x 2 x M5	4 sides x 2 x M5	-

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 64

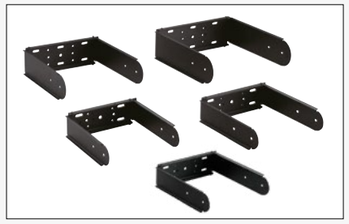
SPEAKER BRACKETS FOR ACTIVE SPEAKERS



UB-DZR10H / UB-DZR12H / UB-DZR15H
HOPRIZONTAL U-BRACKETS FOR
DZR AND CZR SERIS



UB-DZR10V / UB-DZR12V / UB-DZR15V
VERTICAL U-BRACKETS FOR
DZR AND CZR SERIS



UB-DXR8 / UB-DXRDHR10 / UB-DXR12 /
UB-DXR15 HORIZONTAL / VERTICAL
U-BRACKETS FOR DXR SERIES



BBS251 BATON BRACKET
MAX LOAD: 30 KG



BCS251 CEILING BRACKET
MAX LOAD: 30 KG



BWS251-300/400
WALL BRACKETS
MAX LOAD: 30 KG



BWS50-190/260
WALL BRACKETS
MAX LOAD: 20 KG



BCS20-150/210
CEILING BRACKETS
MAX LOAD: 10 KG



BWS20-120/190
WALL BRACKETS
MAX LOAD: 7 KG



BMS10A
MIC STAND ADAPTOR
MAX LOAD: 5 KG



BAS-10
FREE ANGLE CLAMP
MAX LOAD: 4 KG

BRACKET COMPATIBILITY

	UB-DXR8	UB-DXR DHR 10	UB-DXR12	UB-DXR15	UB-DZR10H	UB-DZR12H	UB-DZR15H	UB-DZR10V	UB-DZR12V	UB-DZR15V	BBS 251	BCS 251	BWS251 -300 -400	BWS50 (190, 260)	BCS20 (150, 210)	BWS20 (120, 190)	BMS 10A	BAS-10
DBR10											✗	✗	✗					
DBR 12											✗	✗	✗					
DBR 15											✗	✗	✗					
DHR10		✗																
DXR8MKII	✗																	
DXR10MKII		✗																
DXR12MKII			✗															
DXR15MKII				✗														
DZR 10					✗			✗										
DZR 12						✗			✗									
DZR 15							✗			✗								
MSP3A															✗	✗	✗	✗
MS101-IV															✗	✗	✗	✗
HS5-I															✗	✗		
HS7-I											✗	✗	✗	✗				
HS8-I											✗	✗	✗	✗				

SPEAKER COVERS FOR ACTIVE SPEAKERS



SPVCR-DZR10



SPVCR-DZR12



SPVCR-DZR15



SPW-1



SPVCR-DXS15XLF



SPVCR-DXS18XLF



SPVCR-0801



SPVCR-1001



SPVCR-1201



SPVCR-1501



SPVCR-DXS152



SPVCR-DXS122



SPVCR-DXS122

COVER COMPATIBILITY

	SPVCR-			SPCVR-									
	DZR10	DZR12	DZR15	DXR315	DXS122	DXS152	DXS18	DXS15X	DXS18X	0801	1001	1201	1501	SPW-1
DBR10											✗			
DBR12												✗		
DBR15													✗	
DXR8MKII										✗				
DXR10MKII											✗			
DXR12MKII												✗		
DXR15MKII													✗	
DXS12MKII					✗								✗	✗
DXS15MKII						✗							✗	✗
DXS18							0						✗	✗
DZR10(D)	✗													
DZR12(D)		✗												
DZR15(D)			✗											
DZR315(D)				✗										
CXS15XLF								0						✗
CXS18XLF									0					✗

YAMAHA

POWERED SR SPEAKER SPECIFICATIONS

GENERAL & ELECTRO-ACOUSTIC PARAMETERS

			DBR SERIES			DHR SERIES			DXR MKII SERIES			
			DBR10	DBR12	DBR15	DHR10	DHR12M	DHR15	DXR8 MKII	DXR10 MKII	DXR12 MKII	DXR15 MKII
SYSTEM		TYPE	bi-amped			bi-amped			bi-amped			
		HF	compression driver			compression driver			compression driver			
		LF	bass-reflex			bass-reflex			bass-reflex			
PEAK SPL			129 dB SPL	131 dB SPL	132 dB SPL	128 dB SPL	129 dB SPL	131 dB SPL	130 dB SPL	132 dB SPL	134 dB SPL	
FREQUENCY RANGE			55 Hz - 20 kHz	52 Hz - 20 kHz	50 Hz - 20 kHz	52 Hz - 20 kHz	55 Hz - 20 kHz	44 Hz - 20 kHz	57 Hz - 20 kHz	56 Hz - 20 kHz	52 Hz - 20 kHz	49 Hz - 20 kHz
CROSSOVER	PASSIVE	MF/HF	-			-			-			
	ACTIVE	LF/HF	2.1 kHz			1.9 kHz	1.8 kHz	1.8 kHz	2.4 kHz	2.3 kHz	2.1 kHz	2.1 kHz
COVERAGE ANGLE		DEGREES HORIZONTAL	90°			90°			90°			
		DEGREES VERTICAL	60°			60°			60°			
		ROTATABLE	-			yes	-	-	-			
TRANSDUCERS	LF	CONE DIAMETER	10”	12”	15”	10”	12”	15”	8”	10”	12”	15”
		VOICE COIL DIAMETER	2”	2”	2.5”	2”	2.5”	2.5”	2”	2”	2.5”	2.5”
		MAGNET MATERIAL	Ferrite			Ferrite			Ferrite			
	MF	CONE DIAMETER	-			-			-			
		VOICE COIL DIAMETER	-			-			-			
		MAGNET MATERIAL	-			-			-			
	HF	VOICE COIL DIAMETER	1”	1.4”		1.4”	1.75”	1.4”	1.75”			
		THROAT DIAMETER	1”			1”			1”			
		DIAPHRAGM MATERIAL	PET			PET			PET			
		MAGNET MATERIAL	Ferrite			Ferrite			Neodymium			
DIMENSIONS (MM)		W	308 mm	376 mm	455 mm	305 mm	500 mm	432 mm	280 mm	305 mm	362 mm	445 mm
		H	493 mm	601 mm	700 mm	494 mm	343 mm	692 mm	458 mm	502 mm	601 mm	700 mm
		D	289 mm	348 mm	378 mm	300 mm	454 mm	405 mm	280 mm	310 mm	350 mm	380 mm
WEIGHT (KG)			10.5 kg	15.8 kg	19.3 kg	15 kg	16.5 kg	24 kg	12.8 kg	13.9 kg	18.6 kg	21.8 kg
ENCLOSURE MATERIALS		MATERIAL	plastic			plywood			ABS			
		FINISH	-			polyurea coating			matte			
		COLOUR	black			black			black			
		IP RATING	-			-			-			
POLE SOCKET		35MM 0 DEGREES	1			1			1			
		35MM 7 DEGREES	-			-		1	1			
		M20 THREADED	-			-			-			
RIGGING POINTS		M8	2	3	3	-			3	3	-	-
		M10	-			3	-	3	-	-	3	3
HANDLES		TOP	1	-		1	-	-	1	1	–	–
		SIDE	-	2	2	-	1	2	–	–	2	2
FLOOR MONITOR ANGLE			50°	50° symmetrical		-	57°	-	-	50°	50° symmetrical	

	DXS SERIES			DZR / DXS-XLF SERIES						
	DXS12MKII	DXS15MKII	DXS18	DZR10	DZR12	DZR15	DZR315	DXS15XLF	DXS18XLF	DXL1K
SYSTEM	subwoofer			bi-amped				subwoofer		Powered sub-woofer with line array speaker
	-			compression driver				-		compression driver
	band-pass			bass-reflex				bass-reflex		bass-reflex
PEAK SPL	134 dB SPL	135 dB SPL	136 dB SPL	137 dB SPL	139 dB SPL	139 dB SPL	143 dB SPL	136 dB SPL		125 dB
FREQUENCY RANGE	42 Hz - 150 Hz	40 Hz - 150 Hz	32 Hz - 120 Hz	44 Hz - 20 kHz	39 Hz - 20 kHz	34 Hz - 20 kHz	31 Hz - 20 kHz	33 Hz - 150 Hz	30 Hz - 150 Hz	37 Hz - 20 kHz
CROSSOVER	-			-	-	-	2.5kHz	-		-
	-			1.8 kHz	1.8 kHz	1.7 kHz	700 Hz	-		240 Hz
COVERAGE ANGLE	-			90°	90°	90°	75°	-		170°
	-			60°	60°	60°	50°	-		30°
	-			Yes	Yes	Yes	–	-		-
TRANSDUCERS	12”	15”	18”	10”	12”	15”	15”	15”	18”	12°
	2.5”	2.5”	4”	3”				4”		-
	Ferrite			Neodymium				Ferrite		Ferrite
	-			-	-	-	8”	-		-
	-			-	-	-	1.5”	-		-
	-			-	-	-	Ferrite	-		-
	-			2”				-		1.5” (x10)
	-			1”				-		-
	-			Titanium				-		Plastic
	-			Neodymium				-		Ferrite
DIMENSIONS (MM)	400 mm	480 mm	563 mm	315 mm	410 mm	450 mm	550 mm	450 mm	550 mm	334 mm
	567 mm	611 mm	683 mm	537 mm	646 mm	761 mm	897 mm	587 mm	657 mm	2000 mm
	570 mm	614 mm	721 mm	345 mm	395 mm	460 mm	520 mm	600 mm	720 mm	418 mm
WEIGHT (KG)	30 kg	36 kg	49.7 kg	17.9 kg	21.4 kg	25.2 kg	41.6 kg	40 kg	48.9 kg	23 kg
ENCLOSURE MATERIALS	meranti plywood			plywood				plywood		ABS
	polyurea			polyurea				polyurea		polyurea coating/ matte
	black			B/W				B/W		black
	-			-				-		-
POLE SOCKET	1 (d=80 mm)			1	1	1	-	1 (d=80 mm)		not applicable
	-			1	1	1	-	-		not applicable
	1 (d=25 mm)			-				1 (d=25 mm)		-
RIGGING POINTS	-			2	-	-	-	-		-
	-			8	12	12	16	-		
HANDLES	-			1	-	-	-	-		
	2			1	2	2	2	2		
FLOOR MONITOR ANGLE	-			50°	50° symmetrical		-	-		not applicable

FOR AMPLIFIER & DSP SPECIFICATIONS SEE NEXT PAGE

POWERED LOUDSPEAKERS

YAMAHA

POWERED SR SPEAKER SPECIFICATIONS

AMPLIFIER & DSP PARAMETERS

			DBR SERIES			DHR SERIES			DXR MKII SERIES			
			DBR10	DBR12	DBR15	DHR12	DHR12	DHR10	DXR8 MKII	DXR10 MKII	DXR12 MKII	DXR15 MKII
AMPLIFIER TYPE			Class-D			Class-D			Class-D			
POWER RATING	DYNAMIC	TOTAL	700 W			700 W	1000 W	1000 W	1100 W			
		LF	500 W			500 W	800 W	800 W	950 W			
		MF/HF	200 W			200 W	200 W	200 W	150 W			
	BURST	TOTAL	-			-			-			
		LF	-			-			-			
		MF/HF	-			-			-			
	CONTINUOUS	TOTAL	325 W			325 W	465 W	465 W	700 W			
		LF	260 W			260 W	400 W	400 W	600 W			
		MF/HF	65 W			65 W	65 W	65 W	100 W			
DSP	HARDWARE	SAMPLE FREQUENCY	48 kHz			48 kHz			48 KHZ			
		SRC	-			-			-			
	FUNCTIONS	CROSSOVER	FIR-X			-			FIR-X			
		MULTI-BAND COMPRESSOR	D-CONTOUR			D-CONTOUR			D-CONTOUR			
		EQ	FOH/MAIN, MONITOR			FOH/MAIN, MONITOR			FOH/MAIN, MONITOR			
I/O	AD/DA	SAMPLE FREQUENCY	48 kHz			48 kHz			48 KHZ			
		IN LEVEL	+24 dBu			+24 dBu (MIC:58:61-8 dBu)			+24 DBU			
	DANTE (D MODELS ONLY)	SAMPLE FREQUENCY	-			-			-			
		I/O CHANNELS	-			-			-			
CONNECTORS	ANALOGUE	IN CONNCETOR COMBO	2			2			-			
		IN CONNECTOR XLR	-			-			1			
		IN CONNECTOR PHONE	-			-			2			
		IN CONNECTOR RCA	2			2			2			
		OUT CONNEC-TOR XLR	1			1			2			
	DANTE & CONTROL (D MODEL ONLY)	PRIMARY ETHERCON CAT5E	-			-			-			
		SECONDARY ETHERCON CAT5E	-			-			-			
	CONTROL	USB 2.0	-			-			-			
	AC	EIC V-LOCK	1			1			1			
POWER CONSUMPTION		VOLTAGE REQUIREMENTS	Depending on area of purchase; 100-240 V or 220-240 V, 50/60Hz			Depending on area of purchase; 100-240 V or 220-240 V, 50/60Hz			Depending on area of purchase; 100-240 V or 220-240 V, 50/60 Hz			
		IDLE	18 W			18 W			35 W			
		1/8 POWER	60 W	74 W		60 W	74 W	74 W	110 W			
		FAN, VARIABLE SPEED	yes			yes			-			

	DXS SERIES			DZR / DXS-XLF SERIES						
	DXS12 MKII	DXS15 MKII	DXS18	DZR10	DZR12	DZR15	DZR315	DXS15XLF	DXS18XLF	DXL1K
AMPLIFIER TYPE	Class-D			Class-D				Class-D		Class-D
POWER RATING	1020 W			2000 W				1600 W		1100 W
	-			1000 W				-		500 W
	-			1000 W				-		600 W
	-			1100 W				1300 W		-
	-			1000 W				-		-
	-			100 W				-		-
	800 W			950 W				1200 W		-
	-			850 W				-		-
	-			100 W				-		-
DSP	48 KHz			96 KHz				96 KHz		48 KHz
	-			yes				yes		
	-			FIR-X				FIR-X		
	D-XSUB			D-CONTOUR				D-XSUB		
	BOOST, XTD LF, NORMAL			FOH/MAIN, MONITOR				BOOST, XTD LF, NORMAL		MODE (1-KNOB)
I/O	48 KHz			96 kHz				96 kHz		48 KHz
	+24 DBU			+24 dBu				+24 dBu		+24 dBu
	-			44.1 - 96 kHz				44.1 - 96 kHz		-
	-			2/2				2/2		-
CONNECTORS	-			2				2		2
	2			-				-		1
	-			-				-		-
	-			-				-		-
	2			2				2		1
	-			1				1		-
	-			1				1		-
	-			1				1		-
	1			1				1		1
POWER CONSUMPTION	Depending on area of purchase; 100-240 V or 220-240 V, 50/60 Hz			Depending on area of purchase; 100-240 V or 220-240 V, 50/60 Hz				Depending on area of purchase; 100-240 V or 220-240 V, 50/60 Hz		Depending on area of purchase; 100-240 V or 220-240 V, 50/60Hz
	35 W			45 W				40 W		25 W
	100 W			150 W				180 W		91 W
	yes			yes				yes		yes

FOR LOUDSPEAKER SPECIFICATIONS SEE PREVIOUS PAGE



POWERED LOUDSPEAKERS

POWERED MONITOR SPEAKER SPECIFICATIONS

			PERSONAL MONITORS	
			MSP3A	MS101-4
SYSTEM		TYPE	full range	
		HF	soft dome	-
		LF	bass-reflex	
PEAK SPL			99 dB SPL	115 dB SPL
FREQUENCY RANGE			67 Hz - 22 kHz	77 Hz - 20 kHz
CROSSOVER	**PASSIVE**	MF/HF	4 kHz	-
	ACTIVE	LF/HF	-	
TRANSDUCERS	**LF**	CONE DIAMETER	4”	
	HF	VOICE COIL DIAMETER	0.8”	
CABINET MATERIAL			plastic	
COLOUR			black	
DIMENSIONS (MM)		W	144 mm	142 mm
		H	236 mm	196 mm
		D	166 mm	187 mm
WEIGHT (KG)			3.6 kg	2.1 kg
RIGGING POINTS		M5	2 (D = 15 mm)	2 (D = 11 mm)
		M8	-	-
AMPLIFIER			class D	
POWER RATING	**DYNAMIC**	TOTAL	22 W	30 W
		LF	-	
		MF/HF	-	
CONNECTORS	**ANALOGUE**	IN CONNCETOR COMBO	1	
		IN CONNECTOR XLR	-	
		IN CONNECTOR PHONE	-	1 stereo mini
		IN CONNECTOR RCA	1	
		OUT CONNECTOR XLR	-	
	POWER	AC	IEC power cable	
CONTROLS		LEVEL ROTARY	2 x line in	1 x volume
		EQ ROTARY	low +/- 3dB@100Hz + high +/-3 dB @ 10kHz	low +/- 10dB + high + /-10 dB
		LOW CUT SWITCH	-	5.5 kg
		ROOM CONTROL SWITCH	-	
		HIGH TRIM SWITCH	-	
		PHASE SWITCH	-	
POWER		VOLTAGE REQUIREMENTS	Depending on area of purchase; 100-240 V or 220-240 V, 50/60Hz	
		POWER CONSUMPTION @ 1/8 POWER	22 W	10 W

HS SERIES			
HS5(I)	HS7(I)	HS8(I)	HS8S
bi-amped			subwoofer
soft dome			-
bass-reflex			bass-reflex
-			–
54 Hz - 30 kHz	43 Hz - 30 kHz	38 Hz - 30 kHz	22 Hz - 160 Hz
-			-
2 kHz			-
5”	6.5”	8”	8 “
1”			-
MDF			MDF
black, white			black
170 mm	210 mm	250 mm	300 mm
285 mm	332 mm	390 mm	350 mm
222 mm	284 mm	334 mm	389 mm
class5.3 kg (5.5 kg)	8.2 kg (8.7 kg)	10.2 kg (10.7 kg)	12.5 kg
-	(4 sides x 2)		-
(4 sides x 2)	-		-
70 W	95 W	120 W	150 W
45 W	60 W	75 W	-
25 W	35 W	45 W	-
-			-
1			2
1			2
-			-
-			2
IEC			IEC
1 x line in			1 x line in
-			low 80 Hz - 120 Hz + high 80 Hz - 10kHz
-			low cut (on/off)
500 Hz 0 / -2 / -4 dB			-
2 kHz +2 / -2 dB			-
-			norm / rev
Depending on area of purchase; 100-240 V or 220-240 V, 50/60 Hz			
45 W	55 W	60 W	70 W



POWERED LOUDSPEAKERS

PORTABLE PA SYSTEMS

PORTABLE PAS ARE A GREAT WAY TO TURN ANY INDOOR OR OUTDOOR SPACE INTO AN IMPROMPTU VENUE FOR LIVE PERFORMANCES, PRESENTATIONS, CORPORATE MEETINGS OR OTHER EVENTS WHERE YOU NEED TO BE HEARD.

With **STAGEPAS SYSTEMS**, Yamaha's long heritage of speaker, mixer and amplifier design are brought together with the most up to date audio technology. They provide an all-in-one portable PA with loudspeakers, a powered mixer and enough inputs to handle a live band. They are easy to transport, fast to set up, simple to use and deliver clear, powerful sound for a wide range of potential uses.

The **STAGEPAS 1KMK2** again takes the portable PA format to a new level, combining a J-curve, high frequency array with a 12" subwoofer to deliver clear, consistent sound over both longer and wider distances. The slimline speakers also enhance audience sightlines, while the systems simple control, is enhanced by STAGEPAS EDITOR, a dedicated remote control application for iOS and Android devices.

STAGEPAS 400BT and **600BT** can be set up in a variety of PA or monitor combinations and combine powered mixers with a voice coil compression driver and low frequency woofer. The **STAGEPAS 200** is a premium portable PA system that performs well above its weight class and come either battery powered or mains operated, giving you the full flexibility from street performances, to events, parties, and speeches.

The **STAGEPAS 100** portable PA system strikes a further perfect balance between high quality sound and ultimate portability that will allow you to turn virtually any location into your own intimate live stage.

Lightweight yet durable design, effortless operation, and astonishing sound of all STAGEPAS Systems are the ticket to making all the world your stage.



STAGEPAS 100/100BTR



STAGEPAS 200/200BTR



STAGEPAS 400/600BT



STAGEPAS 1K MK2



EMX 5/7

SOFTWARE

PORTABLE PA SYSTEMS

STAGEPAS 100/100 BTR

ULTRA-PORTABLE PA SYSTEM



EXPAND YOUR RANGE. EXTEND YOUR REACH.

The **STAGEPAS 100** portable PA system strikes a perfect balance between high quality sound and ultimate portability. A choice of two models are available; battery and non battery. Both deliver impressive sonic performance by leveraging some of the same technologies used in our high end professional products. A powerful, high quality coaxial compression driver combined with Yamaha's FIR X filters delivers high SPL, precise phase response, and a natural dispersion that will ensure every nuance of your performance is conveyed loud and clear to your audience.

With all the essentials for a compact PA packed into a durable cabinet weighing just 5 kg, the **STAGEPAS 100** takes portability to a whole new level. Having a personal live stage you can easily carry in one hand makes it possible to set up and play literally anywhere, any time.



KEY FEATURES

- HIGHLY EFFICIENT 100W CLASS D AMPLIFIER
- FIR-X TUNED COAXIAL DRIVER (6.5" LF + 1.4" HF)
- 3-CH MIXER, EASY FRONT PANEL CONTROLS
- MULTIPOINT BLUETOOTH AUDIO STREAMING
- LI-ION BATTERY WITH UP TO 6 HRS PERFORMANCE (BTR VERSION ONLY)
- OPTIONAL CARRYING BAG AVAILABLE

DETAILS & ACCESSORIES



FRONT VIEW: CONTROLS



REAR VIEW: CONNECTIONS



BOTTOM VIEW: HANDLE/FOOT



STAGEPAS 100/100BTR



MIC STAND MOUNTED



BAG STP100 PACKED

QUICK SPECIFICATIONS

	STAGEPAS 100	STAGEPAS 100BTR
MIXING CHANNELS	3 (2 mono + 1 stereo)	
MAX. OUTPUT POWER	100W	
MAX. SPL	120 dB SPL	
EQUALIZER	2-band, front panel controls	
SPEAKER UNIT	1.4" HF + 6.5" LF coaxial compression driver	
EFFECTS AND PROCESSING	FIR-X tuning (Crossover at 1800 Hz)	
BLUETOOTH INPUT	Bluetooth Ver.5.0, A2DP (SBC, AAC)	
OUTPUT	XLR3-32 (Input 1-3 Mix)	
OPTIONAL ACCESSORIES	Carrying Bag BAG-STP100	
DIMENSIONS (W/H/D)	239x310x215 mm, 5 kg	239x310x215 mm, 5.5 kg
POWER	24V DC power adaptor	24V DC power adaptor, Lithium-Ion battery

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 81

PORTABLE PA SYSTEMS

STAGEPAS 200/200 BTR

PORTABLE PA SYSTEM



MOVE THE AIR, MOVE YOUR AUDIENCE.

With power, sound and mixing capability far beyond what you would expect from its minimalist design, the **STAGEPAS 200** is a premium portable PA system that performs well above its weight class. It comes in two models, either battery or mains powered (with a battery option), providing the flexibility to perform in virtually any environment, from street performances to events, parties, and speeches. Featuring a high-quality coaxial transducer design, the **STAGEPAS 200** is capable of delivering best-in-class sound pressure, precise phase response, and a very natural dispersion of high frequencies. Adopting some of the same expertise used in Yamaha's high-end Professional Audio gear, this mighty yet minimalistic powerhouse will stun your audience with the full dynamic range and response of any performance.

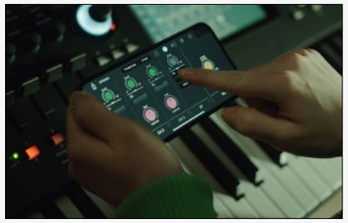
KEY FEATURES

- HIGH EFFICIENCY 180W CLASS-D AMPLIFIER
- COAXIAL COMPRESSION DRIVER (8" LF + 1.4" HF)
- STAGEPAS CONTROLLER APP FOR FULL PARAMETER CONTROL
- BLUETOOTH AUDIO STREAMING AND REMOTE CONTROL
- LI-ION BATTERY PACK FOR 10HRS PERFORMANCE (OPTIONAL FOR STAGEPAS 200)
- OPTIONAL CARRY CASE WITH CASTERS AND TELESCOPE HANDLE

DETAILS



STAGEPAS 200/200BTR FRONT



STAGEPAS CONTROLLER APP



STAGEPAS 200 MIXER



STAGEPAS 200 W/ RUBBER FEET



BTR-STP200 BATTERY



CASE-STP200 (OPTIONAL)

QUICK SPECIFICATIONS

	STAGEPAS 200/200BTR
MIXING CHANNELS	5 (3 mono + 1 stereo)
MAX. OUTPUT POWER	180W
MAX. SPL	125 dB SPL
EQUALIZER	1-knob EQ, 4-band PEQ via Controller app
SPEAKER UNIT	1.4" HF + 8" LF coaxial compression driver
EFFECTS AND PROCESSING	SPX digital reverb (4 program, parameter control), Priority ducker, Feedback suppressor
OUTPUT PROCESSOR	1-knob-MODE (SPEECH, MUSIC, CLUB)
BLUETOOTH INPUTS	Bluetooth Ver.5.0, A2DP (SBC, AAC)
NOMINAL COVERAGE	H90° x V90°
OPTIONAL ACCESSORIES	BTR-STP200 battery (incl. with Stagepas 200BTR), CASE-STP200 carry case
DIMENSIONS (W/H/D)	System: 300 x 308 x 301 mm, 12 kg

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 81

PORTABLE PA SYSTEMS

STAGEPAS 400/600 BT

PORTABLE PA SYSTEM



ALL THE WORLD'S YOUR STAGE.

The **STAGEPAS SERIES** portable PA system is essential for superb PA sound and performance providing in comprehensive packages that feature ideally matched mixer, power amplification, and speakers. The **STAGEPAS 400/600BT** feature two sleek, lightweight speakers and a detachable powered mixer, along with one pair of speaker cables and a power cord, giving you a complete, extremely portable soudn solution that can be set up quickly and easily in a variety of configurations and environments. The latest models feature Bluetooth wireless audio streaming, SPX digital reverb, 1-knob master EQ and feedback suppressor.

KEY FEATURES

- **CHANNEL-EQ AND 1-KNOB MASTER EQ**
- **SPX DIGITAL REVERB**
- **BLUETOOTH WIRELESS AUDIO STREAMING**
- **FEEDBACK SUPPRESSOR**
- **FAST AND EASY SETUP**
- **MONITOR AND SUBWOOFER OUTS**

DETAILS



STAGEPAS 600BT MIXER



STAGEPAS 600BT REAR



BLUETOOTH FEATURE



STAGEPAS400BT MIXER UNIT



BMS10A MIC-STAND ADAPTOR (OPTION)



SETUP EXAMPLE

QUICK SPECIFICATIONS

	STAGEPAS 400BT	STAGEPAS 600BT
MIXING CHANNELS	8	10
MAX. OUTPUT POWER	400 W	680 W
MAX. SPL	125 dB	129 dB
EQUALIZER	2-band EQ	3-band EQ
SPEAKER UNIT	LF: 8" cone / HF: 1" v. c. Driver	LF: 10" cone / HF: 1,4" v. c. Driver
EFFECTS	SPX digital reverb	
OUTPUT PROCESSOR	Feedback suppressor, 1-knob Master EQ	
BLUETOOTH INPUTS	BT Version 4.1, A2DP, Max. range approx. 10 m	
SUBWOOFER OUTPUT	Yes, with Auto-HPF	
OPTIONAL ACCESSORIES	BMS10A (mic stand adaptor for mixer mount), FC5 (foot switch for reverb ON/OFF)	
DIMENSIONS	Speaker: 289 x 472 x 275 mm Mixer: 308 x 180 x 116 mm	Speaker: 335 x 545 x 319 mm Mixer: 348 x 197 x 135 mm

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 81

STAGEPAS 1K MK2

PORTABLE PA SYSTEM



STEP INTO THE SPOTLIGHT.

The **STAGEPAS 1K MK2** is an all-in-one portable PA system that allows you to quickly and easily transform any location into your stage. Delivering professional level audio performance with a setup so simple it enables aspiring artists to focus on their music and get the most out of their performances. The **STAGEPAS 1K MK2** surpasses other portable PAs with the highest standard of sound quality and sound pressure, lightweight cabinet design, professional mixing functions, and simple operability. By adopting a concert-quality mixer and speaker, we have defined a new standard for portable PA by utilizing Yamaha's unique experience and know-how developed over decades of producing innovative, professional audio equipment from every stage of music engineering and production.

KEY FEATURES

- **J-CURVE SLIM LINE ARRAY**
- **CLASS LEADING 12" SUBWOOFER**
- **HIGH EFFICIENCY 1100W CLASS-D AMP**
- **1-KNOB CONTROLS FOR EQ AND OUTPUT PROCESSING**
- **STAGEPAS CONTROLLER APP FOR FULL DSP PARAMETER CONTROL**
- **WIRELESS AUDIO VIA BLUETOOTH**
- **FITTED COVER INCLUDED, OPTIONAL DOLLYBOARD**

DETAILS



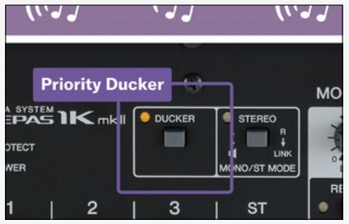
STAGEPAS 1K MK2 MIXER



STAGEPAS CONTROLLER APP



DEDICATED COVER WITH STORAGE FOR HF UNIT (INCLUDED)



PRIORITY DUCKER



STEREO SETUP WITH DXL1K



SIMPLE SETUP

QUICK SPECIFICATIONS

	STAGEPAS 1K MK2
MIXING CHANNELS	5 (3 mono + 1 stereo)
MAX. OUTPUT POWER	1100 W
MAX. SPL	125 dB SPL
FREQUENCY RESPONSE	37 – 20 kHz
EQUALIZER	1-knob EQ, 4-band PEQ via Controller App
SPEAKER UNITS	HF: 1.5" (3.8 cm) Cone x 10, LF: 12" (30 cm) Cone
EFFECTS AND PROCESSING	SPX digital reverb (4 program, parameter control), Priority ducker
OUTPUT PROCESSOR	MODE (SPEECH, MUSIC, CLUB), 1-knob
BLUETOOTH INPUTS	Bluetooth Ver.5.0, A2DP (SBC, AAC)
NOMINAL COVERAGE	H170° x V30°
OPTIONAL ACCESSORIES	DL-SP1K (Dedicated dolly), FC5 (foot switch for reverb ON/OFF)
DIMENSIONS	System: 334 x 2000 x 418 mm (max.), 23 kg

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 81

EMX SERIES

POWERED MIXERS



INTEGRATED SOLUTIONS FOR SUPERIOR LIVE SOUND

Experienced musicians, performers, speakers, and club operators know the importance of a high-quality sound system with the right features and performance to deliver their sound. Where portability and convenience are important criteria, a system based on a high-performance Yamaha **EMX SERIES** powered mixer is definitely the way to go.

In one integrated, portable unit you have a mixer to combine and balance your microphone and instrument and line sources, effects to refine and polish your sound, and power to drive the main speakers and even monitor speakers as well. But that's nowhere near the whole story - Yamaha **EMX SERIES** Powered Mixers offer a range of features that let you mix, process, and deliver your sound with maximum quality and creative control...and, of course, that unrivalled Yamaha sound.

KEY FEATURES

- **1-KNOB COMPRESSORS**
- **SPX DIGITAL EFFECTS PROCESSORS**
- **RACKMOUNT OPTIONS**
- **EMX5: 12 INPUTS, UP TO 8 MICROPHONES, 2 X 500W**
- **EMX7: 12 INPUTS, UP TO 8 MICROPHONES, 2 X 600W, GRAPHIC EQUALIZER**

DETAILS



EMX7



EMX5



EMX5 REAR CONNECTORS



RK-EMX7 RACK MOUNT KIT (OPTION)



EMX5 MASTER EQ



SPEAKER PRESETS EMX7

QUICK SPECIFICATIONS

	EMX5	EMX7
MIXING CHANNELS	12 (8 Mono/4 Stereo)	12 (8 Mono/4 Stereo)
BUS/AUX OUTPUTS	Stereo / 2 (1FX)	Stereo / 2 (1FX)
OUTPUT POWER (1 KHZ/8 OHMS)	2 x 500 W	2 x 600 W
EFFECTS	24 SPX Effects	24 SPX Effects
EQUALIZER	1-knob Master-EQ, Monitor-EQ	Flex9-GEQ
FEEDBACK SUPPRESSOR	yes	yes
SPEAKER PRESETS	no	yes
1-KNOB COMPRESSORS	CH1-4	CH1-4
RACKMOUNT OPTION	RKEMX7	RKEMX7
DIMESNIONS (W/H/D)	465 x 308 x 325 mm	465 x 308 x 325 mm

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 80

SOFTWARE

APPLICATIONS FOR YAMAHA PORTABLE PA SYSTEMS

Equipped with a Bluetooth input for wireless audio streaming from smartphones or tablets, the STAGEPAS models let you seamlessly play backing tracks for gigs, or set the tone of parties, conferences, or events with the audio playback of your choice.

In addition to a Bluetooth input for wireless audio streaming, STAGEPAS Controller is a dedicated software application that remotely controls STAGEPAS 1Kmk2 and 200/200BTR parameters using your Android™ or iOS device. With STAGEPAS Controller, you can control mixing parameters directly from the stage or from the audience. Because you can adjust while listening to the actual mix, it is easy to balance levels and improve sound quality, while setup time is shortened by eliminating back-and-forth trips to the equipment, leaving more time for rehearsing or relaxing before the show.

The scene recall feature allows you to save your settings and easily call them up for your next performance.



STAGEPAS CONTROLLER



KNOB VIEW



PEQ DETAILS



FADER VIEW



DIORITY DUCKER



FX PARAMETER CONTROL

STAGEPAS CONTROLLER

- STAGEPAS DEDICATED REMOTE CONTROL APP
- AVAILABLE FREE FOR IOS/ANDROID DEVICES
- FULL MIXING PARAMETERS ACCESS
- SAVE UP TO 8 SCENE PRESETS
- REMOTE CONNECTION VIA BLUETOOTH

BLUETOOTH CONNECTIVITY

- WIRELESS AUDIO TRANSMISSION FOR MOBILE DEVICES
- HIGH QUALITY AUDIO VIA A2DP STANDARD
- AVAILABLE FOR ALL CURRENT STAGEPAS MODELS
- UP TO 15M RANGE



LIVE MUSIC APPLICATION



BLUETOOTH AUDIO (BGM)



DJ APPLICATION

PORTABLE PA SYSTEMS

SPECIFICATIONS POWERED MIXERS & PORTABLE PA SYSTEMS

			EMX SERIES	
	SUB PROPERTY	PROPERTY	EMX5	EMX7
	SYSTEM TYPE		Box-type powered mixer	
MIXER	FREQUENCY RESPONSE (INPUT -> AMPLIFIER OUT)		40 Hz to 20 kHz (+1/-3 dB)	
	INPUT CHANNELS	MONO (MIC/LINE)	8	
		MONO/STEREO	-	-
		STEREO (LINE)	4	
	OUTPUT CHANNELS	STEREO OUT	1	
		MONITOR OUT (L,R)	-	
		PHONES	1	
		AUX SEND	2	
		GROUP OUT	REC Out (L, R)	
	BUS		Stereo: 1, AUX: 2 (incl. FX)	
	INPUT CHANNEL FUNCTION	PAD (MONO)	MIC/LINE	
		HPF (MONO, MONO/STEREO)	80Hz	
		COMP (MONO)	1-knob COMP	
		EQ	3-band CH EQ	3-band CH EQ
	EFFECTS PROCESSING		24x SPX, Feedback suppressor, Master-EQ, Monitor-EQ	24x SPX, Feedback suppressor, Graphic EQ, Speaker processor
	USB AUDIO/RECORDING, WIRELESS AUDIO		-	
	EXTERNAL CONTROLS		Footswitch: Effects on/off	
	PHANTOM POWER VOLTAGE		+48V	
POWER AMPLIFIER	OUTPUT POWER (PEAK)		2x 630 W (4 Ω)	2 x 710 W (4 Ω)
			2x 460 W (8 Ω)	2x 500 W (8 Ω)
	TOTAL HARMONIC DISTORTION		less than 0.1%	less than 0.1%
SPEAKER	FREQUENCY RANGE (-10DB)		-	
	MAX. SPL		-	
	SPEAKER SIZE		-	
GENERAL	POWER REQUIREMENTS		100-240 V, 50/60 Hz	100-240 V, 50/60 Hz
	POWER CONSUMPTION		45 W (Idle), 210 W (1/8 power)	45 W (Idle), 250 W (1/8 power)
	DIMENSIONS (W X H X D)		465 x 308 x 325 mm	
	BATTERY		-	
	NET WEIGHT		9.5 kg (20.9 lbs.)	
	INCLUDED ACCESSORY		Owner's Manual, Technical Specifications, AC power cord (2.5 m)	
	OPTIONAL ACCESSORY		FC5 Footswitch, Rackmount brackets RK-EMX7	
	OPERATING TEMPERATURE		0 to +40°	

STAGEPAS SERIES				
STAGEPAS 100/100BTR	STAGEPAS 200/200BTR	STAGEPAS 400BT	STAGEPAS 600BT	STAGEPAS1K MK2
Box-type all in one PA	Box-type all in one PA	Powered mixer with 2 passive speakers	Powered mixer with 2 passive speakers	Column-type all in one PA
-	-	-		
2	3	4	4	3
-	2	-	-	2
1	1	2	3	1
-	-	1	1	-
1	1	1		
1	1	1		
-	LINK Out	SUBWOOFER Out with Auto-HPF		LINK Out
-	-	-		
MONO: 1	-	-		
MIC/LINE	MIC/LINE, Hi-Z	MIC/LINE		
-	-	-		-
-	-	-	-	-
2-band Master EQ	1-knob EQ, 4-band PEQ (in App), 1-knob MODE control	2-band, 1-knob Master-EQ	3-band CH, 1-knob Master-EQ	1-knob EQ, 4-band PEQ (in App), 1-knob MODE control
Master EQ, FIR-X Tuning	4x SPX Reverb effects, Ducker, Feedback suppressor	4x SPX Digital reverb, Feedback suppressor		4x SPX Reverb effects, Ducker
Bluetooth A2DP	Bluetooth Ver. 5.0, A2DP (SBC, AAC)	Bluetooth Ver. 4.1, A2DP, max range appr. 10m		Bluetooth Ver. 5.0, A2DP (SBC, AAC)
-	STAGEPASController App	Reverb Footswitch		STAGEPASController App, Reverb Footswitch
-	+48V CH1-3	+30 V (CH1, CH2)	+30 V (CH1, CH2)	-
100 W	160 W	2 x 200 W	2 x 340 W	1100 W Class-D amp
-				
-		-		
70 Hz - 20 kHz	55 Hz - 20 kHz	55 Hz - 20 kHz	55 Hz - 20 kHz	37 Hz - 20 kHz
120 dB SPL	125 dB SPL		129 dB SPL	125 dB SPL
6.5" cone, 1.4" v.c., coaxial	8" cone, 1.4" v.c., coaxial	LF: 10" cone, HF: 1.4" v. c. driver	LF: 8" cone, HF: 1" v. c. driver	Subwoofer: 12" bass-reflex, HF-Unit: 10x 1.5"
Depending on area of purchase: 100V 50/60Hz, 110-120V 60Hz, 220-240V 50/60Hz				
10 W (Idle), 30W (1/8 power)	39 W (1/8 power)	30 W (Idle), 70W (1/8 power)	35 W (Idle), 100W (1/8 power)	25 W (Idle), 91 W (1/8 power)
239 x 310 x 215 mm	300 x 300 x 307 mm	Speaker: 289 x 472 x 275 mm, Mixer: 308 x 180 x 116 mm	Speaker: 335 x 545 x 319 mm, Mixer: 348 x 197 x 135 mm	Line array speaker: 67 x 582 x 86 mm, Spacer (each): 67 x 555 x 86 mm, Subwoofer: 334 x 550 x 418 mm
- / Lithium-Ion, 2.5 hrs charging time, 6 hrs performance time	- / Lithium-Ion, 4 hrs charging time, 10 hrs performance time	-	-	-
5.2 kg / 5.5 kg	12 kg / 12.5 kg	18.3 kg (39.7 lbs.) (2x Speaker 7.7 kg + Mixer 2.9 kg)	25.6 kg (57.3 lbs.) (2x Speaker 10.9 kg + Mixer 3.8 kg)	23 kg (Line array 1.8 kg + Spacer 0.6 kg + Subwoofer 20 kg)
Power adaptor	2x rubber feet, power adaptor, Li-Ion battery (BTR)	Cover panel, power cord (2m), 2x speaker cables (6m), 12x non-skid pads	Cover panel, power cord (2m), 2x speaker cables (6m), 12x non-skid pads	Power cord (2m), fitted Cover
Carrying bag BAG-STP100	Trolley case CASE-STP200, battery pack BTR-STP200	BMS10A (mic stand adaptor), FC5 (foot switch)		DL-SP1K (Dedicated dolly), FC5 (foot switch)
0 to +40°				

PORTABLE PA SYSTEMS



POWER AMPLIFIERS

YAMAHA POWER AMPLIFIERS ARE DESIGNED WITH AUDIO QUALITY, EFFICIENCY AND RELIABILITY ALWAYS IN MIND. As the professional sound industry has developed with digital signal processing, networking and other advanced technologies, the Yamaha amplifier lineup has been continually refined and enhanced, ensuring there is a model to meet every commercial need. Whether it's straightforward distribution of audio for a small restaurant or large, multi-channel, networked systems with advanced DSP and remote control for a multi-space hotel, shopping mall or educational resource, Yamaha power amplifiers all feature premium components and a wide range of options.

These include up to eight channels per amplifier, high and low impedance, networking with Dante and Yamaha's proprietary YDIF format, software editing/control and more.

As an invisible yet essential part of the signal chain, amplifiers are frequently installed in rack rooms and other spaces on a 'set and forget' basis, often powered up for 24 hours a day, seven days a week, so it's vital that they operate reliably. Yamaha's power amplifier range is of course designed for maximum, long-term reliability, but the drive for efficiency and reduced energy usage means some models also have excellent 'green' credentials, with the ability to be automatically and/or remotely powered down when not in use, saving both money and the planet's resources.



XMV SERIES



PC-D/DI SERIES



PX SERIES



MA & PA SERIES



SOFTWARE FOR POWER AMPLIFIERS



POWER AMPLIFIERS

XMV SERIES

NETWORKED MULTICHANNEL POWER AMPLIFIERS



MULTI-CHANNEL POWER AMPLIFIERS WITH FEATURES DESIGNED SPECIFICALLY TO BENEFIT INSTALLATION SOUND SYSTEMS.

Four-channel or eight-channel power amp that can operate in both high-impedance (70 V/100 V line) or low-impedance (4Ω / 8Ω) modes simultaneously. 70 V or 100 V mode can be assigned to every pair of channels without affecting the number of available output channels. The newly developed Double Power Mode function effectively doubles the output power of selected channels. Equipped with either YDIF digital audio format or Audinate's digital audio network Dante for simple and fast system configuration.

Easy setting such as the mute on/off or attenuator changes with MTX Editor when used in system with MTX Series. An innovative, new, patent pending circuit improves the already highly efficient Class D circuit topology, bringing the efficiency level of the amplifier's output stage up to over 90%. Feature a Power Factor Correction equipped switching power supply, ensuring harmonic control and decreasing the amount of current draw while maintaining the same output power. Powerful, intelligent protection features for more reliable operation.

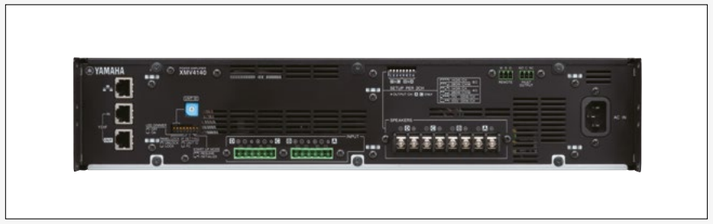
KEY FEATURES

- YDIF OR DANTE AUDIO I/O VERSIONS
- 4 AND 8 CHANNEL MODELS
- LOW / HIGH IMPEDANCE & BRIDGED OUTPUT SWITCHABLE
- CONTROL AND MONITORING VIA PROVISIONAIRE SOFTWARE
- BACKUP AND OVERRIDE MODE

DETAILS



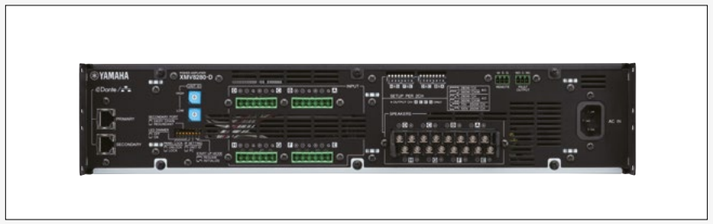
XMV4280-D INSIDE



XMV4140 REAR PANEL



XMV SERIES - 8 CHANNEL VERSIONS



XMV8280-D REAR PANEL

QUICK SPECIFICATIONS

	XMV4140	XMV4280	XMV8140	XMV8280	XMV4140-D	XMV4280-D	XMV8140-D	XMV8280-D
AMPLIFIER CLASS	class D							
CHANNELS	4	4	8	8	4	4	8	8
OUTPUT POWER (2 Ω)	-	-	-	-	-	-	-	-
OUTPUT POWER (4 Ω)	140 W	280 W	140 W	280 W	140 W	280 W	140 W	280 W
OUTPUT POWER (8 Ω)	140 W	280 W	140 W	280 W	140 W	280 W	140 W	280 W
OUTPUT POWER (4 Ω, BRIDGED)	280 W	560 W	280 W	560 W	280 W	560 W	280 W	560 W
OUTPUT POWER (8 Ω, BRIDGED)	280 W	560 W	280 W	560 W	280 W	560 W	280 W	560 W
OUTPUT POWER (100 V)	125 W	250 W	125 W	250 W	125 W	250 W	125 W	250 W
SIGNAL PROCESSING	48 kHz/32 bit							
INPUTS & OUTPUTS	4 analog, YDIF IN/OUT		8 analog, YDIF IN/OUT		4 analog, Dante Primary/ Secondary		8 analog, Dante Primary/ Secondary	
CONTROL	Ethernet, remote							

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 94

PC-D/DI SERIES

NETWORKED MULTICHANNEL POWER AMPLIFIERS



HIGH PERFORMANCE NETWORKED POWER AMPLIFIERS

The **PC-D / DI SERIES** are so much more than just amplifiers—they are the first power amps ever to be capable of forming the core of a completely connected audio network for multi-zone installed or live sound applications. The ever-changing demands and rapid advances of amplifier technology and sound reinforcement in general require both versatility and power, and this series has plenty of both. Now you can leverage the power and flexibility of the most comprehensive matrix processing to be found on a power amplifier, all enhanced by the simplicity and ease of Dante connectivity, to create a fully integrated, effective sound solution. What's more, full compatibility with ProVisionaire series gives you complete control over the entire network chain, from mixers through to amplifiers, processors, and speakers. In short, the PC-D / DI series gives you what every sound engineer has always dreamed of—total control.

KEY FEATURES

- POWERFUL DSP MATRIX FUNCTIONALITY
- DANTE I/O
- FOUR CHANNELS WITH UP TO 2500W POWER
- TOURING AND INSTALLATION VERSIONS
- INSTALLATION VERSION WITH UP TO 1200W AT 100V
- CONTROL AND MONITORING VIA PROVISIONAIRE SOFTWARE

DETAILS



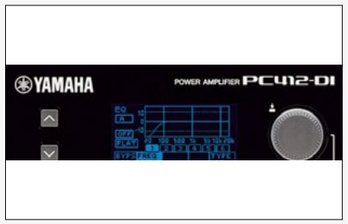
PC412-D REAR PANEL



PROVISIONAIRE AMP EDITOR



PC412-DI REAR PANEL



PC412-DI FRONT PANEL

QUICK SPECIFICATIONS

	PC406-D	PC406-DI	PC412-D	PC412-DI
AMPLIFIER CLASS	class D			
CHANNELS	4			
OUTPUT POWER (2 Ω)	1300 W	1300 W	2500 W	2500 W
OUTPUT POWER (4 Ω)	900 W	900 W	1900 W	1900 W
OUTPUT POWER (8 Ω)	600 W	600 W	1200 W	1200 W
OUTPUT POWER (4 Ω, BRIDGED)	2600 W	2600 W	5000 W	5000 W
OUTPUT POWER (8 Ω, BRIDGED)	1800 W	1800 W	3800 W	3800 W
OUTPUT POWER (100 V)	-	600 W	-	1200 W
SIGNAL PROCESSING	96 kHz/24 bit, Matrix-Mixer, EQ, Delay, Peak/RMS Limiter			
INPUTS & OUTPUTS	4 analog, 16 INPUT & OUTPUT with Dante Redundancy			
CONTROL	Ethernet, GPIO			

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 94

PX SERIES

TWO CHANNEL POWER AMPLIGFIERS



INTELLIGENT PROCESSING. SERIOUS POWER.

Since the 1976 release of the P2200, our first professional power amplifier, Yamaha has strived to achieve the highest possible levels of sound quality, power output, and reliability in sound reinforcement, studio, and installed applications. The new **PX SERIES** power amplifiers continue this tradition of excellence, utilizing Yamaha's renowned digital signal processing technology and unparalleled professional audio expertise to achieve a light, durable design, capable of delivering maximum output power to the speakers while simultaneously protecting them with optimized processing. Driven by a newly-developed Class-D amplifier the four new models that make up the **PX SERIES** are suitable for a broad range of sound reinforcement and installation environments.

KEY FEATURES

- TWO CHANNEL POWER AMPS WITH A WIDE RANGE OF POWER CAPABILITIES
- SPEAKON, JACK AND BINDING POST POWER OUTPUTS
- XLR AND JACK SIGNAL INPUTS
- INTEGRATED DSP WITH FLEXIBLE DELAY, LIMITER, X-OVER AND PEQS
- LCD USER INTERFACE
- USB DATA BACKUP

DETAILS



PX10 REAR PANEL



USB DRIVE



FRONT PANEL

QUICK SPECIFICATIONS

	PX3	PX5	PX8	PX10
AMPLIFIER CLASS	class D			
CHANNELS	2	2	2	2
OUTPUT POWER (2 Ω)	300 W	500 W	600 W	700 W
OUTPUT POWER (4 Ω)	500 W	800 W	1050 W	1200 W
OUTPUT POWER (8 Ω)	300 W	500 W	800 W	1000 W
OUTPUT POWER (4 Ω, BRIDGED)	1000 W	1400 W	-	-
OUTPUT POWER (8 Ω, BRIDGED)	600 W	800 W	-	-
OUTPUT POWER (100 V)	-	-	-	-
SIGNAL PROCESSING	D-CONTOUR, Delay, PEQ, HPF/LPF, Limiter			
INPUTS	2 analog	2 analog	2 analog	2 analog

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 96

POWER AMPLIFIERS

MA/PA SERIES

INSTALLATION POWER AMPLIFIERS







SMART AND SIMPLE MIXING AND POWER AMPLIFIERS

With quick, easy setup and intuitive operation, the compact **MA/PA SERIES** power amplifiers make it easier than ever to bring your commercial space to life. The MA2030a and PA2030a are ideal audio solutions for retail stores, eateries, classrooms or public facilities like hospitals. The MA2120 and PA2120 meet the demands of a wide range of applications requiring higher power as well as more flexible DSP functionality and zone control. All models combine approachable, unobtrusive design with efficient, flexible performance. The MA2030a and MA2120 offer mixing capability with source EQ (Bass/Treble) control, as well as some of the same state-of-the-art DSP technol-ogies that are acclaimed features of professional Yamaha audio gear. Whether providing background music for a café or restaurant or powering a conference room or other application requiring microphone input, the MA/PA series amplifiers are simple yet powerful tools that can help establish an ideal commercial sound environment.

KEY FEATURES

- SIMPLE, USER-FRIENDLY INTERFACE
- STEREO AND MICROPHONE INPUTS (MA2120, MA2030A)
- INTEGRATED DSP FOR MICROPHONE AND SPEAKER OPTIMIZATION
- REMOTE CONTROL WITH DCP WALL MOUNT PANELS
- TWO INDEPENDANT ZONES (MA2120)
- LOW IMPEDANCE AND HIGH IMPEDANCE OPERATION

DETAILS



MA2030A REAR PANEL



PA2030A REAR PANEL



DCP1V4S DIGITAL CONTROL PANEL (OPTION)



MA2120 REAR PANEL



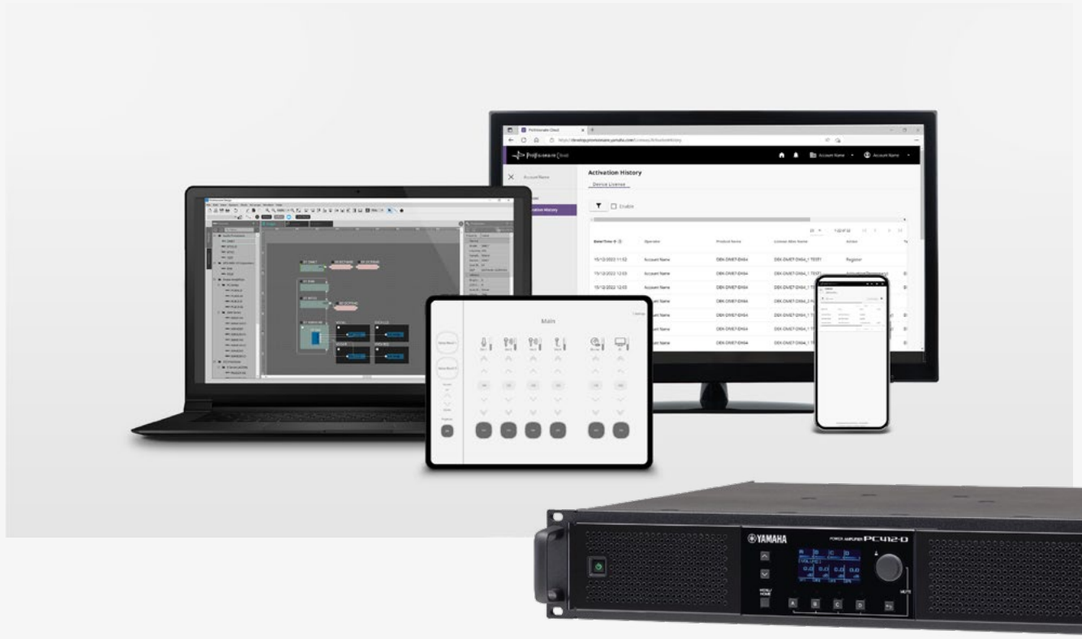
PA2120 REAR PANEL

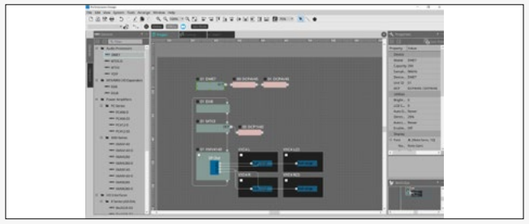
QUICK SPECIFICATIONS

	MA2030A	PA2030A	MA2120	PA2120
AMPLIFIER CLASS	class D			
CHANNELS	2			
OUTPUT POWER (2 Ω)	-			
OUTPUT POWER (4 Ω)	30 W	30 W	120 W	120 W
OUTPUT POWER (8 Ω)	30 W	30 W	100 W	100 W
OUTPUT POWER (4 Ω, BRIDGED)	-			
OUTPUT POWER (8 Ω, BRIDGED)	-			
OUTPUT POWER (100 V)	60 W (1ch)	60 W (1ch)	120 W (2ch) or 200 W (1ch)	120 W (2ch) or 200 W (1ch)
SIGNAL PROCESSING	FBS, Ducker, Leveler, Bass/Treble, Speaker EQ, HPF	Speaker EQ, HPF, LPF	FBS, Ducker, Leveler, Comp, Reverb, Echo, Bass/Treble, Speaker EQ, HPF, LPF	Speaker EQ, HPF, LPF
INPUTS	2 Mic (balanced), 3 stereo line (unbalanced)	2 analog (line level)	2 analog (line level)	2 analog (line level)
OUTPUTS	2 analog (line level)	-	2 analog (line level)	2 analog (line level)
CONTROL	1 DCP1V4S	-	2 DCPs	2 DCPs

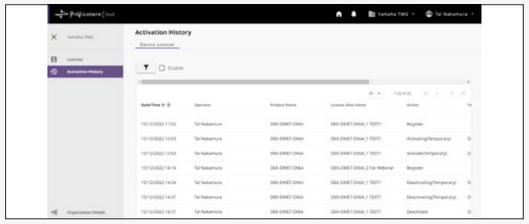
FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 96

SOFTWARE FOR POWER AMPLIFIERS





PROVISIONAIRE DESIGN



PROVISIONAIRE CLOUD



PROVISIONAIRE TOUCH



PROVISIONAIRE CONTROL

PROVISIONAIRE DESIGN

PROVISIONAIRE DESIGN is a software application for Windows operating systems that allows comprehensive, intuitive design of sound systems that use compatible Yamaha products. Compatible with a wide range of Yamaha products including the DME7/MRX7-D*/MTX processors, XMV/PCD amplifiers, Rio/Tio interfaces, VXL-P speakers, ADECIA solutions, and more. ProVisionaire Design facilitates sound system design and setup by allowing flexible component layout, signal routing, and parameter editing in open-architecture processors such as the DME7 and MRX7-D. It also provides a comprehensive overview of components and signal routing in MTX series fixed-architecture processors. A wide range of high-quality audio components that only a leader in the field of professional sound reproduction can provided include Rev-X for refined reverb, and the Dugan Auto Mixer for flawless automated mixing. ProVisionaire Design can be used in conjunction with the ProVisionaire Control computer applications for comprehensive control of any project, from system design and setup to everyday operation and management.

PROVISIONAIRE CONTROL AND PROVISIONAIRE TOUCH

PROVISIONAIRE CONTROL and **PROVISIONAIRE TOUCH** are software applications that provide unified remote control and monitoring of the entire systems. ProVisionaire Control supports Windows devices, and ProVisionaire Touch supports the iPad. A broad range of devices are supported, including MTX/MRX processors, CL/QL/TF digital mixers, Rio I/O units, XMV power amplifiers, and NEXO NXAMPMK2 powered TD controllers. Custom control panels can be created by assigning necessary parameters to a single display page. ProVisionaire Control includes the ProVisionaire Monitoring Service, making it easy to monitor the status of system devices while alerts and other log data can be recorded to a computer.

KEY FEATURES

- **FULL SYSTEM CONFIGURATION WITH PC-D SERIES AND XMV-SERIES (PROVISIONAIRE DESIGN)**
- **CUSTOMIZED USER CONTROL PANELS FOR WINDOWS AND IOS (PROVISIONAIRE CONTROL/TOUCH)**

* MRX7-D support scheduled for fall of 2023.

QUICK SPECIFICATIONS

	PROVISIONAIRE DESIGN	PROVISIONAIRE CONTROL	PROVISIONAIRE TOUCH
OPERATING SYSTEM	Windows 10/11	Windows 10/11	iPad OS 11.0 or later
SYSTEM REQUIREMENTS	Intel Core i or better, 4GB or more, 300MB or more free	Intel Atom or better, 2GB or more, 300MB or more free	iPad with 74,5MB free space
MAX NUMBER OF CLIENTS	8	8	8

POWER AMPLIFIERS

SPECIFICATIONS MULTICHANNEL NETWORKED POWER AMPLIFIERS

			XMV SERIES							
			XMV4140	XMV4280	XMV4140-D	XMV4280-D	XMV8140	XMV8280	XMV8140-D	XMV8280-D
AMPLIFIER CLASS			Class D							
CHANNELS			4	4	4	4	8	8	8	8
OUTPUT POWER	BURST (1KHZ, 20MS)	2 OHM	-	-	-	-	-	-	-	-
		4 OHM	140 W	280 W	140 W	280 W	140 W	280 W	140 W	280 W
		8 OHM	140 W	280 W	140 W	280 W	140 W	280 W	140 W	280 W
		4 OHM (BRIDGED)	280 W	560 W	280 W	560 W	280 W	560 W	280 W	560 W
		8 OHM (BRIDGED)	280 W	560 W	280 W	560 W	280 W	560 W	280 W	560 W
	CONTINUOUS (20HZ-20KHZ)	2 OHM	-	-	-	-	-	-	-	-
		4 OHM	17.5 W	35 W	17.5 W	35 W	17.5 W	35 W	17.5 W	35 W
		8 OHM	17.5 W	35 W	17.5 W	35 W	17.5 W	35 W	17.5 W	35 W
		4 OHM (BRIDGED)	35 W	70 W	35 W	70 W	35 W	70 W	35 W	70 W
		8 OHM (BRIDGED)	35 W	70 W	35 W	70 W	35 W	70 W	35 W	70 W
	HIGH IMPEDANCE	100V	125 W	250 W	125 W	250 W	125 W	250 W	125 W	250 W
		70V	125 W	250 W	125 W	250 W	125 W	250 W	125 W	250 W
VOLTAGE GAIN (+4DBU)	8 OHM		28.7 dB	31.7 dB	28.7 dB	31.7 dB	28.7 dB	31.7 dB	28.7 dB	31.7 dB
	100V		38.2 dB							
	70V		35.2 dB							
INPUT SENSITIVITY			+4 dBu							
MAXIMUM INPUT LEVEL			+24 dBu							
INPUT IMPEDANCE	BALANCED		20 kΩ							
	UNBALANCED		10 kΩ							
THD+N	1KHZ, HALF POWER		≤ 0.2%							
FREQUENCY RESPONSE	1W, 8OHM		0 dB, ±1.0 dB (20 Hz-20 kHz)							
	1W, 100V/70V		0 dB, ±1.0 dB (55 Hz-20 kHz)							
S/N RATIO	A-WEIGHTED		≥ 100 dB							
CROSSTALK			≤ -60 dB							
SAMPLING FREQUENCY			48 kHz							
A/D D/A CONVERTERS			24-bit linear, 128 times over sampling							
SIGNAL PROCESSING			32 bit digital signal processing							
LATENCY	ANALOG INPUT TO [SPEAKERS] OUTPUT		1.85 ms							
	DIGITAL INPUT TO [SPEAKERS] OUTPUT		1.17 ms (fs=44.1 kHz), 1.08 ms (Fs=48 kHz)		1.42 ms (fs=44.1 kHz), 1.33 ms (Fs=48 kHz)		1.17 ms (fs=44.1 kHz), 1.08 ms (Fs=48 kHz)		1.42 ms (fs=44.1 kHz), 1.33 ms (Fs=48 kHz)	
LIMITER CIRCUIT			clip limiting							
PROTECTION CIRCUIT	LOAD	POWER SWITCH ON/OFF	Output mute							
		DC-FAULT	Power supply shutdown							
		OUTPUT VOLTAGE PROTECTION	-							
	AMPLIFIER	THERMAL	Output Mute (heatsink temp. ≥ 90°C) (return automatically)							
		OVER CURRENT	Output Mute (return automatically)							
		OVER VOLTAGE	-							
		LOW LOAD IMPEDANCE	Output Mute (return automatically)							
	POWER SUPPLY	THERMAL	Power supply shutdown (heatsink temp. ≥ 100°C)							
		OVER CURRENT	-							
		OVER VOLTAGE	-							
		INTEGRATED POWER	Gain reduction (return automatically)							
COOLING			3 speed fan x 2, front-to-back airflow							
I/O CONNECTORS	ANALOG I/O		Euroblock (balanced) /ch							
	DIGITAL I/O		RJ45 x 2 ([YDIF] IN/OUT)		RJ45 x 2 (Dante [PRIMARY]/[SECONDARY])		RJ45 x 2 ([YDIF] IN/OUT)		RJ45 x 2 (Dante [PRIMARY]/[SECONDARY])	
	SPEAKER OUTPUT		Barrier strip /ch							
	NETWORK		RJ45 x 1		Shared with Dante ports		RJ45 x 1		Shared with Dante ports	
	CONTROL PORTS		Remote, Fault Output : Euroblock (3P) x 1							
	OTHERS		AC Inlet x 1							
INDICATORS			function LED x 5, chennel LED x 20				function LED x 5, chennel LED x 40			
DISPLAY			2-segment LED							
OPERATING TEMPERATURE			0°C to +40°C							
POWER REQUIREMENTS			100 V, 120 V, 230 V-240 V 50 Hz/60 Hz							
POWER CONSUMPTION	1/8 POWER (PINK NOISE)		150 W (4 Ω)	250 W (4 Ω)	150 W (4 Ω)	250 W (4 Ω)	250 W (4 Ω)	450 W (4 Ω)	250 W (4 Ω)	450 W (4 Ω)
	IDLE		37 W				73 W			
	STAND BY		18.5 W				23 W			
DIMENSIONS (W X H X D)			480 x 88 x 422 mm (18.9 x 3.5 x 16.6 inches)							
NET WEIGTH			8.1 kg				10.1 kg			
ACCESSORIES			power cord, Mini Euroblock (3-pin, 3.50 mm) x 2, Euroblock (3-pin, 5.08 mm) x 4				power cord, Mini Euroblock (3-pin, 3.50 mm) x 2, Euroblock (3-pin, 5.08 mm) x 8			

PC-D / DI SERIES			
PC406-D	PC406-DI	PC412-D	PC412-DI
Class D, Single ended output			
4			
1300W	1300 W	2500 W	2500 W
900W	900 W	1900 W	1900 W
600W	600 W	1200 W	1200 W
2600W	2600 W	5000 W	5000 W
1800W	1800 W	3800 W	3800 W
162 W	162 W	312 W	312 W
112 W	112 W	237 W	237 W
75 W	75 W	150 W	150 W
325 W	325 W	625 W	625 W
225 W	225 W	475 W	475 W
-	600 W	-	1200 W
-	600 W	-	1200 W
35.0 dB	35.0 dB	38.0 dB	38.0 dB
-	38.2 dB	-	38.2 dB
-	35.2 dB	-	35.2 dB
+4.0 dBu, +14.0 dBu			
+25 dBu	+28 dBu	+28 dBu	+28 dBu
20 kΩ			
-			
≤ 0.1%			
+0.5 dB, -1.5 dB (20 Hz-20kHz)			
-	+0.5 dB, -1.5 dB (20 Hz-20 kHz)	-	+0.5 dB, -1.5 dB (20 Hz-20 kHz)
109 dB	109 dB	112 dB	112 dB
≤ -60 dB			
96 kHz			
AD: 24 bit linear, 64 times over sampling; DA: 24 bit linear, 128 times over sampling			
20 x 8 input matrix mixer, Room EQ: 16 band IIR EQ, Room Delay: 0 - 1000 ms, Speaker Processor: X-Over (IIR/FIR*), PEQ (16 band IIR/FIR*), Delay, Peak Limiter, RMS Limiter			
1.5 ms			
1.8 msec (fs=96 kHz) ; 1.9 msec (fs=88.2 kHz) ; 2.5 msec (fs=48 kHz) ; 2.7 msec (fs=44.1 kHz)			
Peak Limiter and RMS Limiter			
Output mute			
Power supply shutdown			
Over voltage limiter, user configurable by wattage and speaker preset			
Output limiter (Restored automatically) → Output mute (Restored automatically)			
Output mute (Restored automatically)			
Output limiter (Restored automatically)			
-			
Output limiter (Restored automatically) → Power supply shutdown			
Power supply shutdown			
Power supply shutdown			
Output limiter (Restored automatically)			
7 step variable speed fan x 3, front to rear airflow			
XLR-3-31 /ch	Euroblock (balanced) /ch	XLR-3-31 /ch	Euroblock (balanced) /ch
etherCON x 2 (Dante [PRIMARY]/[SECONDARY])	RJ45 x 2 (Dante [PRIMARY]/[SECONDARY])	etherCON x 2 (Dante [PRIMARY]/[SECONDARY])	RJ45 x 2 (Dante [PRIMARY]/[SECONDARY])
Neutrik speakON NL4 x 4	7.62mm Euro block 8 pin x 1	Neutrik speakON NL4 x 4	7.62mm Euro block 8 pin x 1
RJ45 x 1			
Euro block 8 pin (mini) x 2(GPI x 4, GPO x 6, +5 V x 2)			
AC inlet (powerCON 20A) x 1			
-			
128 x 64 pixel, mono color with brightness adjustment, Auto display off feature			
0°C to +40°C			
100 V - 240 V 50 Hz/60 Hz			
1050 W (2 Ω)	1100 W (2 Ω)	1850 W (2 Ω)	1850 W (2 Ω)
165 W	190 W	190 W	190 W
12W			
480 x 88 x 528 mm (18.9 x 3.5 x 20.8 inches)			
15.6 kg	15.9 kg	16.0 kg	16.0 kg
power cord, Mini Euroblock (8-pin, 3.50 mm) x 2	power cord, Mini Euroblock (8-pin, 3.50 mm) x 2, Euroblock (3-pin, 5.08 mm) x 4	power cord, Mini Euroblock (8-pin, 3.50 mm) x 2	power cord, Mini Euroblock (8-pin, 3.50 mm) x 2, Euroblock (3-pin, 5.08 mm) x 4

POWER AMPLIFIERS

SPECIFICATIONS
ANALOGUE POWER AMPLIFIERS

			MA/PA SERIES				PX SERIES			
			MA2030A	PA2030A	MA2120	PA2120	PX3	PX5	PX8	PX10
AMPLIFIER CLASS			Class D				Class D, balanced output circuit (BTL)			
CHANNELS			2				2			
OUTPUT POWER	BURST (1KHZ, 20MS)	2 OHM	-				300 W	500 W	600 W	700 W
		4 OHM	30W	30W	120W	120W	500 W	800 W	1050 W	1200 W
		8 OHM	30W	30W	100W	100W	300 W	500 W	800 W	1000 W
		4 OHM (BRIDGED)	-				1000 W	1400 W	-	-
		8 OHM (BRIDGED)	-				600 W	800 W	-	-
	CONTINUOUS (20HZ-20KHZ)	2 OHM	-				37 W	62 W	75 W	87 W
		4 OHM	-				62 W	100 W	131 W	150 W
		8 OHM	-				37 W	62 W	100 W	125 W
		4 OHM (BRIDGED)	-				125 W	175 W	-	-
		8 OHM (BRIDGED)	-				75 W	100 W	-	-
	HIGH IMPEDANCE	100V	60 W x 1		120 W x 2 or 200 W x 1		-	-	-	-
		70V	60 W x 1		120 W x 2 or 200 W x 1		-	-	-	-
VOLTAGE GAIN (+4DBU)	8 OHM		-				32.1 dB	34.3 dB	36.3 dB	37.3 dB
	100V		-				-	-	-	-
	70V		-				-	-	-	-
INPUT SENSITIVITY			Mic: -76 dBu / Line (unbal): -10dBV	Line (unbal): -10dBV / Line (bal): +4dBu	Mic: -56dBu / Line (unbal): -10dBV / Line (bal): -24dBu	Line (unbal): -10dBV / Line (bal): +4dBu	+4.0 dBu, +14.0 dBu			
MAXIMUM INPUT LEVEL			Mic: -22 dBu / Line (unbal): +10dBV	Line (unbal): +10dBV / Line (bal): +24dBu	Mic: -8dBu / Line (unbal): +10dBV / Line (bal): +24dBu	Line (unbal): +10dBV / Line (bal): +24dBu	+24 dBu			
INPUT IMPEDANCE	BALANCED		-				20 kΩ			
	UNBALANCED		-				10 kΩ			
THD+N	1KHZ, HALF POWER		≤ 0.2%				0,3%			
FREQUENCY RESPONSE	1W, 8OHM		0dB, -3.0dB. +1.0dB (50Hz-20kHz)				±1.0 dB (20 Hz-20 kHz)			
	1W, 100V/70V		0dB, -3.0dB. +1.0dB (90Hz-20kHz)				-			
S/N RATIO	A-WEIGHTED		-				100 dB	100 dB	101 dB	101 dB
CROSSTALK			-				≤ -60dB	≤ -60dB	≤ -60 dB	≤ -60 dB
SAMPLING FREQUENCY			-				48 kHz			
A/D D/A CONVERTERS			-				AD: 24-bit linear, 128 times over sampling; DA: 24-bit linear, 128 times over sampling			
SIGNAL PROCESSING			FBS (Notch Type), Ducker, Leveler, Speaker EQ (VXS:Full Range, VXC), HPF (150Hz)	Speaker EQ (VXS:Full Range, VXC), HPF (150Hz), LPF(150Hz, 200Hz)	Speaker EQ (VXS:Full Range, VXC, VXS10S/ST), HPF (150Hz), LPF (150Hz, 200Hz)		Input summing D-CONTOUR: FOH/MAIN, MONITOR, OFF Delay: 0–74 ms HPF/LPF: cutoff frequency 20 Hz–20 kHz with polarity control Speaker processor: 6 band PEQ + limiter + delay			
LATENCY	ANALOG INPUT TO [SPEAKERS] OUTPUT		-				1.5 ms			
	DIGITAL INPUT TO [SPEAKERS] OUTPUT		-				–			
LIMITER CIRCUIT			-				Over voltage limiter, user configurable by wattage and speaker preset			
PROTECTION CIRCUIT	LOAD	POWER SWITCH ON/OFF	Output mute				Output mute			
		DC-FAULT	Power supply shutdown				Power supply shutdown			
		OUTPUT VOLTAGE PROTECTION	Compress output voltage when needed				Over voltage limiter, user configurable by wattage and speaker preset			
	AMPLIFIER	THERMAL	Limit output → Mute → Shutdown				Output limiter (Restored automatically) → Output mute (Restored automatically)			
		OVER CURRENT	Output mute (Restored automatically)				Output mute (Restored automatically)			
		OVER VOLTAGE	-				Output mute (Restored automatically)			
		LOW LOAD IMPEDANCE	-				-			
		INTEGRATED POWER	Compress output				Output limiter (Restored automatically)			
	POWER SUPPLY	THERMAL	Power supply shutdown				Output limiter (Restored automatically) → Power supply shutdown			
		OVER CURRENT	Power supply shutdown				Power supply shutdown			
		OVER VOLTAGE	Limit output → Power supply shutdown				Power supply shutdown			
COOLING			Conventional cooling, bottom to up airflow				16 step variable speed fan x 2, front to rear airflow			

POWER AMPLIFIERS

SPECIFICATIONS
ANALOGUE POWER AMPLIFIERS

		MA/PA SERIES			
		MA2030A	PA2030A	MA2120	PA2120
I/O CONNECTORS	ANALOG I/O	Input: XLR/PHONE combo (balanced) x 1, Euroblock (balanced)x 1, Stereo RCA (unbalanced) x 2, Stereo mini (unbalanced) x 1, Output: Stereo RCA x 1	Euroblock (balanced) x 2, Stereo RCA (unbalanced) x 1	Input: 3.5mm Euroblock (balanced) x 6, Stereo RCA (unbalanced) x 2, 3.5mm Stereo mini phone (unbalanced), RCA (MONO SUM, unbalanced) x 4, Output: MONO RCA (unbalanced) x 2	Euroblock x 2 (balanced), Mono RCA x 2 (unbalanced)
	DIGITAL I/O	-			
	SPEAKER OUTPUT	Barrier strip/ch			
	NETWORK	-			
	CONTROL PORTS	RJ45 (DCP)	RJ45 (DCP)	RJ45 (DCP), Remote (3.5mm Euro block 3-pin)	RJ45 (DCP), Remote (3.5mm Euro block 3-pin)
	OTHERS	AC inlet x1			
INDICATORS		1 input LED, 3 system LED, 2 output LED, ON	2 output LED, ON	16 input LED, 3 system LED, 4 output LED, ON	4 output LED, ON
DISPLAY		-			
OPERATING TEMPERATURE		0°C to +40°C			
POWER REQUIREMENTS		100V, 120V, 230V-240V 50Hz/60Hz			
POWER CONSUMPTION	1/8 POWER (PINK NOISE)	30W (3 Ohm)	30W (3 Ohm)	60W (4 Ohm)	60W (4 Ohm)
	IDLE	25W	25W	20W	20W
	STAND BY	-	-	≤ 1W	≤ 1W
DIMENSIONS (W X H X D)		215 x 54 x 288 mm (8.5 x 2.1 x 11.4 inches)	215 x 54 x 288 mm (8.5 x 2.1 x 11.4 inches)	480 x 45 x 379 mm (18.9 x 1.8 x 14.9 inches)	480 x 45 x 379 mm (18.9 x 1.8 x 14.9 inches)
NET WEIGTH		1.8 kg	1.8 kg	4.9 kg	4.8 kg
ACCESSORIES		power cable, 3.5mm Euroblock (3-pin) x 1	power cable, 3.5mm Euroblock (3-pin) x 2	power cable, 3.5mm Euroblock (6-pin) x 3, Euroblock pulg (3-pin)	power cable, 3.5mm Euroblock (6-pin) x 1, Euroblock (3-pin) x 1

		PX SERIES			
		PX3	PX5	PX8	PX10
I/O CONNECTORS	ANALOG I/O	XLR-3-31 x2, 1/4 “PHONE(TRS) x2			
	DIGITAL I/O	-			
	SPEAKER OUTPUT	speakON NL4 x2, Binding post x2 pairs, 1/4” PHONE(TS) x2			
	NETWORK	-			
	CONTROL PORTS	-			
	OTHERS	USB 2.0 Standard-A Connector (Female) for Save/Load, Speaker preset update, Firmware update with USB memory; AC inlet x1 with AC cord clamp			
INDICATORS		POWER x1 (Green), ALERT x1 (Red), USB x1 (Green), PROTECT x2 (Red), CLIP/LIMIT x2 (Red), SIGNAL x2 (Green); Auto LED off feature			
DISPLAY		128 x 64 pixel, mono color with brightness adjustment, Auto display off feature			
OPERATING TEMPERATURE		0°C to +40°C			
POWER REQUIREMENTS		220 V-240 V 50 Hz/60 Hz			
POWER CONSUMPTION	1/8 POWER (PINK NOISE)	160 W (4 Ω)	230 W (4 Ω)	280 W (4 Ω)	310 W (4 Ω)
	IDLE	60 W			
	STAND BY	-			
DIMENSIONS (W X H X D)		480 x 88 x 388 mm (18.9 x 3.5 x 15.3 inches)			
NET WEIGTH		6.9 kg	6.9 kg	7.2 kg	7.4 kg
ACCESSORIES		USB cover, AC cable (2.0m) x 1			

POWER AMPLIFIERS



DIGITAL SIGNAL PROCESSORS

MORE THAN 40 YEARS OF DIGITAL SIGNAL PROCESSING

Yamaha's pioneering work in digital signal processing started in the early 1980s, with the launch of the D1500 and R1000 effects processors. Since then, over more than 40 years, product ranges such as the REV, SPX, DDL, DEQ, DMP, DME, AFC, MTX and MRX series have marked giant steps forward in digital signal processing. With the launch of the DME7 Signal Processor and the ProVisionaire suite of software-based system design and management software, an unprecedented standard of free format processing, controllability and integration is now available.

Designing and managing audio systems, no matter how small or large, complex and flexible, has never been so easy and cost effective.



MTX SERIES



MRX SERIES



DME SERIES



EX SERIES



WALL CONTROL PANELS



PGM/PGX PAGING STATION



DIGITAL SIGNAL PROCESSORS

MTX SERIES

FIXED CONFIGURATION PROCESSORS



THE HEART OF YOUR SOUND SOLUTION

Designed primarily for multi-zone commercial installations, **MTX SERIES** matrix processors are equipped with flexible processing functions that are essential to a wide variety of applications such as retail stores, restaurant/bars or banquet rooms. Responsible for the primary processing functions at the heart of your system's design, MTX processors allow you to configure, program, and manage your entire sound solution via the intuitive interface of the accompanying **PROVISIONAIRE DESIGN** software application. The series is comprised of two models with varying DSP capacities and expansion capabilities, allowing MTX processors to meet the demands of a truly impressive range of commercial environments.

KEY FEATURES

- FIXED CONFIGURATION FOR EASY AND QUICK SETUP
- EXPANDABLE AND SCALABLE
- SD CARD SLOT FOR PLAYBACK OF MP3/WAV FILES STORED ON AN SD MEMORY CARD
- AUTOMATIC MICROPHONE PROCESSING (FEEDBACK SUPPRESSOR, AUTO GAIN CONTROL, DUGAN AUTOMIXER, PRIORITY DUCKER)
- VARIOUS REMOTE-CONTROL OPTIONS (WALL MOUNT CONTROL PANELS, WIRELESS TOUCH PANELS, NETWORK, GPI)
- PROVISIONAIRE TOUCH / CONTROL / CLOUD / DESIGN ECOSYSTEM

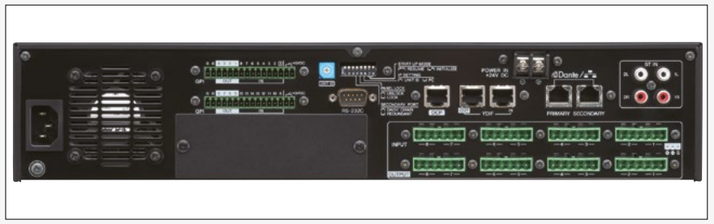
DETAILS



MTX3 REAR PANEL



SD CARD SLOT



MTX5-D REAR PANEL



MY-SLOT
(MTX5-D ONLY)

QUICK SPECIFICATIONS

	MTX3	MTX5-D
MATRIX INPUT CHANNELS	22 + 4Fx	30 + 4Fx
INPUT PROCESSING	14 Channels	22 Channels
MICROPHONE PROCESSING	4 Channels	8 Channels
MATRIX OUTPUT CHANNELS	8 Channels	16 Channels
OUTPUT PROCESSING	8 Channels	16 Channels
MIC/LINE INPUTS	8 Euroblock (balanced)	8 Euroblock (balanced)
STEREO INPUTS	2 RCA (unbalanced)	2 RCA (unbalanced)
SD CARD SLOT	1 Stereo	1 Stereo
ANALOGUE OUTPUTS	8 Euroblock (balanced)	8 Euroblock (balanced)
MY CARD SLOT	-	1 (16/16)
YDIF I/O INTERFACE	2 x RJ45 (16/16)	2 x RJ45 (16/16)
DANTE I/O INTERFACE	-	2 x RJ45 (16/16)
CONTROL	Ethernet, RS-232, GPI I/O(8/4), DCP	Ethernet, RS-232, GPI I/O(16/8), DCP

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 116

MRX7-D

CONFIGURABLE MATRIX PROCESSOR



CENTRAL MANAGEMENT OF MULTIPLE SOUND SYSTEMS FROM A SINGLE PROCESSOR

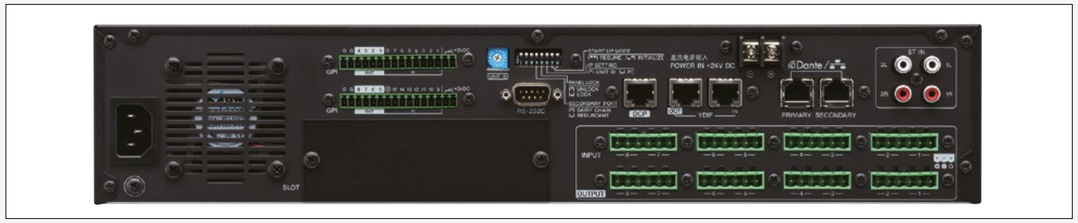
Sound system requirements for corporate conference rooms, educational facilities, shopping malls, and a variety of other environments are becoming increasingly large and complex. The MRX7-D offers outstanding control efficiency and flexibility for a broad spectrum of audio installations. Because the MRX7-D's design architecture is freely configurable, it allows an audio engineer to create a unique solution for the customer which can incorporate many unique processing components and maximize the use of available DSP. Having built in Dante connectivity, it also allows audio systems to take advantage of the many other Dante enable products on the market including Yamaha's wide range of Digital Mixers.

KEY FEATURES

- FREE CONFIGURABLE, EXPANDABLE AND SCALABLE DSP DESING FOR MAXIMUM FLEXIBILITY AND EFFICIENCY
- SD CARD SLOT FOR PLAYBACK OF MP3/WAV FILES STORED ON AN SD MEMORY CARD
- AUTOMATIC MICROPHONE PROCESSING (FEEDBACK SUPPRESSOR, AUTO GAIN CONTROL, DUGAN MIXER, PRIORITY DUCKER)
- ADVANCED DSP FEATURES (ACOUSTIC ECHO CANCELATION, SPEECH PRIVACY, DEALY MATRIX)
- VARIOUS REMOTE-CONTROL OPTIONS (WALL MOUNT CONTROL PANELS, WIRELESS TOUCH PANELS, NETWORK, GPI)
- PROVISIONAIRE TOUCH / CONTROL / CLOUD / DESIGN ECOSYSTEM



DETAILS



MRX7-D BACK PANEL



SD-CARD SLOT



MY-SLOT

QUICK SPECIFICATIONS

	MRX7D
MATRIX COMPONENT I/O SIZE	up to 64 / 64
INPUT PROCESSING	up to 110 Channels
MICROPHONE PROCESSING	up to 32 Channels
OUTPUT PROCESSING	up to 104 Channels
MIC/LINE INPUTS	8 Euroblock (balanced)
STEREO INPUTS	2 RCA (unbalanced)
SD CARD SLOT	1 Stereo
ANALOGUE OUTPUTS	8 Euroblock (balanced)
MY CARD SLOT	1 (16/16)
YDIF I/O INTERFACE	2 x RJ45 (16/16)
DANTE I/O INTERFACE	2 x RJ45 (64/64)
CONTROL	Ethernet, RS-232, GPI I/O(16/8), DCP

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 109

DME7

LARGE SCALE CONFIGURABLE AUDIO PROCESSOR



SIGNAL PROCESSOR DME7

The **DME7** is the large scale member of Yamaha's line-up of free configurable digital signal processors, supporting up to 256 inputs and outputs at 96kHz over Dante. Apart from the significantly larger processing power compared to the previous DME generation (DME64N), **DME7** is configured using the expanded ProVisionaire Design ecosystem that has been designed to handle large scale networked audio systems and improve programming workflow, including extensive control logic functionality. The **DME7** base unit 64/64 I/o capability and DSP power can be expanded in steps of 64 channels by a licensing system, allowing to tailor the system hardware cost to the application size.

ProVisionaire Control KIOSK

ProVisionaire Cloud

ProVisionaire Design

ProVisionaire Control

KEY FEATURES

- FREE CONFIGURABLE, EXPANDABLE AND SCALABLE DSP DESING FOR MAXIMUM FLEXIBILITY AND EFFICIENCY
- UP TO 256 / 256 I/O CAPABILITY @ 96KHZ, SUPPORTING TIO, RIO, RSIO AND RMIO DANTE I/O INTERFACES
- FREE PROGRAMMABLE LOGIC CONTROL OF AUDIO PARAMETERS
- ADVANCED DSP, INCLUDING FEEDBACK SUPPRESSOR, AUTO GAIN CONTROL, DUGAN MIXER, PRIORITY DUCKER, ACOUSTIC ECHO CANCELATION, DEALY MATRIX, REV-X, COMP260
- VARIOUS REMOTE-CONTROL OPTIONS (WALL MOUNT CONTROL PANELS, WIRELESS TOUCH PANELS, NETWORK, GPI)
- PROVISIONAIRE TOUCH / CONTROL / CLOUD / DESIGN ECOSYSTEM

DETAILS



FRONT PANEL



FRONT SD CARD SLOT



REAR PANEL



GPI, ETHERNET, USB INTERFACES

QUICK SPECIFICATIONS

	DME7 BASE UNIT	DEK-DME7X64 ESPANSION LICENSE		
		1	2	3
MATRIX COMPONENT I/O SIZE	64 / 64	128 / 128	196 / 196	256 / 256
INPUT/OUTPUT PROCESSING	64 / 64	128 / 128	196 / 196	256 / 256
SAMPLING RATES	44.1/48/88.2/96 kHz			
DANTE I/O INTERFACE	2 x RJ45 (64/64) (Expandable to 256/256)			
USB AUDIO I/O	USB 2.0 Type C (8/8) with SRC			
CONTROL	Ethernet (OSC), GPI I/O(16/8), DCP, MIDI			
PSU & FAN NOISE	Dual power supply, NC20			

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 109

EX SERIES

LOCAL RACK I/O FOR MTX/MRX SERIES



INPUT EXPANDER / OUTPUT EXPANDER FOR MTX/MRX SERIES PROCESSORS

EXI8 input expanders convert analog microphone/line audio to digital and transmits the signal using Yamaha's YDIF format. The EXi8's preamps can be controlled remotely from MTX/MRX series processor via Ethernet cable. **EXO8** output expanders feature 8 channels of DA converters that produce high quality analog audio by converting digital output from MTX/MRX series processors via YDIF.

KEY FEATURES

- **8 CHANNEL INPUT/OUTPUT EXPANDER**
- **ANALOG INPUT AND OUTPUT EXPANSION FOR MTX-MRX SYSTEMS VIA YDIF**
- **REMOTE CONTROL AND MONITORING VIA ETHERNET**

DETAILS



EXI8 REAR PANEL



EXO8 REAR PANEL

QUICK SPECIFICATIONS

	EXI8	EXO8
MIC/LINE INPUTS	8 Euroblock (balanced)	-
ANALOGUE OUTPUTS	-	8 Euroblock (balanced)
YDIF I/O INTERFACE	2 x RJ45 (16/16)	
CONTROL	Ethernet	

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 109

DCP/MCP SERIES

WALL CONTROL PANELS





WALL PANELS

DIGITAL CONTROL PANELS – DCP Series Digital Control Panel provide flexible external control of several functions such as preset recall, levels, and SD card playback. All three models are available in either US or EU standardized sizes, built to meet the specifications of most regions around the globe.

MCP1 PoE WALL MOUNT CONTROLLER - The Yamaha MCP1 is an advanced wall-mount control panel for controlling MTX and MRX systems. Its dot-matrix display and universal character facilitates dynamic labelling. Up to 36 parameters can be assigned to either the main Home page or any of the six sub pages. Any of these pages can be secured from unauthorized access by using a programmable PIN code. Up to 16 units of MCP1 can be added to an MTX/MRX system.

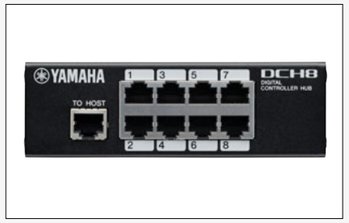
KEY FEATURES

- WALL MOUNT CONTROL PANELS FOR MTX-MRX SYSTEMS
- IN- AND ON-SURFACE MOUNTING, EU SIZE STANDARD BACK CAN COMPATIBLE
- FULLY CUSTOMIZABLE AND INDEPENDANT CONFIGURATION OF MULTIPLE CONTROLLERS
- DCP DAISY CHAINED CAT5 CABLING (OPTION: DCH8 FOR STAR CABLING)
- MCP1 REQUIRES POE POWER ADAPTOR OR SWITCH (E.G. SWR2100P-10G)

DETAILS



DCP4S, DCP4-VS & DCP1V4S EU SIZE DCP WALL PANELS



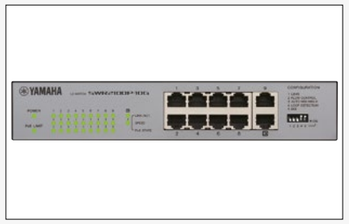
DCH8 - STAR CONNECTION HUB
FOR DCP WALL PANELS



MCP1



MCP1 BACK CAN REAR (INCLUDED)



SWR2100P-10G - POE SWITCH

QUICK SPECIFICATIONS

	DCP4S	DCP1V4S	DCP4V4S	MCP1
BUTTONS	4	4	4	6 + 1 Home + 1 Back
ROTARY SWITCHES	-	1	4	-
LEDS	4	11	32	6
LCD DISPLAY	-	-	-	X by Y pixels
MAXIMUM NR. OF UNITS	8 per Processor	8 per Processor	8 per Processor	16 per MTX-MRX System
CONTROL	DCP Bus (RS-485)	DCP Bus (RS-485)	DCP Bus (RS-485)	Ethernet
POWER	DCP Bus	DCP Bus	DCP Bus	PoE
ACCESSORIES	option: DCH8	option: DCH8	option: DCH8	included: back can
COMPATIBILITY	MTX3, MTX5D, MRX7D, DME7, MA2120, PA2120	MTX3, MTX5D, MRX7D, DME7, MA2030A, MA2120, PA2120	MTX3, MTX5D, MRX7D, DME7, MA2120, PA2120	MTX3, MTX5, MRX7D

DIGITAL SIGNAL PROCESSORS

PGM/PGX

PAGING STATION





PGM1 PAGING STATION MICROPHONE AND PGX1 PAGING STATION EXTENTION

The **PGM1** is a Dante enabled paging station microphone with 8 buttons for use with Yamaha MTX5-D and MRX7-D processors. By adding up to 2 PGX1 expansion units, the **PGM1** can be used to support up to 24 paging destinations. The microphone paging signal is available over the network through Dante.

KEY FEATURES

- AUDIO AND CONTROL VIA DANTE / ETHERNET
- POE POWERED
- 8 FUNCTIONAL KEYS
- UP TO 24 FUNCTIONAL KEYS WITH OPTIONAL PGX1
- GOOSENECK MICROPHONE INCLUDED

DETAILS



PGM1 - PAGING STATION MICROPHONE



PGX1 - PAGING STATION EXTENSION



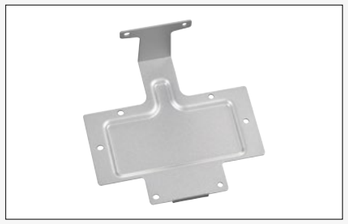
GOOSENECK MICROPHONE (INCLUDED IN PGM1)



PGM1 - REAR PANEL



PGM1 / PGX1 - BOTTOM PANEL



PGX1 + PGX1 CONNECTING BRACKET (INCLUDED IN PGX1)

QUICK SPECIFICATIONS

	PGM1	PGX1
FUNCTION KEYS	8	8
PUSH-TO-TALK KEY	1	-
MIC INPUT	1	-
DANTE I/O INTERFACE	0/1	-
POWER	PoE	-
INCLUDED ACCESSORIES	Gooseneck mic, zone label	connecting bracket, connection cable

SOFTWARE FOR PROCESSOR



PROVISIONAIRE DESIGN

PROVISIONAIRE DESIGN is a software application for Windows operating systems that allows comprehensive, intuitive design of sound systems that use compatible Yamaha products. Compatible with a wide range of Yamaha products including the DME7/MRX7-D*/MTX processors, XMV/PCD amplifiers, Rio/Tio interfaces, VXL-P speakers, ADECIA solutions, and more. ProVisionaire Design facilitates sound system design and setup by allowing flexible component layout, signal routing, and parameter editing in open-architecture processors such as the DME7 and MRX7-D. It also provides a comprehensive overview of components and signal routing in MTX series fixed-architecture processors. A wide range of high-quality audio components that only a leader in the field of professional sound reproduction can provided include Rev-X for refined reverb, and the Dugan Auto Mixer for flawless automated mixing. ProVisionaire Design can be used in conjunction with the ProVisionaire Control computer applications for comprehensive control of any project, from system design and setup to everyday operation and management.

PROVISIONAIRE CONTROL AND PROVISIONAIRE TOUCH

PROVISIONAIRE CONTROL and **PROVISIONAIRE TOUCH** are software applications that provide unified remote control and monitoring of the entire systems. ProVisionaire Control supports Windows devices, and ProVisionaire Touch supports the iPad. A broad range of devices are supported, including MTX/MRX processors, CL/QL/TF digital mixers, Rio I/O units, XMV power amplifiers, DZR and DXS-XLF powered speakers and NEXO NXAMPMK2 powered TD controllers. Custom control panels can be created by assigning necessary parameters to a single display page. ProVisionaire Control includes the ProVisionaire Monitoring Service, making it easy to monitor the status of system devices while alerts and other log data can be recorded to a computer.

PROVISONARE CLOUD

PROVISIONAIRE CLOUD is a cloud service that allows management of Yamaha pro and commercial audio device licenses. ProVisionaire Cloud services are available to corporations and independent operators who have created a Yamaha Music ID for Business account. Expanded function licenses for devices can be activated by registering the license on ProVisionaire Cloud and using the dedicated ProVisionaire Portal license activation application. Licenses can be freely activated and deactivated according to the user's needs.

WIRELESS DCP

WIRELESS DCP is an application for Android and Apple iOS devices that provides remote control of Yamaha MTX series Matrix Processors and MRX7-D Signal Processor. The application provides simple, intuitive graphical templates, which allow users, such as venue staff to control functions of the MTX/MRX processor.

KEY FEATURES

- **FULL SYSTEM CONFIGURATION WITH MTX AND DME SERIES (PROVISIONAIRE DESIGN) AND MRX SERIES (MTX-MRX EDITOR)**
- **ONLINE AND OFFLINE EDITING OF ALL PARAMETERS**
- **PROVISIONAIRE TOUCH / CONTROL / CLOUD / DESIGN ECOSYSTEM**
- **EASY CONTROL WITH BYO DEVICES USING WIRELESS DCP FOR iOS AND ANDROID**
- **LICENSE MANAGEMENT FOR HARDWARE ADDITIONAL FUNCTIONS (PROVISIONAIRE CLOUD)**



PROVISIONAIRE SOFTWARE SUITE



MTX-MRX EDITOR



PRO VISIONAIRE TOUCH



PROVISIONAIRE CONTROL



WIRELESS DCP

QUICK SPECIFICATIONS

	PROVISIONAIRE DESIGN	PROVISIONAIRE CONTROL	PROVISIONAIRE TOUCH	WIRELESS DCP	PROVISIONAIRE CLOUD
OPERATING SYSTEM	Windows 10/11	Windows 10/11	iPad OS 11.0 or later	iOS 5.1.1 or Android 4.2	Windows 10/11
DSP DESIGN	MTX, MRX, DME7	-	-	-	DME7
GUI DESIGN		free	free	fixed templates	
SYSTEM REQUIREMENTS	Core i3/5 or better, 4GB or more, 230 MB or more free	Intel Atom or better, 2GB or more, 300MB or more free	iPad with 74,5MB free space	Apple iOS device with 17,2MB free space or Android device with 10MB free space	
MAX NUMBER OF CLIENTS	8	8	8	8	-

PRODUCT / SOFTWARE COMPATIBILITY

	PROVISION-AIRE DESIGN	MTX-MRX EDI-TOR	PROVISION-AIRE CONTROL	PROVISION-AIRE TOUCH	WIRELESS DCP	PROVISION-AIRE CLOUD
PROCESSORS MRX, MTX, DME7	yes*	yes	yes	yes	yes	DME7
POWER AMPLIFIERS: XMV, PC-D	yes	yes	yes	yes	-	-
NETWORKED MIXERS: QL, CL, RIVAGE PM	-	-	yes	yes	-	-
POWERED SPEAKERS: DZR, DCX-XLF	-	-	yes	yes	-	-
I/O UNITS: EXI/O, R SERIES	yes	yes	yes	yes	-	-
AV COMPONENTS: MUSICCAST, BLUE-RAY	-	-	-	yes	-	-
DISCLAVIER ENSPIRE	-	-	-	yes	-	-

* PROVISIONAIRE DESIGN support for MRX7-D in fall 2023

* MRX7-D support scheduled for fall of 2023, until release MTX-MRX Editor can be used to configure the MRX7-D

SPECIFICATIONS DSP & I/O RACK

			MATRIX PROCESSORS		I/O RACK	
			MTX3	MTX5-D	EXi8	EXo8
DSP FUNCTIONS	MIXING CHANNELS		Mixing Channel: 8 Mono + 3 Stereo + 2 Effect Return + 8 Direct-in to Matrix/ Output Busses: 8 Mono	Mixing Channel: 16 Mono + 3 Stereo + 2 Effect Return + 8 Direct-in to Matrix/ Output Busses: 16 Mono	-	
	INPUT CHANNEL		Mono CH: 3-band PEQ, Comp, Gate, Auto Gain Control, Feedback suppressor and Dugan Automixer (only available in ch 1-4)/ Stereo CH: 3-band PEQ, Comp, Auto Gain Control	Mono CH: 3-band PEQ, Comp, Gate, Auto Gain Control, Feedback suppressor (available in ch 1-8)/ Stereo CH: 3-band PEQ, Comp, Auto Gain Control	-	
	OUTPUT CHANNEL		Room Delay, Room EQ, Speaker Processor, X-Over (1way, 2way), Delay, 6-band PEQ, Limiter		-	
	INTERNAL PROCESSING		Priority Ducking, Ambient Noise Compensator, 2x FX-Busses (Echo, Reverb)		-	
	PRESETS		50		-	
I/O CHANNELS	ANALOGUE I/O		8 mic/line + 2 stereo line / 8 line		8 mic/line / -	- / 8 line
	YDIF I/O		16 / 16		- / 8	8 / -
	DANTE I/O		-	16 / 16	-	
	USB I/O		-	-	-	
	MY SLOT		-	16 / 16	-	
CONNECTORS	AUDIO	ANALOG I/O	16x Euroblock (balanced), 4x RCA (ST IN 1,2)		8x Euroblock (balanced)	
		YDIF I/O	RJ45 x 2 ([YDIF] IN/OUT)		RJ45 x 2 ([YDIF] IN/OUT)	
		DANTE I/O	-	RJ45 x 2 (Dante [PRIMARY]/SECONDARY])	-	
		USB I/O	-	-		
		SD CARD	-	-		
	CONTROL	NETWORK	RJ45 x 1	Shared with Dante ports	RJ45 x 1	
		SERIAL	D-sub 9 (RS-232)		-	
		GPI	8 IN (0-5 V), 4 OUT (Open Collector), +5 V	8 IN (0-5 V), 8 OUT (Open Collector), +5 V	-	
		DCP	RJ45 (max 8 DCP panels)		-	
		MIDI	-			
ANALOG INPUT SPECIFICATIONS	PHANTOM POWER		+48 V		+48 V	-
	INPUT GAIN	INPUT 1-8	+66 dB to -6 dB		+66 dB to -6 dB	-
		ST IN 1,2	-		-	
	INPUT LOAD IMPEDANCE		10 kΩ		10 kΩ	-
	INPUT LEVEL NOMINAL	INPUT 1-8	-62 dBu (Gain: +66 dB), +10 dBu (Gain: -6 dB)		-62 dBu (Gain: +66 dB), +10 dBu (Gain: -6 dB)	-
		ST IN 1,2	-10dBV		-10 dBV	-
	MAX INPUT LEVEL BEFORE CLIP	INPUT 1-8	-42 dBu (Gain: + 66dB), +30 dBu (Gain: -6 dB)		-42 dBu (Gain: +66 dB), +30 dBu (Gain: -6 dB)	-
		ST IN 1,2	+10 dBV		+10 dBV	-
ANALOG OUTPUT SPECIFICATIONS	OUTPUT SOURCE IMPEDANCE		75 Ω		-	75 Ω
	OUTPUT LEVEL NOMINAL		+4 dBu		-	+4 dBu
	MAX OUTPUT LEVEL BEFORE CLIP		+24 dBu		-	+24 dBu
AUDIO SYSTEM SPECIFICATIONS	SAMPLING FREQUENCY RATE		48 kHz/ 44.1 kHz		48 kHz/ 44.1 kHz	
	A/D D/A CONVERTERS		24-bit linear, 128 times over sampling		24-bit linear, 128 times over sampling	
	SIGNAL DELAY		< 2.5 ms (AD-DA @48 kHz)	< 3.0 ms (AD-DA @48 kHz)	< 2.5 ms (AD-DA @48 kHz)	
	TOTAL HARMONIC DISTORTION		< 0.05 % (+4 dBu, Gain:-6 dB), < 0.1% (+4 dBu, Gain:+66 dB)		< 0.05 % (+4 dBu, Gain:-6 dB), < 0.1% (+4 dBu, Gain:+66 dB)	
	FREQUENCY RESPONSE		20 Hz to 20 kHz, +0.5 dB, -1.5 dB		20 Hz to 20 kHz, +0.5 dB, -1.5 dB	
	DYNAMIC RANGE		107 dB (Gain: -6 dB)		107 dB (Gain:-6 dB)	
	HUM & NOISE LEVEL	EQUIVALENT INPUT NOISE	-60 dBu (Gain: +66 dB), -83 dBu (Gain: -6 dB)		-126 dBu (Gain: +66 dB)	
	CROSSTALK		-100 dB		-100 dB	
GENERAL	SWITCHES		3 preset (up, down, enter), Power ON/OFF		Power ON/OFF	
	SIGNAL & STATUS INDICATORS		30 Leds	33 Leds	20 Leds	
	DISPLAY		2x 7-Segment Led		-	
	HEAT DISSIPATION		< 43 kcal/h	< 55.9 kcal/h	21.5 kcal/h max	
	NC VALUE		27	23	22	24
	POWER	REQUIREMENTS	AC 100 V - 240 V 50 Hz / 60 Hz		AC100 V-240 V 50 Hz/60 Hz	
		CONSUMPTION	50 W	65 W	25 W	
	DIMENSIONS	W X H X D	480 x 44 x 362 mm	480 x 88 x 351 mm	480 x 44 x 351 mm	
	NET WEIGHT		4.8 kg	6.3 kg	4.3 kg	
	INCLUDED ACCESSORIES		Power cord, Euroblock plugs (3-pin, tabbed) x16, Euroblock plugs (16-pin) x1, Cable Ties, Manual		Power cord, Euroblock plugs (3-pin, tabbed) x8	

		MRX7-D	DME7
DSP FUNCTIONS	MIXING CHANNELS	free configurable	
	INPUT CHANNEL	free configurable	
	OUTPUT CHANNEL	free configurable	
	INTERNAL PROCESSING	PEQ, GEQ, BPF, LPF, HPF, Comp, Gate, Limiter, Auto Gain Control, Feedback suppressor (Noth, Pitch), Dugan Automixer, Delay, Priority Ducking, Paging Ducker, Ambient Noise Compensator, Paging, Effect (Echo, Reverb), AEC, Speech Privacy	PEQ, GEQ, BPF, LPF, HPF, Comp, Comp260, Gate, Limiter, Auto Gain Control, Feedback suppressor (Noth, Pitch), Dugan Automixer, Delay, Priority Ducking, Paging Ducker, Ambient Noise Compensator, Paging, REV-X, AEC,
	PRESETS	50	999
I/O CHANNELS	ANALOGUE I/O	8 mic/line + 2 stereo line / 8 line	-
	YDIF I/O	16 / 16	-
	DANTE I/O	64 / 64	64 / 64 - 256 / 256 (license based)
	USB I/O	-	8/8 with SRC
	MY SLOT	16/16	-
CONNECTORS	AUDIO	ANALOG I/O	16x Euroblock (balanced), 4x RCA (ST IN 1,2)	-
		YDIF I/O	RJ45 x 2 ([YDIF] IN/OUT)	-
		DANTE I/O	RJ45 x 2 (Dante [PRIMARY]/[SECONDARY])	RJ45 x 2 (Dante [PRIMARY]/[SECONDARY])
		USB I/O	-	USB-C x 1
		SD CARD	SD card	SD card
	CONTROL	NETWORK	Shared with Dante ports	RJ45 x 1
		SERIAL	D-sub 9 (RS-232)	-
		GPI	8 IN (0-5 V), 8 OUT (Open Collector), +5 V	16 IN (0-5 V), 8 OUT (Open Collector), +5 V
		DCP	RJ45 (max 8 DCP panels)	RJ45 (max 8 DCP panels)
		MIDI	-	In, Out
ANALOG INPUT SPECIFICATIONS	PHANTOM POWER		+48 V	-
	INPUT GAIN	INPUT 1-8	+66 dB to -6 dB	-
		ST IN 1,2	-	-
	INPUT LOAD IMPEDANCE		10 kΩ	-
	INPUT LEVEL NOMINAL	INPUT 1-8	-62 dBu (Gain: +66 dB), +10 dBu (Gain: -6 dB)	-
		ST IN 1,2	-10dBV	-
	MAX INPUT LEVEL BEFORE CLIP	INPUT 1-8	-42 dBu (Gain: + 66dB), +30 dBu (Gain: -6 dB)	-
		ST IN 1,2	+10 dBV	-
ANALOG OUTPUT SPECIFICATIONS	OUTPUT SOURCE IMPEDANCE		75 Ω	-
	OUTPUT LEVEL NOMINAL		+4 dBu	-
	MAX OUTPUT LEVEL BEFORE CLIP		+24 dBu	-
AUDIO SYSTEM SPECIFICATIONS	SAMPLING FREQUENCY RATE		48 kHz/ 44.1 kHz	44.1 khz - 96 kHz
	A/D D/A CONVERTERS		24-bit linear, 128 times over sampling	-
	SIGNAL DELAY		1.9 ms (AD-DA @48 kHz)	1 ms @ 96kHz
	TOTAL HARMONIC DISTORTION		< 0.05 % (+4 dBu, Gain:-6 dB), < 0.1% (+4 dBu, Gain:+66 dB)	-
	FREQUENCY RESPONSE		20 Hz to 20 kHz, +0.5 dB, -1.5 dB	-
	DYNAMIC RANGE		107 dB (Gain:-6 dB)	-
	HUM & NOISE LEVEL	EQUIVALENT INPUT NOISE	-60 dBu (Gain: +66 dB), -83 dBu (Gain: -6 dB)	-
	CROSSTALK		-100 dB	-
GENERAL	SWITCHES		3 preset (up, down, enter), Power ON/OFF	3 preset (up, down, enter), rotary
	SIGNAL & STATUS INDICATORS		33 Leds	2 leds
	DISPLAY		2x 7-Segment Led	128x64 dots, monochrome display
	HEAT DISSIPATION		< 55.9 kcal/h	< 86.2kcal/h
	NC VALUE		23	20
	POWER	REQUIREMENTS	AC 100 V - 240 V 50 Hz / 60 Hz	dual PSU, AC 100 V - 240 V 50 Hz / 60 Hz
		CONSUMPTION	65 W	100W
	DIMENSIONS	W X H X D	480 x 88 x 360 mm	480 x 132 x 363 mm
	NET WEIGHT		6.5 kg	9.5 kg
	INCLUDED ACCESSORIES		Power cord, Euroblock plugs (3-pin, tabbed) x16, Euroblock plugs (16-pin) x1, Cable Ties, Manual	

DIGITAL SIGNAL PROCESSORS

ACTIVE FIELD CONTROL

IN 1985 YAMAHA INTRODUCED ACTIVE FIELD CONTROL, OR AFC, A PIONEERING ACOUSTIC REGENERATION, IMMERSIVE AUDIO SYSTEM. Harnessing many decades of experience in manufacturing musical instruments, professional audio products and designing numerous performance spaces, AFC took Yamaha's unique insights into the behaviour of sound to create a system which could completely change the acoustics of a space at the touch of a button, even in an outdoor or roofless venue.

AFC uses optimally placed microphones and loudspeakers with powerful digital signal processing (DSP). The latest version, AFC Enhance, features the very latest DSP processing and hardware to create the most natural, pleasing sound, even in very difficult acoustic environments. The sound of a single space can be optimised for many different uses, giving both audiences and performers alike the best experience.

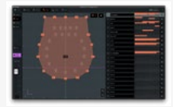
But that's not all. AFC Image is a software system which harnesses the power of an AFC Enhance system to position perceived audio sources in three dimensions. With live control from a variety of interfaces, AFC Image adds a new dimension to almost any performance.



ACTIVE FIELD CONTROL



AFC ENHANCE



AFC IMAGE



PRE PRODUCTION



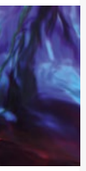
LIVE PRODUCTION



SYSTEM DESIGN



ENGINEERING SUPPORT



ACTIVE FIELD CONTROL

ACTIVE FIELD CONTROL



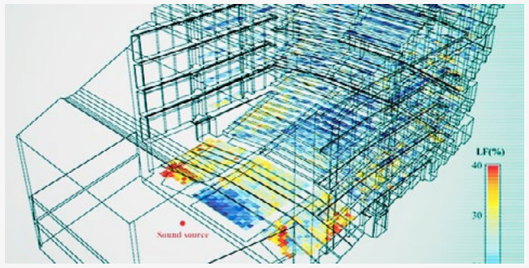
AFC PROCESSING COMPUTER
FRONT PANEL



AFC PROCESSING COMPUTER
REAR PANEL

Active Field Control, or AFC, was brought to the market in 1985 as a collaboration between Yamaha's digital signal processing (DSP) and acoustic consultancy design teams. Since then it has evolved continually to arrive at today's fourth generation AFC system. The system operates with all Yamaha and NEXO loudspeakers, as well as networked i/o components such as microphone pre-amplifiers, power amplifiers, matrix processors, i/o bridges and Dante-optimized managed Ethernet switches, all capable of being controlled and monitored through Yamaha's ProVisionaire audio system management software suite.

AFC systems are based on the AFC processing computer running two software packages simultaniously: AFC Enhance for acoustic enhancement of the performance space, and AFC Image for immersive object based panning. Additionally, AFC Image can be controlled by a wide range of user intrefaces, ranging from networked mixing consoles to tailor made OSC applications.



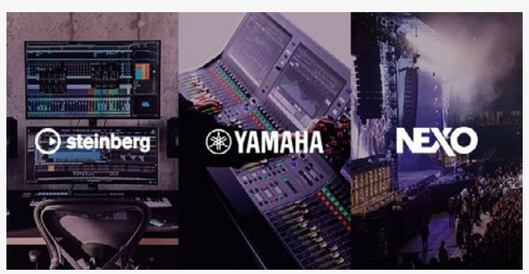
ACOUSTIC DESIGN EXPERTISE

Since 1969, Yamaha has been involved in acoustic research aimed at finding the ideal relationship between performer, audience and space. A deep understanding of acoustic technology, encompassing architectural acoustics, electronic acoustics and noise control, provides the basis for technology that allows us to turn an acoustically dead environment into a reverberant cavern or cathedral at the touch of a button and easily move sound effects to any position in an acoustic space. The experience is further reinforced by an original 3D reverberation system that generates reverb optimized for the locations of individual objects, resulting in astonishing presence and realism.



FLEXIBILITY AND SCALABILITY

Every customer has different needs, so the ability to create systems that can adapt to any application is essential. That flexibility is the core of the AFC system, allowing easy integration of DAWs, mixers, tracking systems and other third-party hardware and software. AFC offers versatile ambience control, precise acoustic image control, 3D reverberation, space, binaural output and more.



THE POWER OF COLLABORATION

AFC's continued development and growth hinges on high-level input and support from Yamaha Group experts, including those from Steinberg and NEXO. This alliance enables close collaboration between experts from a variety of related fields, driving innovation and development that keeps AFC and other technologies way ahead of the curve.



ACTIVE FIELD CONTROL

AFC ENHANCE



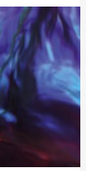
AFC ENHANCE IMPROVES THE ACOUSTIC ENVIRONMENT, VIA MULTIPLE MICROPHONES AND LOUDSPEAKERS STRATEGICALLY LOCATED THROUGHOUT THE SPACE. THIS TYPE OF SYSTEM GENERALLY EMPLOYS ONE OF THE TWO FOLLOWING METHODS:

- The in-line approach uses convolution signal processing to add synthesized reflected sound data (measured impulse responses) to the sound, picked up via the microphones and creating the desired sonic environment.
- The regenerative approach uses acoustic feedback, reproducing the sound picked up by the microphones via the loudspeakers and then picking up that sound again after being affected by the room's acoustics. This creates an acoustic 'loop' that amplifies the room's acoustic energy.

AFC ENHANCE is a hybrid system that employs both of these methods, via the AFC Enhance software application running on an AFC processing computer. Reverberation and early reflections have a profound influence on the auditory impression. Detailed control of these allows the sound propagating throughout the space to be adjusted as required, while retaining the natural acoustic properties of the room's structure. AFC has been applied in over 150 concert halls, opera houses, theatres, multi-purpose halls and auditoriums all over the world. Three **AFC ENHANCE** software applications are available: AFC402 for basic enhancement, AFC404 for multi-area enhancement and AFC406 for complex, multi-area support.

KEY FEATURES

- **HYBRID REGENERATIVE ACOUSTIC ENHANCEMENT**
- **NATURAL RESPONSE**
- **REVERBERATION & EARLY REFLECTION SUBSYSTEMS**
- **STAGE SUPPORT / ELECTRONIC STAGE SHELL**
- **UNDER-BALCONY SUPPORT**
- **EASY USER CONTROL THROUGH WALL PANELS AND WIRELESS TABLET**



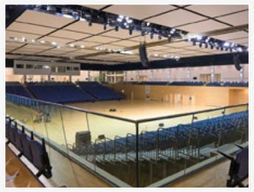
REFERENCES



MINSK MAZOWIECKI



SINGAPORE



QATAR



TOKYO



WARSAW



STOCKHOLM



HALMSTAD



KYOTO



HOUSTON



NEW YORK



SZCZECIN



OSLO

QUICK SPECIFICATIONS

	AFC402	AFC404	AFC406
ENHANCEMENT MODES	HYBRID REGENERATIVE IN-LINE		
ENHANCEMENT SCOPE	BASIC	MULTI-AREA	COMPLEX
EQUIVAENT NR. OF CHANNELS	16	32	48
MAX NR. OF SPEAKERS	96		
INCLUDED SUPPORT FOR AFC IMAGE	16 OBJECTS		
SAMPLE FREQUENCY	UP TO 96KHZ		

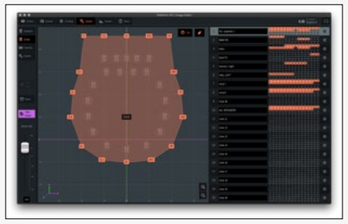
ACTIVE FIELD CONTROL

AFC IMAGE

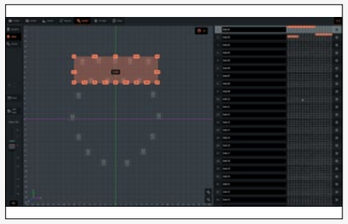


AFC Image is an immersive system that allows users to control the perceived positions of acoustic images within a space, including the rendering of 3-D reverberation and binaural monitoring. The system uses an AFC processing computer, AFC Image object-based rendering software and pre-production digital audio workstations. Multiple, simultaneous live immersive control is provided by computers, tablets, mixing consoles and tracking systems. The resulting sound image can be played back to an audience via loudspeakers. AFC Image provides content creation support for theater, opera, concert, installation, event and other applications.

AFC Image is a software application which runs on the AFC processing computer in parallel with the AFC Enhance application. These two applications go together: AFC Enhance creates the perfect acoustic environment for AFC Image to work at its best. This is why, even for systems dedicated only to acoustic enhancement, a limited version of AFC Image is included as a standard and systems dedicated to object-based audio include a basic version of AFC Image.



RENDERING AREA CONVERSION
For object-based rendering, the user can convert the rectangular daw or console panning/rendering area to any geometric configuration from a basic cube to a 16-sided polygon, within which objects can be positioned. three layers are available with heights that can be individually defined by the user.



SPEAKER ZONING
Speaker zoning allows audio objects to be assigned to specific sets of speakers within the system. afc image allows up to 32 speaker zones to be defined for precise yet flexible control of perceived object positioning.



BINAURAL OUTPUT
Immersive sound can be experienced in headphones too, so afc image provides the necessary binaural rendering tools. immersive content can be output in two-channel binaural form for monitoring and for streaming to remote locations.



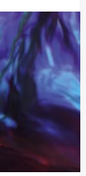
OBJECTS & CHANNELS
object-based audio is extremely versatile and controllable. while in some situations a channel-based workflow may be a practical approach. afc image simultaneously supports both object and channel-based audio, giving creators the best of both worlds. processing a combination of up to 128 objects provides ample capacity for the most demanding productions, while zoning provides versatile support for channel-based production. it also supports any 3rd party immersive renderer to give transparent and/or zoned access to all system channels.



3D REVERB
in a real acoustic space, perceived reverberation varies with the listening position. a knowledge base built up over years of designing theaters and halls has allowed yamaha to develop original 3d reverberation technology that creates reverb optimized for the locations of individual objects, resulting in a deeper, more realistic sound field. the direction and spread of the reverberation can be freely controlled via an intuitive graphic interface.

KEY FEATURES

- 128 OBJECTS
- RUNS IN PARRALLEL TO AFC ENHANCE ON THE SAME PROCESSING COMPUTER
- QL, CL AND RIVAGE PM MIXER LIVE PRODUCTION
- NUENDO PRE PRODUCTION
- AFC EDITOR, WEBSERVER GUI
- 96 CHANNELS AUX INPUT FOR EXTERNAL IMMERSIVE SYSTEMS



QUICK SPECIFICATIONS

	AFC IMAGE
NR. OF OBJECTS	128
NR. OF OUTPUT CHANNELS	64
NR. OF AUX INPUTS	96
REVERBERATION	3D
MONITORING	BINAURAL
USER INTERFACES	AFC Editor, web server, QL/CL/Rivage PM mixing consoles, Stage trackers, OSC GUI

ACTIVE FIELD CONTROL

IMMERSIVE PRE PRODUCTION



NUENDO DIGITAL AUDIO WORKSTATION

As the most advanced audio post-production solution available, Nuendo is the choice of film, TV, game audio, music and immersive sound industry professionals worldwide. Ever since its initial release, Nuendo has been a vital tool in creating the soundtrack to many high-profile productions, products and installations. Regular updates with new features, workflow improvements and additional, user-requested functions mean that Nuendo constantly exceeds the expectations of an audio workstation dedicated to audio post, with high end — often unique — capabilities that continue an ongoing revolution in audio and media production software.

VST MultiPanner is Nuendo's immersive-sound panning system providing full support for surround formats up to 22.2 as well as Auro 3D and Dolby Atmos, which enables sound to move in a three-dimensional space. The VST MultiPanner provides a 2D-Top View and a 3D-Rear View, displaying the audio sources, which can be linked together or can be grabbed individually to perform several movements including signal rotation, such as tilt or rotate. To easily create bottom-top pan movements, several elevation patterns are on hand.

KEY FEATURES

- **VST MULTIPANNER IMMERSIVE SOUND PANNING SYSTEM INCLUDING SUPPORT FOR AFC IMAGE, DOLBY ATMOS, AURO 3-D AND AMBISONICS**
- **SUPERIOR AUTOMATION SYSTEM PLUS NETWORKING CAPABILITIES MIXED CHANNEL AND OBJECT BASED WORKFLOW WITH ADM IMPORT**
- **SUPPORTS LAPTOPS AS WELL AS FULL INTEGRATION WITH THE YAMAHA NUAGE POST-PRODUCTION SYSTEM, NUENDO SYNCSTATION AND EUCON SUPPORT**
- **INTEGRATED VR WORKFLOWS, SUPPOIRTING DEARVR SPATIAL CONNECT, FACEBOOK360, OCULUS RIFT, HTC VIVE AND MORE**





CREATIVE ENVIRONMENT

VST A Nuendo system can comprise a simple laprop running Nuendo and Dante Virtual Soundcard for a total of 64 objects to work stand-alone in a surround studio monitoring enviroment or integrate with the AFC Image application, all the way up to a fully networked integrated studio enviromnent with up to 128 objects, tactile control surfaces and a broad range of other immersive production tools.

VST MULTIPANNER

VST MultiPanner is Nuendo's immersive-sound panning system providing full support for surround formats up to 22.2 as well as AFC Image, Auro 3D and Dolby Atmos, which enables sound to move in a three-dimensional space. The VST MultiPanner provides a 2D-Top View and a 3D-Rear View, displaying the audio sources, which can be linked together or can be grabbed individually to perform several movements including signal rotation, such as tilt or rotate. To easily create bottom-top pan movements, several elevation patterns are on hand.



QUICK SPECIFICATIONS

	NUENDO 11
MAXIMUM NR. OF TRACKS	unlimited (depends on system configuration)
MAXIMUM NR. OF OBJECTS	With Dante Virtual Soundcard: 64 objects, with AIC128-D PCI Express card: 128 objects
IMMERSIVE PRODUCTION TOOL	VST MultiPanner Immersive Sound Panning System
WORKFLOW	Project & on tour: laptop. Studio: full system integration with nuage production system and networked studio environment
OBJECT BASED SUPPORT	AFC Image, Dolby Atmos, AUro 3-D, Ambisonics
CHANNEL BASED SUPPORT	5.1 up to 22.2
RECOMMENDED PC REQUIREMENT	Intel i7 or faster, 16GB RAM
OS SUPPORT	Windows 10, MacOS

ACTIVE FIELD CONTROL

YAMAHA

IMMERSIVE LIVE PRODUCTION



The **AFC IMAGE** functionality can be controlled simultaniously by a wide range of user interfaces, including AFC Editor software for Windows10 and MacOS, tablets and computers via the AFC processing computer's built in web server, QL/CL/ RIVAGE PM mixing consoles, the Nuendo Digital Audio Workstation, and tracking systems such as TTA STage Tracker. All these immersive live production tools are designed to give quick and intuitive control over sound object positions through already familiar user interfaces and workflows, so almost no learning curve is needed. In addition, Open Sound Control can be used to add tailor made user interface applications on software platforms such as Lemure, Touch OSC and MAX.



AFC IMAGE EDITOR
AFC image editor software is available for windows and macos, offering system configuration (loudspeaker placement, venue shape, zoning) and live control (object panning, 3d reverb editing, binaural).



WEB SERVER
all live control functions of afc image editor can also be controlled through multiple devices, such as tablets and pcs through a web browser, by selecting the afc unit's ip address.



MIXING CONSOLES
QL, CL and RIVAGE PM consoles can be used to control AFC image object positioning.



TRACKING SYSTEMS
to automate the object positioning of actors on stage, tracking systems such as stagetracker ii can be applied.



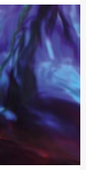
OPEN SOUND CONTROL
AFC image objects can be controlled by any product or software application using the open sound control protocol. examples are touch osc, max, lemur.



NUENDO
Nuendo's VST multipanner can control AFC image object positioning, recorded manually or through interactive live control.

KEY FEATURES

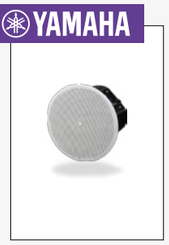
- AFC IMAGE EDITOR (WIN10, MACOS)
- WEB SERVER (LAPTOP, TABLET)
- QL, CL AND RIVAGE PM MIXING CONSOLES
- NUENDO
- STAGE TRACKERS
- OPEN SOUND CONTROL



ACTIVE FIELD CONTROL

SYSTEM DESIGN

YAMAHA


VXC SERIES


VXS SERIES


VXL SERIES


CZR/DRZ SERIES


DXR SERIES


CBR/DBR SERIES

NEXO









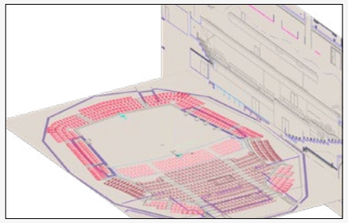


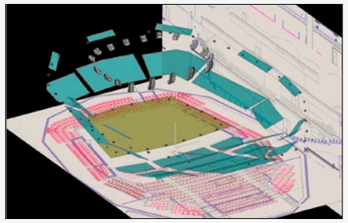
NEXO'S NS-1 immersive configuration software fully supports AFC system design with an intuitive drag and drop user interface. Measured speaker data is processed along with complex mathematical data to predict SPL coverage and immersive support in three dimensions.

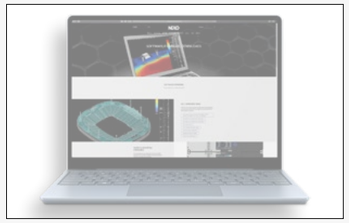
The NS-1 workflow is fast and intuitive. First generate venue graphics from scratch, or import them from EASE, Google Earth, SketchUp 3D, Collada, STL, JPG or PDF. Then add audience frames and speaker layout, selecting speakers from the complete **NEXO** loudspeaker ranges. Run SPL and immersive support simulations for iterative design and reporting.

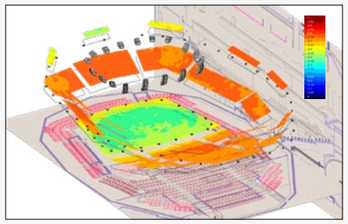
KEY FEATURES

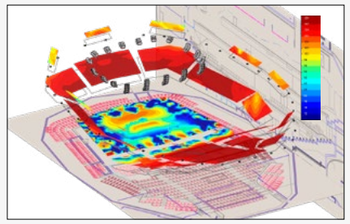
- IMMERSIVE CONFIGURATION SOFTWARE FOR AFC IMAGE SYSTEMS
- SPL AND IMMERSIVE SYSTEM SUPPORT SIMULATIONS
- SUPPORTS FULL YAMAHA AND NEXO LOUDSPEAKER RANGES
- EXPORT LOUDSPEAKER POSITIONS AND PROPERTIES FOR IMMERSIVE SYSTEMS
- QUICK VENUE DRAWING & IMPORT TOOLS


IMPORT VENUE GRAPHICS


AUDIENCE PLANES & SPEAKER LAYOUT


NS-1
IMMERSIVE CONFIGURATION SOFTWARE


SPL SIMULATION


IMMERSIVE SUPPORT SIMULATION

QUICK SPECIFICATIONS

	FEATURES
PROJECT FILE	speaker systems, venue items and simulated SPL and ISI contours
IMPORT VENUE FORMATS	NEXO Venue (.nxv), Collada/Sketchup (.dae), 3D Systems (.stl), Google Earth (.kmz), Ease Audience/ Face (.xar, .xfc), plain text (.txt).
EXPORT VENUE FORMATS	Venue (.nxv), Ease Face (.xfc), or image, speaker positions (.csv)
SPL SIMULATION	ISO frequency bands or broadband (Z, dB A, B, C or dB MIF), with user defined resolution, band-width, and SPL range (optional headroom).
SUPPORTED SPEAKER SYSTEMS - NEXO	Geo M, ID, P+, ePS, STM series
OPERATING SYSTEM	Windows 10



ENGINEERING SUPPORT

AFC SYSTEM ENGINEERING GROUP

AFC installations require specialized system engineering for the design and tuning of the immersive loudspeaker system. To support this, Yamaha Music Europe and NEXO have appointed a team of experienced engineers with backgrounds in acoustics and electro-acoustics, and a track record of design and tuning immersive sound reinforcement systems to support system integrators, sound designers and sound engineers in Europe.


RON BAKKER, BSC.


MACIEJ BLACHNIO, MSC.


CAROLE MARSAUD, MSC.


FRANCOIS DEFFARGES, MSC.


GERRIT CARSTENS, MSC.


WOUTER VERKUIJL, MSC.


NICOLAS POITRENAUD, MSC.


CHRISTOPHE GIRRES, BSC.

AFC IMAGE AUDIOVERSITY

A series of single-day AVIXA RU-rated Audioversity training seminars will be offered throughout Europe, introducing AFC Enhance and AFC Image technologies and operation. Additonally, a series of in-depth training sessions on the topic of immersive electro-acoustic design and simulation, audio and control networking and immersive mixing will be offered, leading to an AFC Image Certified Engineer certificate. Please check our web site for announcements, or send us an email.

KEY FEATURES

- YAMAHA / NEXO EUROPEAN ELECTRO-ACOUSTIC ENGINEERING TEAM
- CTS AND DANTE L3 CERTIFIED
- ENGINEERING SUPPORT FOR AFC ENHANCE AND AFC IMAGE SYSTEM DESIGN
- SUPPORTING ANSI-INFOCOMM 2M-2010 AND 10:2013 PROCESS & VERIFICATION STANDARDS
- AFC ENHANCE TUNING (INCLUDED WITH AFC ENHANCE)
- AFC IMAGE AUDIOVERSITY (CERTIFIED AFC IMAGE ENGINEER)

AFC ENHANCE PROJECT SUPPORT

For all AFC Enhance systems, design and construction phase support, as well as full tuning support, are included in system offers. This includes an international team of AFC tuning engineers who will visit the site and tune the AFC Enhance system to meet the project's requirements. Such tuning sessions take several days and include technical tuning, as well as live tuning with system users playing their material. A check-up after six months is also included, to re-adjust the system after users have experienced the enhanced acoustic environment. All projects are carried out under the ANSI/InfoCom 2M-2010 project management standard. For more information, please send us an email.

CONTACT US:

IMMERSIVE-SEG-EU@MUSIC.YAMAHA.COM



ACTIVE FIELD CONTROL

SPECIFICATIONS ACTIVE FIELD CONTROL

AFC PROCESSING COMPUTER

- 4U 19” SERVER CLASS
- 256 DANTE INPUTS @96KHZ
- 256 DANTE OUTPUTS @96KHZ
- INCLUDED IN PROVISIONAIRE LIBRARY

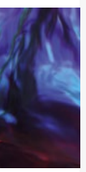
AFC ENHANCE SOFTWARE

Hybrid regenerative acoustic enhancement provides full control of the acoustic conditions within the performance space, including early reflections, diffuse reverberation, active stage shell, stage / orchestra pit support, under balcony support

- IN-LINE ACOUSTIC ENHANCEMENT FOR THEATRICAL EFFECTS
- APPLICATION SIZES, EACH INCLUDING 16 OBJECT AFC IMAGE MODULE: AFC402 FOR BASIC ENHANCEMENT; AFC404 FOR MULTI-AREA ENHANCEMENT; AFC406 FOR COMPLEX AREA ENHANCEMENT
- 32 MICROPHONE CHANNELS, 96 LOUDSPEAKER CHANNELS

AFC IMAGE SOFTWARE

- 128 OBJECTS
- 64 OUTPUT CHANNELS / 96 LOUDSPEAKER CHANNELS / 32 ZONES
- 3D REVERBERATION
- BINAURAL RENDERER
- 96 AUX INPUTS SUPPORTING EASY CONNECTION OF THIRD PARTY IMMERSIVE RENDERERS, SIMULTANIOUSLY WITH AFC IMAGE FUNCTIONALITY.



AFC IMAGE LIVE CONTROL

- AFC IMAGE EDITOR CONTROL SOFTWARE FOR WIN/MAC
- MULTI-CLIENT IP WEB SERVER
- LIVE CONTROL THROUGH: QL, CL AND RIVAGE PM CONSOLES; OSC CONTROL; TRACKING SYSTEM

AFC IMAGE PRE-PRODUCTION

- NUENDO 11 DIGITAL AUDIO WORKSTATION
- VST MULTIPANNER SUPPORT: AFC IMAGE, DOLBY ATMOS, AURO 3-D, AMBISONICS
- ADM IMPORT
- CINEMATIC VR PRODUCTION SUITE
- SUPERVISION METERING PLUG-IN SUITE
- MEDIA BAY CONTENT MANAGEMENT, MONITORING MATRIX, AUTOMATION
- FULL INTEGRATION WITH YAMAHA NUAGE POST-PRODUCTION SYSTEM

IMMERSIVE LOUDSPEAKER SYSTEM DESIGN

- NS1 IMMERSIVE LOUDSPEAKER SYSTEM CONFIGURATION TOOL
- SUPPORTED NEXO LOUDSPEAKER SERIES: ID , P+, GEO-M, STM
- SUPPORTED YAMAHA LOUDSPEAKER SERIES: VXS, VXC, VXL, CBR/DBR, DXR, CZR/DZR
- SUPPORTED NEXO AND YAMAHA NETWORKED POWER AMPLIFIER SERIES: NXAMP, XMV, PC-D
- IMPORT EASE, PDF, JPG, GOOGLE EARTH, SKETCHUP, COLLADA WIRE FRAMES
- SPL AND LOUDSPEAKER IMMERSIVE SUPPORT SIMULATIONS
- EXPORT LOUDSPEAKER POSITIONING DATA FOR IMMERSIVE RENDERERS

ACTIVE FIELD CONTROL

NETWORKED MIXING SYSTEMS

DIGITAL, NETWORKED, CONTROLLED, IMMERSIVE

The first mass-produced digital mixing console was Yamaha's **DMP7** Digital Mixing Processor. Launched in 1987, it started the development of the digital mixing console as we know it today. Still on reliable active duty in many places around the world, the 02R, 01V, DM2000, PM1D, M7CL and LS9 - along with Yamaha's Mini YGDAI open I/O support - became standard workhorses for the community of sound engineers.

From 2008 onwards audio networking was added, resulting in the **TF, QL, CL, DM** and **RIVAGE PM SERIES**, with I/O infrastructures fully based on audio networking. As soon as the iPad was released in 2013, StageMix and MonitorMix apps have set the standard for wireless tablet software control, later joined by the ProVisionaire suite of freely-configurable user interface software. The most recent development is the support for immersive, object-based mixing by QL, CL and RIVAGE PM series.



DM3 SERIES



TF SERIES



CL / QL SERIES



DM7 SERIES



RIVAGE PM



SOFTWARE



NETWORKED MIXING SYSTEMS

DM3 SERIES

COMPACT DIGITAL MIXING CONSOLE



DO MORE

The word “compact” is often associated with limitations, and in the sound reinforcement world, often implies compromises in functionality, connectivity, or sound quality, and sometimes all three. Until now choosing a compact console has almost invariably been a matter of what you’re willing to sacrifice to get the capabilities you need in the space you have. The new **DM3 SERIES** of mixing consoles shatters this stereotype, offering superb sound quality, fast and easy setup and operation, and professional-level features for live sound, streaming, and live or home recording and music production—a combination unmatched in any other mixing console this size. In an ever-changing world that constantly presents new challenges as well as opportunities, DM3 mixing consoles give you the power and flexibility to do more with than you ever imagined with a compact digital console.

KEY FEATURES

- 8 + 1 FADER + 9-INCH MULTI-TOUCH SCREEN
- INPUT MIXING CHANNELS: 16 MONO + 1 STEREO + 2 FX RETURN
- BUSSES: 1 STEREO, 6 MIX, 2 FX, 2 MATRIX (SUPPORTS INPUT TO MATRIX)
- LOCAL I/O: 16 MIC/LINE (12 XLR + 4 XLR/TRS PHONES COMBO) INPUTS, AND 8 (XLR) OUTPUTS
- DANTE: 16 INPUTS, AND 16 OUTPUTS (DM3 MODEL ONLY)
- USB: 18 INPUTS, AND 18 OUTPUTS
- GEQ ON MIX 1-6 AND STEREO CHANNELS, 2 FX, VST RACK BUNDLED



DETAILS AND/OR OPTIONAL ACCESSORIES



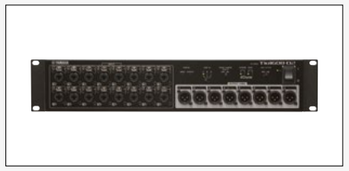
19” MOUNT RAILS



DM3 BACK PANEL



DM3 STANDARD BACK PANEL



TIO1608-D DANTE I/O RACK



DZR SERIES DANTE POWERED SPEAKERS



VST RACK

QUICK SPECIFICATIONS

	DM3	DM3 STANDARD
NR. OF FADERS / SCREEN	8 input + 1 master + 9” multi-touch screen	
INPUT MIXING CHANNELS	16 mono, 1 stereo, 2 FX return	
MIX BUSSES	1 stereo, 6 Mix, 2 FX, 2 Matrix	
ANALOGUE I/O	16 Mic/Line (12 XLR + 4 XLR/TRS), 8 out XLR	
DANTE I/O	16/16	-
USB I/O	18/18	
FX / GEQ	2 FX, 6 mix GEQ, 1 stereo master GEQ	
SAMPLING RATE	96kHz / 48kHz	
DIMENSIONS (WXHXD)	320 mm x 140 mm x 455 mm	
WEIGHT	6.5 kg	

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 139

TF SERIES

DIGITAL MIXERS



DESIGN MEETS INTUITION

Yamaha has always made it a mission to stay in touch with the needs of sound engineers worldwide. The outcome is evident in the success of the recent CL and QL series digital mixing consoles, and the flagship RIVAGE PM10. The key to success has always been in supporting the user's creativity. Creativity is most effective when unrestricted, and now Yamaha has created a new digital mixing console that gives the user's intuition even freer rein. TouchFlow Operation™ introduced in the **TF SERIES** consoles allows the user to respond to the music and artists on stage with unprecedented speed and freedom, taking live sound reinforcement to a new level of refinement. With the TouchFlow Operation interface optimized for touch panel control, experienced engineers as well as newcomers to the field will find it easier than ever to achieve the ideal mix. Recallable D-PRE™ preamplifiers support sound quality that will satisfy the most discerning professional ears, while advanced live recording features and seamless operation with high-performance I/O racks give these compact digital mixers capabilities that make them outstanding choices for a wide range of applications. Experience the intuitive control and creative freedom that a truly evolved digital console can provide.

KEY FEATURES

- **INTUITIVE USER INTERFACE OPTIMIZED FOR TOUCH PANEL OPERATION**
- **INTUITIVE FEATURES FOR SMOOTH SETUP AND OPERATION**
- **PRACTICAL PRESETS AND SCENES – SHORTCUTS TO GREAT SOUND**
- **DESIGN FOR SUPERIOR VISIBILITY AND QUICK OPERATION**
- **A NATURAL SOUND FOUNDATION WITH EXTRA CREATIVE FREEDOM**
- **SOFTWARE APPLICATIONS THAT WORK SEAMLESSLY WITH THE CONSOLE**



DETAILS



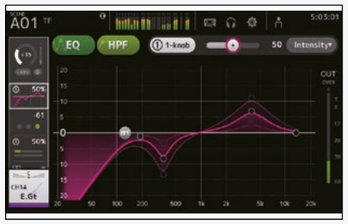
TF5 REAR PANEL



TF-RACK REAR PANEL



TOUCH OPERATION FOR INTIMATE CONTROL



1-KNOB COMP™ & 1-KNOB EQ™



DAN DUGAN AUTOMIXER

QUICK SPECIFICATIONS

	TF1	TF3	TF5	TF-RACK
MONO CHANNELS	32	40	40	32
STEREO CHANNELS	2 + 2 FX returns	2 + 2 FX returns	2 + 2 FX returns	2 + 2 FX returns
MIX BUSSES	20 (8 mono + 6 stereo)	20 (8 mono + 6 stereo)	20 (8 mono + 6 stereo)	20 (8 mono + 6 stereo)
MATRIX	4 mono	4 mono	4 mono	4 mono
LOCAL IN	16 M/L + 2 stereo RCA	24 M/L + 2 stereo RCA	32 M/L + 2 stereo RCA	16 M/L + 1 stereo RCA
LOCAL OUT	16 XLR outputs	16 XLR outputs	16 XLR outputs	8 XLR + 8 TRS outputs
DANTE I/O (OPTIONAL)	64ch i/o NY card	64ch i/o NY card	64ch i/o NY card	64ch i/o NY card
FADER CONFIG	16+1	24+1	32+1	Virtual faders
DCA GROUPS	8 with roll-out	8 with roll-out	8 with roll-out	8 with roll-out
RECORDING	34x34 via USB2	34x34 via USB2	34x34 via USB2	34x34 via USB2

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 157

CL/QL SERIES



THE STANDARDS STAY, BUT INNOVATION NEVER ENDS

The pursuit of perfection is ongoing and will probably never end, but along the way Yamaha has introduced a number of innovations that have become industry standards offering performance and familiarity that discerning users continue to demand. By definition, “standards” are best kept as they are. With evolutionary refinements, of course. Yamaha CL and QL series digital mixing consoles represent a new level of refinement. They offer an evolved experience in accessible mixing, plus sonic purity with sound shaping capabilities that will give the most imaginative engineer unprecedented creative freedom. Analogue and digital I/O infrastructure is based on a broad range of rack I/O components listed in the I/O section of this catalogue, with the QL series offering additional built-in analogue inputs and outputs. The CL and QL series embodies the leading standards in live sound in their most advanced, most expressive form.

KEY FEATURES

- CREATING THE IDEAL NATURAL SOUND PLATFORM
- CENTRALOGIC AT THE HEART OF AN EVOLVED INTERFACE
- FLEXIBLE NETWORKING THROUGH THE USE OF DANTE
- HIGHLY EXPANDABLE AND ADAPTABLE
- SEAMLESS INTEGRATION WITH NUENDO LIVE
- SOFTWARE APPLICATIONS THAT WORK SEAMLESSLY WITH THE CONSOLE



CL, QL STAGEMIX (IPAD)



CL, QL EDITOR (WIN, MAC)



MONITORMIX
(IPHONE, ANDROID)



CONSOLE FILE
CONVERTOR (WIN/MAC)

DETAILS



CL5 BACK PANEL



CL5 WITH DANTE RACK I/O



A COMPREHENSIVE RANGE OF
PREMIUM EFFECTS



SEAMLESS INTEGRATION WITH
NUENDO LIVE



PREMIUM RACK

QUICK SPECIFICATIONS

	CL1	CL3	CL5	QL1	QL5
MONO CHANNELS	48	64	72	32	64
STEREO CHANNELS	8	8	8	8	8
MIX BUSSES	24 Mix	24 Mix	24 Mix	16 Mix	16 Mix
MATRIX	8 Matrix	8 Matrix	8 Matrix	8 Matrix	8 Matrix
LOCAL I/O	8 in, 8 out	8 in, 8 out	8 in, 8 out	16 in, 8 out	32 in, 16 out
DANTE I/O	64 in, 64 out	64 in, 64 out	64 in, 64 out	32 in, 32 out	64 in, 64 out
FADER CONFIG	8+8+2	16+8+2	16+8+8+2	16+2	32+2
DCA GROUPS	16 with roll-out	16 with roll-out	16 with roll-out	16 with roll-out	16 with roll-out
GEQ/FX/PREMIUMFX	32/16/16	32/16/16	32/16/16	16/16/16	16/16/16
GPI	5 in, 5 out	5 in, 5 out	5 in, 5 out	5 in, 5 out	5 in, 5 out

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 158

DM7 SERIES

DIGITAL MIXING CONSOLE



GO ABOVE AND BEYOND

More than 30 years since the release of Yamaha's first digital mixer, the DMP7, the landscape of professional audio has seen a steady progression in technological advancements and innovations that have impacted mixing and recording styles significantly.

DM7 SERIES mixing consoles represent a sizable step forward in this evolution of form, functionality, and flexibility with their intuitive UI, compact design, and comprehensive suite of powerful features that allow them to outperform other mixers in their class in an impressive range of audio environments. From broadcasting, streaming, and music production, to live hybrid events and concert performances, the advanced capabilities of the DM7 series set a new standard in operability and workflow while simultaneously staying true to Yamaha's sonic tradition of "natural sound". As the times continue to change, your DM7 will keep you ahead of the curve with a user experience that's a cut above anything in its class, and sonic performance well beyond the expectations of audiences and engineers alike.

The **DM7 SERIES** is an innovative digital mixer lineup that not only guarantees unparalleled sound quality, ease of operation, and high reliability to connect engineers, artists, and audiences, but is also highly scalable and flexible enough to adapt according to application. A DM7 setup can take on a variety of configurations depending on the engineer's preferences and can support a wide range of sonic environments.

SOFTWARE PACKAGES

DEK-DM7-TH THEATRE PACKAGE

- 4 BANK EQ/DYN
- ACTOR LIBRARY
- DCA PRESET
- DCA SCENE GRID
- MIDI OUTPUT EVENT ON SCENE
- AFC IMAGE CONTROL (FUTURE UPDATE)

DEK-DM7-BR BROADCAST PACKAGE

- MIX MINUS
- FADER CUE RELEASE
- BACK STOP PFL
- AUDIO FOLLOW VIDEO
- SOURCE SELECTION MIX MODE
- LOUDNESS METER
- PEAK PROGRAM METERS (PPM)
- 5.1 SURROUND (FUTURE UPDATE)

KEY FEATURES

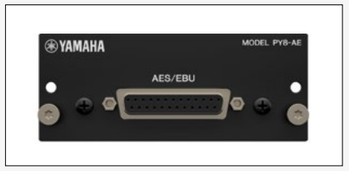
- 120 (DM7) / 72 (DM COMPACT) MIXING CHANNELS
- 48 MIX + 12 MATRIX + 2 STEREO
- 2X12.1" / 1X12.1" (DM7 COMPACT) MULTI-TOUCH SCREEN, 7" MULTI-TOUCH SCREEN
- 28 (DM7) / 16 (DM7 COMPACT) FADERS
- DANTE: 144 IN / 144 OUT
- ANALOG I/O: 32 (DM7) / 16 (DM7 COMPACT) INPUTS, 16 OUTPUTS
- PY SLOT FOR MADI, AES/EBU AND MIDI/GPI
- USB AUDIO INTERFACE: 18 IN / 18 OUT
- REDUNDANT POWER SUPPLY BUILT-IN
- DM7 CONTROL BAY FOR ADVANCED CONTROL FUNCTIONS



DETAILS AND/OR OPTIONAL ACCESSORIES



PY64-MADI



PY8-AE



PY-MIDI-GPI



DEK-DM7-BR BROADCAST PACKAGE



DEK-DM7-TH THEATRE PACKAGE



DM7 CONTROL ADD-ON

QUICK SPECIFICATIONS

	DM7	DM7 COMPACT	DM7 CONTROL
NR. OF FADERS	24+4	12+4	2
TOUCH SCREENS	2 x 12.1" + 1 x 7"	1 x 12.1" + 1 x 7"	–
INPUT MIXING CHANNELS	120	72	–
MIX BUSSES	48 mix, 12 matrices, 2 stereo	48 mix, 12 matrices, 2 stereo	–
ANALOGUE I/O	32 inputs, 16 outputs	16 inputs, 16 outputs	–
DANTE & USB I/O	144/144 Dante, 18/18 USB		–
FX / GEQ	64 Premium, 16 FX, 32 GEQ		–
SAMPLING RATE	up to 96kHz		–
DIMENSIONS (WXHXD)	793 mm x 324 mm x 564 mm	468 mm x 324 mm x 564 mm	191 mm x 323 mm x 562 mm
WEIGHT	23.5 kg	16.5 kg	7 kg

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 159

DM7 SERIES



DM7 FRONT PANEL



DM7 COMPACT FRONT PANEL



DM7 CONTROL FRONT PANEL



DM7 REAR PANEL



DM7 COMPACT REAR PANEL



DM7 CONTROL REAR PANEL

NETWORKED MIXING SYSTEMS



RIVAGE PM SERIES



PERFECTING THE ART OF LIVE SOUND

All art, including art that involves sound and music, is expression that has an impact on the viewer or listener. It often begins with the artist's personal journey of self-discovery that sometimes grows and ripples outward in waves that resonate with people everywhere. Yamaha supports the engineers who support artists and performers in their quest to make waves, carrying their vision to a wider audience.

The **RIVAGE PM SERIES** includes five consoles, two DSP engines, two I/O rack units, and two network protocols. Any of these components can be combined to create systems that match a wide range of application scale and budget requirements. All five consoles feature a similar interface with up to three bays of 12 faders each, touch-sensitive display panels, and the Yamaha Selected Channel Section. Engineers who are familiar with one RIVAGE PM console can easily switch to any other and be up and running in a matter of minutes. All RIVAGE PM system components are compatible, and components from earlier systems will work in combination with later systems. That goes for I/O racks as well as DSP engines, so in addition to operating them separately you can combine DSP engines in mirrored configurations for large applications, for example.

KEY FEATURES

- EXCEPTIONAL HIGH AUDIO QUALITY
- EXTRAORDINAIRY SELECTION OF PLUG-INS
- REFINED USER-INTERFACE CONSISTENT THROUGH THE WHOLE LINE-UP
- MODULARITY
- EASY-REACH LAYOUT AND COMFORTABLE SIGHT LINE
- SOFTWARE APPLICATIONS THAT WORK SEAMLESSLY WITH THE CONSOLE



RIVAGE PM EDITOR
(WIN, MAC)



StageMix
RIVAGE PM STAGEMIX
(iPad)



MonitorMix
MONITORMIX (iPhone, ANDROID)



CONSOLE FILE CONVERTOR
(WIN, MAC)

DETAILS



BRICASTI Y7



DaNSe PLUG-IN



P2MB (PORTICO II MASTER
BUSS PROCESSOR)



OVERLAY



DEVICE CONTROL



SURROUND MONITORING

QUICK SPECIFICATIONS

	PM3	PM5	PM7	PM10
MIXING CHANNELS	up to 288	up to 288	144	up to 288
MIX BUSSES	up to 72	up to 72	60	up to 72
MATRIX	up to 36	up to 36	36	up to 36
LOCAL ANALOGUE I/O	8/8	8/8	8 (silk)/8	8 (silk)/8
LOCAL AES/EBU I/O	–	2/2	4/4	4/4
HY SLOTS	4 on DSP	4 on DSP	3 on CS	4 on DSP
MY SLOTS	2 on DSP 2 on CS	2 on DSP 2 on CS	2 on CS	2 on DSP 2 on CS
FADER CONFIG	3 x 12 + 2	3 x 12 + 2	3 x 12 + 2	CS-R10: 3 x 12 + 2 CS-R10-S: 2 x 12 + 2
TOUCH SCREENS	1 x 15"	3 x 15"	2 x 15"	CS-R10: 2 x 15" CS-R10-S: 1 x 15"
PLUG-IN / GEQ	up to 512 / 96	up to 512 / 96	384 / 96	up to 512 / 96
SUPPORTED DSP ENGINES	DSP-R10 DSP-RX (-EX)	DSP-R10 DSP-RX (-EX)	internal	DSP-R10 DSP-RX (-EX)

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 160

RIVAGE PM SYSTEM COMPONENTS

CONTROL SURFACES



CS-R10



CS-R10-S



CS-R5



CS-R3

MIXING CONSOLE



CSD-R7

DSP ENGINES



DSP-RX



DSP-RX-EX

RIVAGE PM I/O RACKS



RPio622



RPio222

RIVAGE PM I/O CARDS



HY256-TL



HY256-TL-SMF



HY144-D



HY144-D-SRC



HY128-MD

MADI

RIVAGE PM I/O RACK CARDS



RY16-ML-SILK



RY16-DA



RY16-AE

DANTE I/O RACKS



Rio3224-D2



Rio1608-D2

FOR A FULL OVERVIEW OF COMPATIBLE DANTE I/O COMPONENTS SEE PAGE PAGE 178
FOR A FULL OVERVIEW OF COMPATIBLE MY CARDS SEE PAGE PAGE 180

RIVAGE PM SYSTEM DANTE / TWINLANE NETWORK TOPOLOGY EXAMPLE

CONTROL SURFACES



CS-R10



CS-R10-S



CS-R5



CS-R3

DSP ENGINES



DSP RX-EX



HY144-D DANTE CARDS

MIXING CONSOLE





CSD-R7

DANTE I/O INFRASTRUCTURE



SWP SERIES

Dante



RIO3224-D2



RIO1608-D2

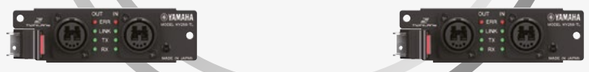
MORE THAN 1000 DANTE COMPATIBLE I/O DEVICES

HY256-TL TWINLANE CARDS



TWINLANe

TWINLANE I/O INFRASTRUCTURE 32-BIT, 96 KHZ, 400 CH REDUNDANT RING





RPio622



RPio222

	RY16-ML-SILK	RY16-DA	RY16-AE
TYPE	MIC/LINE WITH RND SILK EMULATION	LINE OUT	AES/EBU
CHANNEL COUNT	16 INPUTS	16 OUTPUTS	16 INPUTS / 16 OUTPUTS
FORMAT	analogue 24-bit 44.1 ~ 96 KHz	analogue 24-bit 44.1 ~ 96 KHz	AES3 with SRC 44.1 ~ 96 KHz
CONNECTORS	XLR x 16	XLR x 16	XLR x 16

TWINLANE I/O SPECIFICATIONS

	HY128-MD	HY144-D	HY144-D-SRC	HY256-TL	HY256-TL-SMF	RPIO622	RPIO222
TYPE	I/O CARD	I/O CARD	I/O CARD	I/O CARD	I/O CARD	I/O RACK	I/O RACK
CHANNEL COUNT	128i 128o @48 KHz 64i 64o @96 KHz	144i 144o @96KHz	144i 144o @96kHz SRC: 72i/72o	256i 256o @96 KHz	256i 256o @96 KHz	96 RY @96 KHz 32 MY	32 RY @96 KHz 32 MY
FORMAT	MADI	Dante	Dante	TWINLANe	TWINLANe	6 RY SLOTS 2 MY SLOTS 2 HY SLOTS	2 RY SLOTS 2 MY SLOTS 2 HY SLOTS
CONNECTORS	optical SC x 4 BNC x 4	EtherCON x 2	EtherCON x 2	OptIcalCON x 2	OpticalCON x 2	RY CARD x 6	RY CARD x 2

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE PAGE 180



SOFTWARE FOR MIXING CONSOLES



MIXING SOFTWARE

Off-line and on-line software for mixing consoles support efficient and effective worlkflows, something Yamaha recognised already with the first mixer support software packages such as the DMC1000 project manager software launched in 1995. Both mixing consoles and supporting software have evolved to the networked era: all connections are based on Ethernet, while a high degree of integration is supported with the ProVisionaire graphic user interface environment, allowing for a variety of mixing consoles, DSP engines, i/o infrastructure, power amplifiers, AV components and even acoustic enhancement systems to be monitored and controlled on a single computer screen or tablet, supporting multiple users working in parrallel in the same system.

AVAILABLE SOFTWARE AND APPS

- WINDOWS 10 SOFTWARE: PROVISIONAIRE CONTROL, CONSOLE FILE CONVERTER
- WINDOWS 10 AND OSX SOFTWARE: EDITORS FOR RIVAGE PM, DM, CL, QL, TF
- IPAD APP: PROVISONAIRE TOUCH, STAGEMIX FOR RIVAGE PM, DM, CL, QL, TF
- IPHONE APP: MONITORMIX
- WINDOWS & MACOS SOFTWARE: FREE OF CHARGE DOWNLOAD ON EUROPE.YAMAHA.COM
- IOS APPS: FREE OF CHARGE DOWNLOAD FROM THE APP STORE (C)





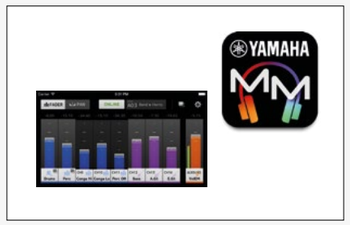
RIVAGE PM, QL, CL, TF, EDITOR



CONSOLE FILE CONVERTOR



STAGEMIX



MONITORMIX

NETWORKED MIXING CONSOLE SOFTWARE COMPATIBILITY

	OPERATING SYSTEM	DM3	TF	QL	CL	DM7	RIVAGE PM
RIVAGE PM EDITOR	Windows, Mac	-	-	-	-	-	yes
CL EDITOR	Windows, Mac	-	-	-	yes	-	-
QL EDITOR	Windows, Mac	-	-	yes	-	-	-
DM7 EDITOR	Windows, Mac	-	-	-	-	yes	-
DM3 EDITOR	Windows, Mac	yes	-	-	-	-	-
TF EDITOR	Windows, Mac	-	yes	-	-	-	-
RIVAGE PM STAGEMIX	iPad iOS	-	-	-	-	-	yes
CL STAGEMIX	iPad iOS	-	-	-	yes	-	-
QL STAGEMIX	iPad iOS	-	-	yes	-	-	-
DM7 STAGEMIX	iPad iOS	-	-	-	-	yes	-
DM3 STAGEMIX	iPad iOS	yes	-	-	-	-	-
TF STAGEMIX	iPad iOS	-	yes	-	-	-	-
MONITORMIX	iPad iOS, Android	yes	yes	yes	yes	yes	yes
CONSOLE FILE CONVERTOR	Windows, Mac	-	-	yes	yes	-	yes
PROVISIONAIRE CONTROL	Windows	yes	yes	yes	yes	yes	yes
PROVISIONAIRE TOUCH	iPad iOS	yes	yes	yes	yes	yes	yes

SPECIFICATIONS DIGITAL MIXERS

			DIGITAL MIXING CONSOLE	
			DM3	DM3S
MIXING CAPACITY		INPUTS	16 + 1 stereo + 2FX	
		BUSES	6 mono, 2FX, 1 Mtx	
LOCAL I/O		ANALOGUE XLR-TRS IN / XLR OUT	16 in + 8 out	
		ANALOGUE PHONO OUT	-	
		ANALOGUE RCA IN	-	
		DANTE	16in, 16 out	
		USB	PC/Mac USB2.0: 18 in 18 out	
		EXPANSION SLOTS	-	
RACK I/O HA CONTROL COMPATIBILITY			Rio series, Tio series	
CHANNEL FUNCTIONS		FILTERS / EQ / DYNAMICS	HPF / 4 band PEQ (LPF, HPF) / 1 Gate + 1 Compressor	
		DCA GROUPS	-	
BUSS FUNCTIONS		EQ / DYNAMICS / DELAY	HPF / 4 band PEQ (LPF, HPF) / 1 Compressor / Delay	
		FX ALGORITHMS	18	
		GEQ	6	
DUGAN			-	
AUTOMATION		# SCENES	200	
RECORDING		USB PLAY/REC	USB drive: 2 tracks	
USER INTERFACE		NUMBER OF FADERS	8+1	
		SCREEN	1x9" multitouch	
CONTROL I/O		NETWORK	1 x RJ45	
		USB	1 x USB2.0	
SOFTWARE		EDITOR	Editor, Stagemix, Monitormix	
		PROVISIONAIRE CONTROL	Yes	
ANALOG INPUT SPECIFICATIONS	PHANTOM POWER		+48 V	
	INPUT LOAD IMPEDANCE		10 kΩ	
	INPUT GAIN	MIC/LINE INPUTS	64 dB to 0 dB	
		ST IN 1,2	-	
	INPUT LEVEL NOMINAL	MIC/LINE INPUTS	-60 dBu (Gain: +64 dB), +4 dBu (Gain: 0 dB)	
		ST IN 1,2	-	
	MAX INPUT LEVEL BEFORE CLIP	MIC/LINE INPUTS	-40 dBu (Gain: +64 dB), +24 dBu (Gain: 0 dB)	
		ST IN 1,2	-	
ANALOG OUTPUT SPECIFICATIONS	OUTPUT SOURCE IMPEDANCE		75 Ω	
	OUTPUT LEVEL NOMINAL		+4 dBu	
	MAX OUTPUT LEVEL BEFORE CLIP		+24 dBu	
AUDIO SYSTEM SPECIFICATIONS	SAMPLING FREQUENCY RATE		96 kHz	
	A/D D/A CONVERTERS		24-bit linear, 128 times over sampling	
	SIGNAL DELAY		< 1.3 ms (AD-DA @96 kHz)	
	TOTAL HARMONIC DISTORTION		< 0.01 % (+4 dBu, Gain:0 dB	
	FREQUENCY RESPONSE		20 Hz to 20 kHz, +0.5 dB, -1.0 dB	
	DYNAMIC RANGE		106 dB (Gain:0 dB)	
	HUM & NOISE LEVEL	EQUIVALENT INPUT NOISE	126 dBu (Gain: +64 dB)	
	CROSSTALK		-100 dB	
THERMAL			operational: 0 ~ 40 °C, storage: -20 ~ 60 °C	
POWER REQUIREMENTS			100–240 V (50/60 Hz)	
POWER CONSUMPTION			43 W	
DIMENSIONS W X H X D			320 x 140 x 455 mm	
WEIGHT			6,5 kg	
INCLUDED ACCESSORIES			Power Cord, Power Adaptor PA-L500	

DIGITAL MIXING CONSOLE			DIGITAL MIXER
TF1	TF3	TF5	TF-RACK
32 + 2 FX + 2 Stereo	40 + 2FX + 2 Stereo		32 + 4 stereo
8 mono, 6 stereo, 4 Mtx			
16 in + 16 out	24 in + 16 out	32 in + 16 out	16 in + 8 out
-	-	-	8 out
2 stereo line			1 stereo line
(optional through NY64-D card) 64i+64o			
PC/Mac USB2.0: 34 in 34 out			
1NY (Dante)			
Rio series, Tio series (max. 3 units)			
HPF / 4 band PEQ (LPF, HPF) / 1 Gate + 1 Compressor			
8			-
4 band PEQ (LPF, HPF) / 1 Compressor / Delay (matrix only)			
20			
10			
8 channels, 2 groups			
200, with recall safe & fade time			
USB drive: 2 tracks			
16+1	24+1	32+1	-
1x8" multi			
1 x RJ45			
1 x USB2.0			
Editor, Stagemix, Monitormix			
Yes			
+48 V			
Mic / line input: 7.5 kΩ, Stereo in: 10 kΩ			
+66 dB to -6 dB			
-10 dBV			
-62 dBu (Gain: +66 dB), +10 dBu (Gain: -6 dB)			
-10 dBV			
-42 dBu (Gain: +66 dB), +30 dBu (Gain: -6 dB)			
+10 dBV			
75 Ω			
+4 dBu			
+24 dBu			
48 kHz			
24-bit linear, 128 times over sampling			
< 2.6 ms (AD-DA @48 kHz)			
< 0.05 % (+4 dBu, Gain:-6 dB), < 0.1% (+4 dBu, Gain:+66 dB)			
20 Hz to 20 kHz, +0.5 dB, -1.5 dB			
107 dB (Input to Omni out, Gain:-6 dB)			108 dB (Input to Omni out, Gain:-6 dB)
-128 dBu (Gain: +66 dB)			
-100 dB			
operational: 0 ~ 40 °C , storage: -20 ~ 60 °C			
100–240 V 50/60 Hz			
110 W	110 W	120 W	85 W
716 x 225 x 599 mm	716 x 225 x 599 mm	866 x 225 x 599 mm	480 x 132 x 409 mm (5HU)
17 kg	17 kg	20 kg	9.2 kg
Power Cord, Nuendo Live2			



NETWORKED MIXING SYSTEMS

YAMAHA

NETWORKED MIXING CONSOLES

			QL1	QL5	CL1	CL3	CL5	DM7	DM7C	DM7 CONTROL
MIXING CAPACITY	INPUTS	INTERNAL	32+8stereo	64+8stereo	48+8 stereo	64+8 stereo	72+8stereo	120	72	-
		DSP-R10	-		-			-		
		DSP-RX	-		-			-		
		DSP-RX-EX	-		-			-		
	OUTPUTS[1]	INTERNAL	16Mix+8Mtx		24Mix+8Mtx			48Mix + 12Mtx + 2 Stereo		-
		DSP-R10	-		-			-		
		DSP-RX	-		-			-		
		DSP-RX-EX	-		-			-		
LOCAL I/O	ANALOGUE		16 in + 8 out	32 in + 16 out	8 in + 8 out			32 in + 16 out	16 in + 16 out	-
	AES		1 out		1 out			2 in + 2 out	1 out	-
	DANTE		32i + 32o	64i + 64o	64i + 64o			144 + 144		-
SLOT I/O	HY SLOTS		-		-			-		
	MY/NY SLOTS		2MY		3MY			1PY		-
RACK I/O HA CONTROL COMPATIBILITY			Rio series, Tio series		Rio series, Tio series			Rio series, Tio series		
CHANNEL FUNCTIONS	FILTERS		HPF		HPF			HPF		
	EQ		4 band PEQ (LPF, HPF), 4 algorithms		4 band PEQ (LPF, HPF), 4 algorithms			4 band PEQ (LPF, HPF), 4 algorythms		
	DYNAMICS		2 Dynamics 4 algorithms		2 Dynamics 4 algorithms			2 dynamics, 8 algorythms		
	DELAY		Yes, 1000ms		Yes, 1000ms			Yes, 1000ms		
	INSERTS		1 point with 2 slots		1 point with 2 slots			1 point each with 4 slots		
BUSS FUNCTIONS	EQ		4 band PEQ, 4 algorithms		4 band PEQ, 4 algorithms			8 band PEQ, 4 algorythms		
		DYNAMICS	4 algorithms		4 algorithms			8 algorythms		
		DELAY	Yes, 1000ms		Yes, 1000ms			Yes, 1000ms		
		INSERTS	2 points each with 2 slots		2 points each with 2 slots			1 point each with 4 slots		
PLUGINS	CAPACITY		16+16VCM		16+16VCM			16 + 64 VCM		-
		# ALGORITHMS	52		52			64		-
GEQ			16		32			32		
DUGAN			8 or 16 channels, 3 groups		8 or 16 channels, 3 groups			64 channels, 5 groups		
AUTOMATION	# SCENES		300		300			500		
	RECALL SAFE		Yes		Yes			Yes		
	FOCUS RECALL		Yes		Yes			Yes		
	FADE TIME		Yes		Yes			Yes		
	PREVIEW		Yes		Yes			Future Update		
	OVERLAY		-		-			-		
	PARAMETER SET		-		-			-		
	EVENT LIST		-		-			-		
RECORDING	DVS / VIRTUAL SOUNDCHECK		Yes / Yes		Yes / Yes			Yes / Yes		
	USB PLAY/REC		Yes (mp3)		Yes (mp3)			Yes (wav, mp3)		
BROADCAST			5.1 panning, Surround monitoring, Mix Minus		5.1 panning, Surround monitoring, Mix Minus			Through DEK-DM7-BR Package		
OTHER FUNCIONS	PORT TO PORT ROUTING		-		-			-		
	PORT LABELLING		-		-			-		
	THEATRE MODE		-		-			Through DEK-DM7-TH Package		
	DSP MIRROR		-		-			-		
	DUAL CONSOLE MODE		-		-			-		
USER INTERFACE	NUMBER FADERS		16+2	32+2	8+8+2	16+8+2	16+8+8+2	24 + 4	12 + 4	2
	NUMBERS SCREENS		1x10”		1x10”			2 x 12,1” + 1 x 7,0”	1 x 12,1” + 1 x 7,0”	-
SOFTWARE	EDITOR		Editor, Stagemix, Monitormix		Editor, Stagemix, Monitormix			Editor, Stagemix, Monitormix		
	CONSOLE FILE CONVERTOR		Yes		Yes			Yes		
	PROVISIONAIRE CONTROL		Yes		Yes			Yes		
DIMENSIONS	WXHXD (MM)		468x272x562	828x272x563	648x299x667	839x299x667	1053x299x667	793x324x564	468x324x564	191x323x562
	WEIGHT (KG)		14,7	21,8	24	29	36	23,5	16,5	7

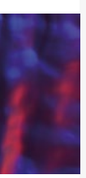
Notes: 1) Input channel to Mtx supported



NETWORKED MIXING SYSTEMS

NETWORKED MIXING CONSOLES

			PM3	PM5	PM7	PM10	PM10S
MIXING CAPACITY	INPUTS	INTERNAL	-	-	144	-	-
		DSP-R10	144	144	-	144	144
		DSP-RX	120	120	-	120	120
		DSP-RX-EX	288	288	-	288	288
	OUTPUTS[1]	INTERNAL	-	-	60Mix + 36Mtx	-	-
		DSP-R10	72Mix + 36Mtx	72Mix + 36Mtx	-	72Mix + 36Mtx	72Mix + 36Mtx
		DSP-RX	60Mix + 24Mtx	60Mix + 24Mtx	-	60Mix + 24Mtx	60Mix + 24Mtx
		DSP-RX-EX	72Mix + 36Mtx	72Mix + 36Mtx	-	72Mix + 36Mtx	72Mix + 36Mtx
LOCAL I/O	ANALOGUE		8 in + 8 out	8 in + 8 out	8 in (Silk) + 8 out	8 in (Silk) + 8 out	8 in (Silk) + 8 out
	AES		-	2 in + 2 out	4 in + 4 out	4 in + 4 out	4 in + 4 out
	DANTE		-	-	-	-	-
SLOT I/O	HY SLOTS		4 on DSP	4 on DSP	3 on CS	4 on DSP	4 on DSP
	MY/NY SLOTS		2MY on DSP, 2MY on CS		2MY on CS	2MY on DSP, 2MY on CS	
RACK I/O HA CONTROL COMPATIBILITY			RPio series, Rio series, Tio series				
CHANNEL FUNCTIONS	FILTERS		HPF + LPF				
	EQ		4 band PEQ, 4 algorithms				
	DYNAMICS		2 Dynamics, 6 algorithms				
	DELAY		Yes, 1000ms				
	INSERTS		2 points with each 4 slots				
BUSS FUNCTIONS	EQ		8 band PEQ, 4 algorithms				
		DYNAMICS	6 algorithms				
		DELAY	Yes, 1000ms				
		INSERTS	2 points each with 4 slots				
PLUGINS	CAPACITY		384 (DSP-R10/RX), 512 (DSP-RX-EX)		384	384 (DSP-R10/RX), 512 (DSP-RX-EX)	
	# ALGORITHMS		>50				
GEQ			96				
DUGAN			32 or 64 channels, 5 groups				
AUTOMATION	# SCENES		1000				
	RECALL SAFE		Yes				
	FOCUS RECALL		Yes				
	FADE TIME		Yes				
	PREVIEW		Yes				
	OVERLAY		Yes				
	PARAMETER SET		Yes				
	EVENT LIST		Yes				
RECORDING	DVS / VIRTUAL SOUNDCHECK		Yes / Yes				
	USB PLAY/REC		Yes (wav, mp3)				
BROADCAST			5.1 panning, Surround monitoring, Mix Minus				
OTHER FUNCIONS	PORT TO PORT ROUTING		Yes				
	PORT LABELLING		Yes				
	THEATRE MODE		Yes				
	DSP MIRROR		Yes	Yes	No	Yes	Yes
	DUAL CONSOLE MODE		Yes				
USER INTERFACE	NUMBER FADERS		12+12+12+2	12+12+12+2	12+12+12+2	12+12+12+2	12+12+2
	NUMBERS SCREENS		1 x 15" Multi	3 x 15" Multi	2 x 15"	2 x 15"	1 x 15"
SOFTWARE	EDITOR		Editor, Stagemix, Monitormix				
	CONSOLE FILE CONVERTOR		Yes				
	PROVISIONAIRE CONTROL		No				
DIMENSIONS	WXHXD (MM)		1145x385x650	1444x414x643	1549x417x848	1549x417x848	1128x417x848
	WEIGHT (KG)		38	42	94	85	67



Notes: 1) Input channel to Mtx supported

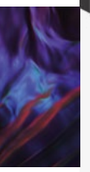
NETWORKED MIXING SYSTEMS

DANTE AUDIO I/O INFRASTRUCTURE

DANTE AUDIO NETWORKING BACKBONE

Yamaha is the world's leading adopter of Audinate's Dante audio network protocol, implementing Dante in all of its professional audio product ranges. Mixing consoles, digital signal processors, microphone preamps, power amplifiers... all come with the well-known RJ45 Dante connectors. Legacy digital I/O is supported through MY slots on Dante-enabled consoles, processors and dedicated legacy units, accepting a library of over 40 interface cards. Yamaha also manufactures a broad range of Dante-optimized Ethernet switches, guaranteeing flawless, problem-free audio and control networking, no matter how small or how large the network is.







NETWORK SWITCHES



ANALOGUE RACK I/O SERIES



DIGITAL I/O SERIES



I/O CARDS



SOFTWARE

DANTE I/O INFRASTRUCTURE

TOURING NETWORK SWITCHES

SWP2 SERIES

SWP1 SERIES



DETAILS



SWP1-16 BACK PANEL



SWP1-8 BACK PANEL



SWP2 BACK PANEL



PA700
REDUNDANT POWER SUPPLY
FOR SWP1, SWP2, AND RSIO64-D



MMF-SWP1
MULTIMODE OPTICALCON KIT

DANTE READY SWITCHES WITH VISUAL NETWORK MONITORING

Yamaha Pro Audio is known around the globe as a provider of innovative, top-quality solutions for the sound industry. The Yamaha lineup includes a number of world-standard mixing consoles, signal processors incorporating industry-leading DSP technology, power amplifiers based on energy-efficient drive technology, and an extensive range of speakers suitable for everything from live sound to commercial installations. Yamaha entered the router business in 1995, and has grown to hold a significant share of Japan's small to medium enterprise and SOHO network market. Yamaha gigabit L2 switches that could be linked to Yamaha routers/firewalls were introduced in 2011, with features that significantly reduced the network setup, maintenance, and management workload.

The SWP and SWR series network switches are a solution the pro audio market has been waiting for, offering an ideal a balance of IT and pro audio know-how that only Yamaha could provide. All switches have been designed specifically for sound installation and live sound networking, with simple DIP switch Dante optimization and comprehensive graphical interfacing via the LAN monitor computer application, providing clear visual system status monitoring that makes Dante system setup easy.

KEY FEATURES

- RISK FREE AUDIO NETWORKING: GUARANTEED TO WORK WITH DANTE
- FULL FEATURED LAYER 2 MANAGED SWITCHES
- EASY FRONT PANEL PRESET SELECTION
- PROPRIETARY HARDWARE BY YAMAHA
- LAN MONITOR SOFTWARE FOR TOTAL CONTROL



LAN MONITOR



QUICK SPECIFICATIONS

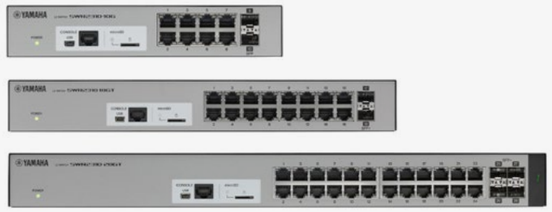
SWP SERIES TOURING SWITCHES

	SWP1-8	SWP1-16MMF	SWP1-8MMF	SWP2-10MMF	SWP2-10SMF
FRONT OPTICAL	-	1 MMF	1 MMF	2 MMF	2 SMF
FRONT ETHERCON	4	4	4	4	4
REAR ETHERCON	4	8	4	6	6
REAR RJ45	-	4	-	-	-
FRONT OPTIONAL OPTICAL MODULE SLOT	2	1	1	-	-
RADIUS SERVER	-	-	-	yes	yes
DANTE PRESET BY DIP SWITCHES	4	4	4	4	4
RACK SIZE	1U	1U	1U	1U	1U

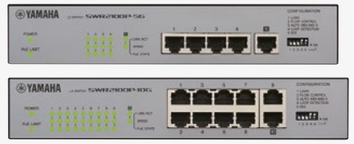
FOR A FULL OVERV IEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 176

DANTE I/O INFRASTRUCTURE

INSTALLATION NETWORK SWITCHES



SWR2310 SERIES



SWR2100P SERIES



SWX SERIES



SWR2311P-10G

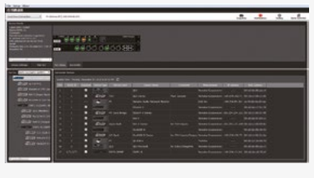
DANTE READY SWITCHES WITH VISUAL NETWORK MONITORING

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KEY FEATURES

- RISK FREE AUDIO NETWORKING: GUARANTEED TO WORK WITH DANTE
- ROCK SOLID PROPRIETARY HARDWARE & SOFTWARE MADE FOR AUDIO
- SWR2311P-10G POE MANAGED INSTALLATION SWITCH
- SWR2100P SERIES POE L2 UNMANAGED INSTALLATION SWITCH
- SWR2310 SERIES L2 MANAGED INSTALLATION SWITCHES
- SWX SERIES L2 & L3 MANAGED INSTALLATION SWITCHES / ROUTERS
- LAN MONITOR SOFTWARE FOR TOTAL CONTROL

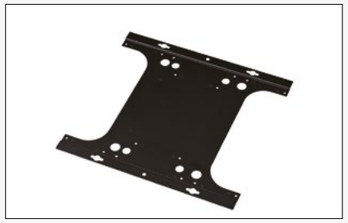


LAN MONITOR

DETAILS



SWR RACK MOUNT
RK-SWR



SWR WALL MOUNT
WK-SWR



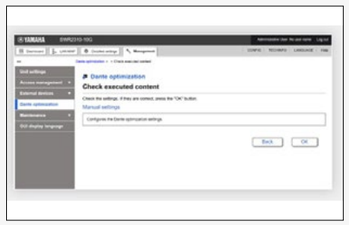
SWR & SWX SERIES
OPTICAL SFP MODULES (1GB)
SFP-SWRG-SX: MULTIMODE, DUAL LC
SFP-SWRT-LX: SINGLEMODE, DUAL LC



SWR & SWX SERIES
OPTICAL SFP+ MODULES (10GB)
SFP-SWRT-LR: MULTIMODE, DUAL LC
SFP-SWRT-SR: SINGLEMODE, DUAL LC



SWR2310 AND SWX SERIES
DIRECT ATTACH CABLES, 10GBPS
DAC-SWRT-1M: 1 METER
DAC-SWRT-3M: 3 METER



ONE-CLICK DANTE OPTIMIZATION

QUICK SPECIFICATIONS

	SWR2100P-5G	SWR2100P-10G	SWR2311P-10G	SWR2310-10G	SWR2310-18GT	SWR2310-28GT	SWX2320-16MT	SWX3220-16MT
MANAGEMENT LAYER	-	-	L2	L2	L2	L2	L2	L3
RJ-45 10G/5G/2.5G/1G/100M	-	-	-	-	-	-	12	12
RJ-45 1G/100M	5	10	10	8	16	24	-	-
SFP SLOT (1GB) IEEE 802.3Z	-	-	2 (combi)	2	-	-	-	-
SFP+ SLOT (10GB) IEEE 802.3Z, IEE802.3AE	-	-	-	-	2	4	4	4
RADIUS SERVER	-	-	yes	yes	yes	yes	yes	yes
FRONT PANEL CONFIGURATION DIP SWITCHES	5	5	-	-	-	-	-	-
PORT POE	1-4 PoE+	1-9 PoE+	-	-	-	-	-	-
MONITORING SD CARD SLOT	-	-	1	1	1	1	1	1
RACK SIZE (REQUIRES OPTIONAL RK-SWR)	1U (1/2 width)	1U (1/2 width)	1U (1/2 width)	1U	1U (rack ears included)	1U (rack ears included)	1U (rack ears included)	1U (rack ears included)

FOR A FULL OVERV IEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 177

DANTE ANALOGUE RACK I/O



R SERIES 2ND-GENERATION



Tio1608-D



RUIO16-D

PREMIUM QUALITY ANALOGUE, NETWORKED

In the past decade, sound reinforcement has evolved to modular, networked and integrated systems, replacing inefficient and expensive analogue and digital cabling with reliable and intrinsicly redundant network infrastructures. Offering not just a more efficient way of connecting audio equipment, but also avoiding cable induced signal degradation, including rock solid audio synchronisation methods making 'workdlock issues' a thing of the past. Yamaha's Rack-I/O components are the result of more than 3 decennia of research and development, starting with the first analogue input stages of the DMP and DMC series digital consoles, evolving to a series of networked products that are widely recognised as the benchmark in today's premium quality A/D convertor and head-amp designs.

Yamaha's Rack-I/O series are true integrated components, delivering pristine analogue mic/line inputs and line outputs to any Dante based audio system - no matter if it's just a few or a few hundred. Controllability is assured, with full head amp control and gain compensation over the network, supported by the full line-up of digital mixing consoles and DSP engines, as well as by Yamaha's ProVisionaire graphic user interface software environment.

KEY FEATURES

- EXCEPTIONAL HIGH AUDIO QUALITY
- 96KHZ SUPPORT (R SERIES, R SERIES 2ND-GENERATION, RUIO1608-D)
- DUAL POWER SUPPLY (R SERIES 2ND-GENERATION)
- INTEGRATED HA CONTROL FROM NETWORKED MIXING CONSOLES
- INTEGRATED HA CONTROL FROM R-REMOTE AND PROVISIONAIRE SOFTWARE
- TOURING GRADE CONSTRUCTION - BUILT TO LAST

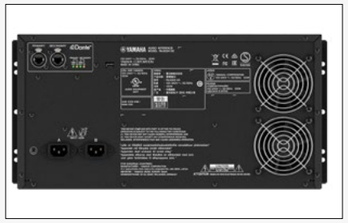


R-REMOTE

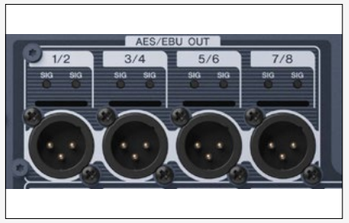


PROVISIONAIRE CONTROL

DETAILS



RIO3224-D2 BACK PANEL



RIO3224-D2 AES/EBU OUTPUTS



TIO1608-D BACK PANEL



RUIO16-D FRONT PANEL



RUIO16-D BACK PANEL



R-REMOTE SOFTWARE

QUICK SPECIFICATIONS

	RIO3224-D2	RIO1608-D2	RUIO16-D	TIO1608-D
DANTE CONNECTORS	EtherCon x 2	EtherCon x 2	EtherCON x 2	EtherCon x 2
HA INPUTS	XLR x 32	XLR x 16	XLR x 2	Combi XLR x 16
LINE OUTPUTS	XLR x 16	XLR x 8	XLR x 2	XLR x 8
AES/EBU OUTPUTS	XLR x 4 (8ch)	-	-	-
FRONT PANEL CONTROL	yes	yes	yes	-
RACK SIZE	5U	3U	1/2 U	2U
FS	44.1 KHz - 96 KHz	44.1 KHz - 96 KHz	44.1 KHz - 96 KHz	44.1 KHz - 48 KHz
DUAL POWER SUPPLY	yes	yes	no	-

FOR A FULL OVERV IEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 178

DANTE I/O INFRASTRUCTURE

DANTE DIGITAL RACK I/O



PREMIUM QUALITY DIGITAL, NETWORKED

Although nowadays most of the world's audio systems are based on the Dante audio networking protocol, there is a huge pool of latest equipment that have to be integrated trough Dante networks. Utilizing Yamaha's more than 3 decades of experience with multi-format digital audio connectivity throiugh the 'Yamaha General Audio Interface' series of i/o cards, of which the lates generation is dubbed 'MY cards', the RSio64-D offers from MY slots to connect to any of the available formats through a library of more than 25 MY compatible interface cards - form Yamaha and from other manufacturers. Its built-in Sample Rate Convertor makes it even possible to connect legacy systems with different sample rates. The RMio64-D supports the legacy AES10 (MADI) standard.

KEY FEATURES

- NETWORKED I/O MODULES FOR EASY CONNECTION TO LEGACY DIGITAL FORMATS
- DEDICATED MADI AND AES/EBU MODULES
- SAMPLE RATE CONVERSION TO INTEGRATE DIFFERENT SAMPLE RATE SYSTEMS
- UP TO 96KHZ SAMPLE RATE
- RSIO64-D SUPPORTS MORE THAN 25 LEGACY MY CARD TYPES
- LEGACY SYSTEM WORDCLOCK SUPPORT



DETAILS



RSIO64-D BACK PANEL



RMIO64-D BACK PANEL

QUICK SPECIFICATIONS

	RMIO-64D	RSIO64-D
DANTE CONNECTORS	EtherCON x 2	EtherCON x 2
ANALOGUE LINE I/O	-	-
AES/EBU I/O	-	-
MADI I/O	BNC & SC i/o up to 64ch	-
MY CARD SLOT	-	4 x MY16 type ttl. up to 64ch
FS	44.1 KHz - 192 KHz	44.1 KHz - 96 KHz
SRC	yes	yes
RACK SIZE	1U	2U
REDUNDANT DC INPUT	-	yes

FOR A FULL OVERV IEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 178

AUDIO I/O CARDS



FLEXIBILITY FOR OPEN-ENDED GROWTH

A selection of more than 30 Mini-YGDAI (“MY”) cards offers a comprehensive range of expanded I/O and processing capabilities for compatible Yamaha digital mixing consoles, processors, and power amplifiers. This efficient approach to expansion makes it easy and economical to integrate analog, digital, or network audio standards into systems of any scale for any application. With the MY series serving a low channel count connectivity to analogue, Dante and legacy formats, larger Dante channel counts are supported by higher capacity cards to add low latency Dante connectivity to mixing consoles and computer systems not having Dante implemented as a standard.

KEY FEATURES

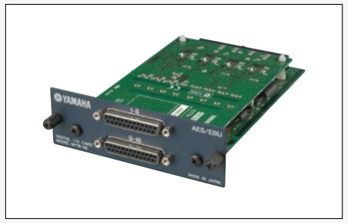
- HUGE LIBRARY OF I/O CARDS FOR MIXING CONSOLES, MIXING ENGINES, RACK I/O AND DIGITAL SIGNAL PROCESSORS
- MY ACTIVE SERIES HOSTS INCLUDE RIVAGE PM, CL, QL, MTX, MRX AND RSIO64-D
- MY LEGACY HOSTS INCLUDE DM/OX, M7CL, LS9, DME SERIES
- NY CARD SYSTEM SUPPORTS HIGH CAPACITY DANTE FOR TF SERIES
- AIC128-D SUPPORTS HIGH CAPACITY DANTE FOR AFC4 AND 3RD PARTY PCIE BUS PC APPLICATIONS
- HY CARD SYSTEM SUPPORTS HIGH CAPACITY DANTE, MADI AND TWINLANE FOR RIVAGE PM SERIES



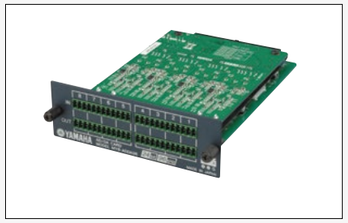
DETAILS



DANTE-MY16-AUD2



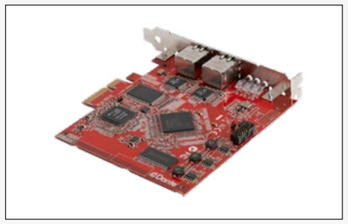
MY16-AE



MY8-ADDA96



NY64-D (TF ONLY)



AIC128-D (AFC4 & PCI EXPRESS ONLY)



HY256-TL-SMF (RIVAGE PM ONLY)

QUICK SPECIFICATIONS

	AIC128-D	HY	MY8-ADDA96	MY16-AUD2	MY16-AE	NY64-D
AUDIO FORMAT	Dante	Dante, MADI, TWINLANe	Analogue line level	Dante	AES/EBU	Dante
CHANNELS I/O	128 / 128	256 / 256 (TL) 144 / 144 (Dante) 128 / 128 (MADI)	8 / 8	up to 16 / 16	up to 16 / 16	64 / 64
CONNECTOR	RJ45 x 2	Dante: etherCON TL: opticalCON MADI: SC/BNC	Mini Euroblock x 16	RJ45 x 2	D-SUB25P x 2	Ethercon x 2
MY SLOT COMPATIBLE	-	-	yes	yes	yes	-
NY SLOT COMPATIBLE (TF SERIES)	-	-	-	-	-	yes
PCI-E SLOT COMPATIBLE	yes	-	-	-	-	-
HY SLOT COMPATIBLE (RIVAGE PM SERIES)	-	yes	-	-	-	-

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 180

DANTE I/O INFRASTRUCTURE

YAMAHA

AUDIO I/O INFRASTUCTURE SOFTWARE



SYSTEM CONTROL IS KEY

The scale and scalability of professional audio systems have grown to unprecedented levels, with systems comprising not only hundred or even thousands of audio channels, but also combining many types of i/o devices, along with their many different feature set. Where at the 'digital era' features were provided on the device front panel or through a dedicated piece of software connected to RS232 or USB, modern networked audio infrastructures offer seamless remote device control using the same network as used for audio. Where R-Remote and mixer editor software is available to control i/o functionality in dedicated mixing consoles and rack i/o devices, the ProVisionaire Graphic User Interface (GUI) platform is developed and evolved to include all networked professional audio devices in a system. Additionally, ProVisionaire also supports other relevant devices such as selected AV components, Disklavier series pianos and even 3rd party components such as the SDK series of video swiotchers. General patching of Dante audio connections can be done with Audinate's Dante Controller, supporting not only all Yamaha Dante compatible devices, but also more than a thousand of other manufacturers products. Finally, Dante Domain Manager can be deployed to control access and to route audio between subnets.

KEY FEATURES

- LAN MONITOR FOR CONTROL AND MONITOR YAMAHA L2 AND L3 SWITCHES AND CONNECTED DANTE NODES
- R-REMOTE SOFTWARE TO CONTROL ANALOGUE RACK I/O AND TIO DEVICES
- CONTROL OF HEAD AMP SETTINGS FROM PM, CL, QL AND TF CONSOLE FRONT PANEL USER INTERFACES AND SOFTWARE EDITORS
- PROVISIONAIRE CONTROL - INTEGRATED GUI ENVIRONMENT FOR WINDOWS10
- PROVISIONAIRE TOUCH - INTEGRATED GUI ENVIRONMENT FOR IPAD
- DANTE DOMAIN MANAGER AND DANTE CONTROLLER FOR FULL MANAGEMENT AND CONTROL OVER THE DANTE AUDIO NETWORK





R-REMOTE



PROVISIONAIRE CONTROL



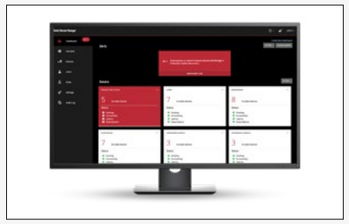
PROVISIONAIRE TOUCH



LAN MONITOR



DANTE CONTROLLER



DANTE DOMAIN MANAGER

SOFTWARE COMPATIBILITY

	OS	RIO SERIES	RMIO, RSIO	RUIO16-D	SWP SERIES	SWR SERIES	SWX SERIES	TIO SERIES
R-REMOTE	W10 MACOS	yes	yes	-	-	-	-	yes
PROVISIONAIRE CONTROL	W10	yes	-	-	-	-	-	yes
PROVISIONAIRE TOUCH	IOS	yes	-	-	-	-	-	yes
LAN MONITOR	W10 MACOS	-	-	-	yes	yes	yes	-
DANTE CONTROLLER	W10 MACOS	yes	yes	yes	-	-	-	yes
DANTE DOMAIN MANAGER	W10 MACOS	yes	yes	yes	-	-	-	yes

DANTE I/O INFRASTRUCTURE

SWITCHES SPECIFICATIONS

		SWP1-8	SWP1-8MMF	SWP1-16MMF	SWP2-10MMF	SWP2-10SMF
TYPE		L2 touring switch			L2 touring switch	
NO OF PORTS	IEEE802.3AB 1GBPS	8 etherCON	8 etherCON	12 etherCON + 4 RJ45	10 etherCON	
	IEEE802.3AE 10GBPS	-			-	
NO OF SLOTS	IEEE802.3AB 1GBPS	-	1 opticalCon MM	1 opticalCon MM	-	
	IEEE802.3AE 10GBPS	-			2 opticalCON MM	
VLAN		256			256	
IP MULTICAST	IGMP V1, V2, V3	Yes			Yes	
LINK AGGREGATION	802,3AD, LACP, STATIC	Yes			Yes	
RSTP/MSTP		Yes			Yes	
ACL		Yes			Yes	
LOOP DETECTION		Yes			Yes	
RADIUS		-			Yes	
STACKING		-			-	
POE	TYPE	-			-	
	MAXPOWER PER PORT	-			-	
	MAX POWER	-			-	
DANTE/VLAN PRESETS		Yes, DIP			Yes, DIP	
FRONT CONNECTIONS		RS232			RS232	
SOFTWARE-CONTROL	LAN MONITOR	Yes			Yes	
	WEB	Yes			Yes	
	CLI	Yes			Yes	
OPTIONS	OPTICALCON	2 opticalCon MM	1 opticalCON MM	1 opticalCON MM	-	
	MOUNTING	-			-	
		-			-	
	SFP MODULE	-			-	
		-			-	
		-			-	
		-			-	
		-			-	
		-			-	
COOLING FANS		-			-	
REDUNDANT POWER		Yes, 24V DC (optional PA700)			Yes, 24V DC (optional PA700)	
DIMENSIONS	WXHXD (MM)	480x44x362 (1U)			480x44x362 (1U)	
	WEIGHT (KG)	4,2	4,2	4,6	4,5	

	SWR2100P-5G	SWR2100P-10G	SWR2311P-10G	SWR2300-10G	SWR2300-18GT	SWR2300-28GT	SWX2320-MT	SWX3220-MT
TYPE	L1 install switch		L2 install switch	L2 install switch			L2 install switch	L3 install switch
NO OF PORTS	5 RJ45	10 RJ45	10 RJ45	8 RJ45	16 RJ45	24 RJ45	-	
	-		-	-			12 RJ45	
NO OF SLOTS	-		2 SFP	2 SFP	-	-	-	
	-		-	-	2 SFP+	2 SFP+	4 SFP+	
VLAN	-		256	256			255	
IP MULTICAST	-		Yes	Yes			Yes	
LINK AGGREGATION	-		Yes	Yes			Yes	
RSTP/MSTP	-		Yes	Yes			Yes	
ACL	-		Yes	Yes			Yes	
LOOP DETECTION	Yes		Yes	Yes			Yes	
RADIUS	-		Yes	Yes			Yes	
STACKING	-		-	-			-	
POE	802.3at (port 1-4)	802.3at (port 1-9)	802.3at (port 1-8)	-			-	
	30		30	-			-	
	70		240	-			-	
DANTE/VLAN PRESETS	-		-	-			Yes	
FRONT CONNECTIONS	-		RS232, SD, USB	RS232, SD, USB			RS232, SD, USB	
SOFTWARE-CONTROL	Yes		Yes	Yes			Yes	
	-		Yes	Yes			Yes	
	-		Yes	Yes			Yes	
OPTIONS	-		-	-			-	
	RK-SWR rackmount		RK-SWR rackmount	RK-SWR rackmount	rack ear (included)	rack ear (included)	rack mount (included)	
	WK-SWR wall mount		WK-SWR wall mount	WK-SWR wall mount	-	-	wall mount (included)	
	-		SFP-SWRG-SX MM SFP	SFP-SWRG-SX MM SFP			SFP-SWRG-LX SM SFP	
	-		SFP-SWRG-LX SM SFP	SFP-SWRG-LX SM SFP			SFP-SWRG-LX SM SFP	
	-		-	-	SFP-SWRT-SR MM SFP+	SFP-SWRT-SR MM SFP+	SFP-SWRT-SR MM SFP+	
	-		-	-	SFP-SWRT-LR SM SFP+	SFP-SWRT-LR SM SFP+	SFP-SWRT-LR SM SFP+	
	-		-	-	DAC-SWRT-3M (DAC)	DAC-SWRT-3M (DAC)	DAC-SWRT-3M (DAC)	
	-		-	-	DAC-SWRT-1M (DAC)	DAC-SWRT-1M (DAC)	DAC-SWRT-1M (DAC)	
COOLING FANS	-		Yes	-			Yes	
REDUNDANT POWER	-		-	-			-	
DIMENSIONS	220x40,5x250		220x42,4x294	220x40,5x250	330x43,5x200	440x44x300 (1U)	330x44x250 (1U)	
	1,6	1,8	2,3	1,7	2,1	3,9	2,7	

DANTE I/O INFRASTRUCTURE



DANTE RACK I/O SPECIFICATIONS

			RIO1608-D2	RIO3224-D2	RMIO64-D	RSIO64-D	RUIO16-D	TIO1608-D
TYPE			Analogue I/O		Digital I/O	Digital I/O	Analogue I/O+ Digital I/O	Analogue I/O
NETWORK			Dante		Dante	Dante	Dante	Dante
I/O	INPUTS	ANALOGUE	16 mic/line	32 mic/line	-	-	2 mic/line	16 mic/line
		AES/EBU	-		-	-	-	-
		OTHER	-		64 Madi+SRC	4 MY slots	16 USB	-
	OUTPUTS	ANALOGUE	8 line	16 line	-	-	2 line	8 line
		AES/EBU	-	4 AES/EBU	-	-	-	-
		OTHER	-		64 Madi/SRC	4 MY slots	16 USB	-
GAIN COMPENSATION			Yes		-	-	-	-
SAMPLING RATE			44,1 ~ 96 kHz		44,1 ~ 96 kHz	44,1 ~ 96 kHz	44,1 ~ 96 kHz	44,1 ~ 48 kHz
A/D CONVERSION BIT DEPTH			24 bits		-	-	24 bits	24 bits
FRONT PANEL OPERATION		DISPLAY	Yes		-	-	-	-
		CONTROL	Yes		Yes	Yes	Yes	-
MIXER CONTROL COMPATIBILITY		RIVAGE PM	Yes		-	-	-	Yes
		CL/QL	Yes		-	Yes	-	Yes
		TF	Yes		-	-	-	Yes
		NUAGE	Yes		Yes	-	-	-
		MTX/MRX	Yes		-	-	-	Yes
SOFTWARE CONTROL		R-REMOTE	Yes		Yes	Yes	-	Yes
		PROVISIONAIRE	Yes		No	No	-	Yes
		OTHER	-		-	-	VST Rack	-
REDUNDANT POWER			Yes		-	Optional 24V DC	-	-
DIMENSIONS		WXHXD (MM)	480x132x368(3U)	480x220x368 (5U)	480x44x374 (1U)	480x88x365 (2U)	180x121x42	480x88x368(2U)
		WEIGHT (KG)	9,6	13,5	4,7	6,1	1,0	5,7



DANTE I/O INFRASTRUCTURE

I/O CARDS

SPECIFICATIONS AND COMPATIBILITY

* for configuration info see the https://europe.yamaha.com/en/products/contents/proaudio/training_support/ygdaicards_matching/index.html
** for configurations please contact our system engineering group

CARD INFO			SLOTS									
			CL	QL	PM5D	M7CL	LS9-16/32	DM2K	02R96	DM1K	01V96I	MTX5-D
		MY slots*	2	1	4	3	1 / 2	6	4	2	1	1
		NY slots	-	-	-	-	-	-	-	-	-	-
		PCI slots	-	-	-	-	-	-	-	-	-	-
		HY slots**	-	-	-	-	-	-	-	-	-	-
CARD	**FORMAT**	**IN/OUT**	**AUDIO CONNECTOR**									
MY CARDS												
MY8-ADDA96	analogue	8/8	Mini Euroblock x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-AD96	analogue	8/-	D-SUB 25P x 1	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-AD24	analogue	8/-	TRS phone x 8	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY4-AD	analogue	4/-	XLR x 4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-DA96	analogue	-/8	D-SUB 25P x 1	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY4-DA	analogue	-/4	XLR x 4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY16-AT	Adat	16/16	Tos link x 4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-AT	Adat	8/8	Tos link x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY16-AE	AES/EBU	16/16	D-SUB 25P x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-AE96S	AES/EBU	8/8	D-SUB 25P x 1	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-AE96	AES/EBU	8/8	D-SUB 25P x 1	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-AE	AES/EBU	8/8	D-SUB 25P x 1	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-AEB	AES/EBU	8/8	BNC x 8	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY16-MD64	MADI	16/16	BNC x 2 Optical SC x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-SDI-ED	SDI	8/8	BNC x 3	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY16-TD	Tascam	16/16	D-SUB 25P x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY16-CII	Cobranet	16/16	RJ45 x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY16-AUD2	Dante	16/16	RJ45 x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY16-ES64	Ethersound	16/16	Ethercon x 2 RJ45 x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY16-EX	Expansion	16/16	RJ45 x 4	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY4-AEC	AES/EBU	4/4	Euroblock x 4	-	-	-	-	-	-	-	-	-	yes
DUGAN MY16	Adat	8/8	optical x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
3RD PARTY MY CARDS													
16/O-Y1	Aviom A-net	-/16	Ethercon x 1	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
6416Y2	Aviom A-net	16/16	Ethercon x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
AVY16-ES100	Ethersound	16/16	Ethercon x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
YG2	Optocore		optical LC x 2 RJ45 x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
YS2	Optocore expansion	16/16	RJ45 x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
E16I/O-MY	Pivitec	16/16	RJ45 x 1	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
RN.341.MY	Rocknet300	16/16	Ethercon x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
RN.141.MY	Rocknet100	16/16	Ethercon x 2	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
WSG-Y16	Soundgrid		RJ45 x 1	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
MY8-LAKE	AES/EBU	8/8	D-SUB 25P x 1	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
NY CARDS													
NY64-D	Dante	64/64	EtherCON x 2	-	-	-	-	-	-	-	-	-	-
PCIE CARDS													
AIC128-D	Dante	128/128	RJ45 x 2	-	-	-	-	-	-	-	-	-	-
HY CARDS													
HY256-TL	TWINLANe	256/256	Opticalcon x 2	-	-	-	-	-	-	-	-	-	-
HY256-TL-SMF	TWINLANe	256/256	Opticalcon x 2	-	-	-	-	-	-	-	-	-	-
HY144-D	Dante	144/144	Ethercon x 2	-	-	-	-	-	-	-	-	-	-
HY144-D-SRC	Dante	144/144	Ethercon x 2	-	-	-	-	-	-	-	-	-	-
HY128-MD	MADI	128/128	BNC x 4 optical SC x 4	-	-	-	-	-	-	-	-	-	-
HY128-WSG	SoundGrid	128/128	Ethercon x 2	-	-	-	-	-	-	-	-	-	-

MRX7-D	DME64N	DME24N	DA824	TXN	CS-R10	CS-R10S	CSD-R7	CS-R5	CS-R3	DSP-R10	DSP-RX(EX)	RPIO622	RPIO222	TF1/3/5	YTF-rack	AFC4
1	4	1	1	1	2	2	2	2	2	2	2	2	2	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	3	-	-	4	4	2	2	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
yes	yes	yes	-	-	yes	yes	yes	yes	yes	yes	yes	yes	yes	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	yes	yes	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	yes
-	-	-	-	-	-	-	yes	-	-	yes	yes	yes	yes	-	-	-
-	-	-	-	-	-	-	yes	-	-	yes	yes	yes	yes	-	-	-
-	-	-	-	-	-	-	yes	-	-	yes	yes	yes	yes	-	-	-
-	-	-	-	-	-	-	yes	-	-	yes	yes	yes	yes	-	-	-



LIVE STREAMING/GAMING

AS REMOTE COMMUNICATION OF ALL KINDS CONTINUES TO GROW IN IMPORTANCE, PERSONAL LIVE STREAMING HAS BECOME A MAJOR FORM OF ONLINE ENTERTAINMENT.

With platforms such as YouTube Live, Twitch and podcasting offering a diverse range of content and streaming styles - from simple, single-person productions to those which involve multiple voices - live streaming has also seen rapid growth in business and education. Here, an ever-growing number of classes, seminars, meetings and business transactions are being carried out via live streaming.

Foreseeing such demand, Yamaha has constantly evolved its AG series of live streaming mixers, expanded their line-up, added best matching utility and finally added the all new ZG Series to complete the Live Streaming and Gaming products family.

All of which became a de facto industry standard for a wide range of online audio applications. Even users with lower experience can achieve their streaming aspirations, thanks to the flexible input capability, simple intuitive interfaces, onboard DSP effects and LOOPBACK functions, which allow users to integrate for example USB-, HDMI- or TRRS-connected audio signals into their broadcasts.







AG SERIES



ZG SERIES



SOFTWARE FOR
LIVE STREAMING/GAMING

LIVE STREAMING/GAMING

AG SERIES

LIVE STREAMING MIXERS/MICROPHONE



YOUR AUDIENCE AWAITS

The **AG SERIES** has been developed to support streaming operations that require simplicity and real-time performance more than ever before, in order to facilitate connections between people in the world of streaming and communication. Even users with no experience can achieve their streaming aspirations, thanks to the flexible input capability, simple intuitive interface, onboard DSP effects and LOOPBACK function, which allow users to integrate USB-connected audio signals into their broadcasts. The second generation of the AG series expands on these features with the updated **AG06MK2** and **AG03MK2**, plus the brand new **AG08** flagship streaming station, the **AG01** live streaming mic and the **YCM01** condenser mic. All have been developed to satisfy an even more diverse range of uses and are available in either black or white to easily adapt to any streaming environment.

KEY FEATURES

- SIMPLE AND INTUITIVE AUDIO CONTROLS
- HIGH RESOLUTION (192KHZ / 24BIT) PLAYBACK AND RECORDING
- FLEXIBLE CONNECTIVITY
- 1-TOUCH DSP FOR PROFESSIONAL SOUND WITH A SINGLE TOUCH
- AG CONTROLLER APPLICATION
- USB BUS OR MOBILE BATTERY POWERED



DETAILS



AG01 BLACK/WHITE



AG01 CONNECTIONS



AG03/06 SURFACE



AG06 REAR



AG03 LIVE STREAMING PACK



AG CONTROLLER (DETAIL MODE)

QUICK SPECIFICATIONS

	AG01	AG03MK2	AG06MK2
MIXING CHANNELS	1/2	3	6
D-PRE MIC PREAMPS	-	1	2
MIC TYPE	Back electret condenser, cardioid pattern	-	-
INPUT CHANNELS	1x Mic (built-in), 1x Stereo-Mini, 1x 4-pole mini I/O (TRRS), 1x USB	1x Combo, 1x Stereo Line, 1x 4-pole mini I/O (TRRS), 1x USB	2x Combo, 2x Stereo Line, 1x 4-pole mini I/O (TRRS), 1x USB
OUTPUT CHANNELS	1x Stereo-Mini, 1x 4-pole mini I/O (TRRS), 1x USB	1x Phones/Headset, 1x 4-pole mini I/O (TRRS), 1x USB, 1x Monitor	2x Phones/Headset, 1x 4-pole mini I/O (TRRS), 1x USB, 2x Monitor, 1x Stereo Out
EFFECT PROCESSING	COMP/EQ, REVERB (SPX)	COMP/EQ, REVERB (SPX), AMP SIM	COMP/EQ, REVERB (SPX), AMP SIM
USB INTERFACE	2in/2out, 192kHz/24-bit	2in/2out, 192kHz/24-bit	2in/2out, 192kHz/24-bit
PHANTOM POWER	-	CH1 +48V	CH1/2 +48V
HI-Z INSTRUMENT INPUT	-	1x CH1	1x CH2
PAD SWITCH	-	-26 dB	-26 dB
POWER REQUIREMENT	DC 5V, 500mA, 4.5W	DC 5V, 500 mA	DC 5V, 500 mA
DIMENSIONS (W/H/D)	116 x 281 x 118 mm	126 x 63 x 201 mm	152 x 63 x 201 mm

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 192

AG SERIES

AG08: ALL-IN-ONE LIVE STREAMING MIXER



YOUR AUDIENCE AWAITS

As the flagship model of the second-generation **AG SERIES** lineup, the **AG08** combines all the essential functionality of its predecessors with a versatile selection of practical new features to give you a powerful all-in-one streaming station. By integrating more flexible I/O and USB routing options, expanded footswitch functionality, as well as additional DSP effects and improved internal circuitry for class-leading sound, the **AG08** is able to support an impressive depth of live streaming applications, as well as offline audio content creation. From single-user talking, gaming, ASMR, voice acting, or vocal/instrument performances, to multiple personnel applications even on the scale of a full-blown variety show, everything is possible. Aside the extended physical controls (multi-purpose mixer, sample pads, effect pads) the **AG08** comes with the dedicated “AG08 Controller” software for Win/Mac, iOS/Android.

KEY FEATURES

- ALL-IN-ONE LIVE STREAMING SOLUTION
- HIGH RESOLUTION (48KHZ / 24BIT) PLAYBACK AND RECORDING
- MULTIPLE USB I/O AND ROUTING OPTIONS, ASSIGNABLE FADERS
- EXTENDED PHYSICAL CONTROLS (6 SAMPLE PADS, 4 EFFECT PADS)
- DEDICATED „AG08 CONTROLLER“ APPLICATION
- USB BUS OR MOBILE BATTERY POWERED



DETAILS



AG08 SURFACE



AG08 REAR PANEL



AG08 BLACK VERSION



SOUND PADS



EFFECT SECTION/CONTROLS



AG08 CONTROLLER

QUICK SPECIFICATIONS

	AG08
MIXING CHANNELS	8
D-PRE MIC PREAMPS	2
INPUT CHANNELS	1x Combo/Headset, 1x Combo, 3x ST(1/4”TRS ,RCA/mini, 1x TRRS mini /3x USB)
OUTPUT CHANNELS	Monitor (XLR + TRS, 2x PHONES), Mix (TRS), 7/8 (1x TRRS), USB (3x WDM, 9x ASIO)
EFFECT PROCESSING	Voice changer, Amp Sim, COMP-EQ, Delay-Reverb, Ducker, Maximizer
PADS / FADERS	6x Sound pads, 4x FX preset pads, 5x 60mm faders (3x assignable LINE/USB)
USB INTERFACE	4in/4out 24-bit/48kHz USB-C
PHANTOM POWER	+48V on CH1+2
HI-Z INSTRUMENT INPUT	CH2
PAD SWITCH	-26dB on CH1-3
POWER REQUIREMENT	12V 1.5A, USB-C bus powered or PA-150B adaptor
DIMENSIONS (W/H/D)	290 x 88 x 222 mm

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 192

LIVE STREAMING/GAMING

ZG SERIES

GAME STREAMING AUDIO MIXER



MAKE IT YOUR WORLD.

In response to the ever-increasing demand for a more immersive gaming experience, Yamaha has launched its first dedicated game streaming audio mixer. Released alongside the **YH-G01** studio-quality headset, the **ZG01** gaming mixer allows users to customize game audio, their voice and the voice of a chat partner within their gaming environment, while providing high quality sound to both their chat partner and the streaming audience.

Thanks to its decades of advanced acoustic, sound processing and audio software development, Yamaha is the perfect manufacturer to give the almost three billion worldwide gamers a uniquely immersive experience with the new **ZG01** gaming mixer.

The **ZG01** features physical controls designed to intuitively manage the sound for gameplay, voice chat and streaming, plus HDMI ports for connecting consumer game consoles and for building a more extensive gaming sound environment, with a minimum of connectivity and setup.

KEY FEATURES

- **INTUITIVE SOUND AND SOURCE CONTROL FOR GAMERS/STREAMERS**
- **HIGH RESOLUTION (24-BIT/48KHZ) USB AUDIO RECORDING AND PLAYBACK**
- **ZG SOUND PROCESSING (ZG SURROUND, FOCUS MODE/EQ, 3D CHAT SPACE, VOICE CHANGER EFFECTS AND MANY MORE)**
- **2IN/1OUT HDMI CONNECTION (VIDEO: PASS TROUGH)**
- **ZG CONTROLLER APP FOR PRECISE PARAMETER CONTROLS**
- **COMBO IN WITH +48V FOR CONDENSER MICS**



DETAILS



ZG01 SURFACE



ZG01 CONNECTIONS



YH-G01 HEADSET



ZG01 PACK



ZG CONTROLLER (3D-CHAT SPACE)



PHYSICAL EFFECT CONTROLS

QUICK SPECIFICATIONS

	ZG01
INPUT CHANNELS	1x Combo (Mic, +48V), 1x Stereo-Mini, 1x 4-pole Mini-I/O (TRRS), 2x HDMI, 1x USB (2 virtual devices)
OUTPUT CHANNELS	1x Phones, 1x 4-pole Mini-I/O (TRRS), 1x Speaker Out, 1x HDMI, 1x USB (2 virtual devices)
EFFECTS PROCESSING	ZG SURROUND, FOCUS MODE/EQ, 3D VOICE CHAT, VOICE CHANGER
USB INTERFACE	48kHz/24-bit, Type-C
POWER REQUIREMENT	5V DC, 1.5A, 7.5W max.
DIMENSIONS (WXHXD)	195 x 47.5 x 110 mm

	YH-G01
FREQUENCY RESPONSE	20 – 20.000 Hz
IMPEDANCE	35 Ohms
MIC TYPE	Electret condenser
SENSITIVITY	94.4 dB/mW
CONNECTOR	3.55, 4-pole Stereo-mini
WEIGHT	240g
INCL. ACCESSORIES	Microphone, Headset audio splitter cable

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 193

LIVE STREAMING/GAMING

SOFTWARE FOR LIVE STREAMING AND GAMING PRODUCTS

APPLICATIONS FOR AG AND ZG

AG Controller is a software application that allows you to control the DSP functions of the **AG03MK2**, **AG06MK2**, **AG03**, **AG06**, and **AG01** from your Windows / Mac / iOS device via USB connection. **AG08** has an even more powerful, dedicated software application **AG08 CONTROLLER**, that allows to manage all parameters, functions and routing via Mac/Win computers or on iPad OS. **ZG CONTROLLER** is a software application that allows you to control the DSP functions and internal audio settings of the ZG series game streaming mixer from your Windows/Mac device via USB connection. The **REC'N'SHARE APP** enhances the way you practice and allows you to create stunning audio, video and easily share it directly from your smart device.



AG08 CONTROLLER



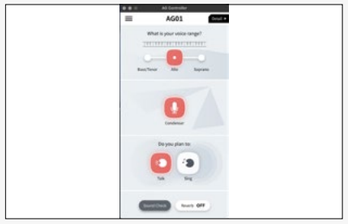
I/O OVERVIEW



PAD SETTINGS



AG CONTROLLER



SIMPLE MODE



DETAIL MODE

AG08 CONTROLLER

- DEDICATED SOFTWARE FOR AG08 FLAGSHIP LIVE STREAMING MIXER
- CONTROLS ALL AG08 FUNCTIONS AND PARAMETERS FOR WIN/MAC COMPUTERS AND IPAD OS
- EDIT AND STORE PRESETS, SCENE RECALL
- MANAGE ALL I/O, EFFECT AND SOUNDPAD SETTINGS
- MANAGE ALL ROUTING OPTIONS (UP TO FOUR VIRTUAL DEVICES)

AG CONTROLLER

- CONTROLS ALL DSP FUNCTIONS OF AG01/AG03/AG03MK2/ AG06/AG06MK2
- FOR WIN/MAC COMPUTERS AND IOS DEVICES VIA USB
- SIMPLE AND DETAIL MODE AVAILABLE
- EDIT AND STORE PRESETS
- CONTROL ALL EFFECT AND AMP SIM PARAMETERS
- MONITOR AND OUTPUT SETTINGS

ZG CONTROLLER

- CONTROLS DSP FUNCTIONS AND INTERNAL AUDIO SETTINGS OF ZG
- FOR WIN/MAC COMPUTERS VIA USB-C
- SOUND CHECK FUNCIONALITY
- EDIT ALL MIC SETTINGS, MIC EFFECTS AND GAME EFFECT PARAMETERS
- HEADPHONE MONITOR SETTINGS
- STREAMING OUTPUT MIXER

REC'N'SHARE

- RECORD AUDIO AND VIDEO ALONG WITH SONGS AND SHARE
- AUDIO TRACK SEPARATION FUNCTION
- MUSIC ANALYSIS FUNCTION
- EDIT FUNCTION
- MANUALS & HELP FUNCTION
- COMPATIBLE WITH AG01/AG03MK2/AG06MK2, IOS ONLY



ZG CONTOLLER



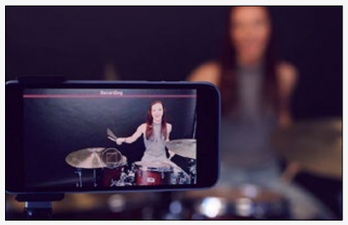
3D CHAT SPACE



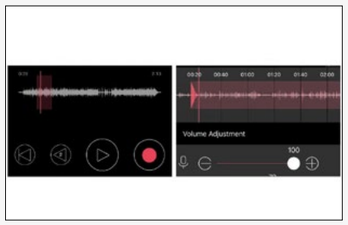
PARAMETER SETTINGS



REC'N'SHARE



SHOOT VIDEOS



EDIT TRACKS

SPECIFICATIONS
LIVE STREAMING/GAMING PRODUCTS

		AG SERIES			
		AG01	AG03MK2	AG06MK2	AG08
		LIVE STREAMING MICROPHONE	**LIVE STREAMING MIXER**		**ALL-IN-ONE LIVE STREAMING MIXER**
FREQUENCY RESPONSE		30 Hz - 20 kHz	+0.5 dB/-1.5 dB (20 Hz to 48 kHz @ Fs = 192 kHz)		
TOTAL HARMONIC DISTORTION		<1% at 1 kHz	0.05% @ 0 dBu (20 Hz to 20 kHz), GAIN knob: min		
INPUT CHANNELS	MONO (MIC/LINE)	1x Mono condenser microphone	1	2	2x Combo In
	MONO/STEREO (MIC/LINE)	-	-		1x Stereo Line
	STEREO (LINE)	1x AUX, 1x Smart-phone (TRRS)	1, add. USB IN & AUX IN	2, add. USB IN & AUX IN	1x RCA, 1x TRRS, 1x AUX, 4x USB I/O
	OTHERS	–	-		-
OUTPUT CHANNELS	STEREO OUT	1x 4-pole mini I/O (TRRS)	-		2x XLR, 1x Stereo line, USB OUT
	MONITOR OUT	-	1	2	1x Stereo line
	PHONES	1x Stereo mini, 1x Headset	1x Stereo jack, 1x Headset		
	AUX SEND	-			
	GROUP OUT	-			
BUS		-	Stereo: 1		Stereo: 1, USB Streaming
INPUT CHANNEL FUNCTION	PAD (MONO)	-	26 dB		
	HPF (MONO, MONO/STEREO)	DSP, editable via AG Controller	DSP, editable via AG Controller		DSP, AG08 Controller App
	COMP (MONO)	DSP, editable via AG Controller	DSP CH1 - COMP, CH2 - AMP SIM, editable via AG Controller		DSP, AG08 Controller App, additional AMP SIM and DUCKER
	EQ	DSP, editable via AG Controller			DSP, AG08 Controller App
	PEAK LED (MONO)	yes	yes (post EQ 3dB below clipping)		
EFFECTS PROCESSING	SPX ALGORITHM	SPX Reverb			
	REV-X	-			
FUNCTION		MUTE button, REVERB switch, tabletop mount, 3/8" thread	MUTE button, COMP/EQ and AMP SIM switch		MUTE buttons, 4x Voice effect preset switches, FX/VC/COMP/EQ hardware controls, 6x Sound pads
USB AUDIO/RECORDING		USB-C, Max. 192 kHz/24bit	USB-C 2in/2out, max. 192 kHz/24bit		USB-C 4in/4out, 48 kHz/24bit
PHANTOM POWER VOLTAGE		-	+48V		
POWER REQUIREMENTS		5V DC, 900 mA	DC 5 V, 500 mA		12V DC, 1.5A
POWER CONSUMPTION		max. 4.5W	Max. 2.5 W		max. 10W
DIMENSIONS (W X H X D)		116 x 281 x 118 mm	129 x 63 x 202 mm	155 x 63 x 202 mm	290 x 88 x 222 mm
NET WEIGHT		1.2 kg	0.8 kg	1.0 kg	2.2 kg
INCLUDED ACCESSORY		USB 2.0 Cable (1.5m), Wavelab Cast and Cubase AI Download Info			Power adapter PA-150B, USB-C Cable (1.5m), Wavelab Cast and Cubase AI Download Info
OPTIONAL ACCESSORY		-	BMS10-A Mic-Stand adaptor, FC5 Footswitch		FC5 Footswitch
OPERATING TEMPERATURE		0 to +40° Celsius			

ZG SERIES	
ZG01	YH-G01
GAME STREAMING MIXER	**GAMING HEADSET**
-	20 Hz - 20 kHz
-	-
1 - Combo (Mic, +48 V phantom power), 3.5 mm (1/8"") mini (Headset mic, Plug-in power)"	-
-	-
1x AUX, Smartphone (TRRS), add. USB and HDMI I/O	-
HDMI 1/HDMI 2; Audio input: 2ch 24-bit/192kHz (Max.), Video signal *1: No video capture function	Electret condenser mic (detachable), 35 Ohms, Sensitivity: 94.4 dB/mW
1x Stereo mini	ø 3.5 mm (1/8") stereo mini plug, 4 pole (CTIA)
-	
1x Headset	
-	
-	
USB Streaming	
-	
DSP, ZG Controller App	
DSP, ZG Controller App	
DSP, ZG Controller App	
-	
ZG SURROUND, FOCUS MODE/EQ, 3D CHAT SPACE, voice changer, game sound effects	
-	
MUTE button, HDMI source selector, 3x Voice Effect switch, 3x Game Sound Effect switch	
USB-C, 48 kHz/24bit	
+48V	
5V DC, 1.5A	
max. 7.5W	
195 x 47.5 x 110 mm	-
0.8 kg	240g (without cable)
USB 2.0 cable (USB-C to USB-C) 1.5 m x 1, USB 2.0 cable (USB-A to USB-C) 1.5 m x 1, Start Guide, Safety Guide"	1x Microphone, 1x Headset splitter audio cable
-	-
0 to +40° Celsius	0 to +40° Celsius



ANALOGUE MIXERS

THERE ARE STILL MANY SITUATIONS WHERE THE ‘GRAB AND TURN’ IMMEDIACY OF AN ANALOGUE MIXER MAY BE MORE CONVENIENT THAN A DIGITAL SYSTEM, ESPECIALLY WHERE BUDGET IS A PRIMARY CONCERN.

Yamaha’s PM series of mixing consoles made its debut in 1972, beginning an audio mixing philosophy that continues to this day. Before digital mixing became the norm, the large format PM4000 was the de-facto standard for mixing many of the world’s highest profile stars around the world.

Even as Yamaha took a global lead in digital audio mixing, the PM5000 took analogue to its logical conclusion by adding moving faders and scene memory, creating the perfect crossover for engineers steeped in the analogue tradition as the world moved into the digital future.

All of that history and technical progress is embodied in Yamaha’s current AG, MG and MGP series analogue mixers, which add selected digital features to provide the best of both worlds. From the ultra-compact yet feature-filled AG and MG06 models to the club-friendly MGP32X, 50 years later Yamaha analogue mixers are still making waves.







MG SERIES



MGP SERIES



SOFTWARE FOR ANALOGUE MIXING CONSOLES

MG SERIES

ANALOGUE MIXERS





ROAD TOUGH. STUDIO READY.

For more than a century, Yamaha has been building a legacy of superior craftsmanship and innovation exemplified in all of our products, from an unrivalled catalog of world-class musical instruments to touring-grade professional audio. Now in its third incarnation, the MG Series embodies this pursuit of design excellence, and incorporates some of the same technologies developed for use in high-end professional consoles, including studio-quality preamps, powerful digital processing, and a rugged, reliable construction. With an intuitive, easy-to-use interface, the MG Series boasts an extensive lineup of compact mixing consoles with models ranging from six to twenty channels, suitable for a diverse range of users and applications. For installed, recording, or live music settings, the solid construction and flexible design of these consoles lets you shape your sound with confidence, continually delivering peak performance and a level of sound quality and reliability unrivalled in its class. All **MG SERIES** consoles feature a metal chassis and balaced XLR outputs. The X-Models all feature a SPX-Effects processor. The XU-Models all come with a Download Access Code for Cubase AI and are compatible with Apple iPad (iPad 2 or later) via the optional Apple Camera Connection Kit/Lightning to USB Camera Adapter. The X-Models all feature a SPX-Effects processor.

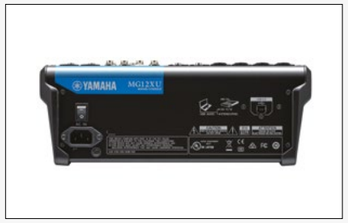
KEY FEATURES

- D-PRE (DISCRETE CLASS-A MIC PREAMPS)
- SWITCHABLE PHANTOM POWER/PAD
- 1-KNOB COMPRESSORS
- SPX DIGITAL EFFECTS / 192 KHZ, 24 BIT USB INTERFACE (XU-MODELS)
- METAL CHASSIS
- INTERNAL UNIVERSAL POWER SUPPLY

DETAILS



MG16XU



MG12XU REAR PANEL



METAL CHASSIS



RK-MG12 RACK-MOUNT KIT FOR MG12XU (OPTION, RACK-MOUNT KIT IS INCLUDED IN MG20XU AND MG16XU)



+48V, 1-KNOB COMPRESSORS



BALANCED OUTPUTS (MG20XU)

QUICK SPECIFICATIONS

	MIXING CHANNELS	1-KNOB COMP.	FX & USB	AUX SENDS	RACK OPTION	DIMENSIONS (W/H/D)
MG20XU	20 (16 Mic/20 Line)	8	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	4 (incl. FX)	included	444 x 130 x 500 mm
MG20	20 (16 Mic/20 Line)	8	-	4	included	444 x 130 x 500 mm
MG16X	16 (10 Mic/16 Line)	8	SPX, 24 programs 192 kHz, 24 bit 2in/2out	4 (incl. FX)	included	444 x 130 x 500 mm
MG16XU	16 (10 Mic/16 Line)	8	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	4 (incl. FX)	included	444 x 130 x 500 mm
MG16	16 (10 Mic/16 Line)	8	-	4	included	444 x 130 x 500 mm
MG12X	12 (6 Mic/12 Line)	4	SPX, 24 programs 192 kHz, 24 bit 2in/2out	2 (incl. FX)	RK-MG12	308 x 118 x 422 mm
MG12XU	12 (6 Mic/12 Line)	4	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	2 (incl. FX)	RK-MG12	308 x 118 x 422 mm
MG12XUK (KNOB VERSION)	12 (6 Mic/12 Line)	4	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	1 (Incl. FX)	-	315 x 91 x 297 mm
MG12	12 (6 Mic/12 Line)	4	-	2	RK-MG12	308 x 118 x 422 mm
MG10X	10 (4 Mic/10 Line)	2	SPX, 24 programs 192 kHz, 24 bit 2in/2out	1 (incl. FX)	-	244 x 71 x 294 mm
MG10XU	10 (4 Mic/10 Line)	2	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	1 (incl. FX)	-	244 x 71 x 294 mm
MG10XUF (FADER VERSION)	10 (4 Mic/10 Line)	2	SPX, 24 programs, 192 kHz, 24 bit 2in/2out, USB Interface	1 (incl. FX)	-	275 x 110 x 390 mm
MG10	10 (4 Mic/10 Line)	2	-	1	-	244 x 71 x 294 mm
MG06X	6 (2 Mic/6 Line)	-	SPX, 6 programs 192 kHz, 24 bit 2in/2out	-	-	149 x 62 x 202 mm
MGO6	6 (2 Mic/6 Line)	-	-	-	-	149 x 62 x 202 mm

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 202

MGP SERIES

PREMIUM ANALOGUE MIXERS



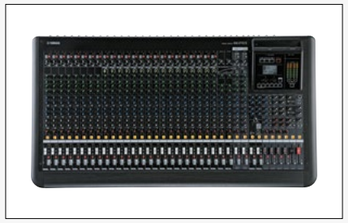
DIGITAL HEART. ANALOG SOUL.

Yamaha has provided an impressive range of lineups in professional audio since the release of the PM200 in 1972 - our first ever professional analog mixing console. In 1987, we also released our first digital mixer, the DMP7, and have subsequently advanced technological innovations in sound quality, reliability and advanced functionalities with cutting-edge digital technologies. Drawing from our decades of experience crafting innovative, premium analog gear, we originally developed our new discrete Class-A microphone preamps for professional use in our high-end recording equipment. Utilizing an inverted Darlington circuit design, our newly-refined D-PRE mic preamps deliver a fat, rich, smooth tone that gives the MGP Series a significant advantage over any other mixer in its class. With Yamaha's proprietary X-pressive EQ we've managed to capture ultimate analog authenticity by unlocking the mysterious secret behind the expressive sound shaping capabilities of sought-after classic EQ modules. At the heart of the MGP's compact configuration, we've taken an innovative new approach to the utilization of digital technology in an analog mixer; adding high-resolution effects, iPod/iPhone integration and the superb functionality of our new Stereo Hybrid Channel to the warmth and musicality of premium analog sound. The **MGP SERIES** represents the ultimate balance of the converging technologies that are the heart and soul of Yamaha's extraordinary achievements in professional audio.

KEY FEATURES

- **D-PRE (DISCRETE CLASS-A MIC PREAMPS)**
- **X-PRESSIVE EQ (BASED ON YAMAHA'S VCM TECHNOLOGY)**
- **1-KNOB COMPRESSORS WITH LED INDICATORS**
- **DUAL DIGITAL EFFECT PROCESSORS (REV-X & SPX)**
- **TWO HYBRID CHANNELS WITH DSP EFFECTS (DUCKER, STEREO IMAGE, LEVELER)**
- **MASTER USB REC/PLAY, iPhone CONTROL VIA MGP EDITOR APP**

DETAILS



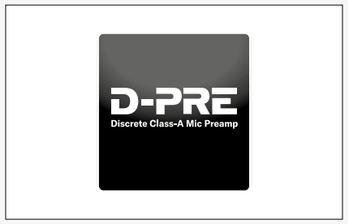
MGP32X



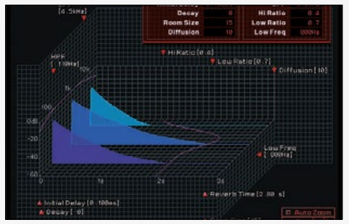
MGP MASTER SECTION DETAIL



MGP REAR PANEL



D-PRE



REV-X



MGP24X

QUICK SPECIFICATIONS

	MGP24X	MGP32X
MIXING CHANNELS	24	32
D-PRE MIC PREAMPS	16	24
1-KNOB COMPRESSORS	8	16
EQUALIZER	3-band X-Pressive	3-band X-Pressive
FX PROCESSORS	SPX and REV-X	SPX and REV-X
HYBRID CHANNELS	2 with DSP (Priority Ducker, Leveller, Stereo Image)	2 with DSP (Priority Ducker, Leveller, Stereo Image)
IPOD/IPHONE APP	Yes (USB connect & charge)	Yes (USB connect & charge)
MASTER COMPRESSOR	3-band	3-band
GRAPHIC EQ	Feature 14-band & Flex 9-band	Feature 14-band & Flex 9-band
USB DEVICE RECORDING	Yes (WAV or MP3)	Yes (WAV or MP3)
AUX-SENDS	4 (2x Pre & 2x Pre/Post switchable)	4 (2x Pre & 2x Pre/Post switchable)
GROUPS	4	4
MATRIX	2	2
RACKMOUNTS	-	-
DIMENSIONS (W/H/D)	819 x 169 x 495 mm	1207 x 169 x 565 mm

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 203

SOFTWARE FOR ANALOGUE MIXING CONSOLES

APPLICATIONS FOR YAMAHA ANALOG MIXING CONSOLES

Discover our software and applications for PC, iPad, iPhone, and Android, which offer useful solutions for creating sound design. The MGP Editor is a free software application that gives you additional control of your MGP mixer's DSP settings via your iPhone, iPod touch, and iPad. The MG Rec & Play software application enables high-quality recording, as well as fast and easy playback of songs and sound effects, by simply connecting your iPhone/iPad to any MG Series XU model.



MGP EDITOR 1



MGP EDITOR 2



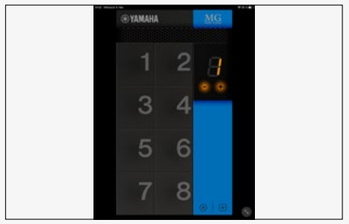
MGP EDITOR 3

MGP EDITOR

- FREE APP FOR iPhone AND iPod Touch
- CONTROL FOR REV-X AND SPX EFFECT PARAMETERS
- CONTROL FOR HYBRID CHANNELS (PRIORITY DUCKER/LEVELLER/ATTENUATOR)
- GEQ AND MASTERCOMPRESSOR SETTINGS
- REQUIRES A MGP MIXING CONSOLE
- WIRED CONNECTION VIA USB



MG REC & PLAY 1



MG REC & PLAY 2



MG REC & PLAY 3

MG REC & PLAY

- FREE APP FOR iPhone AND iPad
- SIMPLE RECORDING FUNCTION FOR THE 2-TRACK STEREO BUS (44.1/48/96 KHZ)
- FAST AND EASY PLAYBACK OF SONGS AND SOUND EFFECTS
- Apple CAMERA CONNECTION KIT OR LIGHTNING-TO-USB ADAPTER REQUIRED
- WORKS WITH ANY MG-XU MODEL



ANALOGUE MIXERS

SPECIFICATIONS
ANALOGUE MIXING CONSOLES

		MG SERIES				
		MG06	MG06X	MG10	MG10X	MG10XU
FREQUENCY RESPONSE		+0.5 dB/-0.5 dB (20 Hz to 20 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min		+0.5 dB/-1.0 dB (20 Hz to 48 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min		
TOTAL HARMONIC DISTORTION		0.01 % @ +8 dBu (20 Hz to 20kHz), GAIN knob: Min		0.02 % @ +14 dBu (20 Hz to 20kHz), GAIN knob: Min		
INPUT CHANNELS	MONO (MIC/LINE)	2		4		
	MONO/STEREO (MIC/LINE)	-		-		
	STEREO (LINE)	2		3		
OUTPUT CHANNELS	STEREO OUT	2				
	MONITOR OUT	-		1		
	PHONES	1				
	AUX SEND	-		1		
	GROUP OUT	-		-		
BUS		Stereo: 1		Stereo: 1, AUX: 1	Stereo: 1, AUX/FX: 1	
INPUT CHANNEL FUNCTION	PAD (MONO)	26 dB				
	HPF (MONO, MONO/STEREO)	80 Hz, 12 dB/oct (Mono)				
	COMP (MONO)	-		1-knob compressor		
	EQ	2-band		3-band		
	PEAK LED (MONO)	Yes (post EQ 3 dB below clipping)				
EFFECTS PROCESSING	SPX ALGORITHM	-	6	-		24
	REV-X	-	-	-		-
USB AUDIO/RECORDING		-	-	-	2in / 2out, Max. 192 kHz, 24 bit	USB 2in / 2out, Max. 192 kHz, 24 bit
PHANTOM POWER VOLTAGE		+48V				
POWER REQUIREMENTS		AC 100-240 V, 50/60 Hz				
POWER CONSUMPTION		12 W	12 W	22.9 W		
DIMENSIONS (W X H X D)		149 x 62 x 202 mm		244 x 71 x 294 mm		
NET WEIGHT		0.9 kg (1.98 lbs.)		1.9 kg (4.19 lbs.)	2.1 kg (4.63 lbs.)	
INCLUDED ACCESSORY		AC Adaptor, Owner's Manual, Tech. Specs			AC Adaptor, Owner's Manual, Tech. Specs, CUBASE AI download info	
OPTIONAL ACCESSORY		BMS10-A Mic-Stand adaptor			BMS10-A Mic-Stand adaptor, FC5 Footswitch	
OPERATING TEMPERATURE		0 to +40° Celsius				

		MG SERIES									MGP SERIES	
		MG10XUF	MG12	MG12X	MG12XU	MG12XUK	MG16	MG16X	MG16XU	MG20	MG20XU	MGP24X	MGP32X
FREQUENCY RESPONSE		+0.5 dB/-1.5 dB (20Hz to 48 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min				0.02 % @ +14 dBu (20 Hz to 20kHz), GAIN knob: Min	+0.5 dB/-1.5 dB (20Hz to 48 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min					+0.5/-1.0dB 20Hz - 20kHz, refer to the nominal output level @1kHz, GAIN knob: Min	
TOTAL HARMONIC DISTORTION		0.03% @ +14dBu (20 Hz to 20 kHz), GAIN knob: min										0.02% @ +14dBu (20 Hz to 20 kHz), GAIN knob: min	
INPUT CHANNELS	MONO (MIC/LINE)	4	4	4	4	6	8	8	8	12	12	16	24
	MONO/STEREO (MIC/LINE)	-	2	2	2	0	2	2	2	4	4	-	
	STEREO (LINE)	3	2	2	2	3	2	2	2	0	0	4	
OUTPUT CHANNELS	STEREO OUT	2										1	
	MONITOR OUT	1										1, add. MATRIX Out	
	PHONES	1										1	
	AUX SEND	1	2	2	2	2	4	4	4	4	4	6+2	6+2
	GROUP OUT	-	2	2	2	2	4	4	4	4	4	4	
BUS		Stereo: 1, AUX/FX: 1	Stereo: 1, GROUP: 2, AUX: 2	Stereo: 1, GROUP: 2, AUX: 2 (incl. FX)		Stereo: 1, GROUP: 0, AUX: 1 (incl.FX)	Stereo: 1, GROUP: 4, AUX: 4	Stereo: 1, GROUP: 4, AUX: 4 (incl. FX)		Stereo: 1, GROUP: 4, AUX: 4	Stereo: 1, GROUP: 4, AUX: 4 (incl. FX)	Stereo: 1, GROUP: 4, AUX: 6, FX: 2	Stereo: 1, GROUP: 4, AUX: 6, FX: 2
INPUT CHANNEL FUNCTION	PAD (MONO)	26 dB										26 dB	
	HPF (MONO, MONO/STEREO)	80 Hz, 12 dB/Oct. (Mono/Stereo: MIC only)				80 Hz, 12 dB/oct (Mono)	80 Hz, 12 dB/Oct. (Mono/Stereo: MIC only)					100 Hz, 12 dB/Oct.	
	COMP (MONO)	1-knob compressor										1-knob compressor, 2 hybrid channel DSP	
	EQ	3-band										X-pressive 3-band	
	PEAK LED (MONO)	Yes (post EQ 3 dB below clipping)										Yes (post EQ 3 dB below clipping)	
EFFECTS PROCESSING	SPX ALGORITHM	24	-	24	24	24	-	24	24	-	24	16	
	REV-X	-	-	-	-	-	-	-	-	-	-	8	
USB AUDIO/RECORDING		USB 2in / 2out, Max. 192 kHz / 24 bit	-	2in / 2out, Max. 192 kHz / 24 bit	USB 2in / 2out, Max. 192 kHz / 24 bit		-	2in / 2out, Max. 192 kHz / 24 bit	USB 2in / 2out, Max. 192 kHz / 24 bit	-	USB 2in / 2out, Max. 192 kHz / 24 bit	USB Device Recording (WAV or MP3)	
PHANTOM POWER VOLTAGE		+48V										+48V	
POWER REQUIREMENTS		AC 100-240 V, 50/60 Hz										AC 100-240 V, 50/60 Hz	
POWER CONSUMPTION		22.9 W	22 W	22 W	22 W	22.9 W	30 W			36 W		76 W max.	86 W max.
DIMENSIONS (W X H X D)		275 x 110 x 390 mm	308 x 118 x 442 mm	308 x 118 x 442 mm	308 x 118 x 442 mm	315 x 91 x 297 mm	444 x 130 x 500 mm					819 x 169 x 565 mm	1027 x 169 x 565 mm
NET WEIGHT		3.3 kg (7.3 lbs.)	4.0 kg (8.8 lbs.)	4.2 kg (9.3 lbs.)	4.2 kg (9.3 lbs.)	3.0 kg (6.62 lbs.)	6.6 kg (14.6 lbs)	6.8 kg (15.0 lbs.)	6.8 kg (15.0 lbs.)	6.9 kg (15.2 lbs.)	7.1 kg (15.7 lbs.)	15.5 kg (34.9 lbs.)	19 kg (41.9 lbs.)
INCLUDED ACCESSORY		AC Adaptor, Owner's Manual, Tech. Specs, CUBASE AI download info	Owner's Manual, Tech. Specs, AC power cord	Owner's Manual, Tech. Specs, AC power cord, CUBASE AI download info			Owner's Manual, Tech. Specs, AC power cord, Rack-mount kit	Owner's Manual, Tech. Specs, AC power cord, Rackmount kit, CUBASE AI download info		Owner's Manual, Tech. Specs, AC power cord, Rack-mount kit	Owner's Manual, Tech. Specs, AC power cord, Rack-mount kit, CUBASE AI down-load info	Owner's Manual, Tech. Specs, AC power cord, Rack-mount kit	
OPTIONAL ACCESSORY		FC5 Foots-witch	RK-MG12 Rack-mount kit	RK-MG12 Rackmount kit, FC5 Footswitch		FC5 Foots-witch	-	FC5 Footswitch		-	FC5 Foots-witch	FC5 Footswitch	
OPERATING TEMPERATURE		0 to +40° Celsius										0 to +40° Celsius	

ANALOGUE MIXERS



YAMAHA

AUDIO SOLUTIONS FOR CONFERENCING

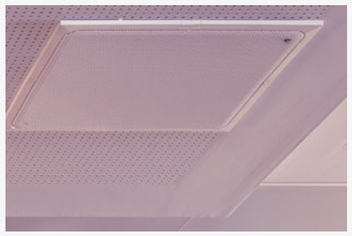
With new and ever-changing communication requirements, one thing remains the same: the need for high-quality, worry-free audio for collaboration. **ADECIA** helps organizations overcome challenges with implementation, configuration and room acoustics by providing all components required for a successful installation - designed to work seamlessly together to reduce set up time, costs and complexities.



Complete and Customizable Communications Solutions

ADECIA















COMPLETE COVERAGE FROM SOUND INPUT TO OUTPUT
ADECIA helps organizations overcome challenges with implementation, configuration and room acoustics by providing all components required for a successful installation - designed to work seamlessly together to reduce set up time, costs and complexities.

REDUCE TIME, SPEND AND COMPLEXITIES
Audio/control signals can be transmitted with one network cable using the audio network standard, “Dante”, solving troublesome wiring and installation problems.

NATURAL AND COMFORTABLE CONVERSATION EXPERIENCES
Each microphone is equipped with various processing functions and when combined with Yamaha’s original voice processing technology “HVAD” (Human Voice Activity Detection), it provides a smooth and stress-free remote conferencing experience. HVAD is Yamaha’s technology to distinguish human voice from background noises. HVAD captures human voices and suppresses background noises, delivering a clear signal to the far end no matter where you meet.

BEST AUDIO IN SHORTEST TIME
ADECIA automatically detects all components and configures them to be optimized for the room environment, taking into consideration location of speakers and microphones, reverberation characteristics of the room, and echo behavior. Setting up a room can be as easy as following the configurator through four steps of configuration

CUSTOMIZATION OPTIONS TO FIT YOUR USE CASE
By offering a wide range of variations such as ceiling array microphones, tabletop array microphones, and wireless microphone systems, ADECIA meets the demands of different audio solutions for each conference, meeting or learning space and provides operations suitable for various environments.

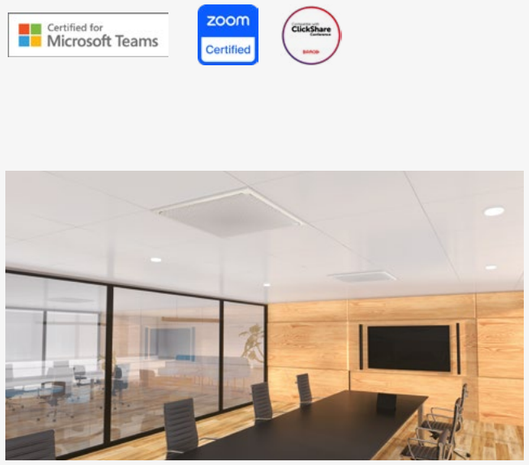
INTEGRATION INTO ALL AUDIO ENVIRONMENTS
Equipped with various interfaces such as USB, Bluetooth®, SIP, and analog audio input/output terminals, the system allows the flexibility to use both web conference systems and telephone line conferences. Supporting Windows, macOS, iOS and Android, as well as compliance with market leading UC applications, ADECIA gives you the flexibility to customize the solution to your specific needs.

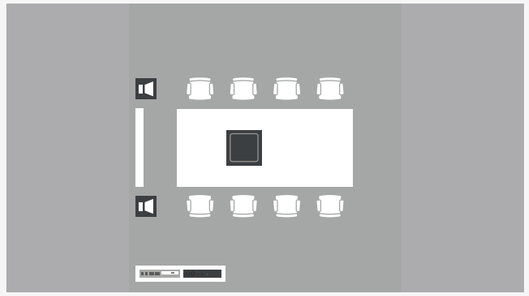
AUDIO SOLUTIONS FOR CONFERENCES

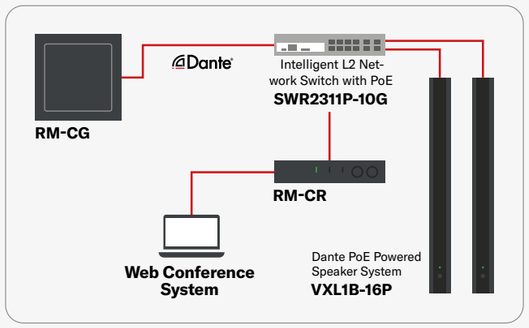
FLEXIBLE APPLICATION SUPPORT

CEILING SOLUTION

WITH A SIMPLE AND SOPHISTICATED DESIGN, THE UNIT BLENDS INTO HIGH-END SPACES AND ENABLES A CLEAN AND CLEAR TABLE.

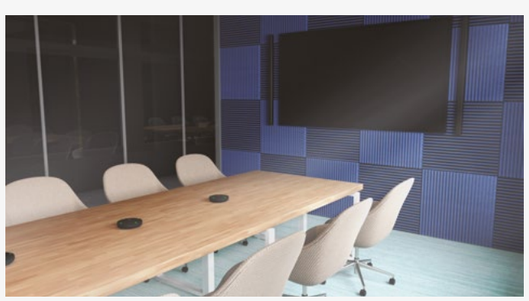


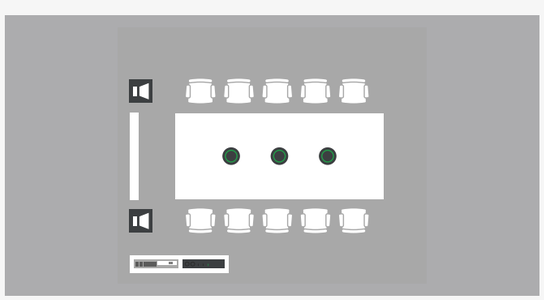


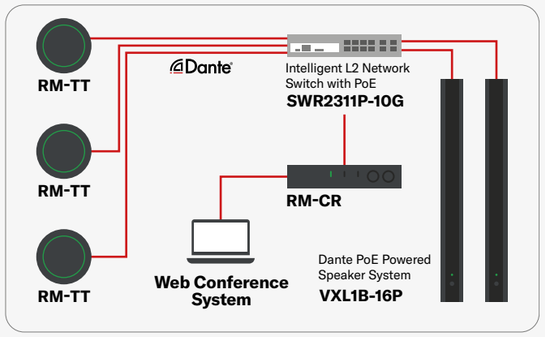


TABLETOP SOLUTION

SCALE AND EXPAND YOUR COVERAGE WITH THE ABILITY TO INCREASE THE NUMBER OF MICROPHONES USED TO FIT YOUR PARTICIPANT COUNT. UP TO 14 MICROPHONE PODS (4 MICS PER POD) SIMPLY CONNECT TO THE POE SWITCH.

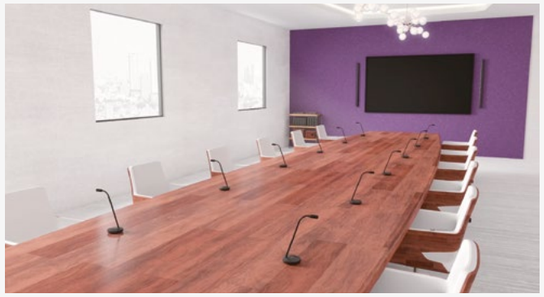


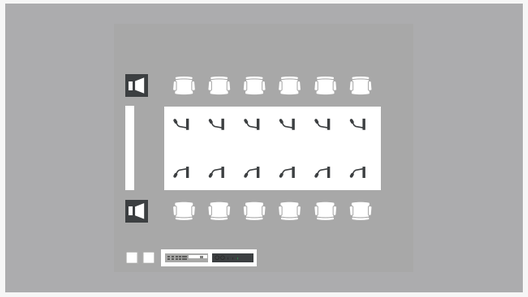


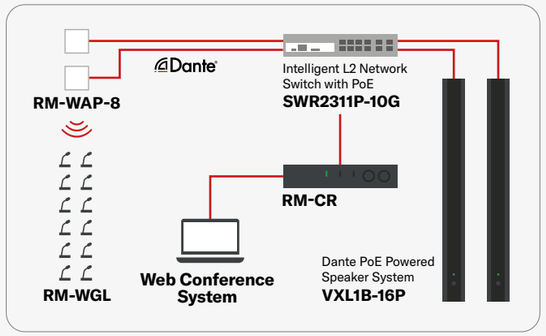


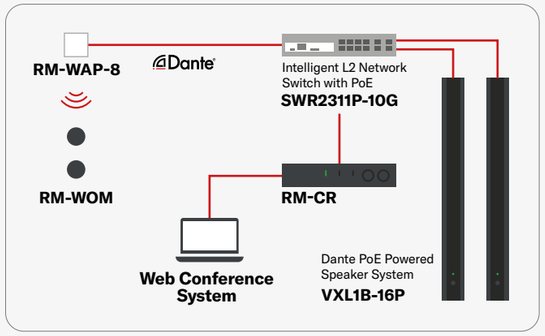
WIRELESS SOLUTION

FLEXIBILITY TO CHOOSE BETWEEN GOOSENECK AND BOUNDARY MICROPHONES TO ADAPT TO YOUR USE-CASE, CREATING THE MOST COMFORTABLE CONFERENCING SPACE WITHOUT WORRYING ABOUT WIRING OR CONFIGURATION CHANGES SHOULD THE LAYOUT CHANGE.

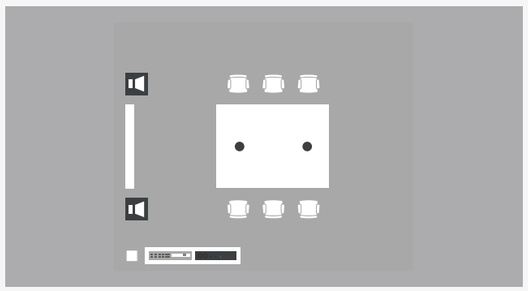












CUSTOMIZATION

THE NEW YAMAHA ADECIA MICROPHONE COMPONENTS CAN ALSO BE INTEGRATED WITH OTHER YAMAHA OR THIRD PARTY COMPONENTS FOR REQUIRED SOLUTIONS WITH THE OPEN API.

* ProVisionaire or RM Device Finder may be required, please refer to the reference guide for details.
- ProVisionaire: customizable control panel software for Yamaha PA systems
- RM Device Finder: application software for searching RM components in the network

CUSTOMIZATION OPTIONS

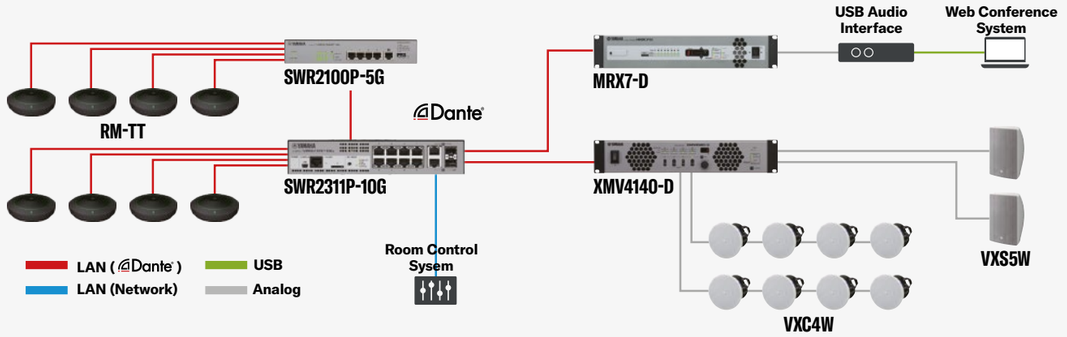
THE OPEN INTERFACES AND STANDARDS BASED INTEGRATION OPTIONS OF THE ADECIA COMPONENTS ALLOW EASY INTEGRATION IN OTHER CUSTOMIZED SOLUTIONS. SOME EXAMPLES OF THAT ARE:

- Expand the number of microphones beyond the number supported within the ADECIA solution
- Expand solutions to peripheral devices not part of the ADECIA family, e.g. amplifiers or speakers

RM-TT SYSTEM EXAMPLE

YAMAHA CUSTOMIZED CONFIGURATION EXAMPLE

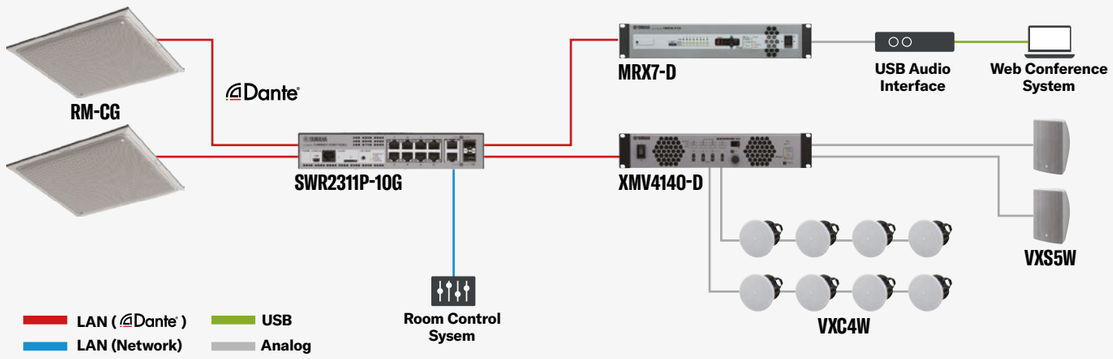
- TABLETOP ARRAY MICROPHONE RM-TT
- SIMPLE L2 NETWORK SWITCH WITH POE SWR2100P-10G
- SIMPLE L2 NETWORK SWITCH WITH POE SWR2100P-5G
- SIGNAL PROCESSOR MRX7-D
- POWER AMPLIFIER XMV4140-D
- CEILING SPEAKER VXC4W
- SPEAKER SYSTEM VXS5W
- USB AUDIO INTERFACE
- ROOM CONTROL SYSTEM



RM-CG SYSTEM EXAMPLE

YAMAHA CUSTOMIZED CONFIGURATION EXAMPLE

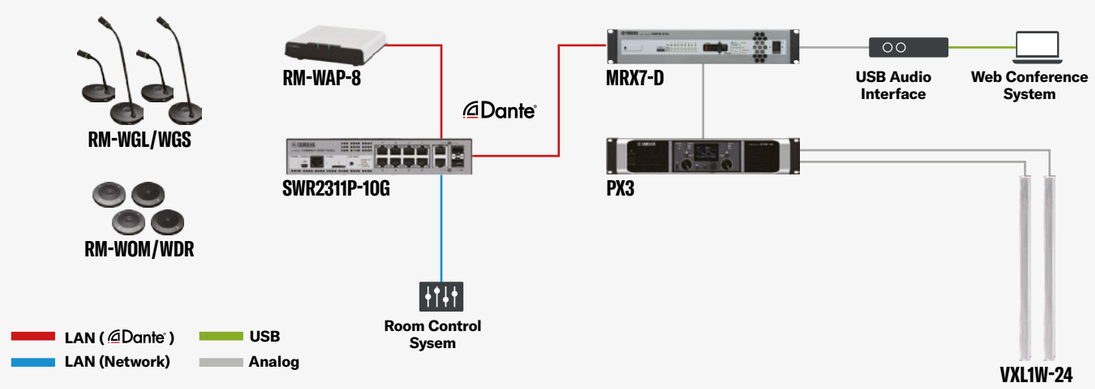
- CEILING ARRAY MICROPHONE RM-CG
- INTELLIGENT L2 NETWORK SWITCH WITH POE SWR2311P-10G
- SIGNAL PROCESSOR MRX7-D
- POWER AMPLIFIER XMV4140-D
- CEILING SPEAKER VXC4W
- SPEAKER SYSTEM VXS5W
- USB AUDIO INTERFACE
- ROOM CONTROL SYSTEM



RM-W SYSTEM EXAMPLE

YAMAHA CUSTOMIZED CONFIGURATION EXAMPLE

- WIRELESS MICROPHONE SYSTEM RM-W SERIES
- INTELLIGENT L2 NETWORK SWITCH WITH POE SWR2311P-10G
- SIGNAL PROCESSOR MRX7-D
- POWER AMPLIFIER PX3
- SPEAKER SYSTEM VXL1W-24
- USB AUDIO INTERFACE
- ROOM CONTROL SYSTEM



FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 218

RM-CG

CEILING ARRAY MICROPHONE



CEILING ARRAY MICROPHONE

A ceiling array microphone equipped with unique audio signal processing technology that enables high-quality communication

KEY FEATURES

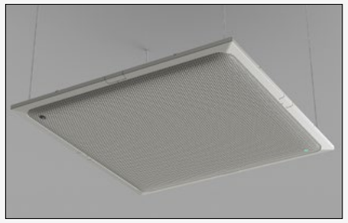
- **“MULTI-BEAM TRACKING” THAT SCANS FOR HUMAN VOICE AND TRACKS SIMULTANEOUS SPEECH ALLOWING FOR LIVELY CONVERSATIONS**
- **UTILIZES INNOVATIVE YAMAHA TECHNOLOGIES LIKE ADAPTIVE ECHO CANCELLER, AUTO GAIN CONTROL, NOISE REDUCTION, AND DEREVERBERATION**
- **AUTOMATIC DETECTION AND CONFIGURATION WITH REMOTE CONFERENCE PROCESSOR RM-CR**
- **STANDARD NETWORK AUDIO SUPPORT FOR “DANTE”**
- **UTILIZES ONE NETWORK CABLE CONNECTION AVOIDING TROUBLESOME WIRING AND ENABLING AUDIO CONTROL VIA DANTE**
- **SUPPORTS 3 TYPES OF MOUNTING METHODS FOR USE WITH A VARIETY OF CEILING CONDITIONS**



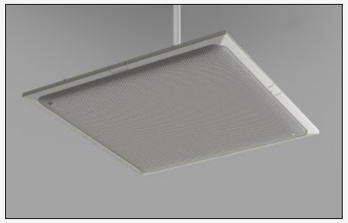
DETAILS



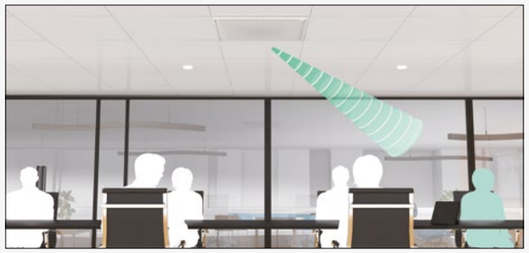
CEILING MOUNT



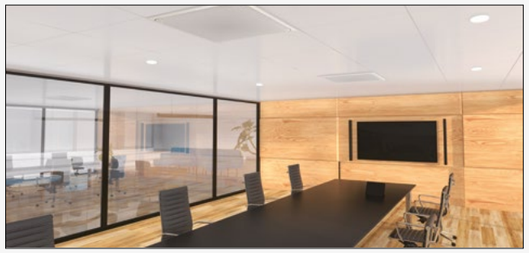
WIRE MOUNT



VESA MOUNT



Multi-beam Tracking is a signal processing technology that can track multiple speaking participants by combining the use of beamforming technology to form directivity with multiple microphone elements to pick up sound. With multiple beams, each beam tracks different speakers’ voices when multiple speakers are present.



With a simple and sophisticated design, the unit blends into high-end spaces and enables a clean and clear table.

QUICK SPECIFICATIONS

	RM-CG
DIMENSIONS	W 560 × D 560 × H 90 mm
WEIGHT	5.6 kg
AUDIO I/O DANTE	1in/2out
SAMPLING RATE	48 kHz
BIT DEPTH	24 bit
FREQUENCY RESPONSE	160 Hz – 16 kHz (-10 dB)
SENSITIVITY	-23.8 dBFS/Pa
DYNAMIC RANGE	118.6 dBA
SIGNAL PROCESSING	Multi Beam Tracking, Adaptive Echo Canceler, Noise Reduction, Dereverberation, Auto Mixer, Auto Gain Control, Parametric EQ, Output Gain

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 218

RM-TT

TALETOP ARRAY MICROPHONE





TABLETOP ARRAY MICROPHONE

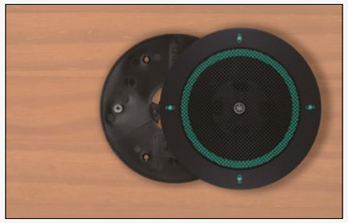
Tabletop array microphones provide a comfortable sound environment with no configuration needed

KEY FEATURES

- AUTO VOICE TRACKING ALLOWS FOR FLEXIBLE ROOM LAYOUT AND PARTICIPANT POSITIONING
- 6 TYPES OF MICROPHONE DIRECTIVITY TO CHOOSE FROM, DEPENDING ON YOUR ENVIRONMENT AND AUDIO NEEDS
- ACHIEVES COMFORTABLE SOUND QUALITY USING THE INTEGRATED ADAPTIVE ECHO CANCELLER, AUTO GAIN CONTROL, NOISE REDUCTION, AND DEREVERBERATION
- WHEN USING AUTO VOICE TRACKING, RM-CR AUTOMATICALLY SELECTS THE MICROPHONE ELEMENT THAT PROVIDES THE BEST AUDIO SIGNAL OF THE VOICE
- STANDARD NETWORK AUDIO SUPPORT FOR “DANTE”
- THE INCLUDED ACCESSORY ALLOWS FOR FIXED INSTALLATIONS OF THE MICROPHONES ON TABLES



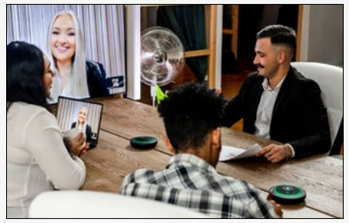
DETAILS



DIFFERENT OPERATING MODES
DISPLAYED VIA LEDS



AUTO VOICE TRACKING



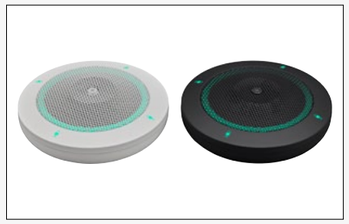
HIGH STABILITY, AUTOMATICALLY ADAPTED
TO THE ENVIRONMENT



SPECIAL CABLE ROUTING
SIMPLIFIES INSTALLATION



TABLETOP MOUNTING ADAPTOR



USER FRIENDLY DESIGN,
AVAILABLE IN BLACK AND WHITE

QUICK SPECIFICATIONS

	RM-TT
DIMENSIONS	W140 mm × D140 mm × H41.5 mm
WEIGHT	310 g
AUDIO I/O DANTE	1in / 2 Out
SAMPLING RATE	48 kHz
BIT DEPTH	24 bit
FREQUENCY RESPONSE	160 Hz – 16 kHz (-10db)
SENSITIVITY	-12.8 dBFS/Pa
DYNAMIC RANGE	100.5 dBA
SIGNAL PROCESSING	Auto Voice Tracking, AEC, NR, Dereverberation, Auto Mixer, AGC, User PEQ, Output Gain, Selectable Polar Pattern
POLAR PATTERN MODI	Cardioid, Hyper Cardioid, Super Cardioid, Omni, Bi-Directional, Toroid

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 218

RM-W SERIES

WIRELESS MICROPHONE SYSTEM



WIRELESS MICROPHONE SYSTEM

Flexible wireless microphones system customized to your use case

KEY FEATURES

- WIRELESS SYSTEM USING 1.9GHZ, COMPOSED OF ACCESS POINT, MICROPHONE, AND CHARGING STATION
- THE ACCESS POINT SUPPORTS 16 CHANNELS (RM-WAP-16) OR 8 CHANNELS (RM-WAP-8)
- AVAILABLE MICROPHONES: 15 CM GOOSENECK, 30 CM GOOSENECK, OMNIDIRECTIONAL BOUNDARY AND CARDIOID DIRECTIONAL BOUNDARY
- APPROXIMATELY 20 HOURS OF CONTINUOUS MICROPHONE OPERATION TIME USING THE INCLUDED LI-ION BATTERY
- STANDARD NETWORK AUDIO SUPPORT FOR “DANTE”
- THE WEB UI SETUP WIZARD ALLOWS FOR EFFORTLESS CONFIGURATION, MICROPHONE PAIRING, AUDIO ROUTING, AND OTHER SYSTEM MANAGEMENT



DETAILS



RM-WDR
WIRELESS DIRECTIONAL
TABLETOP MICROPHONE



RM-WOM
WIRELESS OMNIDIRECTIONAL
TABLETOP MICROPHONE



RM-WAP-16/RM-WAP-8
16/8 CHANNEL WIRELESS ACCESS POINT



RM-WGL
WIRELESS 30CM
GOOSENECK MICROPHONE



RM-WGS
WIRELESS 15 CM
GOOSENECK MICROPHONE



RM-WCH-8
MICROPHONE CHARGING STATION

QUICK SPECIFICATIONS

	RM-WDR	RM-WOM	RM-WGL	RM-WGS
DIMENSIONS	W89.0 x H26.0 x D89.0 mm	W89.0 x H26.0 x D89.0 mm	W89.0 x H308.0 x D89.0 mm	W89.0 x H171.0 x D89.0 mm
WEIGHT	130g	130g	152g	140g
AUDIO I/O DANTE	1in/2out	1in/2out	1in/2out	1in/2out
SAMPLING RATE	48 kHz	48 kHz	48 kHz	48 kHz
BIT DEPTH	24 bit	24 bit	24 bit	24 bit
FREQUENCY RESPONSE	160 Hz – 16 kHz (-10 dB)	160 Hz – 16 kHz (-10 dB)	160 Hz – 16 kHz (-10 dB)	160 Hz – 16 kHz (-10 dB)
SENSITIVITY	-15.4dBFS/Pa	-14.0dBFS/Pa	-20.0dBFS/Pa	-20.0dBFS/Pa
DYNAMIC RANGE	76.1dBA	82.2dBA	77.6dBA	77.6dBA
SIGNAL PROCESSING	Adaptive Echo Canceller, Noise Reduction, Dereverberation, Auto Gain Control, Parametric EQ, Output Gain			
DIRECTIVITY	Unidirectional (Sensitibity: 120°)	Omnidirectional (Sensitivity: 360°)	Unidirectional (Sensitivity: 90°)	

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 218

RM-CR

REMOTE CONFERENCE PROCESSOR



REMOTE CONFERENCE PROCESSOR

Signal processor at the heart of the ADECIA

KEY FEATURES

- UP TO 4 UNITS OF RM-CG, OR 14 RM-TT MICROPHONES, OR 2 RM-WAP-8 ACCESS POINTS, AND 2 VXL1-16P SPEAKERS CAN BE CONNECTED TO THE PROCESSOR
- AUTOMATICALLY RECOGNIZES CONNECTED DEVICES ON THE SAME NETWORK FOR AUDIO ROUTING
- EQUIPPED WITH THE AUTO TUNING FUNCTIONS THAT AUTOMATICALLY MEASURE AND PROVIDE THE OPTIMUM SOUND SETTINGS FOR THE ENVIRONMENT
- INCLUDES THE AUTO MIXER FUNCTIONS THAT AUTOMATICALLY OPTIMIZES THE MIXING BALANCE OF AUDIO INPUT VIA DANTE
- SUPPORTING VARIOUS INPUT/OUTPUT CONNECTIONS SUCH AS USB, VOIP, ANALOG AUDIO, AND BLUETOOTH
- STANDARD NETWORK AUDIO SUPPORT FOR “DANTE”; ALL COMPATIBLE DEVICES CAN BE CONNECTED WITH NETWORK CABLES



DETAILS



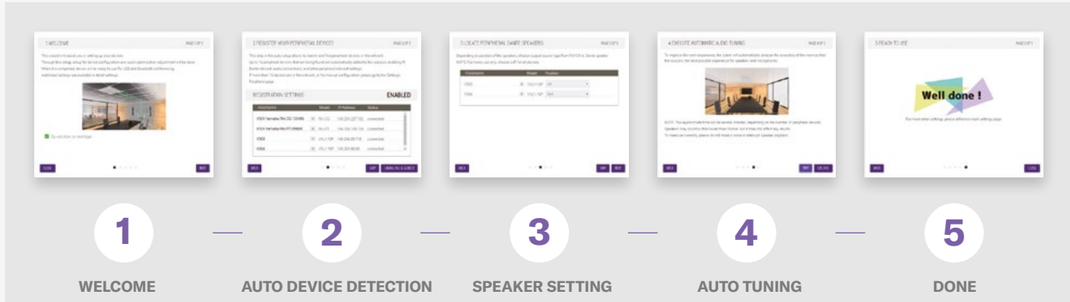
RM-MRK
OPTIONAL RACK MOUNT KIT



RM-MTL
OPTIONAL TABLE MOUNT KIT

QUICK SETUP

FOLLOW THE SETUP WIZARD ON YOUR WEB BROWSER AND WITH JUST A FEW CLICKS IT WILL AUTOMATICALLY ADJUST THE AUDIO ACCORDING TO YOUR SYSTEM’S AUDIO ROUTING AND ROOM ENVIRONMENT.



QUICK SPECIFICATIONS

	RM-CR
DIMENSIONS	W215 mm x D260 mm x H44 mm
WEIGHT	1.6 kg
AUDIO I/O DANTE	16in/16out
SAMPLING RATE	48 kHz
BIT DEPTH	24 bit
FREQUENCY RESPONSE	160 Hz – 16 kHz (-10 dB)
USB	USB 2.0, Audio Class 1.0, Input: 2ch, Output: 2ch @48 kHz
MIC INPUT	XLR balanced, Input 2ch
AUX	RCA unbalanced (Line Level), Input: 2ch, Output: 2ch
SPEAKER OUT	RCA unbalanced (Line Level), Output: 2ch

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 218

MICROPHONES & PROCESSORS FOR CONFERENCING

SPECIFICATIONS
PROCESSORS & MICROPHONES

		NETWORKED PROCESSOR	NETWORKED MICROPHONES	
		RM-CR	RM-CG	RM-TT
DEVICE		Remote conference processor	Ceiling Array microphone	Table Top array microphone
DIMENSIONS W X H X D		215 x 44 x 260 mm	560 x 90 x 560 mm	140 x 41.5 x 140 mm
WEIGHT		1.6 kg	5.6 kg	310 g
POWER REQUIREMENTS		PoE+ class 3 (IEEE802.3at, LLDP)	PoE class 3 (IEEE 803af)	
MAXIMUM POWER CONSUMPTION		15 W	7.2 W	4.5 W
POWER CONNECTOR		RJ45	RJ45	
APPROXIMATE BATTERY TIME	TALK	-	-	
	STAND BY	-	-	
	CHARGE	-	-	
OPERATING ENVIRONMENT - IN OPERATION	TEMPERATURE	0°C ~ 40°C	0°C ~ 40°C	
	HUMIDITY	30 % ~ 90 %	30 % ~ 90 %	
OPERATING ENVIRONMENT - CHARGING	TEMPERATURE	-	-	
	HUMIDITY	-	-	
OPERATING ENVIRONMENT - STORAGE	TEMPERATURE	-20°C ~ 60°C	-20°C ~ 60°C	
	HUMIDITY	20 % ~ 90 %	20 % ~ 90 %	
INDICATORS		Power indicator, Status indicator, Bluetooth indicator, Network port indicator x 3	Mute/Unmute, Status, Network	
BUTTONS		-	-	
MOUNT		-	Ceiling mount, Wire mount, VESA mount	table top
MAXIMUM DEVICE NUMBER WITH RM-CR		-	14	14
DUST PROTECTION		-	IP5X for (with terminal cover)	-
PLENUM RATING		-	UL2043 (with terminal cover)	-
ETHERNET		Dante, Remote Control, Web UI, PoE+	Dante, Remote Control, Web UI, PoE	
CABLE REQUIREMENTS		Ethernet1/2/3: CAT5e or higher (STP) USB Network: USB Cable (A-microB)	CAT5e or higher (STP)	
AUDIO I/O	DANTE	16 in, 16 out	1ch in, 2ch out	
	USB	USB2.0, Audio Class 1.0, Input: 2ch, Output: 2ch @48kHz	-	
	MICROPHONE	XLR Balanced, Input: 2ch (-46dBu nominal, -26dBu max)	-	
	AUX	RCA Unbalanced (Line Level), Input: 2ch (-14 dBv nominal, +6 dBv max), Output: 2ch (-14 dBv nominal, +6 dBv max, 1kΩ)	-	
	SPEAKER OUT	RCA Unbalanced (Line Level), Output: 2ch (-14 dBv nominal, +6 dBv max, 1kΩ)	-	
	BLUETOOTH	Version 4.2 Supported Profiles: HFP (1.6), A2DP, AVRCP; Supported Codec: CVSD, SBC, mSBC; Wireless Output: Class2; Maximum Communication Distance: 10m (32.8ft) (no obstacles); Radio Frequency (Operational Frequency): 2,402MHz - 2,480MHz; Maximum Output Power (EIRP): 4.0dBm (2.5mW)	-	

WIRELESS MICROPHONES				WIRELESS R	
RM-WDR	RM-WOM	RM-WGL	RM-WGS	RM-WAP8/RM-WAP16	RM-WCH-8
Wireless directional tabletop microphone	Wireless omni-directional tabletop microphone	Wireless 30cm gooseneck microphone	Wireless 15cm gooseneck microphone	8-channel / 16-Channel Wireless Acces Point	Wireless microphone charging station
89 x 26 x 89 mm		89 x 308 x 89 mm	89 x 171 x 89 mm	171 x 43 x 172.5 mm	304 x 41.5 x 188 mm
30 g (including battery)	126 g (including battery)	152 g (including battery)	140 g (including battery)	RM-WAP-16: 812 g (including mounting bracket), RM-WAP-8: 650 g (including mounting bracket)	800 g
Rechargable Li-ion Battery 3.6V 2350mA/h				PoE class 3 (IEEE 803af)	DC 16V 2.4A
3.5 W				9.6 W	32 W
USB type C, 4P charger I/F				RJ45	DC IN
20 hrs				-	-
7 days				-	-
full: 5 hrs, 80%: 3 hrs				-	-
0°C ~ 40°C				0°C ~ 40°C	
20% ~ 85%				30 % ~ 90 %	
5°C ~ 40°C				-	
20% ~ 85%				-	
-20°C ~ 60°C				-20°C ~ 60°C	
10% ~ 85%				20 % ~ 90 %	
Microphone indicator (3 colors) x 1				Power indicator (3 colors) x 1, Status indicator (3 colors) x 1	activate (3 colors) x 1
Microphone button x 1, Battery button x 1, PAIR button x 1				reset	activate x 1, pair x 1
table top				Wall mount, Ceiling mount (with blacket), Flat placing	-
2				2	-
-				-	
-				-	
-				Dante, Remote Control, Web UI, PoE	-
-				CAT5e or higher (STP)	-
-				1ch in, 16 ch out	-
-				-	
-				-	
-				-	
-				-	
-				-	



AUDIO SOLUTIONS FOR CONFERENCES

SPECIFICATIONS
PROCESSORS & MICROPHONES

		NETWORKED PROCESSOR	NETWORKED MICROPHONES	
		RM-CR	RM-CG	RM-TT
AUDIO I/O	SIP	Call Handling: Dial, Answer, Hold, Resume, Forwarding, Do not disturb, Redial, Call timer, Call ID, Voice mail notifications (switch configured) Call Bridging: Supports bridging SIP, USB, BT and AUX calls. Join, Split, Hold, Resume, 5+1 lines: up to 2 SIP calls, 1 USB call, 1 Bluetooth call, 1 AUX, Plus the user Codecs: G.711, G.722HD, G.729ab, G.726 DTMF Support: RTP event, SIP in-band, SIP info package Security: SRTP support (RFC 1889), IETF SIP support (RFC 3261 and companion RFCs)	-	
WIRELESS	RADIO FREQUENCY	-	-	
	MAX RF POWER LEVEL	-	-	
	MAX COVERAGE DISTANCE	-	-	
	ENCRYPTION	-	-	
SAMPLING RATE		48 KHz	48 kHz	
BIT DEPTH		24 bit	24 bit	
LATENCY (INCLUDE PROCESSING)		8 ms (Dante in to USB out)	58 ms (including signal processing) 22 ms (low-latency mode)	46 ms (including signal processing, except for toroidal directivity) 50ms (including signal processing, for toroidal directivity) 20 ms (low-latency mode except for toroidal directivity) 23 ms (low-latency mode for toroidal directivity)
FREQUENCY RESPONSE (-10DB)		20 Hz - 20 kHz	160 Hz – 16 kHz	
SIGNAL PROCESSING			Multi-beam Tracking, Adaptive Echo Canceller, Noise Reduction, Dereverberation, Auto Mixer, Auto Gain Control, Parametric EQ, Output Gain	Auto Voice Tracking, Selectable Polar Pattern (Cardioid, Hyper-cardioid, Super-cardioid, Omnidirectional, Bidirectional, Toroid), Adaptive Echo Canceller, Noise Reduction, Dereverberation, Auto Mixer, Auto Gain Control, Parametric EQ, Output Gain
MICROPHONE DIRECTIVITY			Multi-beam Tracking	selectable
MAXIMUM INPUT LEVEL			117.8 dB SPL	106.8 dB SPL
SELF NOISE			-0.8 dB(A)	6.3 dB(A)
SN RATIO (REF. 94DB SPL AT 1KHZ)			94.8 dB(A)	87.7 dB(A)
SENSITIVITY			-23.8 dBFS/Pa	-12.8 dBFS/Pa
DYNAMIC RANGE			118.6 dBA	100.5 dB(A)
ACCESSORIES		Installation manual, USB cable (A-B) 5m (16.4ft), USB cable (A-microB) 1m (3.3ft), Rubber foot x 4, Access panel. Options: Rack Mount Kit RM-MTL, Table Mount Kit RM-MRK	Construction description, (Guarantee), Grille x 1, Screws for grille (M3 x 8mm) x 5*, Screw cover x 4, Cutting template x 1, C ring x 1, Screws for C ring x 2, Hanger angle x 1, Screws for hanger angle (M4 x 20mm) x 5*, Terminal cover x 1, Safety wire x 1, Binding band x 1, Clamp plate x 2	Installation manual, Tabletop mounting adapter, Screw for mounting x 3, Spacer x 3

WIRELESS MICROPHONES				WIRELESS R	
RM-WDR	RM-WOM	RM-WGL	RM-WGS	RM-WAP8/RM-WAP16	RM-WCH-8
-				-	
DECT 1.9 GHz (1880 MHz ~ 1900 MHz)				1.9 GHz DECT (1880 MHz ~ 1900 MHz)	-
26.5 dBm				26.5 dBm	-
50m (depends on usage environment)				50m (depends on usage environment)	-
AES 256-bit				AES 256-bit	-
48 kHz				48 KHz	-
24 bit				24 bit	-
30~35 ms nominal (without signal processing in High Quality mode) 110 ms nominal (with signal processing in High Quality mode)				-	
160 Hz – 16 kHz				-	
Adaptive Echo Canceller, Noise Reduction, Dereverberation, Auto Gain Control, Parametric EQ, Output Gain				-	
Directional 120o	Omni-directional 360o		Directional 90o	-	
109.4 dB SPL	108.0 dB SPL		114.0 dB SPL	-	
33.3 dB(A)	35.8 dB(A)		36.4 dB(A)	-	
60.7 dB(A)	68.2 dB(A)		57.6 dB(A)	-	
-15.4 dBFS/Pa	-14.0 dBFS/Pa		-20.0 dBFS/Pa	-	
76.1 dB(A)	82.1 dB(A)		77.6 dB(A)	-	
Battery (RM-WBT) x 1, Owner's manual x 1				Owner's manual x 1, Mounting bracket x 1	Owner's manual x 1, AC adapter x 1, Power cable x 1 (for US)/3 (for Europe)



AUDIO SOLUTIONS FOR CONFERENCES

PRODUCTS FOR UNIFIED COMMUNICATIONS



Audio and video conferencing solutions from Yamaha streamline collaboration and boost productivity wherever people need to speak openly, share freely and create exceptional things. Yamaha's considered approach to building enterprise-grade microphone systems, conference phones ensures exceptional audio quality, ease of connectivity and flexibility for meetings across the table or across the globe. With core tenets of simplicity, clarity and efficiency, Yamaha brings to unified communications a passion for sound and performance that has been creating excitement and inspiration for more than 130 years.



CS-500 / CS-800



ESB-1090



YVC-200



YVC-330



YVC-1000







PRODUCTS FOR UNIFIED COMMUNICATIONS

CS-500 / CS-800

VIDEO COLLABORATION SYSTEMS



CS-800

CS-500

VIDEO COLLABORATION SYSTEMS

FOR THE MOST ACCURATE, REAL-TIME HYBRID COLLABORATIONEXPERIENCE IN HUDDLE ROOMS TO COMBINE VOICE AND VIDEO DATA FOR FASTLY IMPROVED UNIFIED COMMUNICATIONS

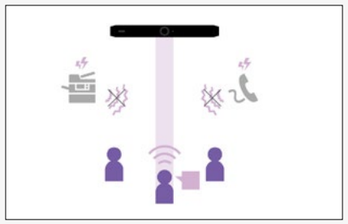
Yamaha's Video Collaboration Systems utilizes the latest AI technology to harmonize voice and video data to deliver the most accurate, real-time hybrid collaboration experience. Using the positioning data provided from BOTH the voice and camera pickup, Yamaha's new SoundCap Eye™ technology pinpoints participant locations to deliver a seamless and immersive tracking experience unlike any other. It's like a skilled movie director, cameraman and sound director working together behind the scenes!

KEY FEATURES

- SOUNDCAP EYE™ DISTINGUISHES VOICE VS. NOISE
- 4K CAMERA WITH SMART FRAMING
- EASY-LAUNCH FOR QUICK AND SMART COLLABORATION
- DUAL REMOTE INTERFACE
- CONTENT SHARE USING DISPLAY LINK
- ONE USB CONNECTION
- EMBEDDED SPEAKER (CS-800)

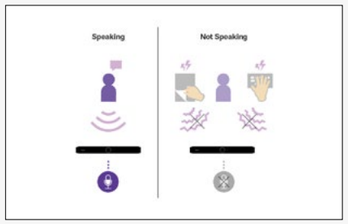
SoundCap Eye™ DISTINGUISHES VOICE VS. NOISE

SoundCap Eye utilizes the camera and audio pickup to distinguish voices vs. ambient noise. By narrowing in on only voices within the camera frame and a defined meeting area size, the technology can better determine participation location and block out unwanted background noise and voices in potentially noisy environments like open workspaces and open meeting areas.



FACE FOCUS BEAMFORMING

Face Focus Beamforming picks up your conversations while reducing the distracting noise around you. The **CS-500** & **CS-800** camera tracks the faces of participants in the meeting area using AI and limits the audio beams to these locations.



SELF-SILENCE

The **CS-800 & CS-500** include a self-silence function that automatically mutes the microphone when the conference participants are not speaking.



SELF-VOLUME-BALANCER

With the self-volume balancer function, the **CS-800 & CS-500** automatically adjust the volume according to the ambient noise to keep an appropriate speaker.

QUICK SPECIFICATIONS

	CS-500	CS-800
DIMENSIONS	W 261 mm × D 76 mm × H 51 mm	W 620 mm × D 90 mm × H 70 mm
WEIGHT	0.6 kg	1.7 kg
MICROPHONES	Hexa microphones (MEMS microphone x 6)	
INTERFACE	USB (Type-C): USB 2.0/3.2 Gen 1, UAC 2.0, UVC, DisplayLink, HDMI: Version1.4, Resolution: 720 x 480, 1,280 x 720, 1,366 x 768, 1,920 x 1,080, Frame rate: 30 fps, HDCP: Version 1.3, HDMI-CEC: Power control / Input selection, Bluetooth, Wi-Fi network	
MAXIMUM VOLUME	–	Full range speaker x 1, 90 dB SPL @ 1m
FREQUENCY BANDWIDTH	Microphone frequency response 100Hz – 16kHz	Speaker frequency response 100 Hz – 20 kHz, Microphone frequency response 100Hz – 16kHz

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 234

ESB-1090

ENTERPRISE SOUND BAR



BRING RICH SOUND OUTPUT AND PREMIUM SOUND QUALITY FOR MIDDLE-SIZED ROOMS

The enterprise sound bar ESB-1090 is the ideal product to install with flat-screen TVs at offices, schools and hotels. Including 2 built-in subwoofers, dome tweeters, and full range speakers, the ESB-1090 delivers rich sound output and premium sound quality for middle-sized rooms. Offering 3 preset modes, “Conference mode”, “Education mode” and “Hotel mode” optimized for remote conference/education, for optimal content sharing output!

KEY FEATURES

- FULL RANGE SOUND BY 2 BUILT-IN SUBWOOFERS
- 3 PRESET MODES OPTIMIZED FOR CONFERENCE ROOMS, CLASSROOMS AND HOTEL GUEST ROOMS
- FLAT OR WALL-MOUNT INSTALLATION WITHOUT BRACKET
- SIMPLE AND SLIM DESIGN, IDEAL FOR MODERN ROOM DESIGN



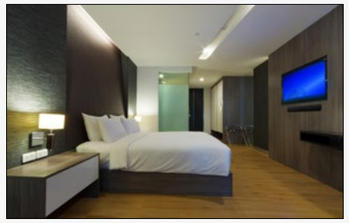
DETAILS



IN EDUCATION AND CONFERENCE MODE, THE SOUND IS OPTIMIZED FOR CONVERSATION, YOU CAN HEAR THE FAR-END VOICE CLEARLY.



ITS SIMPLE AND SLIM DESIGN MATCHES NATURALLY ANY SPACE AND FLAT-SCREEN TV SETUP



IN HOTEL MODE, YOU CAN ENJOY TV OR MUSIC CONTENT SHARING ON YOUR DEVICE



THE SOUND BAR INCORPORATES 2 BUILT-IN SUBWOOFERS, DOME TWEETERS, AND FULL RANGE SPEAKERS.



USER-FRIENDLY DESIGN FOR FAST, INTUITIVE CONNECTION TO REMOTE COMMUNICATIONS

QUICK SPECIFICATIONS

	ESB-1090
DIMENSIONS	Installing the unit in front of a TV, etc.: 890 (W) x 53 (H) x 131 mm (D) Mounting the unit on a wall, with spacers: 890 (W) x 131 (H) x 62 mm (D
WEIGHT	3.4 kg
MICROPHONES	–
AUDIO INTERFACE	Digital Optical 1, Network (Ethernet1, Wireless1), Output Jacks: HDMI 1 (HDMI OUT (ARC)), Analog 1 (Subwoofer out)
MAXIMUM VOLUME	Max SPL: 96 dB at 1 M
FREQUENCY BANDWIDTH	62 Hz to 23,000 Hz

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 234

YVC-200

SPEAKERPHONE



TAKING THE OFFICE OUTSIDE

Portable USB and Bluetooth speakerphone enables natural and reliable remote communication no matter where you work. Bring it in your bag and take the office outside!

KEY FEATURES

- YAMAHA'S PROFESSIONAL QUALITY DSPS
- SUPER WIDEBAND AUDIO (FS 32 KHZ) FOR AMPLE, CLEAR SOUND
- 360 DEGREES AND MAXIMUM RADIUS 2 M MICROPHONE PICK UP RANGE
- USB CONNECTION FOR LAPTOPS
- BLUETOOTH / NFC CONNECTIONS FOR PHONES AND TABLETS
- RECHARGEABLE BATTERY FOR UP TO 10-HOUR USE



DETAILS



POWERED BY RECHARGEABLE BATTERY FOR COMPLETELY PORTABILITY UP TO 10 HOURS OR LONGER



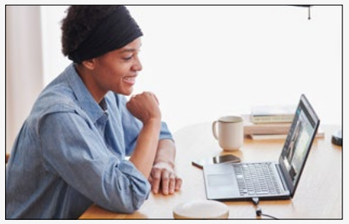
HIGH STABILITY AUTOMATICALLY ADAPTED TO THE ENVIRONMENT



WITH BOTH USB AND BLUETOOTH® INTERFACES, THE YVC SERIES CAN START REMOTE COMMUNICATION SIMPLY SMARTPHONE OR TABLET



MULTI-PLATFORM COMPATIBILITY, SEAMLESS CONNECTIVITY WITH ANY REMOTE CONFERENCE SYSTEM



EXCELLENT PORTABILITY, WITH CARRYING CASE



360 DEGREES MICROPHONE PICK UP RANGE

QUICK SPECIFICATIONS

PARAMETER	YVC-200
INTERFACE	USB 2.0 Full Speed (Micro-B), Bluetooth, NFC (Near Field Communication), 3.5 mm headset jack (Stereo OUT/Monaural IN)
POWER SOURCE	Lithium-ion rechargeable battery (Continuous usage time: approx. 10 hours, 3.6 V/2250 mAh/8.1 Wh (typ.)), USB bus powered
DIMENSIONS	140 (W) × 43 (H) × 140 (D) mm
WEIGHT	0.28 kg
MICROPHONES	Omnidirectional microphone x 1
SPEAKERS	45 mm Full-range speaker x 1
FREQUENCY BANDWIDTH	200 Hz - 16,000 Hz
SIGNAL PROCESSING	Adaptive echo canceller, Noise reduction, Automatic gain control, Human Voice Activity Detection (HVAD)

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 234

YVC-330

SPEAKERPHONE



VIRTUAL MEETING SOLUTIONS IN OPEN WORKSPACES!

TRANSFORM CONFERENCE ROOMS, OPEN WORKSPACES, AND ANY OFFICE AREA INTO A COMFORTABLE REMOTE COMMUNICATION SPACE.

The **YVC-330** is a USB & Bluetooth speakerphone for open workspaces and small to medium-sized conference rooms. With the SoundCap mode, you can transform quiet conference rooms, noisy open workspaces, and any office area into a comfortable remote communication space.

KEY FEATURES

- SOUNDCAP TECHNOLOGY ALLOWS FOR COMFORTABLE REMOTE CONVERSATIONS NO MATTER THE ENVIRONMENT
- SMALL, LIGHTWEIGHT DESIGN POWERED BY USB BRINGS PORTABILITY TO THE OFFICE
- EQUIPPED WITH MARKET-LEADING SOUND SIGNAL PROCESSING TECHNOLOGIES TO ACHIEVE ENHANCED COMMUNICATION
- THREE HIGH-PERFORMANCE UNIDIRECTIONAL MICROPHONES AUTOMATICALLY TRACK VOICE DIRECTIONS,
- “PLUG-AND-PLAY” CONNECTIVITY WITH DRIVER-LESS USB, BLUETOOTH, NFC AND AUDIO IN/OUT CONNECTION
- HIGH COMPATIBILITY WITH ALL UC APPLICATIONS

COMMON PROBLEMS WITH REMOTE CONFERENCES IN OPEN WORKSPACES

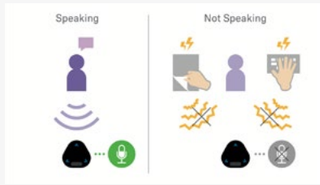
FAR FIELD NOISE REDUCTION



PROBLEM
Open workspaces can be noisy with sounds from colleague chatter, office equipment and nearby meetings. When having remote conference sessions, your conversation can be disrupted by these noises and far-end participants will have difficulty hearing you clearly.

SOLUTION
Far Field Noise Reduction (FFNR) picks up your conversations while reducing the distracting noise around you. YVC-330 has a 3 microphone array that canacknowledge the sound from your voice verse unwanted background noise.

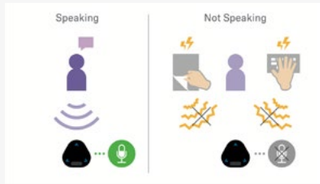
SELF-SILENCE



PROBLEM
Even within the virtual walls of a conversation in an open workspace, there can be various surrounding noises that can be picked up. Whether it be the ringing of a phone, computer typing or shuffling of papers, sudden noises can be distracting especially to far-end participants..

SOLUTION
The YVC-330 includes a self-silence function that automatically mutes the microphone when the conference participant is not speaking. By using Yamaha’s Human Voice Activity Detection technology, the YVC-330 can detect human voice from other sounds in an instant. Without unnecessary sound whether they are speaking or not.

SELF-VOLUME BALANCER



PROBLEM
When using a speakerphone in open workspaces, speaker output can sometimes be too quiet or too loud when ambient background noise changes, causing missed information or an inconvenience to the surrounding workers.

SOLUTION
With the self-volume balancer function, the YVC-330 automatically adjusts the volume according to the ambient noise to keep an appropriate speaker volume level at all times. Participants can conduct remote conferences in open spaces without failing to hear conversation, disturbing their surroundings and keeping meeting contents private.

QUICK SPECIFICATIONS

	YVC-330
PARAMETER	
INTERFACE	USB 2.0 Full Speed (Mini-B), Bluetooth, NFC (Near Field Communication), EXT IN/OUT (stereo mini plug)
POWER SOURCE	USB bus powered
DIMENSIONS	235 (W) x 46 (H) x 226 (D) mm
WEIGHT	0.8 kg
ACCESSORIES	USB cable 3 m, User’s Manual

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 234

YVC-1000

SPEAKERPHONE





YVC-MIC1000EX
Extension Microphone
for YVC-1000

BRINGING REMOTE COMMUNICATIONS TO LIFE

The YVC-1000 features separate microphone and speaker units that smoothly integrate audio and video for natural, comfortable remote communication.

The high performance, full range speaker unit can be placed close to the display so that audio and video from the remote location blend naturally, while adaptive echo canceller and other Yamaha sound processing technologies facilitate stress-free conversation. The YVC-1000 is also scalable and flexible, and designed to support the audio requirements of large meeting spaces and rooms with unique table configurations - such as classrooms for distance learning and remote training.

Find a speakerphone system that's optimized for your meeting room and conferencing preferences, all backed by Yamaha's industry-leading audio technology.

KEY FEATURES

- EXCELLENT SCALABLE AND FLEXIBLE SOLUTION FOR LARGE MEETING ROOMS
- IDEAL FOR APPLICATIONS FOR REMOTE EDUCATION CLASSES OR SEMINARS
- HIGH-QUALITY SOUND TECHNOLOGIES WITH ADAPTIVE ECHO CANCELLER AND HUMAN VOICE ACTIVITY DETECTION
- AUTOTUNING FUNCTION ANALYZES THE ROOM ENVIRONMENT AND ADJUSTS ACOUSTIC SETTINGS TO THE OPTIMAL LEVEL
- SINGLE CONNECTION WITH USB OR SMOOTH BLUETOOTH CONNECTION INCLUDING NFC TECHNOLOGY
- YVC-1000 IS BARCO CLICKSHARE CERTIFIED



DETAILS



A HIGH QUALITY CONFERENCING EXPERIENCE



CONNECT ADDITIONAL SPEAKERS AND MICROPHONES FOR LARGER MEETINGS



UP TO FIVE MICROPHONES CAN BE CONNECTED



IDEAL FOR APPLICATIONS FOR REMOTE EDUCATION CLASSES OR SEMINARS WITH CONNECTING HANDHELD AND HEADSET MICROPHONES



WITH ONLY CONNECTING USB CABLE TO PC, YOU'RE READY TO GO



USER-FRIENDLY DESIGN FOR FAST, INTUITIVE CONNECTION TO REMOTE COMMUNICATIONS

QUICK SPECIFICATIONS

	YVC-1000	YVC-MIC1000EX
DIMENSIONS	Control Unit (W x H x D): 332 x 95 x 162 mm	Microphone (W x H x D): 136 x 36 x 136 mm
WEIGHT	Control Unit: 1.8 kg	Microphone: 0.4 kg
MICROPHONES	-	Unidirectional Microphones x 3, 360° coverage
AUDIO INTERFACE	USB 2.0 High Speed (B), Bluetooth, NFC (Near Field Communication), Audio Input terminal (stereo RCA pin), Audio Output terminal (stereo RCA pin), External speaker terminal (RCA pin) x 2, Power terminal, Microphone terminal	Input and output terminals
MAXIMUM VOLUME	95 dB (0.5 m)	–
FREQUENCY BANDWIDTH	100 Hz - 20,000 Hz	–

FOR A FULL OVERVIEW OF SPECIFICATIONS AND COMPATIBILITY SEE PAGE 234

SPECIFICATIONS
UNIFIED COMMUNICATIONS

		VIDEO COLLABORATION SYSTEMS	
		CS-500	**CS-800**
INTERFACE		USB (Type-C): USB 2.0/3.2 Gen 1, UAC 2.0, UVC, DisplayLink, HDMI: Version1.4, Resolution: 720 x 480, 1,280 x 720, 1,366 x 768, 1,920 x 1,080, Frame rate: 30 fps, HDCP: Version 1.3, HDMI-CEC: Power control / Input selection, Bluetooth, Wi-Fi network	
POWER CONSUMPTION (MAX)		15.0 W	42.0 W
POWER SOURCE		AC 100 - 240 V (50/60 Hz)	
OPERATING ENVIRONMENT - IN OPERATION	TEMPERATURE	0 - 40° C	
	HUMIDITY	20 % – 85 % (No condensation)	
DIMENSIONS W X H X D		W 261 mm × D 76 mm × H 51 mm	W 620 mm × D 90 mm × H 70 mm
WEIGHT		0.6 kg	1.7 kg
SUPPORTED OS		Windows 11, Windows 10, macOS 12, macOS 11, macOS 10.15, Chrome OS	
ACCESSORIES		Read this first, Safety Guide, USB 2.0 cable (Type C-A, 5 m / 16.4 ft), HDMI cable (2 m / 6.6 ft), Remote control (RC-RBT1), Lens cap, Coin battery (CR2032) × 2, AC adaptor with power cord (CW2002100), Cable tie	Read this first, Safety Guide, Quick Guide, USB 2.0 cable (Type C-A, 5 m / 16.4 ft), HDMI cable (2 m / 6.6 ft), Remote control (RC-RBT1), Lens cap, Terminal cover, Coin battery (CR2032) × 2, AC adaptor with power cord (CW2002100), Table stand, Wall mounting bracket, Terminal cover screw (2.5 mm × 8 mm) × 2, Hexagonal screw (M3 × 8 mm) for table stand × 2, Screw (M3 × 8 mm) for wall mounting bracket × 1, Hexagonal wrench
FIELD OF VIEW (CAMERA AND VIDEO)		(4K) 120 degrees	
RESOLUTION (CAMERA AND VIDEO)		3,840 x 2,160, 2,560 x 1,440, 1,920 x 1,080, 1,280 x 720, 640 x 360	
FRAME CONTROL (CAMERA AND VIDEO)		Smart framing (Group, Individual, Speaker tracking) or manual, pan-tilt-zoom (PTZ), configurable preset x 2, Maximum zoom ratio: 5.0x, People detection max distance: 4.5 m	
REMOTE CONTROL		Power, Microphone mute x 2, Speaker volume, Camera ePTZ, Smart framing ON/OFF, Camera preset x 2, OSD menu control	
MICROPHONES		Hexa-microphone (6x MEMS)	
SPEAKERS		-	Full-range speaker x 1
MAXIMUM SPL @ 1M		-	90 dBSPL (1 m)
FREQUENCY BANDWIDTH		100 Hz – 16 kHz	Speaker frequency response 100 Hz – 20 kHz, Microphone frequency response 100Hz – 16kHz
SIGNAL PROCESSING		Adaptive echo canceller, Noise reduction, Automatic tracking, Automatic gain control, Automatic room EQ, Dereverberation, SoundCap Eye (Face focus beamforming, Self-silence, Self volume balancer)	

SPEAKERPHONES			
ESB-1090 (ENTERPRISE SOUND BAR)	**YVC-200**	**YVC-330**	**YVC-1000**
HDMI: 4k/60p 4:4:4, HDR (HDR10, Hybrid Log-Gamma), HDCP2.3, 3D, ARC, CEC, Input Jacks: HDMI 1 (HDMI IN), Digital Optical 1, Network (Ethernet1, Wireless1), Output Jacks: HDMI 1 (HDMI OUT (ARC)), Analog 1 (Subwoofer out), Other Jacks: USB 1 (update only)	USB 2.0 Full Speed (Micro-B), Bluetooth, NFC (Near Field Communication), 3.5 mm headset jack (Stereo OUT/Monaural IN)	USB 2.0 Full Speed (Mini-B), Bluetooth, NFC (Near Field Communication), EXT IN/ OUT (stereo mini plug)	Control Unit: USB 2.0 High Speed (B), Bluetooth, NFC (Near Field Communication), Audio Input terminal (stereo RCA pin), Audio Output terminal (stereo RCA pin), External speaker terminal (RCA pin) x 2, Power terminal, Microphone terminal, Microphone: Input and output terminals
2.5 W30 W (Rated), 4.3 W (Voice Control Ready), Standby Power Consumption: 0.2 W (HDMI control off, network standby off), 1.7/1.9/1.7 W (HDMI control off, network standby on [Wired/Wi-Fi/Bluetooth], 0.6 W (HDMI control on, network standby off), 2.2 W (HDMI control on, network standby on)	2.5 W		20 W (one connected microphone), 35 W (five connected microphones)
[U.S.A. and Canada models] AC 100 - 120 V, 50/60 Hz, [U.K., Europe and Russia models] AC 100 - 240 V, 50/60 Hz	Lithium-ion rechargeable battery, 3.6 V/2250 mAh/8.1 Wh (typ.), USB bus powered	USB bus powered	[U.S.A. and Canada] AC 120 V (60 Hz), [UK, Europe and Russia] AC 220 - 240 V (50 Hz)
Temperature: 5 - 40°C	0 - 40° C		
30 - 90% (no condensation)	20 - 85%		
Installing the unit in front of a TV, etc.: 890 (W) x 53 (H) x 131 mm (D), Mounting the unit on a wall, with spacers: 890 (W) x 131 (H) x 62 mm (D)	140 × 43 × 140 mm	235 x 46 x 226 mm	Control Unit : 332 x 95 x 162 mm, Microphone: 136 x 36 x 136 mm
3.4 kg	0.28 kg	0.8 kg	Control Unit: 1.8 kg, Microphone: 0.4 kg
–	Windows 10 (32 bit/64 bit), Windows 8.1 (32 bit/64 bit), Windows 7 (32 bit/64 bit), macOS 10.14, macOS 10.13, macOS 10.12		
The unit, Remote Control, Power cord, Optical digital audio cable, Mounting template, Spacers (*2/sheet), Owner's Manual	USB cable 1 m, Quick Start Guide, Safety brochure, Carrying case	USB cable 3 m, User's Manual	Power cable 3 m, USB cable 5 m, microphone cable 5 m, Quick Start Guide
	Omnidirectional microphone x 1	Unidirectional microphones x 3, 360° coverage	Unidirectional Microphones x 3, 360° coverage
Front L/R: 5.5 cm cone x 2, Tweeter: 2.5 cm dome x 2, Built-in subwoofer: 7.5 cm cone x 2, Output Power: 120 W (Front L/R: 30 W x 2-ch, Built-in subwoofer: 60 W)	Full-range speaker x 1		
96 dB	88 dB (0.5m)	91 dB (0.5m)	95 dB (0.5m)
62 Hz - 23,000 Hz	200 Hz - 16 kHz	190 Hz - 20 kHz	100 Hz - 20 kHz
–	Adaptive echo canceller, Noise reduction, Automatic gain control, Human Voice Activity Detection (HVAD)	Adaptive echo canceller, Noise reduction, Automatic tracking, Automatic gain control, Dereverberation, SoundCap	Adaptive echo canceller, Noise reduction, Automatic tracking, Automatic gain control, Automatic room EQ, Dereverberation, Automatic audio tuning



PRODUCTS FOR UNIFIED COMMUNICATIONS

AUDIO VIDEO COMPONENTS

AV ENTERTAINMENT SYSTEMS



FROM A SINGLE ROOM TO A COMPLETE HOTEL, YAMAHA IS A WORLD LEADER IN AV ENTERTAINMENT SYSTEMS FOR HOME AND HOSPITALITY.

Yamaha AV components focus on making sure that every part of the signal chain - from source to listener - delivers pristine, uncoloured sound. At the heart of the range is MusicCast technology, which is designed to share music from the widest selection of sources to a range of high quality indoor and outdoor speakers, which can be located in more rooms than most installations will ever need.

As you would expect, all popular audio formats, including high resolution, are supported. Whether you want your music source to be from popular streaming services or physical, like a CD, LP, USB or hard drive; wired, wireless or a mix of both, MusicCast has a solution. You can even send your choice of music to your own audio system, or source it from an MacOS or iOS device, using Apple AirPlay2. And, in the age of wireless voice control, of course MusicCast can do that too.

For more information please contact your local Yamaha representative.

COMPONENTS



XDA SERIES MULTI-ZONE AMPS



RX SERIES AV RECEIVERS



WX SERIES MUSICCAST SPEAKERS



VYNIL 500 MUSICCAST TURNTABLE



CD-S330 CD PLAYER



A-S SERIES POWER AMPLIFIERS

MUSICCAST



POPULAR STREAMING SERVICES



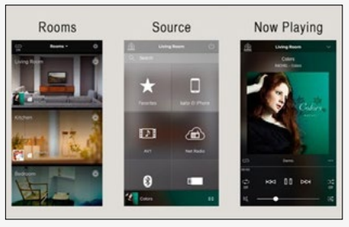
CONNECTIVITY



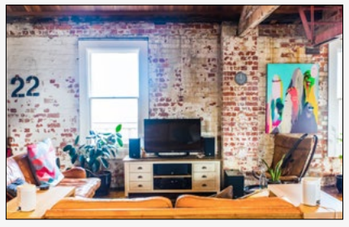
VOICE CONTROL



ROOM LINKING



MUSICCAST APP



MUSICCAST SURROUND / STEREO

YAMAHA

ABOUT YAMAHA

NEW PRODUCTS. NEW TECHNOLOGIES. NEW WAYS TO MAKE WAVES.

Welcome to the 2023 Yamaha catalogue, a year where our innovation in sound continues to combine our long history of audio excellence with the very latest technologies. This year we are proud to include new flagship platforms, such as the Active Field Control integrated immersive audio system and the ADECIA professional conferencing system. Both bring new levels of sound excellence and flexibility to different sectors of the market.

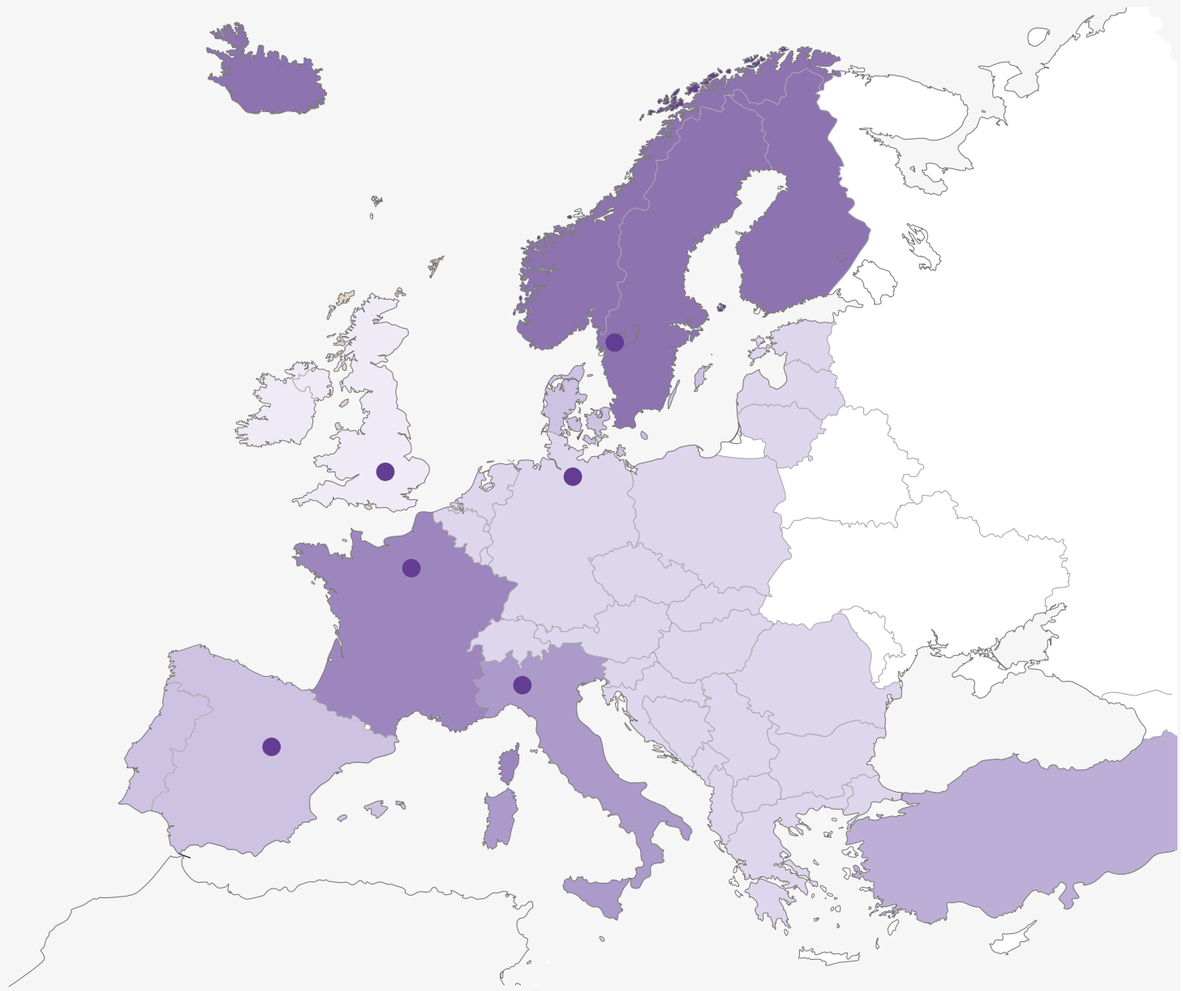
Yamaha. A name perhaps most familiar for keyboards, drums and, yes, motorcycles and outboard motors. But what many people do not realise is that the Yamaha Motors Corporation was spun off from the company Mr Torakusu Yamaha founded as Nippon Gakki Ltd as long ago as the 1960s. This left Yamaha Nippon Gakki to concentrate exclusively for the past 60 years on everything that relates to audio - the production of musical instruments, sound reproduction and AV equipment.
Of course Yamaha's audio heritage stretches back much further - to the 1880s, when Mr Yamaha pioneered the production of Western musical instruments in Japan. Ever since, the three tuning forks of the Yamaha logo have denoted the three fundamental elements of music: melody, harmony and rhythm. It's a very appropriate symbol for a company with such a long musical heritage.

This is as true in the world of professional audio as it is for Yamaha's musical instrument division. Here you could also think of the Yamaha logo as symbolising the three cornerstones of our products - sound quality, reliability and flexibility.
Yamaha has a combination of qualities that few others in the professional sound industry can match: Many decades of experience, our status as a large Japanese conglomerate, hi-tech production techniques, enviable global research/development facilities and a brand name that very few people have not heard of. Together, they have allowed us to create a culture of quality in every aspect of the business. Highly sophisticated craftsmanship, industrial production quality based on ISO9001 and a philosophy of pure research in acoustics, psycho-acoustics and the physical and mathematical properties of sound. We treat each with equal importance, an approach which has been rewarded with more than 40 international design awards. At the same time we are the only enterprise in the larger AV industry which is listed in the FTSE4 Good Index as a sign of sustainable governance.

But these qualities do not make us a faceless, remote corporation. Far from it. Yamaha is equally committed to the personal touch. Our global customer support is always conducted at a local level and our face-to-face training is a vital part of our ongoing education programme. In addition, you can directly engage with Yamaha experts from across the world in our online Audioversity training webinars.

The products in this catalogue are dedicated to the production, processing and reproduction of sound with quality, reliability and flexibility.

Together let's make waves.



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ABOUT YAMAHA

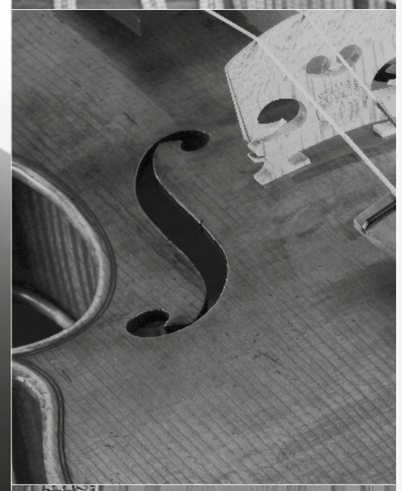
YAMAHA

PRODUCTION PHILOSOPHY

We at Yamaha have a great history of musical instrument production based on our craftsmanship, engineering, and creative minds, delivering unrivaled variety of product lines to the market. Acoustic instruments range from Recorder Flute to Concert Grand Piano, from Oboe to Violin, from Classical Guitar to Marimba, from Concert Drums to French Horns – but it doesn't stop at acoustics. With the same craftsmanship and innovation, Yamaha pioneered in the development of electronic musical instruments, including Synthesizers, Keyboards, Organs, Electric Guitars, Electronic Drums.









YAMAHA commercial audio

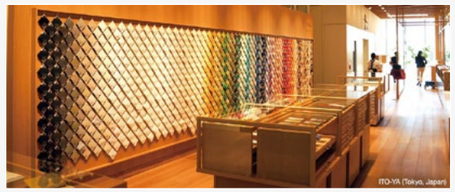
Yamaha entered the professional audio market 45 years ago, knowing exactly how music should sound since Yamaha covers the complete range of acoustic as well as electronic musical instruments.

YAMAHA'S PROFESSIONAL AUDIO division introduced game changing innovations such as the 'matrix' section on modular mixing consoles (PM1000, 1974), Class D power amplifiers (PD2500, 1986), DSP based Active Field Control (AFC, 1987), DSP based mixing consoles (DMP7, 1986) and networked audio distribution (NHB32C, 2003).

All these innovations, combined with a strong focus on quality, made Yamaha the most trusted equipment supplier for any audio application imaginable.


INTERCONTINENTAL HOTEL DAVOS (Davos, Switzerland)




ITO-YA (Tokyo, Japan)


STONE HARBOR MUNICIPAL COURTHOUSE (New Jersey, USA)

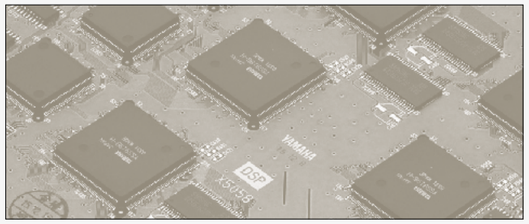

BILLUND AIRPORT (Billund, Denmark)




CENTRAL HALL WESTMINSTER (London, UK)

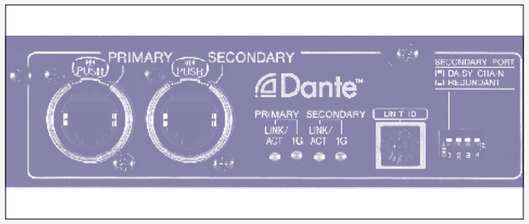


YAMAHA PROFESSIONAL AUDIO CORE COMPETENCES



DSP

Yamaha introduced Digital Signal Processing to the live market in the eighties with the SPX90 digital effect processor, and in the nineties with the DMP7 Digital Mixing Processor. Building on 30 years of DSP experience, the current digital mixer models are built with Yamaha's 7th generation DSP platform and 3rd party DSP platform.



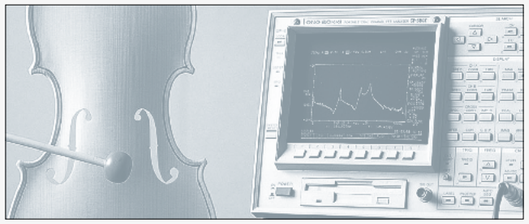
NETWORKED AUDIO

Introducing Cobranet networked systems in 2004, joined by Ethersound systems in 2006, Yamaha evolved with the market to gigabit networked environments, providing the Dante™ high capacity networked audio protocol. Being involved with networking technologies from the beginning, Yamaha has become one of the most experienced companies in the world – assuring safe investments in networked audio systems.



ELECTRO-ACOUSTICS

With more than 100 million loudspeakers sold, and thousands of acoustic and electro-acoustic designs of concert halls and theaters around the world, Yamaha has a long track record of high quality electro-acoustic systems and products.



AUDIO QUALITY

As the world's largest manufacturer of virtually all kinds of musical instruments, Yamaha professional audio product engineers respect the natural sound of electronic and acoustic musical instruments, offering the highest audio quality possible in their designs.



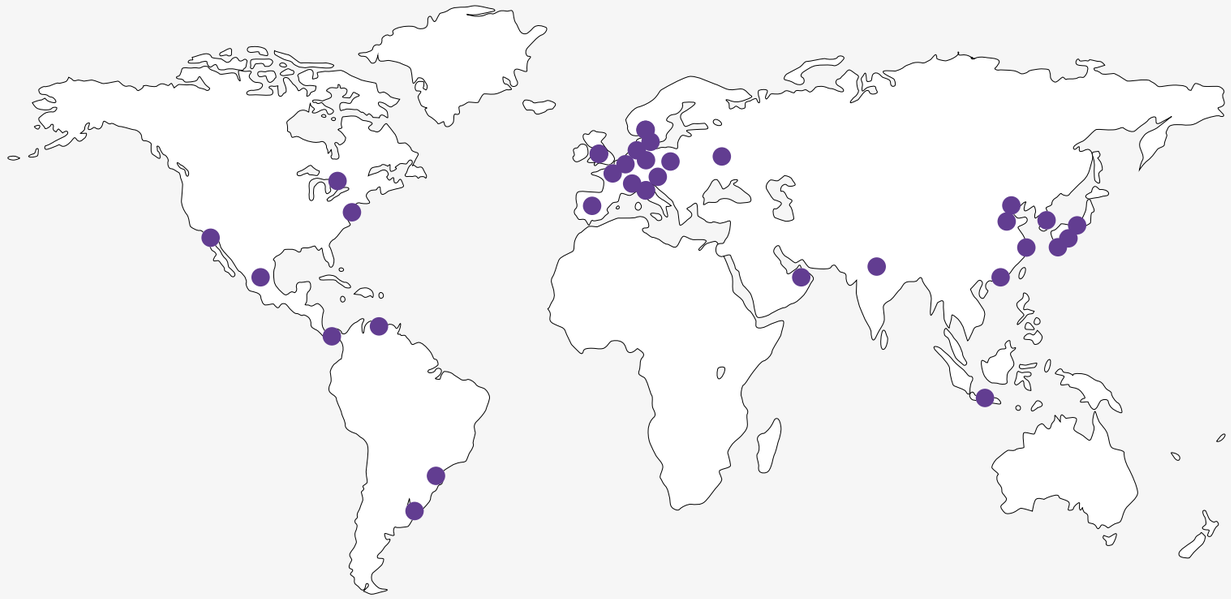
RELIABILITY

Since the conception of the PM consoles in the sixties, Yamaha understands the value of reliability in the live and recording industry. The result is a track record second to none – thanks to a throroughly maintained ISO9001 certified quality assurance management system.

YAMAHA GLOBAL

- **CORPORATE NAME:** Yamaha Corporation
- **ESTABLISHED:** October 12, 1897
- **GROUP EMPLOYEES:** 20,021
- **NR. OF SUBSIDIARY COMPANIES:** 60
- **MUSICAL / AUDIO PATENTS:** >10.000
- **CONSOLIDATED NET SALES:** 437,416 million Yen

http://www.yamaha.com/about_yamaha/corporate/




DNV BUSINESS ASSURANCE
MANAGEMENT SYSTEM CERTIFICATE
YAMAHA CORPORATION
PRO AUDIO DIVISION

Quality is one of the core values in the Yamaha Group, upholding an outstanding reputation on sound quality and reliability. Embedded in the Yamaha management, the Professional Audio Division is ISO9001 certified to assure that Yamaha products always live up to the highest quality standards, now and in the future.

HTTP://WWW.YAMAHA.COM

QUALITY


YAMAHA CORPORATION GROUP
CERTIFICATE
ISO 14001:2004 · JIS Q 14001:2004

The Yamaha Group introduced its ISO14001 environmental management system in 1997. In August 2011, the ISO14001 unification was achieved for all group companies in Japan. Yamaha is listed in some of the world's most prominent SRI (Socially Responsible Investment) indexes, such as the FTSE4 Good Global Index.

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CSR

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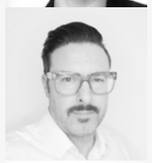
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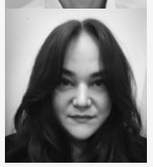
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SALES & SUPPORT STAFF

SYSTEM ENGINEERING GROUP

Specially for the Commercial Installed Systems market a team of engineers is available to support the conceptualization, design and troubleshooting of integrated systems, and to perform Audioversity seminars. The team consists of engineers with a long experience in the professional audio market, especially on the subjects of networking, DSP and electro-acoustics.

The System Engineering Group support activities use project management standards such as ANSI-INFOCOM 2M-2010 Standard Guide for Audiovisual Design and Coordination Processes and NSI-INFOCOM 10-2013 Audiovisual Systems Performance Verification. All System Engineering Group members hold an Audinate Dante level 3 certificate, while selected members hold Avixa CTS or CTS-D certificates.



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AUDIOVERSITY

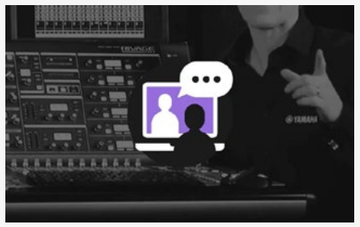
Audioversity by Yamaha Pro Audio

Audioversity offers training programs that can help anyone who works with audio deliver better sound for enhanced impact and communication in a broad range of applications. Refine your craft through a comprehensive selection of seminars, webinars, and self-training materials designed to build skills quickly and effectively. Audioversity currently reaches over 100,000 people in more than 50 countries with programs tailored to meet diverse needs, and it continues to grow. Whether you work with sound on a daily basis or are just starting out, join us to elevate your audio artistry to a new level and contribute to a better-sounding world.



REGIONAL TRAINING (ON-SITE/WEBINARS)

These hands-on, Avixa RU certified personal seminars are offered throughout Europe to promote the understanding and effective use of Yamaha professional audio technologies and equipment.



GLOBAL WEBINARS

Our webinars are available globally to ensure that as many participants as possible from around the world can take part. Watch, listen, learn, and ask questions to our panel of expert presenters and developers.

AVIXA CTS RU Provider



SELF TRAINING

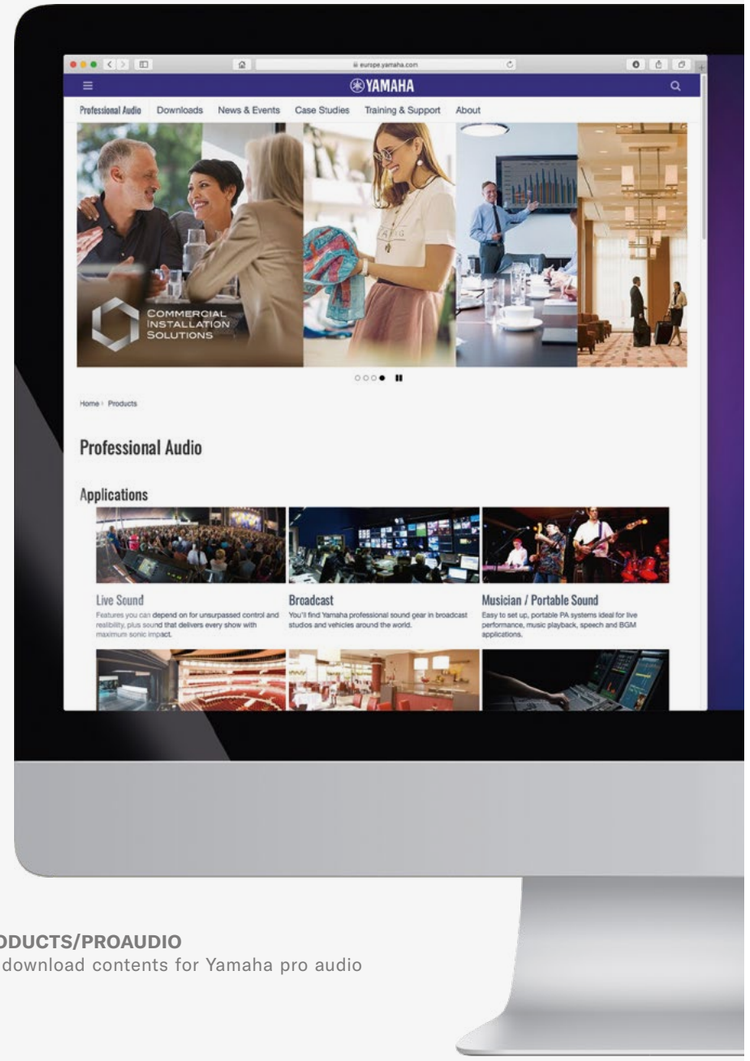
Our self-training program allows busy users to learn at their own pace. Online movies and technical documents are designed to make learning easy.

■ **HTTPS://EUROPE.YAMAHA.COM/EN/PRODUCTS/CONTENTS/PROAUDIO/TRAINING_SUPPORT/INDEX.HTML**

WARRANTY

In the European Economic Area (EEA) and Switzerland, a **2-YEAR WARRANTY GUARANTEE** is standard for all Yamaha Professional Audio products. An extended warranty guarantee from the date of original purchase guarantee is offered for a variety of speakers, amplifiers and accessories. For details, download the warranty statements from **https://europe.yamaha.com/en/products/proaudio/index.html**

WEBSITE



WWW.EUROPE.YAMAHA.COM/EN/PRODUCTS/PROAUDIO
provides product information and many download contents for Yamaha pro audio products and services:

- **NEWS & REFERENCES**
- **PRODUCT FEATURES, SPECIFICATIONS AND PHOTOS**
- **PRODUCT SUGGESTIONS BY APPLICATION TYPE**
- **APPLICATION AND SYSTEM EXAMPLES**
- **DOWNLOADS OF SOFTWARE, DATA SHEETS AND MANUALS**
- **TRAINING AND SUPPORT, DOCUMENTS AND VIDEOS**
- **PRODUCT BROCHURES**
- **MINI-YGDAI COMPATIBILITY TOOL**

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SERVICE

SERVICE CENTER

SELF TRAINING

Not everyone has the time to attend Audioversity Training Seminars. Our Self Training program allows busy users to learn at their own pace. Self Training is also a great way to prepare for an actual seminar, or review the information after attending. Online movies and technical documents are designed to make learning easy.

https://europe.yamaha.com/products/contents/proaudio/training_support/selftraining.html

SEMINARS

Hands-on, personal seminars are offered throughout the world to promote the understanding and effective use of Yamaha professional audio equipment. Anyone can attend. You're welcome whether you're a Yamaha user or are simply interested in professional audio.

https://europe.yamaha.com/en/products/contents/proaudio/training_support/europe_training.html

WEBINARS

Our webinars are available globally to ensure that as many participants as possible from around the world can take part. Watch, listen, learn, and ask questions to our panel of expert presenters and developers.

https://europe.yamaha.com/products/contents/proaudio/training_support/webinar.html

FIRMWARE AND SOFTWARE

Mixer and processor firmware as well as driver, editor, manager, and designer software are available for all products – current and legacy. Installation guides and upgrades are also available.

https://europe.yamaha.com/products/contents/proaudio/downloads/firmware_software/index.

FAQ

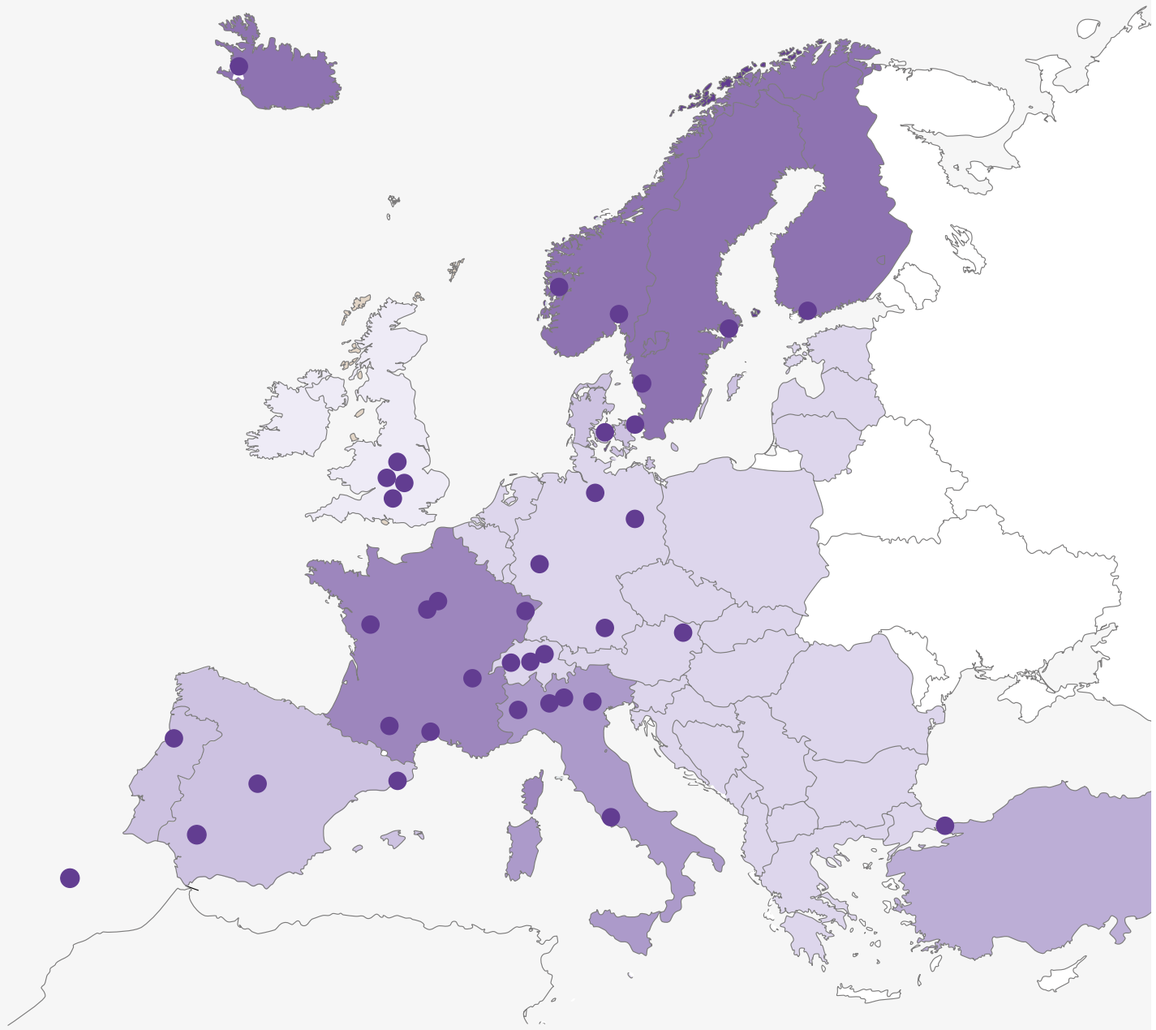
Answers to frequently asked questions on product settings, operation and troubleshooting, as well as useful tips to support concept, design, installation and use of Yamaha systems.

https://europe.yamaha.com/en/products/contents/proaudio/training_support/faq.html

MANUALS

Owner's manuals are organized by product category. Manuals are provided in ".pdf " format.

https://europe.yamaha.com/products/contents/proaudio/downloads/manuals/index.html?k=&c=proaudio&l=en



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