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Using the Loudspeaker

Users will need to perform the following general tasks to properly put an EAW install engineered product into use. This guide includes details for each task.

- 1. Design the system using the Resolution™ 2 Design & Control Software (see the program Help File for further information about using Resolution).
- 2. Design and install suspension points to support the product(s)/rigging in intended locations and aimed in the desired directions. If ground-stacked, provide a level surface capable of supporting the total weight of the loudspeaker(s).
- 3. Connect the loudspeakers to a supported EAW Processor and/or power amp.
- 4. Set-up and adjust overall system gain and signal processing, as needed to maximize the array's performance for the application.
- 5. Provide training to operate the loudspeakers within their limits.
- 6. Provide regular inspection and maintenance to maintain the integrity of the installation and the performance of the loudspeakers.

Sound System Design

See Resolution Help File for assistance in properly designing line array systems.

Software

EAW Resolution 2 software is designed to assist in SPL predictions, determine splay angles, and calculate rigging limits for all line array items.

Always ensure that your EAW Resolution software is up-to-date.

For a complete list of recommended system requirements, please refer to the Resolution 2 help file.

Using EAW Resolution™

EAW Resolution is the key to determining the optimal loudspeaker configuration for any application. Rooted in EAW's proprietary FChart modeling and calculation engine, Resolution allows users to easily model any venue and visualize a wide variety of sound system designs to determine what particular configuration is best suited to the venue.

Users simply need to define the loudspeaker position, allowable trim, minimum clearance, and quantity available and use the Assistant to determine the optimal loudspeaker configuration for a given venue. In many situations no further prediction work will be necessary for optimal results. Users can also adjust the results after running the Assistant by manually adding/removing modules or adjusting coverage and observing changes in predicted results.

Please visit www.eaw.com to download the latest version of Resolution. Instructional videos can be viewed on education.eaw.com.

Increased Directivity & Performance for every application in one solution

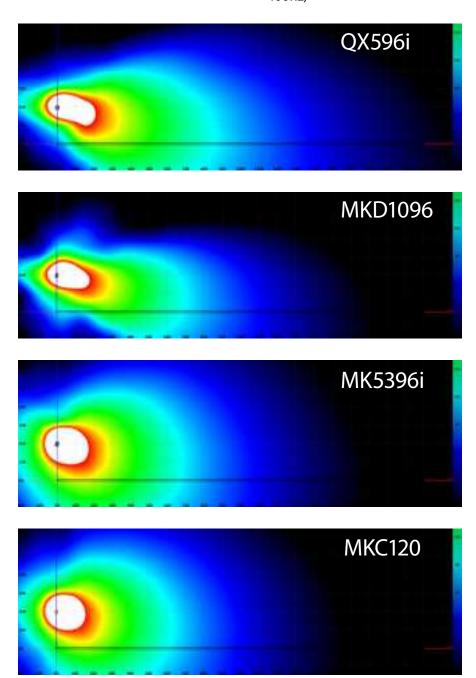
It's helpful to look at EAW install engineered products as one solution. Meaning, where one product may leave of, another can easily take it's place and complete the task.

For instance, if QX series is specified but cost is of concern, MKD series is a viable solution with only a small sacrifice in performance. Same

could be said when looking at MKD series to MKi series. Though these are different series, they compliment each other.

All have various matching horn patterns, which enables coverage matching between these products to remain seamless, with only a drop in performance and clarity.

Below are some examples on how directivity scales between each product line (1 octave, 400hz)



UXA Installation Amplifiers



UXA4401



UXA4403



UXA4807D

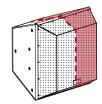
QX Series



QX544i ► 45° × 45° QX564i ► 60° × 45° QX566i ► 60° × 60°	QX594i ▶90° × 45° QX596i ▶90° × 60°
QX326 > 120° x 60°	QX394 > 90° x 45°
QX364 > 60° x 45°	QX396 > 90° x 60°
QX366 > 60° x 60°	QX399 > 90° x 90°

INSIDE EAW TECHNOLOGIES

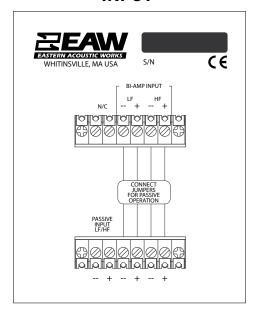




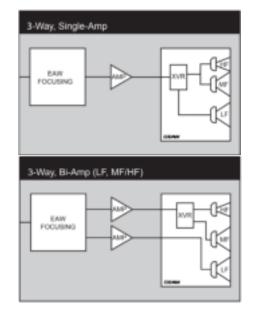


QX300 SE	RIES	QX500 SE	RIES		
TWO-WAY TRAPEZOIDAL ENGLOSIJIE		THREE-WAY TRAPEZOIDAL ENCLOSURE			
SUBSYSTEM		SUBSYSTEM			
LF-4, 10-in cone		LF 4x 12 in	LF 4x 12 in. cone		
HF 1, 1.4-in, exit, 4-in, voice coil		MF 1x. 2 in. exit 3.5 in. compression			
compression	on driver	HF 1x 2 in. driver	exit, 1.75 in compression		
NOMINAL BEAMWIOTH	$60^{\circ} \approx 45^{\circ}$ for $120^{\circ} \approx 60^{\circ}$; thy Model)	NOMINAL BEAMWIDTH	45° x 45° to 90° x 60° (by Model)		
TREQUENCY	669st - 20kht	FREQUENCY	55hz – 20khz		
TREQUENCY MAX SPL	664d - 20khz	FREQUENCY MAX SPL	55hz – 20khz 145 – 147 dB (by Mo		

INPUT

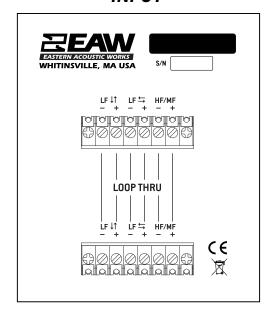


SIGNAL

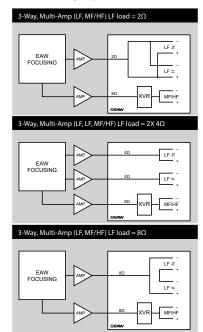


QX300

INPUT



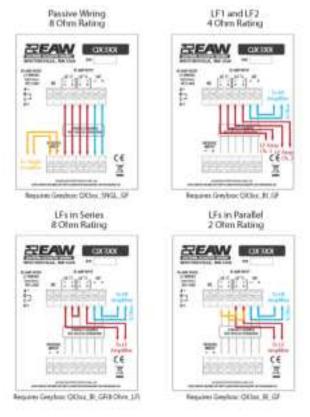
SIGNAL



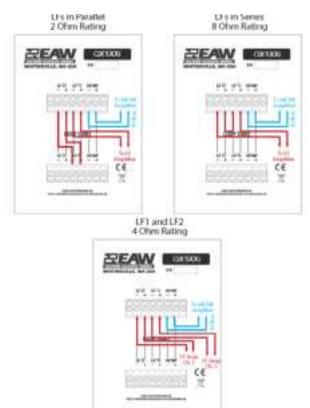
QX500i

HPF	High Pass Filter for crossover or Recommended High Pass		
LPF	Low Pass Filter for crossover		
LF/MF/HF	Low Frequency / Mid Frequency / High Frequency		
AMP	User Supplied Power Amplifier –or– Integral Amplifier		
XVR	Passive LPFs, HPFs, and EQ integral to the loudspeaker		
EAW Focusing	Digital Signal Processor capable of implementing EAW		

QX300 Wiring Options



QX500 Wiring Options



QX Series Recommended Systems & Amp Pairings

QX300 Single Amp

Amplifiar	Single Ended	Bridge Mode	
Amplifier	Speaker per channel	Speaker per channel	
UXA4401(D)	-	-	
UXA4403D	-	2	
UXA4807D	-	2	

QX300 Bi Amp

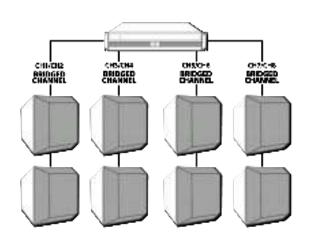
Amalifar	Single Ended	Bridge Mode	
Amplifier	Speaker per channel	Speaker per channel	
UXA4401(D)	-	-	
LIVAAAO2D	LF (2X4ohm) uses 2 ch	LF 1	
UXA4403D	HF 2	HF 2	
LIV A 4007D	LF (2X4ohm) uses 2 ch	LF 1	
UXA4807D	HF 2	HF 2	

QX500 Bi Amp

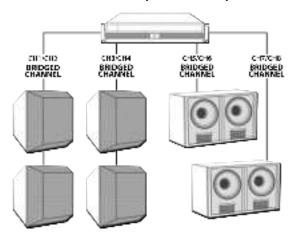
Amplifier	Single Ended	Bridge Mode	
Ampimer	Speaker per channel	Speaker per channel	
UXA4401(D)	-	-	
UXA4403D	_	LF (2x4ohm) uses 2 bridged ch	
UXAHHUSD	_	HF 2	
LIVA 4907D		LF (2x4ohm) uses 2 bridged ch	
UXA4807D	-	HF 2	

QX Series Recommended Systems & Amp Pairings

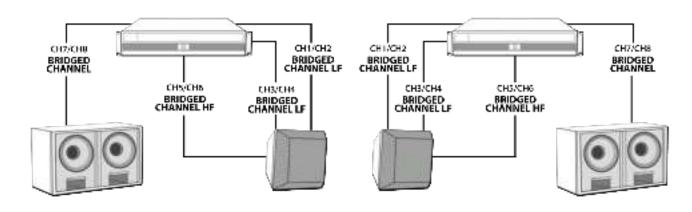
QX300 Single Amp (UXA4807D)



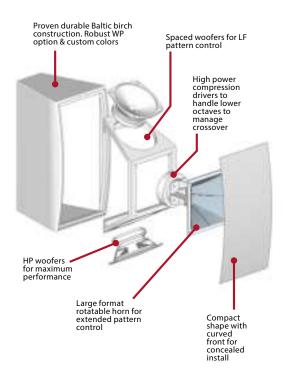
QX300 Single Amp w/SB528z Subwoofer (UXA4807D)



QX500 Bi Amp w/SB528z Subwoofer (UXA4807D)



MKD Series





MKD1000 - No Grill





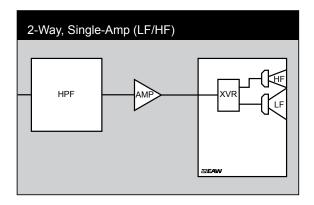


MKD800	SERIES	MKD1000	SERIES	MKD1200	SERIES
2-WAY FULL RANGE LOUDSPEAKEE		2-WAY FULL RANGE LOUDLE LAKER		3-WAY FULL RA	WIS TOTOLSTANCE
1 s. ten Exit Horn Load		1 x 1.46n Ex Compressi	ne, 25in Vince Coll, Wented it, 4in Nesidyman on Driver, Hom Loaded	1 x 25v Exit Compression 1 x 25v Exit	me, 3in Voice Coil, Vented J. Sin Voice Coil, on Midninge, Horn Loaded 1.75in Voice Coil, on-driver, Horn Loaded
NEMINAL BEAMWERN	Hortzontel 00", 90", 100" Vertical 43", 60" (by Moutel)	HEAMWEITH	120" x 90", 90" ± 45" 90" ± 60" (by Model)	PLOMINAL BEAMWIETE	60" s. 65", 90" s. 45" Bry Modell
TREQUENCY 62% - TRANS ANDESEN. 135 dB		ERECIDENCA	57HE - 20MHE	FREQUENCY	47m - 20kHz
		MAX SPL	181.00	MAX SEL	147 dB

INPUT

SIGNAL



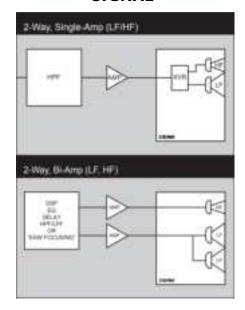


MKD800

INPUT

BI-AMP INPUT LF HF N/C --+ --+ UNIPERS FOR PASSIVE NPUT LF/HF PASSIVE NPUT LF/HF LF/HF PASSIVE NPUT LF/HF LF/HF NPUT NPUT LF/HF NPUT LF/HF NPUT NPUT NPUT NPUT LF/HF NPUT NPUT LF/HF NPUT NPUT NPUT LF/HF NPUT N

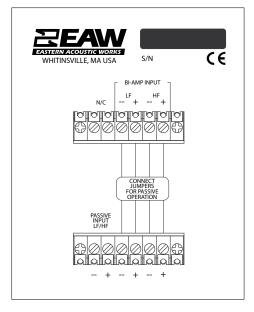
SIGNAL



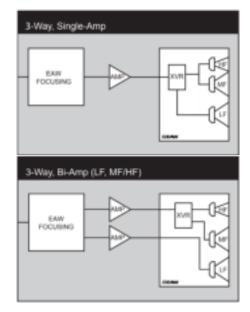
MKD1000

HPF	High Pass Filter for crossover or Recommended High Pass		
LPF	Low Pass Filter for crossover		
LF/MF/HF	Low Frequency / Mid Frequency / High Frequency		
AMP	User Supplied Power Amplifier –or– Integral Amplifier		
XVR	Passive LPFs, HPFs, and EQ integral to the loudspeaker		
EAW Focusing	Digital Signal Processor capable of implementing EAW		

INPUT

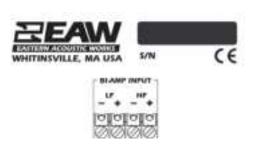


SIGNAL

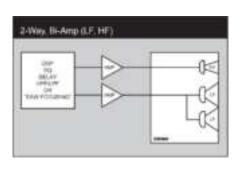


MKD1200

INPUT



SIGNAL



MKD1500

HPF	High Pass Filter for crossover or Recommended High Pass
LPF	Low Pass Filter for crossover
LF/MF/HF	Low Frequency / Mid Frequency / High Frequency
AMP	User Supplied Power Amplifier –or– Integral Amplifier
XVR	Passive LPFs, HPFs, and EQ integral to the loudspeaker
EAW Focusing	Digital Signal Processor capable of implementing EAW

MKD Series Recommended Systems & Amp Pairings

MKD526

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	1	-	-
UXA4403D	3	-	-	-
UXA4807D	3	-	-	-

MKD800

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	2	-	-
UXA4807D	-	2	-	-

MKD1000

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	2	HF 2	LF 2 HF 2
UXA4807D	-	2	HF 2	LF 2 HF 2

MKD Series Recommended Systems & Amp Pairings

MKD1200

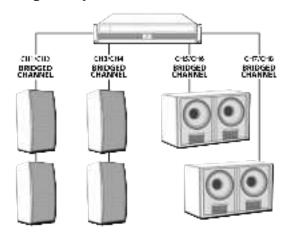
Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	2	HF 2	LF 2 HF 2
UXA4807D	-	2	HF 2	LF 2 HF 2

MKD1500

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	-	-	LF 1 HF 2
UXA4807D	-	-	-	LF 1 HF 2

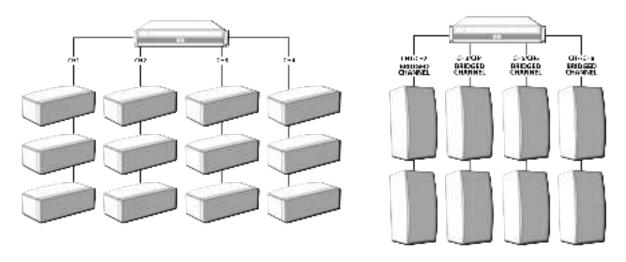
MKD Series Recommended Systems & Amp Pairings

MKD1000 Single Amp w/SB528z Subwoofer (UXA4807D)

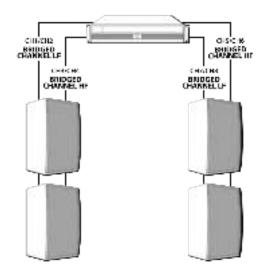


MKD526 (UXA4403D)

MKD1000 Single Amp (UXA4807D)



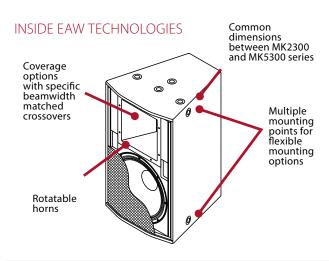
MKD1200 Single Amp (UXA4807D)

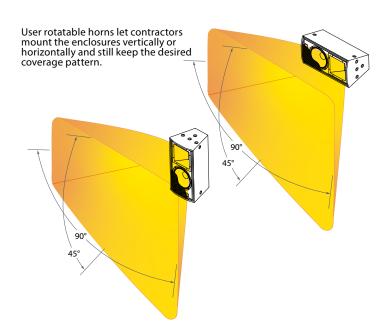


MK Series



MK5326i ≥120° x 60°	MK5394i ▶90° x 45°
MK5364i ≥ 60° x 45°	MK5396i ► 90° x 60°
MK5366i ► 60° × 60°	MK5399i ►90° × 90°
MK2326i ▶120° x 60°	MK2394i ► 90° x 45°
MK2364i ≥ 60° x 45°	MK2396i ▶90° x 60°
MK2366i ≥ 60° × 60°	MK2399i ►90° x 90°
MK8126i ►120° x 60°	MK8196z ▶90°×60°

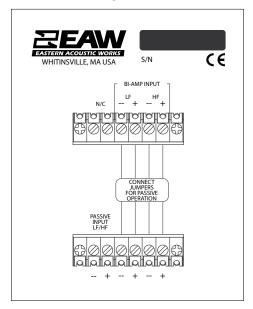




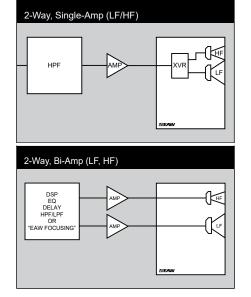
Features	Benefits
Proven track record over many years	Confidence that the system will be built to last
Wide-ranging product family with three size tiers (8", 12", 15")	Outfit an entire project with loudspeakers that share a common tonality, making tuning easier
Available in range of colors and finishes	Standard white or black for typical applications, color-matching for specific visual environments and WP for outdoors
Large-format horns and beamwidth-matched crossovers	Consistent tonality throughout the entire coverage pattern
Rotatable horns	Can be easily used for horizontal or vertical installations

Enhanced with Greybox processing

INPUT



SIGNAL

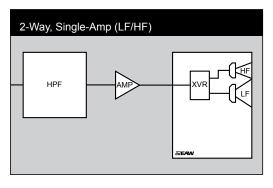


MK2300i & MK5300i

INPUT



SIGNAL



MK8100

MK Series Recommended Systems & Amp Pairings

MK8100

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	1	-	-
UXA4403D	2	-	-	-
UXA4807D	2	-	-	-

MK2300

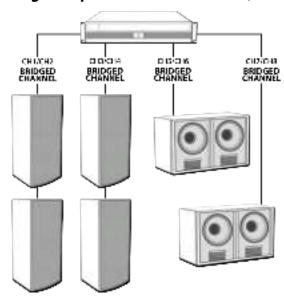
Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	2	HF 2	LF 2 HF 2
UXA4807D	-	2	HF 2	LF 2 HF 2

MK5300

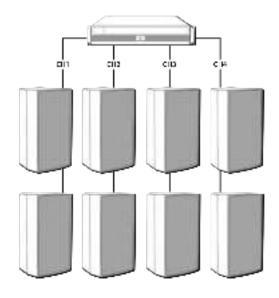
Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	2	HF 2	LF 2 HF 2
UXA4807D	-	2	HF 2	LF 2 HF 2

MK Series Recommended Systems & Amp Pairings

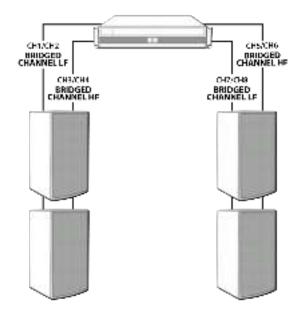
MK2300 Single Amp w/SB528z Subwoofer (UXA4807D)



MK8100 (UXA4403D)



MK5300 Bi Amp (UXA4807D)



MKC Series



MKC50 - No grill



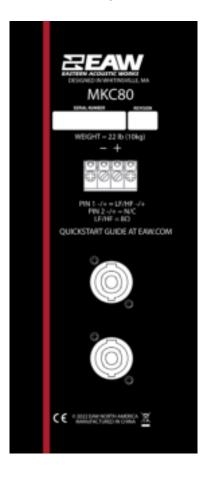
MKC80 - No grill

- Available in four models, MKC50, MKC60, MKC80, MKC120 (coaxial 5", 6", 8", and 12" respectively).
- ► MKC50 & MKC60 1 in Dome tweeter provides superior dispersion, fidelity and output.
- ► MKC80 & MKC120 Patented CSA coaxial horn provides superior control, fidelity and output.
- ► MKC80 & MKC120 Integrated handle and pole mount.
- ► MKC120 Integrated M10 mounting points.
- ► Inherent weather resistance for outdoor use when used under cover.
- Available WP Models for long term outdoor installations.
- Multitap transformer options provide solutions for distributed and fill systems.
- MKC Series can be deployed in either vertical or horizontal orientations.

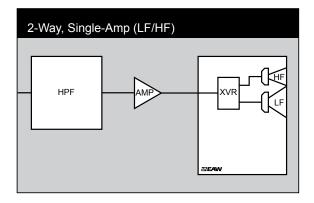


MKC60 - No grill

INPUT



SIGNAL

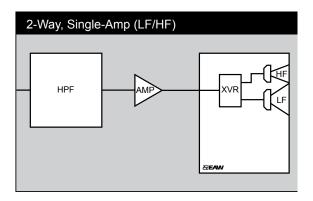


MKC80 & MKC120

INPUT



SIGNAL



MKC50 & MKC60

MKC Series Recommended Systems & Amp Pairings

MKC50

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	1	-	-	-
UXA4403D	4	-	-	-
UXA4807D	4	-	-	-

MKC60

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	1	-	-
UXA4403D	3	-	-	-
UXA4807D	3	-	-	-

MKC80

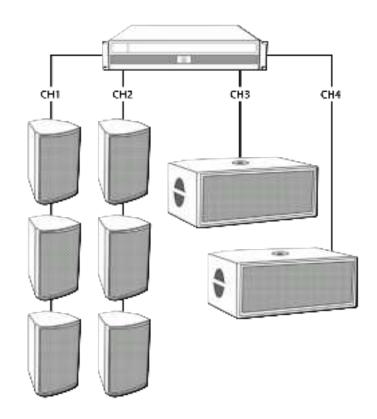
Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	3	-	-	-
UXA4807D	3	-	-	-

MKC Series Recommended Systems & Amp Pairings

MKC120

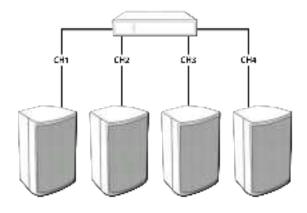
Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	2	-	-
UXA4807D	-	2	-	-

MKC60 w/SB210 Subwoofer (UXA4403D)

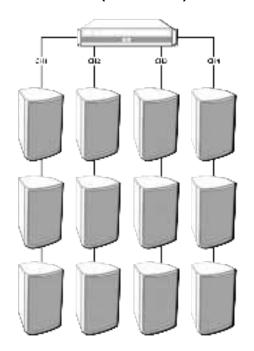


MKC Series Recommended Systems & Amp Pairings

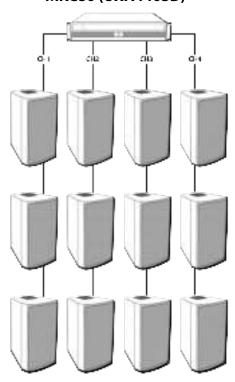
MKC50 (UXA4401)



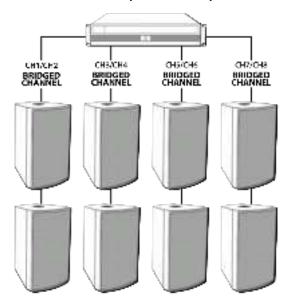
MKC60 (UXA4403D)



MKC80 (UXA4403D)



MKC120 (UXA4807D)



SB Series Subwoofers



Clockwise (starting from top left) - SB528zP, SB250zP, SB120zP, SB210 $\,$

- ► Available models: SB120z, SB150z, SB180z, SB250z. SB528z, SB210
- ▶ Direct radiating, with optimally tuned, vented enclosures
- ► High output, large-format systems with proven performance
- ▶ Optimally tuned with large very low turbulence port

SB Series Recommended Systems & Amp Pairings

SB120z

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	2	-	-
UXA4807D	-	2	-	-

SB150z

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	2	-	-
UXA4807D	-	2	-	-

SB180z

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	2	-	-
UXA4807D	-	2	-	-

SB Series Recommended Systems & Amp Pairings

SB210

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	1	-	-	-
UXA4807D	1	-	-	-

SB250z

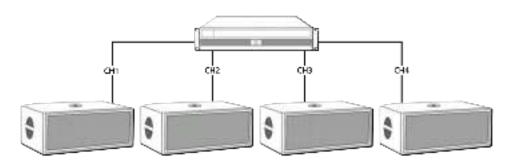
Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	1	-	-
UXA4807D	-	1	-	-

SB528z

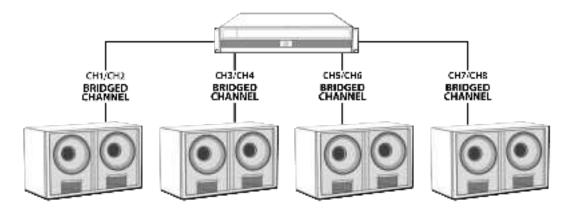
Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	-	1	-	-
UXA4807D	-	1	-	-

SB Series Recommended Systems & Amp Pairings

SB210 (UXA4403D)



SB528z (UXA4807D)



CIS & LS Series









From left to right - CIS400, LS432i, LS432i white, LS832i

► CIS series available models: CIS300, CIS400

►LS series available models: LS432i, LS832i

CIS/LS Series Recommended Systems & Amp Pairings

LS432i

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	4	-	-	-
UXA4807D	4	-	-	-

LS832i

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	-	-	-	-
UXA4403D	3	-	-	-
UXA4807D	3	-	-	-

CIS300

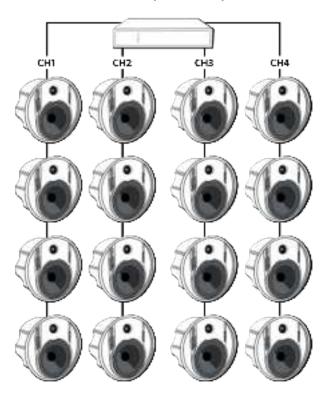
Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	4	-	-	-
UXA4403D	-	-	-	-
UXA4807D	-	-	-	-

CIS/LS Series Recommended Systems & Amp Pairings

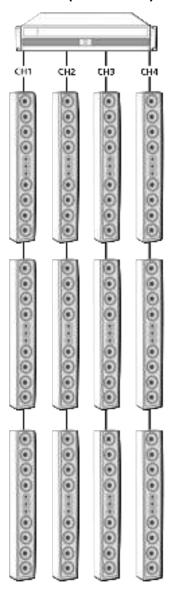
CIS400

Amplifier	Single Ended Single Amp Speaker per ch	Bridge Mode Single Amp Speaker per ch	Single Ended Bi Amp Speaker per ch	Bridge Mode Bi Amp Speaker per ch
UXA4401(D)	4	-	-	-
UXA4403D	-	-	-	-
UXA4807D	-	-	-	-

CIS400 (UXA4401)



LS482i (UXA4403D)



EAW Warranty

These EAW products were designed and engineered at our headquarters in Whitinsville, MA USA and go through multiple quality checks during manufacturing. We guarantee our loudspeakers against defects in workmanship, materials and against malfunctions for a period of 6 years from date of delivery. Terms and conditions apply. Download the complete warranty policy at

www.eaw.com/warranty



Product Damaged in Transport? Contact the freight carrier immediately and note concealed shipping damage. Then contact EAW for replacement.

Scan code to contact EAW



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