

BOSE AMU105 ArenaMatch Utility Small-format Foreground/Fill Loudspeakers Installation Guide

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ArenaMatch Utility

Small-format Foreground/Fill Loudspeakers

AMU105

AMU108

AMU206

AMU208

Installation Guide

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Important Safety Instructions

Please read and keep all safety and use instructions.

This product is intended for installation by professional installers only! This document is intended to provide professional installers with basic installation and safety guidelines for this product in typical fixed-installation systems. Please read this document and all safety warnings before attempting installation.

Do not attempt to service this product yourself. Refer all servicing to authorized service centers, installers, technicians, dealers, or distributors. To contact Bose Professional or to find a dealer or distributor near you, visit **PRO.BOSE.COM**.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 6. Only use attachments/accessories specified by the manufacturer.
- 7. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

WARNINGS/CAUTIONS:



Contains small parts which may be a choking hazard. Not suitable for children under age 3.

This product contains magnetic material. Consult your physician on whether this might affect your implantable medical device.

All Bose products must be installed in accordance with local, state, federal, and industry regulations. It is the installer's responsibility to ensure the installation of the loudspeakers and mounting system is performed in accordance with all applicable codes, including local building codes and regulations. Consult the local authority having jurisdiction before installing this product.

Unsafe mounting or overhead suspension of any heavy load can result in serious injury or death, and property damage. It is the installer's responsibility to evaluate the reliability of any mounting method used for their application. Only professional installers with the knowledge of proper hardware and safe mounting techniques

should attempt to install any loudspeaker overhead.

Do NOT make unauthorized alterations to this product.

The AMU105 wall mounting kit is only for use with model AMU105.

The AMU108 wall mounting kit is only for use with model AMU108.

The AMU206 wall mounting kit is only for use with model AMU206.

The AMU208 wall mounting kit is only for use with model AMU208.

Do not mount on surfaces that are not sturdy, or that have hazards concealed behind them, such as electrical wiring or plumbing. If you are not sure about installing the bracket, contact a qualified professional installer. Ensure the bracket is installed according to local building codes.

Do not use hydrocarbon-based solvents, lubricants, or cleaning agents of any type on or around Bose speakers, and associated mounting hardware, during installation. The use of such hydrocarbon-based lubricants, solvents, or cleaning agents on or around the mounting anchors and screws can lead to degradation of the plastic material, possibly resulting in cracking and premature failure of the product.

Keep the product away from fire and heat sources. Do NOT place naked flame sources, such as lighted candles, on or near the product.

Regulatory Information

This product conforms to all applicable EU directive requirements. The complete Declaration of Conformity can be found at www.Bose.com/compliance.

This symbol means the product must not be discarded as household waste and should be delivered to an appropriate collection facility for recycling. Proper disposal and recycling help protect natural resources, human health, and the environment.

For more information on the disposal and recycling of this product, contact your local municipality, disposal service, or the shop where you bought this product.

China Restriction of Hazardous Substances Table

Names and Contents of Toxic or Hazardous Substances or Elements

	Toxic or Hazardous Substances and Elements						
Part Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent (CR(VI))	Polybrominated Biphen (PBB)yl	Polybrominated d iphenyl (PBDE) ^{her}	
PCBs	Х	0	0	0	0	0	
Metal Parts	Х	0	0	0	0	0	
Plastic Parts	0	0	0	0	0	0	
Speakers	х	0	0	0	0	0	
Cables	Х	0	0	0	0	0	

This table is prepared in accordance with the provisions of SJ/T 11364.

0: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.



X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

Taiwan Restriction of Hazardous Substances Table

Equipment name: ArenaMatch Delta() Utility Loudspeakers , Type designation: 811433, 811434, 811435, 811436

	Restric	Restricted substances and their chemical symbols							
Unit	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr+6)	Polybrominated biphenyls (PBB)	Polybrominated diphen_yl ethers (PBDE)			
PCBs	_	О	О	0	0	0			
Metal Parts	_	О	О	0	О	О			
Plastic Parts	О	О	О	О	О	О			
Speakers	_	О	О	0	О	0			
Cables	_	О	О	0	0	o			

Note 1: "o" indicates that the percentage content of the restricted substance does not exceed the percentage of the reference value of presence.

Note 2: The "-" indicates that the restricted substance corresponds to the exemption.

Date of Manufacture: The eighth digit in the serial number indicates the year of manufacture; "7" is 2007 or 2017.

China Importer: Bose Electronics (Shanghai) Company Limited, Part C, Plan 9,

No. 353 North Rising Road, China (Shanghai) Pilot Free Trade Zone

EU Importer: Bose Products B.V., Gorslaan 60, 1441 RG Purmerend, The Netherlands

Mexico Importer: Bose de México, S. de R.L. de C.V., Paseo de las Palmas 405-204, Lomas de

Chapultepec, 11000 México, D.F. For importer & service information: +5255 (5202) 3545

Taiwan Importer: Bose Taiwan Branch, 9F-A1, No. 10, Section 3, Minsheng East Road, Taipei City 104, Taiwan.

Phone Number: +886-2-2514 7676

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Bose Corporation Headquarters: 1-877-230-5639

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Warranty Information

This product is covered by a limited warranty. For warranty details, visit **PRO.BOSE.COM**.

Overview

Built for zone-fill coverage or high-SPL foreground music, Bose ArenaMatch Utility loudspeakers feature similar tonal balance to ArenaMatch array modules but in compact designs. With an outdoor direct-exposure rating and the same EMB2S compression driver as ArenaMatch arrays, ArenaMatch Utility loudspeakers ensure consistent and intelligible high-level sound for any outdoor venue.

Product Features

Deploy as zone-fill to support ArenaMatch arrays systems, delivering powerful, intelligible sound and ensuring consistent tonal balance with EMB2S compression drivers in every speaker.

Deploy for high-level foreground music in any outdoor venue.

Install outdoors in direct-exposure applications with a three-layer stainless steel grille, water-resistant coating on woofer cone, industrial polyurethane exterior coating, and molded cover to protect inputs.

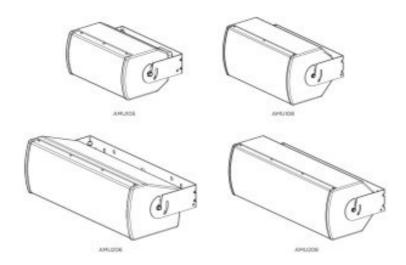
Adapt to a variety of configurations — all models ship standard with 70/100V transformer inputs and passive crossover with optimized filters for each transducer for more consistent frequency and polar response.

Streamline the design process by combining with complementary Bose Professional products, such as PowerMatch amplifiers and ControlSpace DSP.

Mount easily with included powder-coated steel U-bracket; rear enclosure panel also includes M8 threaded inserts to accept third-party accessory mounting brackets.

EN 54-24 Certified: EN 54-24: 2008, Loudspeaker for Voice Alarm Systems for Fire Detection and Fire Alarm Systems for Buildings

ArenaMatch Utility Loudspeakers



Package Contents

Each ArenaMatch Utility loudspeaker carton includes the following:

	AMU105	AMU108	AMU206	AMU208
Loudspeaker	1	1	1	1
U-bracket	1	1	1	1
M8 screws	4	4	4	4
M4 screws	4	4	4	4
Input cover	1	1	1	1
Rubber washers	2	2	2	2
T3 square drive	1	1	1	1

Optional Accessories

ArenaMatch Utility loudspeakers are compatible with the RMU pan-and-tilt bracket (WBPWR-50) and various third-party pole-mount kits.

Note: The optional mounting accessories have not been assessed to EN 54-24 specifications.

Inspection & Maintenance

WARNING: The loudspeaker and all mounting components must be inspected annually by a qualified professional who is trained and certified in suspending loudspeaker systems. All rigging parts and components used in the suspension of the loudspeaker system should be visually inspected for signs of cracking, bending, water damage, corrosion, de-lamination, or any other condition that could compromise the system's integrity and create a dangerous falling hazard.

Maintaining Weather Resistance

ArenaMatch Utility loudspeakers are rated for direct-exposure outdoor installations. To maintain weather resistance, please observe the following precautions:

- 1. Before, during, and after installation, check the surface of the loudspeaker enclosure to ensure that the the factory-applied, weather-resistant coating has not been damaged.
- 2. During install, angle the loudspeaker at least 5° downward to reduce the potential of rain compromising the performance of the loudspeaker.
- 3. All mounting holes must be sealed off with steel screws (included with applicable accessories) or the included plastic plugs (pre-installed).
- 4. The gland nut that secures the loudspeaker cable is factory sealed. Do not remove the gland nut or the the weather-resistant seal will be broken.
- 5. The loudspeaker is rated for direct-exposure installations, which means the grille is designed to withstand normal and wind-driven rain. The grille is not designed to withstand direct spraying of water from a hose or pressure washer.

CAUTION: If the above instructions are not observed, the weather-resistant integrity of your ArenaMatch Utility loudspeaker could be compromised.

For fire and evacuation notification applications, environmentally rated to IP33C per EN 54-24.

For general purpose audio installation applications, environmentally rated to IP55 per EN60529.

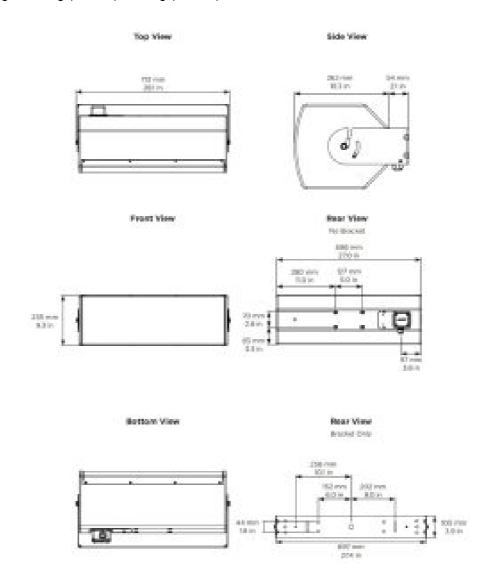
Recommended Tools

The following tools are recommended for the assembly of an ArenaMatch Utility loudspeaker system:
Flathead screwdriver
#2 Phillips-head screwdriver
10-millimeter socket or wrench
5-millimeter hex key
T3 square drive (included)

Product Dimensions

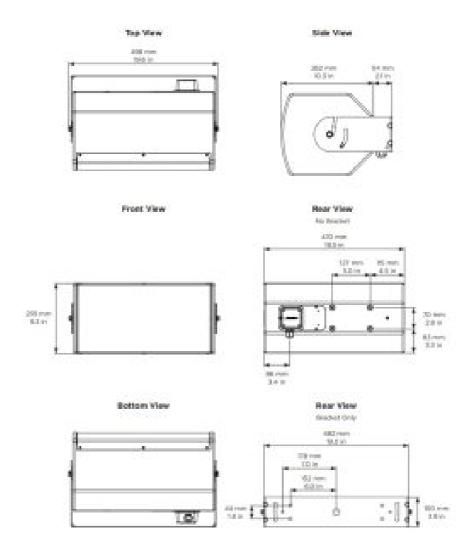
ArenaMatch Utility AMU105

Product net weight: 6.5 kg (14.4 lb) / 7.5 kg (16.5 lb) with U-bracket



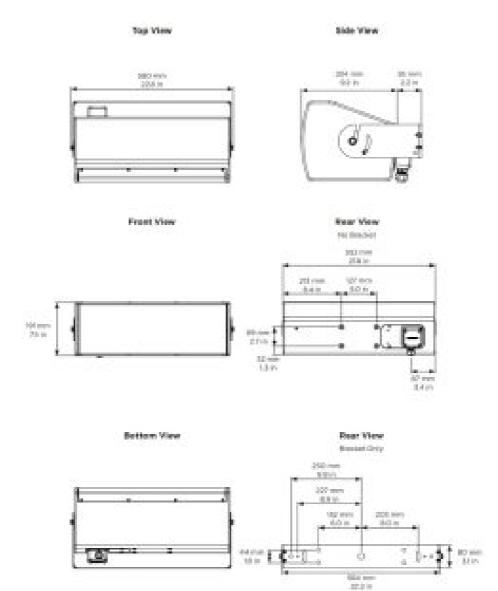
ArenaMatch Utility AMU108

Product net weight: 10.6 kg (23.3 lb) / 12.6 kg (27.7 lb) with U-bracket



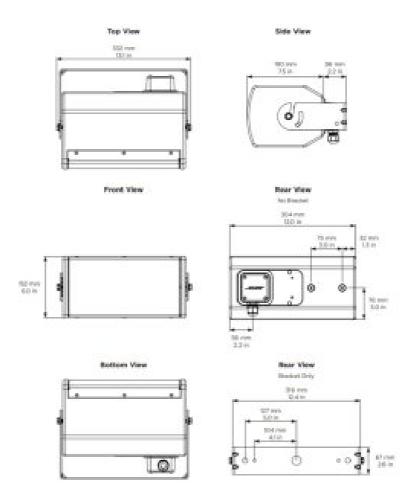
ArenaMatch Utility AMU206

Product net weight: 12.2 kg (26.8 lb) / 13.8 kg (30.5 lb) with U-bracket



ArenaMatch Utility AMU208

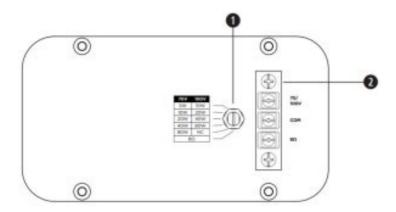
Product net weight: 17.0 kg (37.5 lb) / 19.5 kg (43.0 lb) with U-bracket



Installation

Input Panel

The input panel for all models is identical. They include a single screw-terminal barrier strip. Each terminal accepts a wire gauge of 10 AWG to 18 AWG.



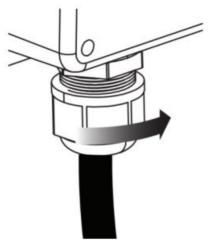
- 1. Tap switch: Rotate to adjust the tap setting. Use a flathead screwdriver.
- 2. Barrier strip

Securing the Wiring

Feed the wiring through the gland nut on the bottom of the input panel. Once you are done wiring your loudspeaker, rotate the gland nut clockwise to seal the wire. Tighten the gland nut by hand until the wire is held firmly in place, then tighten the gland nut an additional quarter turn. Do not over-tighten.

Note: Gland nut is rated IP68.

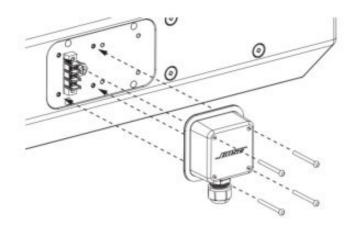
CAUTION: If the gland nut is not properly fastened, water could get into the input panel and damage the loudspeaker.



Attaching the Input Panel Cover

ArenaMatch Utility loudspeakers are shipped with the rear input panel cover not installed. Once you've made input wiring connections secure the cover over the input panel with the included M4 screws.

Note: The input cover can be rotated to support four different orientations. Always be sure the gland nut and wiring is facing downward.



Loudspeaker Pitch Angles

The maximum pitch angles for AMU loudspeakers when horizontally mounted with the included U-bracket are as follows:

	Wall-mounted	Ceiling-mounted
AMU105	-110°	-110°
AMU108	-110°	-110°
AMU206	-110°	-110°
AMU208	-110°	-110°

Note: The pitch angle is defined between the loudspeaker reference axis and the perpendicular axis to the mounting surface.

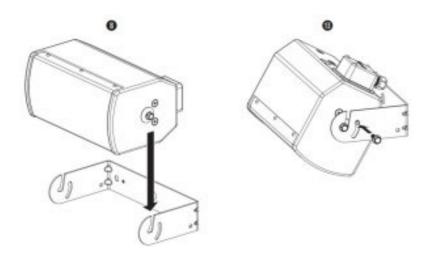
Mounting AMU Loudspeakers with the U-bracket

CAUTION: Before installation, determine the location and position of your AMU loudspeaker. Only remove the plastic inserts that are necessary for your installation. The plastic inserts are factory sealed to prevent water damage. If an insert is left unsealed after installation, the weather-resistant integrity of your loudspeaker could be compromised.

- 1. Choose a mounting location that will safely support the weight of the loudspeaker.
- 2. Remove packing materials and place the loudspeaker on the floor beneath the planned suspension point.
- 3. Using the included T3 square drive, remove the center plastic insert and one other insert (determined by your loudspeaker installation design) on each side of the loudspeaker.
- 4. Insert an M8 screw through a rubber washer and into the center threaded hole on each side of the loudspeaker. Do not tighten.
- 5. Hold the U-bracket in the mounting location and mark the holes.
- 6. Drill holes into the mounting surface using previously marked positions.
- 7. Attach the U-bracket to the building surface using appropriate fasteners (not included).

CAUTION: For attaching U-brackets to a surface, choose fasteners that are consistent with all local building codes and requirements to support the weight of the loudspeaker.

- 8. Hang the loudspeaker on the bracket by lowering the M8 screws into the bracket slots, keeping the rubber washers between the bracket and the speaker enclosure.
- 9. Connect your wiring to your loudspeaker.
- 10. Feed the wiring through the gland nut on the input panel cover and tighten the gland nut (see Securing the Wiring on page 16).
- 11. Attach the input cover using the included M4 screws (see Attaching the Input Panel Cover on page 17).
- 12. Position the loudspeaker at your desired pitch angle.
- 13. Insert an M8 screw through the remaining open insert on each side of the loudspeaker.
- 14. Tighten the four M8 screws with a 10-millimeter socket tool using a torque not to exceed 13.6 to 20.3 newton·meters (10 to 15-pound ·feet).

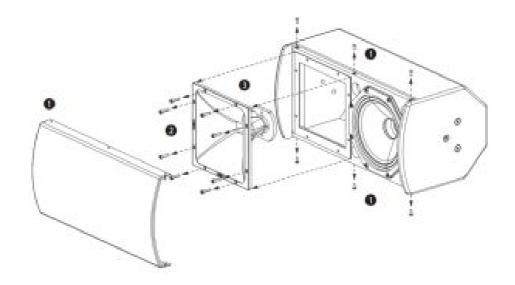


Rotating the High-frequency Waveguides

Note: Only the horizontal mounting orientation has been assessed to EN 54-24 specifications.

The high-frequency waveguide in the AMU108, AMU206, and AMU208 loudspeakers can be rotated to provide the desired coverage pattern for horizontal or vertical loudspeaker mounting. These loudspeakers are assembled in the factory for horizontal mounting. To rotate the waveguide for vertical mounting, do the following.

- 1. Remove the screws (AMU108: 6 screws; AMU206/AMU208: 8 screws) from around the loudspeaker grille and remove the grille from the enclosure.
- 2. Remove the eight waveguide screws.
- 3. Pull the waveguide forward, rotate it 90°, and place it back into the enclosure.
- 4. Secure the waveguide using the screws removed in Step 2.
- 5. Reattach the grille using the screws removed in Step 1.



Recommended Amplifier Power

Selecting the proper amplifier size for a given loudspeaker requires analysis of the transducer long-term (or RMS) power rating, the dynamic range of the input-source material (crest factor), desired sound pressure levels, and other factors. As a general guideline, to optimize ArenaMatch Utility system performance, the following amplifier configurations are recommended.

Loudspeaker	Nominal Impeda nce	Amp Power Rating
AMU105	Ω′8	100 W to 400 W
AMU108	Ω8	200 W to 800 W
AMU206	Ω 8	250 W to 1000 W
AMU208	Ω8	300 W to 1200 W

Recommended Signal Processing

Digital signal processing (DSP) equipment is required for infrasonic protection, equalization, and voltage limiting protection.

Recommended loudspeaker DSP presets are available in Bose ControlSpace Designer software and are designed for use with Bose PowerMatch configurable professional amplifiers and ControlSpace ESP and EX processor hardware (sold separately).

Technical Specifications

System Performance						
Frequency Response (–3 dB) 1	100 Hz to 16 kHz					
Frequency Range (–10 dB)	90 Hz to 16 kHz					
Nominal Coverage Pattern (H × V)	100° × 100°					
Recommended High-pass Filter	80 Hz with minimu	um 12-dB/octave fil	ter			
Crossover	Passive (2.0 kHz	crossover frequenc	cy)			
70V/100V transformer tap settin gs	, , ,	, ,	/ (237 Ώ), 40W (118 // (237 Ώ), 80W (11	3 Ω), 80W (58 Ω); 1 (8 Ω)		
	Bose Extended L	ifecycle Test 2	AES Transducer	Test 3		
Power Handling, long-term cont inuous	100 W 150 W					
Power Handling, peak	400 W		600 W			
	Free Field	Wall/Ceiling	Free Field	Wall/Ceiling		
Sensitivity (SPL/1W@1 m) 4	90 dB	92 dB	90 dB	92 dB		
Calculated Maximum SPL@1 m 5	110 dB	112 dB	111 dB	113 dB		
Calculated Maximum SPL@1 m, peak	116 dB	118 dB	117 dB	119 dB		
EN 54-24 Certified Ratings 6	100V/80W		Passive			
Sensitivity (1W@4m)	75.3 dB		75.5 dB			
Measured max. SPL @ 4 m	93.1 dB		93.8 dB			
Coverage Angle Octave Band	500 Hz	1000 Hz	2000 Hz	4000 Hz		
Horizontal Coverage	230°	342°	54°	106°		
Vertical Coverage	204°	162°	106°	100°		
Passive Nominal Impedance	Ω 8					
Rated Noise Voltage/ Transform er Rated Noise Power	100V/80W					
Transducers		I				

Low Frequency	1 × Bose LF5 high-excursion 5-inch woofer (2-inch voic e coil)					
High Frequency	1 × Bose EMB2S titanium-diaphragm, neodymium com pression drivers (2-inch voice coil)					
Nominal Impedance	8 Ω					
Physical						
Enclosure Material	Exterior-grade bird	ch plywood				
Finish	Two-part polyuret	nane coating, black	or white			
Grille	Powder-coated perforated stainless steel, acoustic foam, stainless steel m esh					
Environmental 7	Rated for direct-exposure outdoor installations (IP55 per EN60529; IP33C per EN54-24)					
Connectors	1 × barrier strip (accepts 10 to 18 wire gauge)					
Suspension/Mounting		nserts for U-bracke (75 mm, 2-bolt pat	t (per side); 2 × M8 tern)	threaded inserts o		
Dimensions (H × W × D) – milli meters	152 × 332 × 246 with U-bracket					
Dimensions (H × W × D) – inches	6.0 × 13.1 × 9.7 with U-bracket					
Net Weight (loudspeaker only)	6.5 kg (14.4 lb)					
Net Weight (with U-bracket)	7.5 kg (16.5 lb)					
Shipping Weight	9.5 kg (21.0 lb)					
Accessories	Included powder-o	coated steel U-brac	ket; optional pan-ar	nd-tilt bracket		

Footnotes

- 1. Frequency response and range measured on-axis (reference axis) in an anechoic environment with recommended bandpass and EQ.
- 2. Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration.
- 3. AES standard 2-hour duration with IEC system noise.
- 4. Sensitivity measured in an anechoic environment with a recommended high-pass filter.
- 5. Maximum SPL calculated using sensitivity and power ratings, exclusive of power compression.
- 6. The specifications data was measured in an anechoic chamber, free-field. The reference plane is on the grille surface. The reference axis is perpendicular to the center of the grille surface.

The horizontal plane contains the reference axis and is parallel to the horizontal axis defined by the longest

baffle dimension.

7. Tested to IP55 per EN60529 when used in General Purpose Audio installation, not for Fire and Evacuation notification applications. Notified Body certified by UL per the EN54-24 the standard for an IP33C rating, acceptable for use in a Fire and Evacuation Notification System application.

AMU108

System Performance				
Frequency Response (-3 dB) 1	90 Hz to 16 kHz			
Frequency Range (–10 dB)	80 Hz to 16 kHz			
Nominal Coverage Pattern (H × V)	90° × 60° (rotatab horn)	le high-frequency		
Recommended High-pass Filter	80 Hz with minimulter	um 12-dB/octave fi		
Crossover	Passive (1.4 kHz cy)	crossover frequen		
70V/100V transformer tap settin gs	, , , , , , , , , , , , , , , , , , , ,	10W (414 Ώ), 20W , 20W (414 Ώ), 40V	, , ,	, , , , , , , , , , , , , , , , , , , ,
	Bose Extended L	ifecycle Test 2	AES Transducer Test 3	
Power Handling, long-term cont inuous	200 W		250 W	
Power Handling, peak	800 W		1000 W	
	Free Field	Wall/Ceiling	Free Field	Wall/Ceiling
Sensitivity (SPL / 1 W @ 1 m) 4	91 dB	93 dB	91 dB	93 dB
Calculated Maximum SPL @ 1 m 5	114 dB	116 dB	115 dB	117 dB
Calculated Maximum SPL @ 1 m, peak	120 dB	122 dB	121 dB	123 dB
EN 54-24 Certified Ratings 6	100V/80W		Passive	
Sensitivity (1 W @ 4 m)	77.3 dB		77.8 dB	
Measured max. SPL @ 4 m	96.7 dB		99.4 dB	
Coverage Angle Octave Band	500 Hz 1000 Hz		2000 Hz	4000 Hz
Horizontal Coverage	172°	106°	84°	72°
Vertical Coverage	182°	106°	86°	64°

Passive Nominal Impedance	7.6 Ώ				
Rated Noise Voltage / Transfor mer Rated Noise Power	100V / 80W				
Transducers					
Low Frequency	1 × Bose LF8 high-excursion 8-inch woofer (2-inch voic e coil)				
High Frequency	1 × Bose EMB2S titanium-diaphragm, neodymium com pression drivers (2-inch voice coil)				
Nominal Impedance	8 Ω				
Physical					
Enclosure Material	Exterior-grade bi rch plywood				
Finish	Two-part polyurethane coating, blac k or white				
Grille	Powder-coated perforated stainless steel, acoustic foa m, stainless steel mesh				
Environmental 7	Rated for direct-exposure outdoor installations (IP55 p er EN60529; IP33C per EN54-24)				
Connectors	1 × barrier strip (accepts 10 to 18 wi re gauge)				
Suspension/Mounting	3 × M8 threaded inserts for U-bracket (per side); 4 × M8 threaded inserts on rear surface (127 × 70 mm, 4-bolt pattern)				
Dimensions (H × W × D) – milli meters	235 × 498 × 316 with U-bracket				
Dimensions (H × W × D) – inches	9.3 × 19.6 × 12.4 with U-bracket				
Net Weight (loudspeaker only)	10.6 kg (23.3 lb)				
Net Weight (with U-bracket)	12.6 kg (27.7 lb)				
Shipping Weight	14.2 kg (31.2 lb)				
Accessories	Included powder-coated steel U-bracket; optional pan- and-tilt bracket				

Footnotes

1. Frequency response and range measured on-axis in an anechoic environment with recommended bandpass

and EQ.

- 2. Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration.
- 3. AES standard 2-hour duration with IEC system noise.
- 4. Sensitivity measured in an anechoic environment with a recommended high-pass filter.
- 5. Maximum SPL calculated using sensitivity and power ratings, exclusive of power compression.
- 6. The specifications data was measured in an anechoic chamber, free-field. The reference plane is on the grille surface. The reference axis is perpendicular to the center of the grille surface.
 - The horizontal plane contains the reference axis and is parallel to the horizontal axis defined by the longest baffle dimension.
- 7. Tested to IP55 per EN60529 when used in General Purpose Audio installation, not for Fire and Evacuation notification applications. Notified Body certified by UL per the EN54-24 the standard for an IP33C rating, acceptable for use in a Fire and Evacuation Notification System application.

AMU206

System Performance					
Frequency Response (-3 dB) 1	90 Hz to 16 kHz				
Frequency Range (–10 dB)	80 Hz to 16 kHz				
Nominal Coverage Pattern (H × V)	120° × 60° (rotata frequency horn)	ble high-			
Recommended High-pass Filter	80 Hz with minimulter	um 12-dB/octave fi			
Crossover	Passive; separate bandpass filters per transducer (300 Hz and 1.5 kHz)				
70V/100V transformer tap settin gs	70V: 5W (882 Ώ), 10W (476 Ώ), 20W (242 Ώ), 40W (120 Ώ), 80W (58 Ώ); 1 00V: 10W (882 Ώ), 20W (476 Ώ), 40W (242 Ώ), 80W (120 Ώ)				
	Bose Extended L	ifecycle Test 2	AES Transducer Test 3		
Power Handling, long-term cont inuous	250 W		300 W		
Power Handling, peak	1000 W		1200 W		
	Free Field	Wall/Ceiling	Free Field	Wall/Ceiling	
Sensitivity (SPL / 1 W @ 1 m) 4	90 dB	92 dB	90 dB	92 dB	
Calculated Maximum SPL @ 1 m 5	114 dB	116 dB	115 dB	117 dB	
Calculated Maximum SPL @ 1 m, peak	120 dB	122 dB	121 dB	123 dB	

EN 54-24 Certified Ratings 6	100V/80W		Passive	
Sensitivity (1 W @ 4 m)	77.0 dB		77.5 dB	
Measured max. SPL @ 4 m	96.3 dB		99.8 dB	
Coverage Angle Octave Band	500 Hz	1000 Hz	2000 Hz	4000 Hz
Horizontal Coverage	110°	134°	72°	94°
Vertical Coverage	192°	138°	92°	58°
Passive Nominal Impedance	8 Ω			
Rated Noise Voltage / Transfor mer Rated Noise Power	100V / 80W			
Transducers				
Low Frequency	2 × Bose LF6 high-excursion 6-inch woofer (2-inch voic e coil)			
High Frequency	1 × Bose EMB2S titanium-diaphragm, neodymium com pression drivers (2-inch voice coil)			
Nominal Impedance	8 Ω			
Physical				
Enclosure Material	Exterior-grade bi rch plywood			
Finish	Two-part polyuret	nane coating, blac		
Grille	Powder-coated perforated stainless steel, acoustic form, stainless steel mesh		steel, acoustic foa	
Environmental 7	Rated for direct-exposure outdoor installations (IP55 er EN60529; IP33C per EN54-24)		stallations (IP55 p	
Connectors	1 × barrier strip (accepts 10 to 18 wi re gauge)			
Suspension/Mounting		nserts for U-bracke (127 × 70 mm, 4-b		3 threaded inserts o

Dimensions (H × W × D) – milli meters	191 × 580 × 289 w	
Dimensions (H × W × D) – inches	7.5 × 22.8 × 11.4 v	
Net Weight (loudspeaker only)	12.2 kg (26.8 lb)	
Net Weight (with U-bracket)	13.8 kg (30.5 lb)	
Shipping Weight	16.1 kg (35.5 lb)	
Accessories	Included powder-cand-tilt bracket	

Footnotes

- 1. Frequency response and range measured on-axis in an anechoic environment with recommended bandpass and EQ.
- 2. Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration.
- 3. AES standard 2-hour duration with IEC system noise.
- 4. Sensitivity measured in an anechoic environment with a recommended high-pass filter.
- 5. Maximum SPL calculated using sensitivity and power ratings, exclusive of power compression.
- 6. The specifications data was measured in an anechoic chamber, free-field. The reference plane is on the grille surface. The reference axis is perpendicular to the center of the grille surface.
 - The horizontal plane contains the reference axis and is parallel to the horizontal axis defined by the longest baffle dimension.
- 7. Tested to IP55 per EN60529 when used in General Purpose Audio installation, not for Fire and Evacuation notification applications. Notified Body certified by UL per the EN54-24 the standard for an IP33C rating, acceptable for use in a Fire and Evacuation Notification System application.

AMU208

System Performance	
Frequency Response (–3 dB) 1	80 Hz to 16 kHz
Frequency Range (-10 dB)	70 Hz to 16 kHz
Nominal Coverage Pattern (H × V)	90° × 60° (rotatable high-frequency horn)
Recommended High-pass Filter	70 Hz with minimum 12-dB/octave filter

Crossover	Passive; separate bandpass filters per transducer (200 Hz and 1.2 kHz)			
70V/100V transformer tap settin gs	70V: 5W (876 Ω), 10W (485 Ω), 20W (250 Ω), 40W (125 Ω), 80W (62 Ω); 1 00V: 10W (876 Ω), 20W (485 Ω), 40W (250 Ω), 80W (125 Ω)			
	Bose Extended Lifecycle Test 2		AES Transducer Test 3	
Power Handling, long-term cont inuous	300 W		400 W	
Power Handling, peak	1200 W		1600 W	
	Free Field	Wall/Ceiling	Free Field	Wall/Ceiling
Sensitivity (SPL / 1 W @ 1 m) 4	94 dB	96 dB	94 dB	96 dB
Calculated Maximum SPL @ 1 m 5	119 dB	121 dB	120 dB	122 dB
Calculated Maximum SPL @ 1 m, peak	125 dB	127 dB	126 dB	128 dB
EN 54-24 Certified Ratings 6	100V/80W		Passive	
Sensitivity (1 W @ 4 m)	81.0 dB		81.0 dB	
Measured max. SPL @ 4 m	99.3 dB		103.8 dB	
Coverage Angle Octave Band	500 Hz	1000 Hz	2000 Hz	4000 Hz
Horizontal Coverage	68°	38°	110°	74°
Vertical Coverage	186°	124°	80°	64°
Passive Nominal Impedance	Ω'8			
Rated Noise Voltage / Transfor mer Rated Noise Power	100V / 80W			
Transducers				
Low Frequency	2 × Bose LF8 high-excursion 8-inch woofer (2-inch voic e coil)			
High Frequency	1 × Bose EMB2S titanium-diaphragm, neodymium com pression drivers (2-inch voice coil)			

Nominal Impedance	8 Ω		
Physical			
Enclosure Material	Exterior-grade bi rch plywood		
Finish	Two-part polyurethane coating, blac k or white		
Grille	Powder-coated perforated stainless steel, acoustic foa m, stainless steel mesh		
Environmental 7	Rated for direct-exposure outdoor installations (IP55 p er EN60529; IP33C per EN54-24)		
Connectors	1 × barrier strip (accepts 10 to 18 wi re gauge)		
Suspension/Mounting	$3 \times M8$ threaded inserts for U-bracket (per side); $4 \times M8$ threaded inserts on a rear surface (127 \times 70 mm, 4-bolt pattern)		
Dimensions (H × W × D) – milli meters	235 × 713 × 316 with U-bracket		
Dimensions (H × W × D) – inches	9.3 × 28.1 × 12.4 with U-bracket		
Net Weight (loudspeaker only)	17.0 kg (37.5 lb)		
Net Weight (with U-bracket)	19.5 kg (43.0 lb)		
Shipping Weight	23.1 kg (51.0 lb)		
Accessories	Included powder-coated steel U-bracket; optional pan- and-tilt bracket		

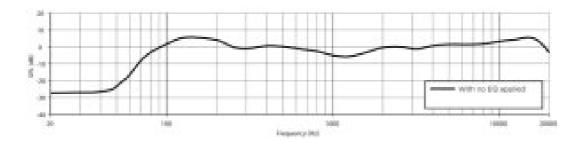
Footnotes

- 1. Frequency response and range measured on-axis in an anechoic environment with recommended bandpass and EQ.
- 2. Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration.
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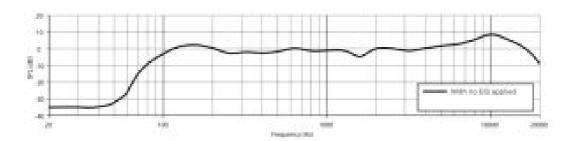
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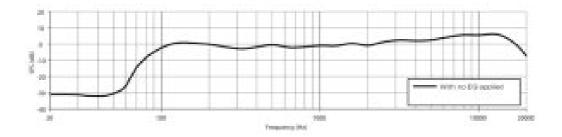
AMU105 Frequency Response



AMU108 Frequency Response



AMU208 Frequency Response



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Bose Corporation 100 The Mountain Rd, Framingham, MA 01701 20 DOP 429534-5

EN 54-24: 2008

Loudspeaker for voice alarm systems for fire detection and fire alarm systems for buildings
ArenaMatch Utility AMU105 Provided options:

Type B

For DOP 429534-5, see pro.Bose.com/AMU105DOP_UK



2531

Bose Corporation 100 The Mountain Rd, Framingham, MA 01701 20 DOP 429534-6

EN 54-24: 2008

Loudspeaker for voice alarm systems for fire detection and fire alarm systems for buildings
ArenaMatch Utility AMU108 Provided options:

Type B

For DOP 429534-6, see pro.Bose.com/AMU108DOP_UK



253

Bose Corporation 100 The Mountain Rd, Framingham, MA 01701 20 DOP 429534-7

EN 54-24: 2008

Loudspeaker for voice alarm systems for fire detection and fire alarm systems for buildings ArenaMatch Utility AMU206 Provided options:

Type B

For DOP 429534-7, see pro.Bose.com/AMU206DOP_UK



Bose Corporation 100 The Mountain Rd, Framingham, MA 01701 20 DOP 429534-8

EN 54-24: 2008

Loudspeaker for voice alarm systems for fire detection and fire alarm systems for buildings
ArenaMatch Utility AMU208 Provided options:

Type B

For DOP 429534-8, see pro.Bose.com/AMU208DOP_UK



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> AM830462 Rev. 02 December 2020



Documents / Resources



BOSE AMU105 ArenaMatch Utility Small-format Foreground/Fill Loudspeakers [pdf] Instal lation Guide

AMU105, AMU108, AMU206, AMU208, AMU105, ArenaMatch Utility Small-format Foreground, Fill Loudspeakers, Loudspeakers



BOSE AMU105 ArenaMatch Utility Small-Format Foreground/Fill Loudspeakers [pdf] Installation Guide

AMU105, AMU108, AMU206, AMU208, ArenaMatch Utility Small-Format Foreground Loudspeakers, ArenaMatch Utility Small-Format Fill Loudspeakers

References

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