SURROUND



HMS

UP-4XP

DATASHEET CINE-STUDIO

HMS Cinema Surround Loudspeaker



The HMS cinema surround loudspeaker is optimized for use in cinemas, high-end private theatres, screening rooms, and other surround applications. Designed to complement Meyer Sound's Acheron™



HMS-10 Cinema Surround Loudspeaker with Grille Frame

screen channel loudspeakers, the self-powered HMS maintains a wide dynamic range, exceptional fidelity, and precise clarity during the most demanding of digital soundtracks. Boasting a wide frequency range and a generous linear peak SPL with very low distortion, the HMS delivers the full intensity and nuance of cinema surround channels to every listener without compromise.

The HMS cinema surround loudspeaker is available in five models: HMS-5, HMS-10, HMS-12, HMS-15, and HMS-15AC, ranging in size, weight, driver size, and power to accommodate a wide range of venues and applications. The proprietary long-excursion cone drivers and diaphragm compression drivers are driven by an onboard amplifier that includes an active crossover, driver protection circuitry, and correction filters for flat phase and frequency response. A constant-directivity horn provides uniform, full-range, consistent coverage.

The HMS-5, HMS-10, HMS-12, and HMS-15 are equipped with IntelligentDC technology and

receive DC power and balanced audio from composite Phoenix™ 5-pin connectors. Powering the loudspeakers from an external DC source eliminates the need for AC conduits while

preserving the advantages of self-powered systems. IntelligentDC loudspeakers require an MPS-488HP external power supply. The single-space 19-inch rack unit distributes DC power and balanced audio to up to eight HMS-5, HMS-10, or HMS-12 loudspeakers, or up to four HMS-15 loudspeakers. Composite multiconductor cables, such as Belden® 1502 or equivalent, can deliver both DC power and balanced audio to loudspeakers at cable lengths up to 150 feet with just 1 dB of loss in peak SPL using 18 AWG wire. Longer cable runs are possible with heavier gauges. The MPS-488HP is optionally available with an $\mathsf{RMS}^{\mathsf{m}}$ remote monitoring system module for monitoring voltage and current draw for its attached loudspeakers from a Mac[®] or Windows[®]based computer.

The HMS-15AC is an AC-powered version of the HMS-15. Its Intelligent AC™ power supply provides automatic voltage selection, EMI filtering, soft current turn-on, and surge suppression. The HMS-15AC

turn-on, and surge suppression. The HMS-15AC is optionally available with its own onboard RMS™ remote monitoring system module for comprehensive monitoring of loudspeaker parameters from a Mac or Windows-based computer.

The versatile HMS can be suspended or mounted on walls or ceilings at fixed or adjustable angles with optional half-yoke, U-bracket, or wall-mount brackets, allowing it to be deployed per the requirements of any surround application or immersive cinema format.

Meyer Sound's industry-leading self-powered technology not only delivers unparalleled and consistent audio fidelity but also simplifies installation, whether designing new rooms from scratch or adding surround channels to existing installations. The HMS cabinet features a black textured finish and an acoustically transparent, detachable, black cloth grille that blend smartly with any theatre decor.



HMS-5 Compact Cinema Surround Loudspeaker



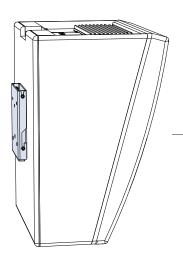


FEATURES & BENEFITS

- Exceptional fidelity and extended highfrequency performance
- Constant-directivity horn yields uniform response throughout coverage area
- Seamless integration with Acheron screen channel loudspeakers and X-800C and X-400C cinema subwoofers
- Extraordinarily flat amplitude and phase response for tonal accuracy
- IntelligentDC power affords the flexibility of lengthy cable runs to the HMS-5, HMS-10, HMS-12, and HMS-15 without conduits
- Optional mounting options provide multiple configurations for attachment to walls, ceilings, or hanging clamps

SOLUTIONS

- Cinemas and theatres
- Screening rooms
- Surround mixing for production and postproduction facilities
- High-end private theatres
- Immersive surround applications



FMB-HMS FIXED MOUNT BRACKET

Mounts HMS loudspeakers on walls at a fixed 0-degree angle. The fixed bracket mounts cabinets 0.87 inches (22 mm) from the wall.

WEIGHT

• 3.1 lbs (1.4 kg)

COMPATIBILITY

- HMS-5
- HMS-10
- HMS-12
- HMS-15/15AC

AMB-HMS ADJUSTABLE MOUNT BRACKET

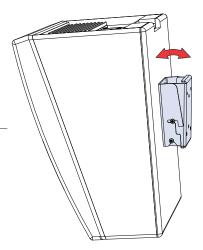
Mounts HMS loudspeakers on walls with uptilt or downtilt (see below for tilt amounts). When installed with no tilt, the bracket mounts cabinets 2.24 inches (57 mm) from the wall.

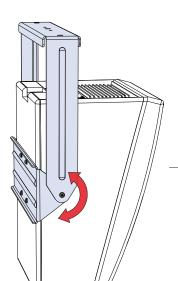
WEIGHT

4.2 lbs (1.9 kg)

COMPATIBILITY *

- HMS-5 (+5°/-16°)
- HMS-10 (+5°/-16°)
- HMS-12 (+5°/-12°)
- HMS-15/15AC (+5°/-10°)





HY-HMS / HY-HMS15 HALF YOKES

Suspends HMS loudspeakers with a full range of tilt (360°). The yokes can attach directly to ceilings or can accept "C" or "G" hanging clamps with standard 1/2-inch or 12 mm bolts.

WEIGHT

- HY-HMS, 12.4 lbs (5.6 kg)
- HY-HMS15, 7.6 lbs (3.4 kg)

COMPATIBILITY (HY-HMS)

- HMS-5 (360°)
- HMS-10 (360°)
- HMS-12 (360°)

COMPATIBILITY (HY-HMS15)

• HMS-15/15AC (360°)

MUB-HMS / MUB-HMS15 U-BRACKETS

Mounts HMS loudspeakers on walls or ceilings with uptilt or downtilt (see below for tilt amounts). The U-brackets include variable attachment points to place cabinets closer or further from the mounting surface.

WEIGHT

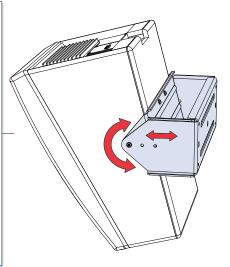
- MUB-HMS, 13.5 lbs (6.1 kg)
- MUB-HMS15, 7.6 lbs (3.4 kg)

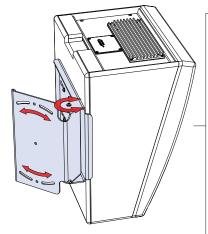
COMPATIBILITY (MUB-HMS) †

- HMS-5 (+60 %-43°)
- HMS-10 (+32°/-25°)
- HMS-12 (+23°/-20°)

COMPATIBILITY (MUB-HMS15)

• HMS-15/15AC (+16°/-13°)





WH-HMS WALL HINGE BRACKET

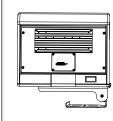
Mounts HMS loudspeakers on walls with the capability of aiming them horizontally up to 90° away from the wall. The bracket is symmetrical, allowing it to be rotated 180° so cabinets can be aimed either toward or away from the screen.

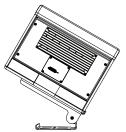
WEIGHT

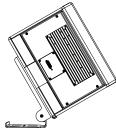
• 10.4 lbs (4.7 kg)

COMPATIBILITY

- HMS-5
- HMS-10
- HMS-12







Notes

- Wider downtilt may be possible with the AMB-HMS adjustable mount bracket depending on the building's structural components and mounting surface.
- t Wider uptilt and downtilt may be possible with the MUB-HMS and MUB-HMS15 U-brackets depending on the building's structural components and mounting surface.

HMS SPECIFICATIONS

Requires MPS-488HP ⁷ Requires MPS-488HP ⁷ Requires MPS-488HP ⁷ Requires MPS-488HP ⁷ 90 V AC turn-on, no turn-	ACOUSTICAL	HMS-5 COMPACT CINEMA SURROUND LOUDSPEAKER	HMS-10 CINEMA SURROUND LOUDSPEAKER	HMS-12 HIGH-POWER CINEMA SURROUND LOUDSPEAKER	HMS-15 HIGH-POWER CINEMA SURROUND LOUDSPEAKER	HMS-15AC HIGH-POWER CINEMA SURROUND LOUDSPEAKER
Linear Peak SPL2 Lowerage 80° symmetrical 80° symmetri		55 Hz – 18 kHz	55 Hz – 18 kHz	59 Hz – 18 kHz	50 Hz – 18 kHz	50 Hz – 18 kHz
Coverage 80° symmetrical 10° symmetrical 80° horiz. by 50° vert. 80° horiz. by 50° vert. 680 Hz TRANSDUCESS Low Frequency 1 was 5-inch long-excursion cone driver excursion driver compression driver compression driver compression driver compression driver compression driver excursion cone driver excursion cone driver excursion cone driver excursion driver compression driver compression driver compression driver compression driver compression driver excursion excursion driver compression driver excursion excursion excursion driver compression driver compression driver consover active crossover active active crossover active active crossover active active active	Phase Response	250 Hz – 18 kHz ±45°	290 Hz – 18 kHz ±45°	240 Hz – 18 kHz ±45°	290 Hz – 18 kHz ±45°	290 Hz – 18 kHz ±45°
TRANSDUCERS Low Frequency Two 5-inch long-excursion cone driver excursion cone driver compression driver excursion driver excursion cone driver excursion	Linear Peak SPL ²	120.0 dB	123.5 dB	126.0 dB	128.5 dB	128.5 dB
TRANSDUCERS Low Frequency I wo 5-inch long-excursion cone driver excursion cone driver compression driver One 2-inch diaphragm compression driver One 3-inch diaphragm compression driver 2-channel with active crossover active crossover One Phoenix 5-pin male composite inputs I wo Phoenix 5-pin male composite inputs Audio/Power Voltage Requires MPS-488HP ² IntelligentDC power supply (one channel) One Phoenix 5-pin male composite inputs I wo Phoenix 5-pin mal	Coverage	80° symmetrical	80° symmetrical	100° symmetrical	80° horiz. by 50° vert.	80° horiz. by 50° vert.
Low Frequency Two 5-inch long-excursion cone driver High Frequency One 21-inch long-excursion cone driver One 22-inch lapphragm compression driver One 23-inch dalphragm compression driver One 3-inch dalphragm compression driver One 15-inch long-excursion cone driver One 3-inch dalphragm compression driver One 3-in	Crossover ³	1.7 kHz	2.5 kHz	840 Hz	680 Hz	680 Hz
excursion cone driver excursion driver excursion cone driver excursion driver excursion driver excursion cone driver excursion excursion driver	TRANSDUCERS					
AMPLIFIER Type 3-channel with active crossover 2-channel with active crossover active activ	Low Frequency					
CONNECTORS Audio/Power One Phoenix 5-pin male composite input* Voltage Requires MPS-488HP ² IntelligentDC power supply (one channel) Requires MPS-488HP ² IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) PHYSICAL Dimensions I 5.00 inches W (881 mm) 1.24.5 inches H (385 mm) 1.24.5 inches H (385 mm) 1.24.5 inches H (385 mm) 1.24.5 inches D (345 mm) 1.25.0 inches D	High Frequency					
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Requires MPS-488HP ⁷ IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires MPS-488HP I	POWER					
IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one supply (one channel) Requires RMS option for MPS-488HP IntelligentDC power supply (one supply (one channel) PHYSICAL Dimensions 15.00 inches W (381 mm) 12.45 inches H (316 mm) 9.66 inches D (245 mm) 12.48 inches D (317 mm) 12.48 inches D (318 mm) 12.48 inches D (318 mm) 12.48 inches D (318 mm) 13.40 lbs (18.3 kg) Weight 18.4 lbs (8.3 kg) 26.2 lbs (11.9 kg) Multi-ply hardwood with black textured finish covered frame Mounting Rear attachment points (3.94 inches x 3.94 inches, 100 mm x 100 mm) PMS-HMS Fixed Bracket AMB-HMS Fixed Bracket AMB-HMS Fixed Bracket AUB-HMS L-Bracket MUB-HMS L-Bracket	Voltage Requirements	48 V DC	48 V DC	48 V DC	48 V DC	100-240 V AC, 50-60 Hz ^{8, 9}
Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ PHYSICAL Dimensions 15.00 inches W (381 mm) 12.45 inches H (316 mm) 9.66 inches D (245 mm) Weight 18.4 lbs (8.3 kg) Enclosure Multi-ply hardwood with black textured finish Multi-ply hardwood with black textured finish Black loth-covered frame Acoustically transparent, detachable, black cloth-covered frame Mounting Reauires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Requires RMS option for MPS-488HP IntelligentDC power supply ¹⁰ Reading Algo Algo Algo Algo Algo Algo Algo Alg		IntelligentDC power	IntelligentDC power	IntelligentDC power	IntelligentDC power	off; fuse-protection above
MPS-488HP IntelligentDC power supply¹0	RMS					
Dimensions 15.00 inches W (381 mm) 12.45 inches H (316 mm) 9.66 inches D (245 mm) Weight 18.4 lbs (8.3 kg) 26.2 lbs (11.9 kg) Multi-ply hardwood with black textured finish Grille Frame Acoustically transparent, detachable, black cloth-covered frame Mounting Rear attachment points (3.94 inches, 100 mm x 100 mm) Mounting Rear attachment points (3.94 inches, 100 mm x 100 mm) Mounting Rear attachment points (3.94 inches, 100 mm x 100 mm) FMB-HMS Fixed Bracket HY-HMS15 Half Yoke MUB-HMS Loberacket MUB-HMS15 U-Bracket Meight 15.50 inches W (394 mm) 19.50 inches W (487 mm) 19.50 inches H (638 mm) 19.78 inches D (248 mm) 12.50 inches H (739 mm) 12.50 inches D (318 mm) 12.50 inches D		MPS-488HP IntelligentDC	MPS-488HP IntelligentDC	MPS-488HP IntelligentDC	MPS-488HP IntelligentDC	2-conductor, twisted-pair
12.45 inches H (316 mm) 9.66 inches D (245 mm) 12.48 inches D (317 mm) 12.48 inches D (318 mm) 12.50 inches B (739 mm) 12.50 inches D (318 mm) 12.50 i	PHYSICAL				:	
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black textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack textured finish Dlack	Weight	18.4 lbs (8.3 kg)	26.2 lbs (11.9 kg)	43.0 lbs (19.5 kg)	60.0 lbs (27.2 kg)	64.0 lbs (29.0 kg)
detachable, black cloth-covered frame Mounting Rear attachment points (3.94 inches x 3.94 inches x 2.75 inches, 127 mm x 70 mm); side attachment points with 3/8"-16 threads FMB-HMS Fixed Bracket AMB-HMS Adjustable Bracket AMB-HMS Adjustable Bracket AMB-HMS 16 Yoke MUB-HMS 15 Half Yoke MUB-HMS 15 U-Bracket MUB-HMS 15 U-Bracket	Enclosure					
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AMB-HMS Adjustable Bracket ✓ ✓ ✓ ✓ HY-HMS Half Yoke ✓ ✓ ✓ HY-HMS15 Half Yoke ✓ ✓ ✓ MUB-HMS U-Bracket ✓ ✓ ✓ MUB-HMS15 U-Bracket ✓ ✓ ✓	Mounting	(3.94 inches x 3.94 inches,	(3.94 inches x 3.94 inches,	(3.94 inches x 3.94 inches,	(5.00 inches x 2.75 inches, 127 mm x 70 mm); side attachment points with	(5.00 inches x 2.75 inches, 127 mm x 70 mm); side attachment points with
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HY-HMS15 Half Yoke MUB-HMS U-Bracket MUB-HMS15 U-Bracket ✓ MUB-HMS15 U-Bracket	· · · · · · · · · · · · · · · · · · ·	√	V	V	√	✓
MUB-HMS U-Bracket ✓ ✓ MUB-HMS15 U-Bracket ✓ ✓		v	v	Ý	√	✓
	MUB-HMS U-Bracket	✓	✓	✓		
		✓	√	√	√	√

NOTES

- $1. \ \ Recommended\ maximum\ operating\ frequency\ range.\ Response\ depends\ on\ loading\ conditions\ and\ room\ acoustics.$

- Free field, measured with pink noise, onset of nonlinearity, referred to 1 meter.
 At this frequency, the transducers produce equal sound pressure levels.
 Phoenix 5-pin wiring: Pin 1, DC power (-); Pin 2, DC power (+); Pin 3, audio shield, chassis/earth; Pin 4, audio (-), Pin 5, audio (+).
- The HMS-15 must be connected to two adjacent channels of the MPS-488HP IntelligentDC power supply.

- 5. In EHMS-15 must be connected to two adjacent channels of the MPS-488HP IntelligentDL power supply.

 6. XLR 3-pin wiring: Pin 1, audio shield, chassis/earth; Pin 2,audio (*); Pin 3, audio (-).

 7. For information and specifications for the MPS-488HP IntelligentDC power supply, refer to its datasheet.

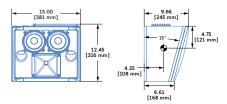
 8. Indicates the safety rated voltage range for the HMS-15AC.

 9. The maximum long-term continuous current draw for the HMS-15AC is 1.3 A rms at 115 V AC, 0.7 A rms at 230 V AC, and 1.5 A rms at 100 V AC.

 10. Reports voltage and current draw for the attached IntelligentDC loudspeakers to the host computer.
- 11. Reports amplifier operating parameters for the HMS-15AC to the host computer.

ARCHITECT SPECIFICATIONS

HMS-5 The loudspeaker shall be a self-powered, full-range system with an onboard 3-channel amplifier and internal processing that shall include equalization, phase correction, signal division, and driver protection. Transducers shall include two 5-inch long-excursion cone drivers and one 2-inch diaphragm compression driver. The crossover point shall be 1.7 kHz.



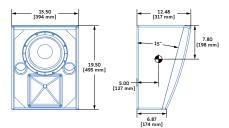
Performance specifications, measured at 1/3-octave resolution, for a typical production unit shall be: operating frequency range, 55 Hz to 18 kHz; phase response, 250 Hz to 18 kHz ±45 degrees; linear peak SPL, measured with pink noise, 120.0 dB at 1 meter, free field. Coverage shall be 80-degree horizontal by 80-degree vertical.

The loudspeaker shall be equipped with a single Phoenix 5-pin male connector (two pins for DC power and three pins for balanced audio). Power requirements for the loudspeaker shall be a Meyer Sound MPS-488HP IntelligentDC power supply.

Components shall be mounted in a multi-ply hardwood enclosure with a black textured finish. The cabinet shall include rear attachment points for optional mounting. The grille shall be an acoustically transparent, detachable, black cloth-covered frame. Dimensions for the loudspeaker shall be 15.00 inches wide x 12.45 inches high x 9.66 inches deep (381 mm x 316 mm x 245 mm) without mounting bracket. Weight shall be 18.4 lbs (8.3 kg).

The loudspeaker shall be the Meyer Sound HMS-5.

HMS-10 The loudspeaker shall be a self-powered, full-range system with an onboard 2-channel amplifier and internal processing that shall include equalization, phase correction, signal division, and driver protection. Transducers shall include one 10-inch long-excursion cone driver and one 2-inch diaphragm compression driver. The crossover point shall be 2.5 kHz.



Performance specifications, measured at 1/3-octave resolution, for a typical production unit shall be: operating frequency range, 55 Hz to 18 kHz; phase response, 290 Hz to 18 kHz ±45 degrees; linear peak SPL, measured with pink noise, 123.5 dB at 1 meter, free field. Coverage shall be 80-degree horizontal by 80-degree vertical.

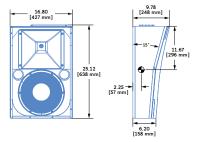
The loudspeaker shall be equipped with a single Phoenix 5-pin male connector (two pins for DC power and three pins for balanced audio). Power requirements for the loudspeaker shall be a Meyer Sound MPS-488HP IntelligentDC power supply.

Components shall be mounted a multi-ply hardwood enclosure with a black textured finish. The cabinet shall include rear attachment points for optional mounting. The grille shall be an acoustically transparent, detachable, black cloth-covered frame. Dimensions for the loudspeaker shall be 15.50 inches wide x

19.50 inches high x 12.48 inches deep (394 mm x 495 mm x 317 mm) without mounting bracket. Weight shall be 26.2 lbs (11.9 kg).

The loudspeaker shall be the Meyer Sound HMS-10.

HMS-12 The loudspeaker shall be a self-powered, full-range system with an onboard 2-channel amplifier and internal processing that shall include equalization, phase correction, signal division, and driver protection. Transducers shall include one 12-inch long-excursion cone driver and one 3-inch diaphragm compression driver. The crossover point shall be 840 Hz.



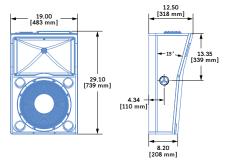
Performance specifications, measured at 1/3-octave resolution, for a typical production unit shall be: operating frequency range, 59 Hz to 18 kHz; phase response, 240 Hz to 18 kHz ±45 degrees; linear peak SPL, measured with pink noise, 126 dB at 1 meter, free field. Coverage shall be 100-degree horizontal by 100-degree vertical.

The loudspeaker shall be equipped with a single Phoenix 5-pin male connector (two pins for DC power and three pins for balanced audio). Power requirements for the loudspeaker shall be a Meyer Sound MPS-488HP IntelligentDC power supply.

Components shall be mounted in a multi-ply hardwood enclosure with a black textured finish. The cabinet shall include rear attachment points for optional mounting. The grille shall be an acoustically transparent, detachable, black cloth-covered frame. Dimensions for the loudspeaker shall be 16.80 inches wide x 25.12 inches high x 9.78 inches deep (427 mm x 638 mm x 248 mm) without mounting bracket. Weight shall be 43 lbs (19.5 kg).

The loudspeaker shall be the Meyer Sound HMS-12.

HMS-15 The loudspeaker shall be a self-powered, full-range system with an onboard 2-channel amplifier and internal processing that shall include equalization, phase correction, signal division, and driver protection. Transducers shall include one 15-inch long-excursion cone driver and one 3-inch diaphragm compression driver. The crossover point shall be 680 Hz.



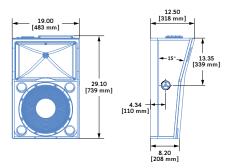
Performance specifications, measured at 1/3-octave resolution, for a typical production unit shall be: operating frequency range, 50 Hz to 18 kHz; phase response, 290 Hz – 18 kHz ±45 degrees; linear peak SPL, measured with pink noise, 128.5 dB at 1 meter, free field. Coverage shall be 80-degree horizontal by 50-degree vertical.

The loudspeaker shall be equipped with dual Phoenix 5-pin male connectors (two pins for DC power and three pins for balanced audio). Power requirements for the loudspeaker shall be a Meyer Sound MPS-488HP IntelligentDC power supply.

Components shall be mounted in a multi-ply hardwood enclosure with a black textured finish. The cabinet shall include rear and side attachment points for optional mounting. The grille shall be an acoustically transparent, detachable, black cloth-covered frame. Dimensions for the loudspeaker shall be 19.00 inches wide x 29.10 inches high x 12.50 inches deep (483 mm x 739 mm x 318 mm) without mounting bracket. Weight shall be 60 lbs (27.2 kg).

The loudspeaker shall be the Meyer Sound HMS-15.

HMS-15AC The loudspeaker shall be a self-powered, full-range system with an onboard 2-channel amplifier and internal processing that shall include equalization, phase correction, signal division, and driver protection. Transducers shall include one 15-inch long-excursion cone driver and one 3-inch diaphragm compression driver. The crossover point shall be 680 Hz.



Performance specifications, measured at 1/3-octave resolution, for a typical production unit shall be: operating frequency range, 50 Hz to 18 kHz; phase response, 290 Hz – 18 kHz ±45 degrees; linear peak SPL, measured with pink noise, 128.5 dB at 1 meter, free field. Coverage shall be 80-degree horizontal by 50-degree vertical.

Audio connectors shall be XLR 3-pin, female and male, accommodating balanced audio, or XLR 5-pin, accommodating both balanced audio and RMS. The internal power supply shall perform automatic voltage selection, EMI filtering, soft current turn-on, and surge suppression. Power requirements shall be nominal 100, 110, or 230 V AC line current at 50-60 Hz. UL and CE operating voltage range shall be 100-240 V AC at 50-60 Hz. Maximum long-term continuous current draw shall be 1.3 A rms at 115 V AC, 0.7 rms at 230 V AC, and 1.5 A rms at 100 V AC. AC power connectors shall be powerCON 20 with loop output. The loudspeaker shall optionally include the RMS remote monitoring system module.

Components shall be mounted in a multi-ply hardwood enclosure with a black textured finish. The cabinet shall include rear and side attachment points for optional mounting. The grille shall be an acoustically transparent, detachable, black cloth-covered frame. Dimensions for the loudspeaker shall be 19.00 inches wide x 29.10 inches high x 12.50 inches deep (483 mm x 739 mm x 318 mm) without mounting bracket. Weight shall be 64 lbs (29.0 kg).

The loudspeaker shall be the Meyer Sound HMS-15AC.

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UP-4XP: UltraCompact Loudspeaker





Dimensions 13.84" w x 5.54" h x 5.25" d

(352 mm x 141 mm x 133 mm)

Weight Enclosure

Premium birch plywood

Finish Black textured **Protective Grille**

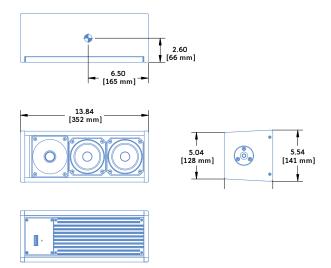
Powder-coated, hex-stamped steel with black

mesh screen

12.2 lbs (5.5 kg)

Rigging Top and bottom plates available with 3/8"-16

or M10 threads nuts



The UP-4XP ultracompact loudspeaker, with IntelligentDC technology, is ideally suited for applications requiring a small, inconspicuous cabinet that also delivers high sound pressure levels, low distortion, and uniform directional control. The selfpowered UP-4XP offers exceptional audio performance in a compact package with the advantages of a remote power supply. As a standalone loudspeaker, the UP-4XP can be used for vocal reinforcement, frontfill coverage, and delay coverage for underbalcony applications. The UP-4XP can also be paired with an optional subwoofer to create a full-range system.

The UP-4XP boasts a wide operating frequency range of 66 Hz to 18 kHz and a maximum peak SPL of 121 dB, with very low distortion. The unit's high-frequency section includes a 1-inch metal dome tweeter on a constant-directivity, high-frequency horn with a 100-degree beamwidth. The low/ mid-frequency section includes two 4-inch cone transducers that work in parallel at low frequencies — delivering a combined

acoustic output - with one of the drivers rolling off at higher frequencies to prevent interference (due to comb filtering effects) in the crossover region. The proprietary UP-4XP drivers, which are manufactured at Meyer Sound's factory in Berkeley, California, are powered by three channels of onboard power amplification that include an active crossover, driver protection, and frequency and phase correction circuitry.

With IntelligentDC technology, the UP-4XP receives DC power and balanced audio from a single loudspeaker connector, available as Phoenix[™] 5-pin male or sealed SwitchCraft[®] EN3™ 5-pin male. Powering the unit from an external source eliminates the need for wiring conduits while still preserving the advantages of self-powered systems. The UP-4XP's amplifier and signal-processing circuits store DC power and tolerate voltage drops, thereby accommodating light-gauge cables and lengthy cable runs.

The UP-4XP requires an external MPS-488HP IntelligentDC power supply. The singlespace 19-inch rack unit distributes DC power and balanced audio to up to eight UP-4XP loudspeakers, or other Meyer Sound IntelligentDC loudspeakers. Composite multiconductor cables, such as Belden® 1502 or equivalent, can deliver both DC power and balanced to loudspeakers at cable lengths up to 150 feet with just 1 dB of loss in peak SPL using 18 AWG wire. Longer cable lengths are possible with heavier wire gauges. Meyer Sound's RMS remote monitoring system is optionally available for the MPS-488HP.

The UP-4XP's durable cabinet is coated with a black textured finish and includes top and bottom mounting plates with 3/8"-16 or metric M10 threaded nuts. QuickFly mounting options include the MUB-UP4 U-bracket, MYA-UP4 cradle-style yoke, and 1-3/8" (35 mm) diameter pole-mount adaptor.

Other options include weather protection (with the sealed EN3 connector) and custom color finishes for installations and applications with specific cosmetic requirements.

FEATURES & BENEFITS

- O Extraordinary fidelity and power capability in an ultracompact package
- Metal dome tweeter delivers a smooth highfrequency response
- O Wide, symmetrical pattern covers a broad
- Unique crossover design eliminates combing and vields a consistent midrange response
- O Exceptional SPL to size ratio
- Supports long cable runs with light-gauge cables

APPLICATIONS

- O Frontfill and under-balcony fill coverage
- O Theatrical sound reinforcement and special
- O Portable and installed AV systems
- O Compact voice reinforcement systems

UP-4XP SPECIFICATIONS

ACOUSTICAL			
Operating Frequency Range ¹	66 Hz – 18 kHz		
Frequency Response ²	72 Hz – 17.5 kHz ±4 dB		
Phase Response	360 Hz – 12 kHz ±45°		
Maximum Peak SPL ³	121 dB		
Dynamic Range ⁴	> 105 dB		
COVERAGE			
Horizontal	100°		
Vertical			
CROSSOVER ⁵	100		
CROSSOVER			
	1.5 kHz		
Transducers			
Low Frequency ⁶	Two 4" low-frequency	cone drivers	
· · · · · · · · · · · · · · · · · · ·	One 1" metal dome tw		
CONNECTOR OPTIONS			
CONNECTOR OPTIONS			
Wiring:	Phoenix	SwitchCraft	
DC Power (–)	<u>5-pin male</u> Pin 1	<u>EN3 5-pin male</u> Pin 1	
DC Power (+)	Pin 2	Pin 2	
Audio Shield, Chassis/Earth ⁷	Pin 3	Pin 3	
Audio Silielu, Chassis/Lartii Audio (–)	Pin 4	Pin 4	
Audio (+)	Pin 5	Pin 5	
	11110	1 111 3	
AUDIO INPUT			
Туре			
Maximum Common Mode Range			
	10 $k\Omega$ differential between positive (+) and negative (–) audio pins		
DC Blocking			
	>50 dB, typically 80 dB (50 Hz – 500 Hz)		
	Common mode: 425 kHz; Differential mode: 142 kHz		
TIM Filter	3 3 1 3 7		
Nominal Input Sensitivity	limiting for noise and music		
Input Level			
	9.0 V peak) into 600 α to produce the maximum peak SPL over the operating bandwidth of the loudspeaker		
AMPLIFIED			
AMPLIFIER			
Туре			
Output Power ⁸			
THD, IM, TIM			
	4Ω each low channel;	8 Ω high channel	
-	Convection		
DC POWER			
Voltage Requirement	48 V DC		
Current Draw ⁹ : Idle Current	0.23 A average		
Maximum Long-Term Continuous Current (>10 sec)			
Burst Current (<1 sec)	4.05 A average		
Maximum Instantaneous Peak Current	4.50 A peak		

NOTES:

- Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
- Measured free-field with pink noise at 1 meter, 1/3-octave frequency resolution.
- 3. Measured free-field with music, referred to 1 meter
- referred to 1 meter.
 4. Taken from peak SPL, referred to A-wtd noise floor.
- 5. At this frequency, the metal dome tweeter and top low-frequency driver (closest to the tweeter) produce equal sound pressure levels.
- 6. Below 400 Hz, both low frequency drivers are active. At 400 Hz, the bottom low-frequency driver is attenuated by -3 dB and rolled off at higher frequencies. This reduces interaction in the higher frequencies (shorter wavelengths) of the tweeter and maintains optimum polar and off-axis frequency responses.
- Audio shield, chassis/earth through 220 kOhm, 1000 pF, 15 V clamped network to provide virtual ground lift at audio frequencies.
- Amplifier wattage based on the maximum unclipped burst sinewave rms voltage the amplifier will produce into the nominal load impedance.
- 9. Current draw measured at 48 V DC.



UP-4XP — 04.201.004.02 B2

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ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, full-range system; the transducers shall consist of two 4-inch low-frequency cone drivers and one 1-inch high-frequency metal dome tweeter. The loudspeaker system shall incorporate internal processing electronics and a three-channel amplifier, one channel for each driver. Processing functions shall include equalization, phase correction, signal division, and driver protection. The crossover point shall be 1.5 kHz. Amplifier channels shall be class D. Amplifier output power shall be 500 watts total for all three channels. Distortion (THD, IM, TIM) shall not exceed 0.02%.

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: operating frequency range shall be 66 Hz to 18 kHz; phase response shall be

±45 degrees from 360 Hz to 12 kHz; maximum peak SPL shall be 121 dB at 1 meter, free field. Coverage shall be 100-degree horizontal by 100-degree vertical.

The loudspeaker shall be equipped with either a Phoenix 5-pin male or EN3 5-pin male connector (three pins for balanced audio and two pins for DC power). The audio input shall be electronically balanced with a 10-kOhm impedance and accept a nominal -2.0 dBV (0.80 V rms, 1.12 V peak) input signal. DC blocking and RF filtering shall be provided, and CMRR shall be greater than 50 dB and typically 80 dB (50 Hz to 500 Hz).

Power requirements for the loudspeaker shall be a Meyer Sound MPS-488HP IntelligentDC power supply capable of delivering 48 V DC. Current draw for the loudspeaker during burst (< 1 sec) shall be 4.05 A average at 48 V. Current inrush during turnon shall not exceed 4.0 A peak at 48 V.

All components shall be mounted in an acoustically vented trapezoidal enclosure constructed of premium birch plywood with a black textured finish. Top and bottom rigging plates shall be available in 3/8"-16 or M10 threads. The front protective grille shall be powder-coated, hex-stamped steel with black mesh screen.

Dimensions for the loudspeaker shall be 13.84 inches wide x 5.54 inches high x 5.25 inches deep (352 mm x 141 mm x 133 mm) without mounting bracket. Weight shall be 12.2 lbs (5.5 kg).

The loudspeaker shall be the Meyer Sound UP-4XP.