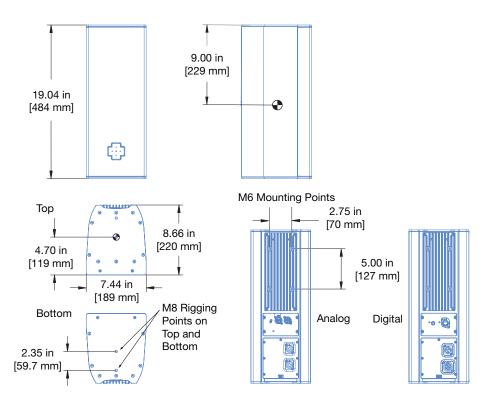
ULTRA-X20[™]



ULTRA-X20[™], ULTRA-X22[™], ULTRA-X23[™]





SPECIFICATIONS

ACOUSTICAL ²	ULTRA-X20	ULTRA-X22	ULTRA-X23	
Operating Frequency Range ³	60 Hz – 18 kHz	60 Hz – 18 kHz	60 Hz – 18 kHz	
Frequency Response ⁴	65 Hz – 17.5 kHz ± 4 dB	65 Hz – 17.5 kHz ± 4 dB	65 Hz – 17.5 kHz ± 4 dB	
Phase Response	95 Hz – 18 kHz ±45°	95 Hz – 18 kHz ±45°	95 Hz – 18 kHz ±45°	
Linear Peak SPL ⁵	127 dB with 20 dB crest factor (M-noise),	128.5 dB with 20 dB crest factor (M-noise),	127.5 dB with 20 dB crest factor (M-noise),	
	123.5 dB (Pink Noise), 125.5 dB (B-noise)	123.5 dB (Pink Noise), 125 dB (B-noise)	124 dB (Pink Noise), 125.5 dB (B-noise)	
COVERAGE				
	Rotatable horn: 110° x 50°	Rotatable horn: 80° x 50°	110° x 110°	
TRANSDUCERS	<u>.</u>			
Low Frequency	Two 5-inch cone drivers; 6 Ω nominal impedance			
High Frequency	One 2-inch diaphragm compression driver connected to a rotatable horn; 8 Ω nominal impedance			

SPECIFICATIONS, CONT'D.

AUDIO INPUT	ANALOG AUDIO VERSION	DIGITAL AUDIO VERSION		
Туре	Differential, electronically balanced -			
Maximum Common Mode Range	±15 V DC, clamped to earth for voltage transient protection	_		
Connectors	XLR 3-pin female input with male loop output or XLR 3-pin TOP (Total Outdoor Protection) connectors on weather-protected units only.	etherCON TOP		
Input Impedance	10 k Ω differential between pins 2 and 3	_		
	Pin 1: Chassis/earth through 1 kΩ, 1000 pF, 15 V clamp network to provide virtual ground lift at audio frequencies			
Wiring	Pin 2: Signal +			
	Pin 3: Signal –			
	Case: Earth ground and chassis 0 dBV (1.0 V rms) continuous is typically the onset of			
Nominal Input Sensitivity	limiting for noise and music	-		
Input Level	Audio source must be capable of producing of +20 dBV (10 V rms) into 600 Ω to produce the maximum peak SPL over the operating bandwidth of the loudspeaker.	_		
Digital Format	_	Milan Certified		
AMPLIFIER				
Туре	Three-channel, Class-D	Three-channel, Class-D		
Total Output Power ⁶	860 W peak			
THD, IM, TIM	<0.02%			
Cooling	Convection			
AC POWER				
Connector	powerCON 20 input with loop output; powerCON TRUE1 TOP with loop output on digital and weather-protected units			
Automatic Voltage Selection	90–265 V AC, 50–60 Hz			
Safety Rated Voltage Range	100–240 V AC, 50–60 Hz			
Turn-on and Turn-off Points	90 V AC turn-on, no turn-off; internal fuse protection above 265 V AC			
CURRENT DRAW				
Idle Current	0.15 A rms (115 V AC); 0.13 A rms (230 V AC); 0.16 A rms (100 V AC)			
Maximum Long-Term Continuous Current (>10 sec)	0.9 A rms (115 V AC); 0.5 A rms (230 V AC); 1.1 A rms (100 V AC)			
Burst Current (<1 sec) ⁷	1.6 A rms (115 V AC); 0.8 A rms (230 V AC); 1.8 A rms (100 V AC)			
Maximum Instantaneous Peak Current	3.5 A peak (115 V AC); 1.8 A peak (230 V AC); 4.1 A peak (100 V AC)			
Inrush Current	< 20 A peak			
MONITORING				
Telemetry	Integrated monitoring via Meyer Sound's Nebra Software			

PHYSICAL		
Dimensions	W: 7.44 in (189 mm) x H: 19.04 in (484 mm) x D: 8.66 in (220 mm)	
Weight	27 lb (12.3 kg)	
Enclosure	Aluminum with slightly textured black finish	
IP Rating	Weather-protected version rated IP54. See the ULTRA-X20 Operating Instructions available at meyersound.com/documents for details.	
Protective Grille	Powder-coated, round-perforated steel	
Rigging	Two integrated M8 threaded points on each end; optional accessories for various rigging options (see accessories section); four M6 threaded holes with 5-inch by 2.75-inch (127 mm by 70 mm) hole pattern on the rear for use with third-party wall mounts.	

NOTES

- 1. Milan is a trademark of the Avnu Alliance (avnu.org).
- 2. Loudspeaker system predictions for coverage and SPL are available in Meyer Sound's MAPP System Design Tool.
- 3. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
- 4. Free-field, measured with 1/3 octave frequency resolution at 4 m.
- 5. Linear Peak SPL is measured in free-field at 4 m referred to 1 m. Loudspeaker SPL compression measured with M-noise at the onset of limiting, 2-hour duration, and 50 °C ambient temperature is < 2 dB.

M-noise is a full bandwidth (10 Hz–22.5 kHz) test signal developed by Meyer Sound to better measure the loudspeaker's music performance. It has a constant instantaneous peak level in octave bands, a crest factor that increases with frequency, and a full bandwidth Peak to RMS ratio of 18 dB.

Pink noise is a full bandwidth test signal with Peak to RMS ratio of 12.5 dB.

B-noise is a Meyer Sound test signal used to ensure measurements reflect system behavior when reproducing the most common input spectrum, and to verify there is still headroom over pink noise.

- 6. Peak power based on the maximum unclipped peak voltage the amplifier will produce into the nominal load impedance.
- 7. AC power cabling must be of sufficient gauge so that under burst current rms conditions, cable transmission losses do not cause the loudspeaker's voltage to drop below the specified operating range.



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