

Overview

Dante PoE powered speaker with 16 x 1.5" drivers



Features

- 1.5 inch (3.75 cm) full-range speaker units with neodymium magnets
- Slim design complements any interior décor
- Available in black or white
- Enclosures can be painted to match surroundings
- Wall mount bracket supplied
- Optional hardware for a wide range of installation needs

Specifications

General Specifications

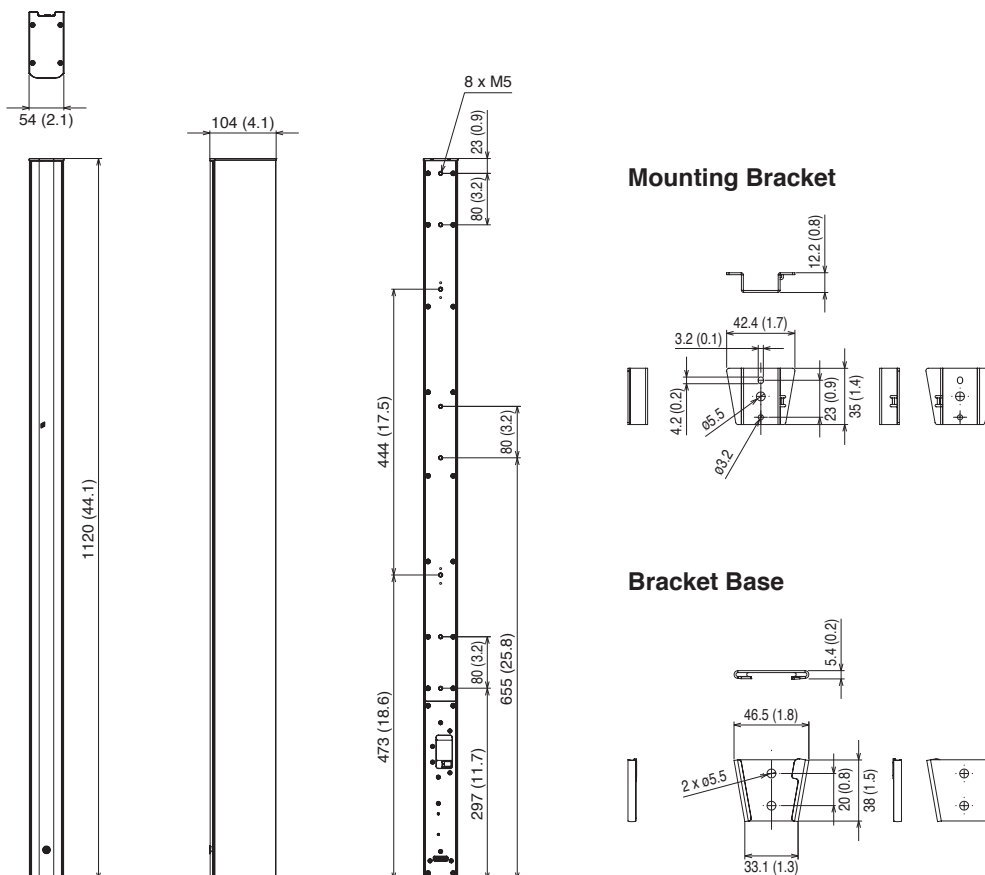
Speaker Type		Full-range, powered speaker, bass reflex
Frequency Range (-10dB)		80Hz – 20kHz*1
Nominal Coverage	H	170°
	V	25° (+12.5° – -12.5°)
Effective Coverage (-10dB)	H	180°
	V	30° (+15° – -15°)
Components	LF-HF	1.5" (3.75cm) Cone x 16
Maximum Output Level (1m; on axis)		102 dB SPL (when using PoE+(IEEE 802.3at))*2
Power Rating	Dynamic	15W (PoE+ (IEEE 802.3 at)), 6W (PoE (IEEE 802.3 af))
	Continuous	15W (PoE+ (IEEE 802.3 at)), 6W (PoE (IEEE 802.3 af))
I/O Connectors		RJ-45 (Dante) x 1
Protection Circuit	Speaker Processing	Clip limiting, Integral power protection
	Amplifier Protection	Over current protection, Over temperature protection, Under voltage lock out, DC detection, Clock detection
	Power Supply Protection	Over load protection, Over voltage protection, Under voltage lock out
Cooling		Natural convection
Power Requirements		PoE+(IEEE 802.3at), PoE(IEEE 802.3af)
Power Consumption		Idle: 3W, 1/8(Pink Noise): 6W (PoE+(IEEE 802.3at)), 4.3W (PoE(IEEE 802.3af))
Finish		VXL1B-16P: Black painting (approximate value: Munsell N3.0)
Magnetic Shielding		No
Dust and Water Resistant		No
Accessories		Mounting bracket x 2, Bracket base x 2, Safety wire x 1, Machine screws (M5x10) x 2, Template x 1, Owner's manual
Options		WMB-L1B (W), HCB-L1B, PA-L1B
Packaging		Packaged in 1 pc
Dimensions (W x H x D)		54mm x 1120mm x 104mm (2.1" x 44.1" x 4.1") (Speaker only)
Weight		5.0kg (11.0lbs) (Speaker only)

*1: Half-space (2π)

*2: Measured peak SPL with IEC noise at 2m; value converted to 1m is shown (frequency range: 100 Hz – 10 kHz)

Dimensions

Unit: mm (inch)



Options

- WMB-L1B / WMB-L1W Wall Mount Bracket
- HCB-L1B Horizontal Coupling Bracket
- PA-L1B Pole Mount Bracket

Software

- ProVisionaire Touch
- ProVisionaire Control

Architectural and Engineering Specifications

The Yamaha VXL1B-16P and VXL1W-16P shall be loudspeakers for use in conference rooms and similar environments. The loudspeaker shall be a full-range, bass-reflex, powered type employing sixteen 1.5" cone drivers. The continuous power rating shall be 15 watts when using PoE+ (IEEE 802.3 at) power, or 6W when using PoE (IEEE 802.3 af) power. The loudspeaker shall be capable of meeting the following performance criteria: reproduction frequency range shall be 80 Hz to 20 kHz (-10 dB), and maximum output SPL shall be 102 dB (peak, IEC noise @ 1m, when using PoE+ (IEEE 802.3 at) power). Coverage angles (-6 dB) shall be 170° horizontal and 25° vertical (+12.5° ~ -12.5°). Built-in protection shall be included for speaker processing, amplifier, and power supply.

The loudspeakers shall receive both audio and power input via a single Ethernet network connection: audio via a Dante digital audio network, and power via a PoE injector or PoE network switch connected between the loudspeaker and Dante device(s). DIP switches on the rear panel shall allow convenient network UNIT ID, IP address, and startup mode selection. A power indicator LED on the front panel shall light to indicate that power is ON, while network SYNC and LINK/ACT indicator LEDs shall be provided adjacent to a Dante/NETWORK port on the rear panel. The loudspeaker enclosure shall be constructed of extruded aluminum with ABS top and bottom boards. The grille shall be perforated aluminum. The loudspeaker shall be available in black (VXL1B-16P) and white (VXL1W-16P) base colors, and can be painted if required. The loudspeaker shall be powered by Power over Ethernet: either PoE+ (IEEE 802.3 at) or PoE (IEEE 802.3 af). The loudspeaker shall be designed for wall-mounting, and come supplied with the necessary basic mounting hardware (mounting bracket x 2, bracket base x 2, safety wire x 1, M5x10 machine screws x 2, template x 1). Other mounting hardware shall be sold separately for additional mounting options. The dimensions of the loudspeaker (excluding mounting hardware) shall be 54 (2.1) x 1120 (44.1) x 104 (4.1) mm (inch). The weight shall be 5.0 kg (11.0lbs).

*All information subject to change without notice.

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