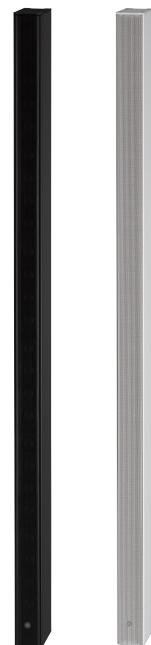


Overview

VXL series line array speakers offer a unique combination of outstanding sound quality and slim form that is ideal for a variety of environments. The VXL series includes three models with different numbers of speaker units. Models can be combined to optimally serve a variety of spaces and situations. Slim 54-millimeter-wide cabinets and elegantly curved grille designs blend beautifully with any décor while delivering uniform, top-quality sound for speech and music reproduction in a wide range of applications.



Features

- 24 x 1.5 inch (3.75 cm) full-range speaker units with neodymium magnets
- Wide horizontal dispersion for uniform SPL over a wide area
- The vertical coverage can be selected from two modes, Normal and Wide
- Slim design complements any interior décor
- Available in basic 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, Bass reflex	
Frequency Range (-10 dB)	77 Hz – 20 kHz ^{*1} , 98 Hz – 20 kHz ^{*1} (with port cover)	
Nominal Coverage	H	170°
	V	15°(+7.5° – -7.5°) (NORMAL), 20°(+7.5° – -12.5°) (WIDE)
Effective Coverage (-10 dB)	H	180°
	V	25°(+12.5° – -12.5°) (NORMAL), 35°(+12.5° – -22.5°) (WIDE)
Components	LF-HF	1.5" (3.75 cm) Cone x 24
Power Rating	NOISE	110 W
	PGM	220 W
	MAX	440 W
Nominal Impedance	8 Ω	
SPL	Sensitivity (1 W; 1 m on axis)	91 dB SPL (1 m/1 W) ^{*1} ^{*2} (91 dB SPL with port cover)
	Peak (Calculated)	117 dB SPL (1 m) ^{*3}
I/O Connectors	Euroblock (2 pin) x 2 (input: +/-) Max. wire size AWG 12 (3.3 mm ²)	
Protection Circuit	Load Protection	Full-range power limiting to protecting network and transducers
Finish	VXL1B-24: Black painting (approximate value: Munsell N3.0)	
	VXL1W-24: White painting (approximate value: Munsell N9.0)	
Dust and Water Resistant	IP34 (IP35 with port cover)	
Packaging	Packaged in 1 pc	
Dimensions (W x H x D)	W54 mm x H1212 mm x D104 mm (Speaker only)	
	W54 mm x H1212 mm x D111.5 mm (With included bracket)	
Net Weight	5.5 kg (Speaker only)	

^{*1} Half-space (2 π)

^{*2} Measured at 2 m; value converted to 1 m is shown (frequency range: 100 Hz – 10 kHz)

^{*3} Calculated based on power rating and sensitivity, exclusive of power compression.

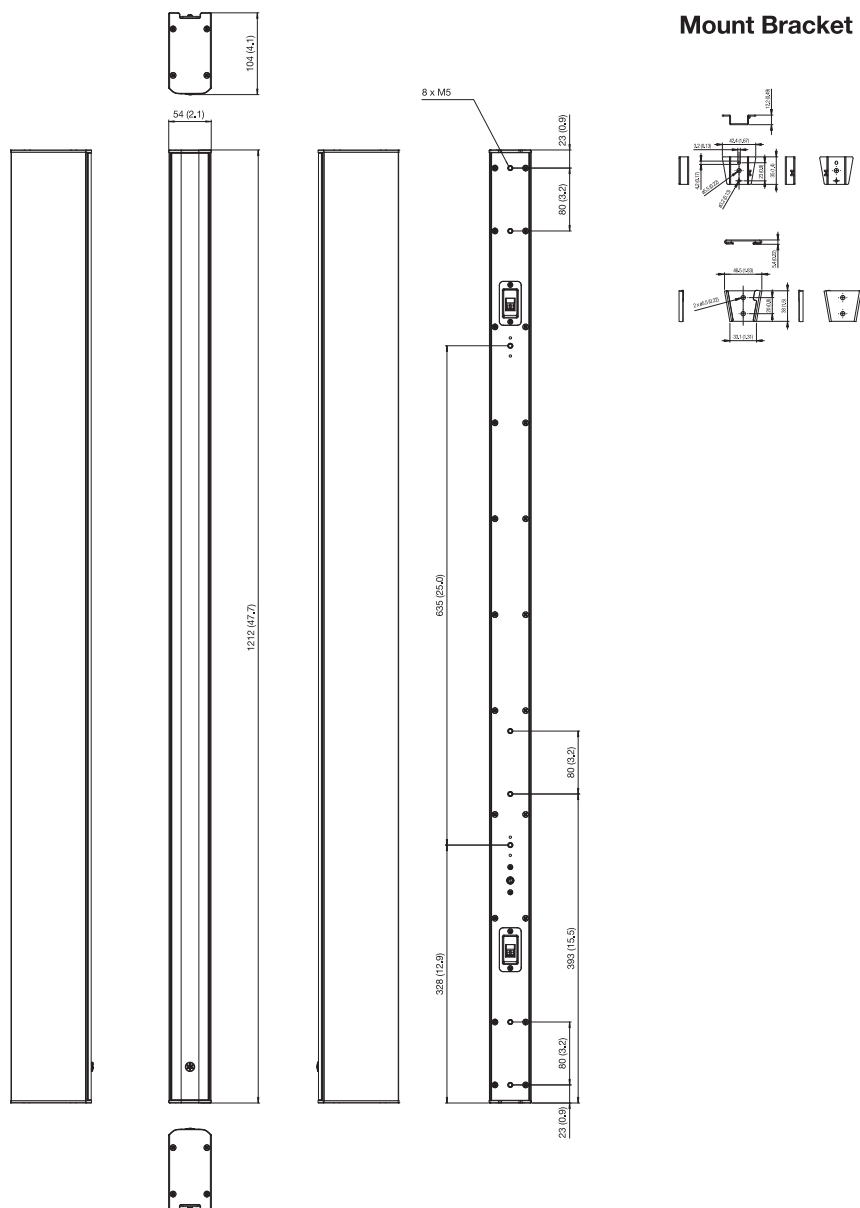
^{*0} dBu is referenced to 0.775 Vrms

Accessories

Included Accessories	Mounting Bracket x 2, Bracket Base x 2, Safety Wire x 1, Terminal Cover x 2, Port Cover x 2, Machine Screws (M5 x 10) x 2, Template x 1, Installation Guide x 1
----------------------	---

Dimensions

Unit: mm (inch)



Options

- | | |
|-------------------------------------|-------------------|
| • Wall Mount Bracket | WMB-L1B / WMB-L1W |
| • Vertical Coupling Bracket | VCB-L1B |
| • Vertical Coupling Support Bracket | VCSB-L1B |
| • Horizontal Coupling Bracket | HCB-L1B |
| • Pole Mount Bracket | PA-L1B |
| • Speaker Transformer | ST-L1B / ST-L1W |

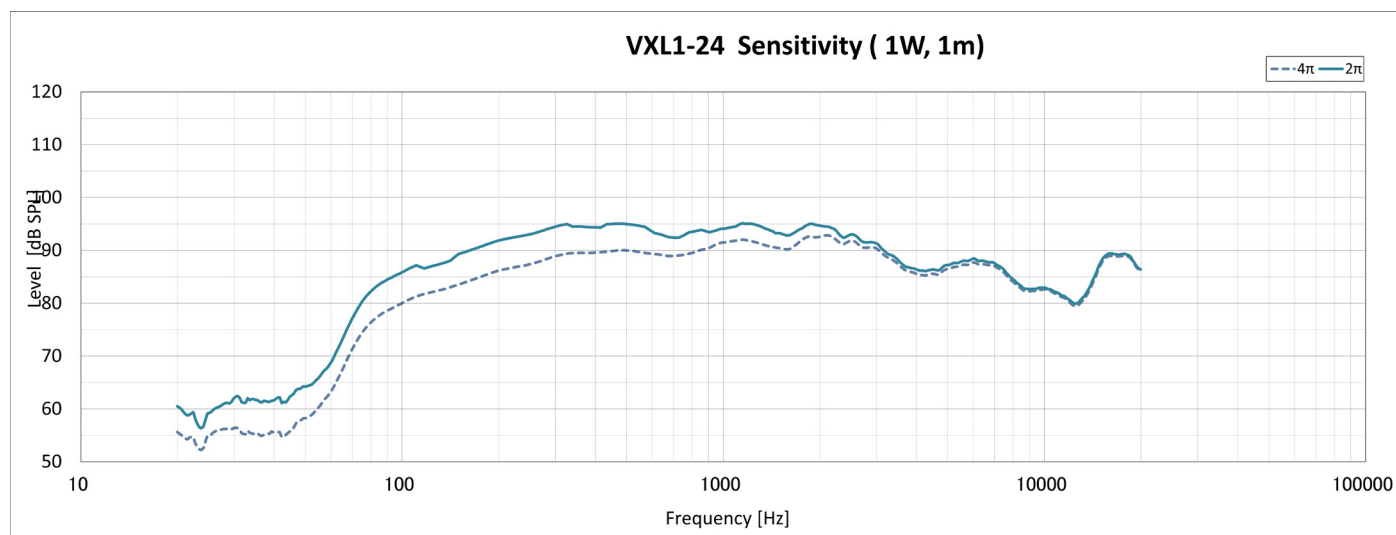
Architectural and Engineering Specifications

The Yamaha VXL1-24 shall be a full-range line-array speaker for commercial installations that require high sound quality for speech and music reproduction as well as uniform coverage over a wide service area. The VXL1-24 shall comprise 24 full-range speaker units with 1.5" cones and neodymium magnets in a vertical line array configuration that shall be no more than 54 millimeters wide. The enclosure shall be a bass-reflex type.

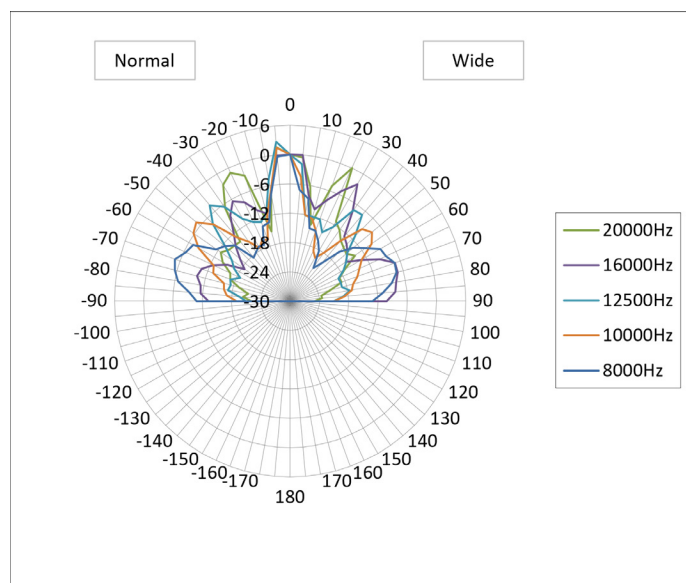
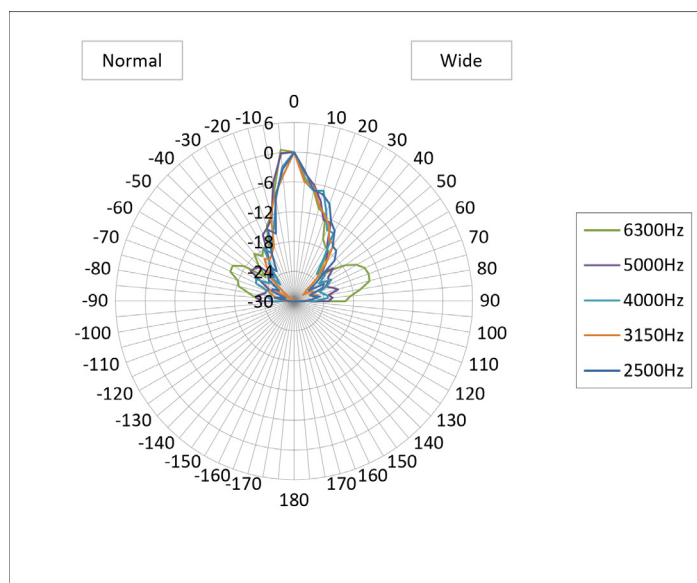
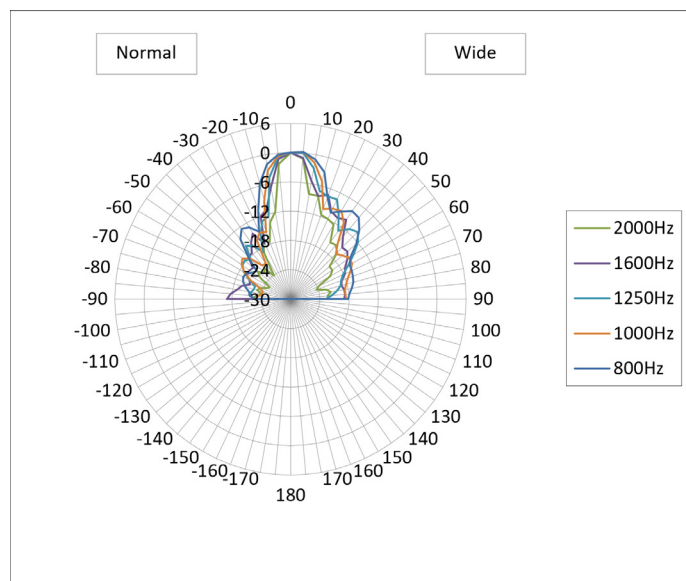
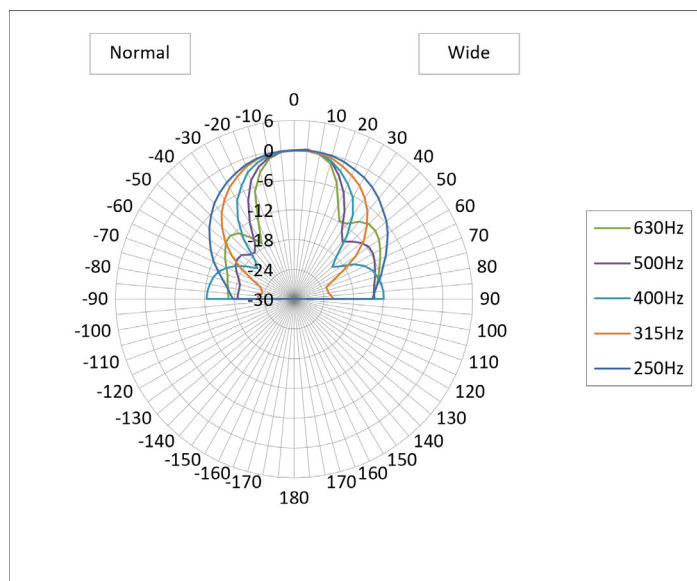
The VXL1-24 shall meet the following performance criteria: Sensitivity shall be 91 dB SPL at 1 watt/1 meter. Maximum SPL shall be 117 dB at 1 meter. Frequency response shall be 77 Hz to 20 kHz at 10 dB below rated sensitivity without the supplied port cover, or 98 Hz to 20 kHz when the port cover is attached for maximum dust and moisture resistance. Nominal horizontal coverage angle shall be 170°. Nominal vertical coverage angle shall be 15° when the rear-panel VERTICAL COVERAGE switch is set to NORMAL or 20° when the rear-panel VERTICAL COVERAGE switch is set to WIDE. Maximum power ratings shall be 110 watts noise, 220 watts program, and 440 watts peak. Input impedance shall be 8 ohms. Overload protection shall be provided by full-range power limiting. A 2-pin Euroblock connector shall be provided for input connection.

The VXL1-24 shall be available in basic black and white colors designated by VXL1B-24 and VXL1W-24 model numbers, respectively. The enclosures shall be painted, and can be repainted as necessary to match the installation environment. The VXL1-24 shall have a water and dust proof rating of IP34 without the supplied port cover, or IP35 when the port cover is attached. The VXL1-24 shall be supplied with a bracket for seamless wall mounting without angle adjustment. Optional brackets that allow wall mounting with angle adjustment or pole mounting shall be available. An optional transformer box that matches the design of the VXL1-24 shall be available to allow high-impedance connection. Speaker dimensions shall be 54 (W) x 1212 (H) x 104 (D) mm (not including wall-mount bracket). Weight shall be 5.5 kg.

Frequency Response



Polar Plots



*All information subject to change without notice.

*All trademarks and registered trademarks are property of their respective owners.

Created in December, 2022

YAMAHA CORPORATION
P.O.BOX 1, Hamamatsu Japan