# YAMAHA

**Dante PoE Powered Speaker**
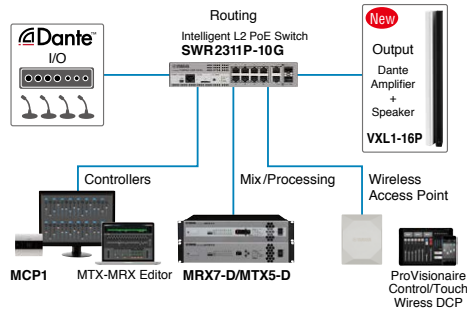
# VXL SERIES P

## Dante PoE powered Speaker

With audio distributed via a Dante network and PoE power* supplied from a PoE compliant L2 switch, the speaker system can be constructed as a network, allowing existing IT infrastructure to be effectively utilized. Simple wiring via LAN cables, easy installation, and no need for a power amp contribute to the flexibility of installation, allowing you to construct an elegant sound system that will not interfere with the design of the conference room.

* When using an IEEE 802.3at compliant PoE power supply device, the maximum speaker output is 15W; when using an IEEE 802.3af compliant PoE power supply device, the maximum speaker output is 6W.

Dante I/O

Routing
Intelligent L2 PoE Switch
**SWR2311P-10G**

**New**
Output
Dante Amplifier + Speaker
**VXL1-16P**

Controllers
**MCP1**    MTX-MRX Editor

Mix/Processing
**MRX7-D/MTX5-D**

Wireless Access Point

ProVisionaire Control/Touch Wiress DCP

## Slim Line Arrays Blend
## High Sound Quality with Visual Elegance

The VXL1-16P is equipped with 16 drivers. A line array configuration is used, placing the audio sources linearly to reduce sound dispersion in the vertical direction, thereby limiting reflections from the ceiling and walls, and preventing sound energy from being dispersed, ensuring that clear sound can be delivered to long distance. The drivers are 3.75 cm (1.5 inch) full-range units that extravagantly use neodymium magnets, and are placed in a slim enclosure (chassis) that is 5.4 cm wide. This allows easy installation even in locations that have various limitations on placement space, without impairing the décor of the office conference room.

Speaker units
DSP/Amplifier
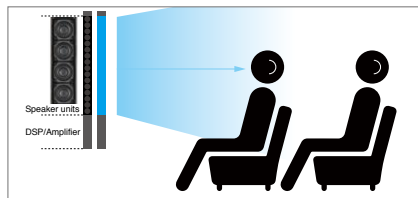
## Flexible Installation Options

Dedicated hardware is included with the product for wall mounting. In addition, a rich variety of options are separately available as speaker accessories, including the "WMB-L1B" and "WMB-L1W" wall mount brackets with adjustable vertical and horizontal angles, the "HCB-L1B" horizontal coupling bracket for horizontal connection for providing a high SPL with a narrower horizontal directionality. And the "PA-L1B" for pole-mounting the speaker, giving you flexibility for installing these in a variety of environments.

WALL MOUNT BRACKET
**WMB-L1B/WMB-L1W**

HORIZONTAL COUPLING BRACKET
**HCB-L1B**

POLE MOUNT ADAPTER
**PA-L1B**
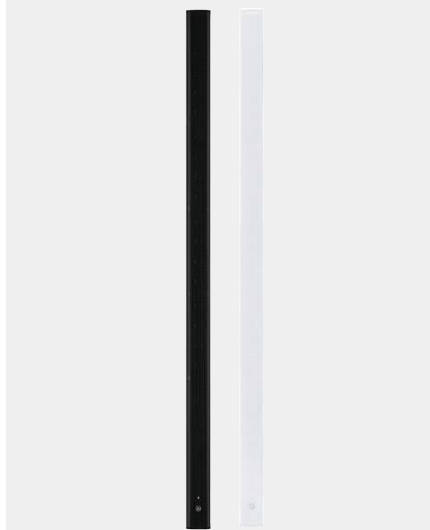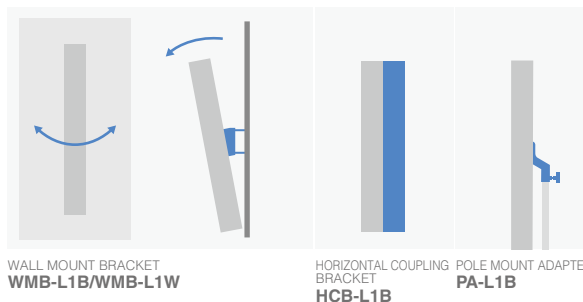
## VXL1-16P B W

- Dante PoE powered speaker
- 1.5 inch (3.75 cm) full-range speaker units with neodymium magnets
- Horizontal dispersion for uniform SPL over a wide area
- Slim design complements any interior décor
- Enclosures can be painted to match surroundings
- Wall mount bracket supplied
- Optional hardware for a wide range of installation needs

VXL1-16P can be remotely controlled from a "ProVisionaire Touch" custom control panel for the iPad via a Wi-Fi network.

* Apple, iPhone, iPod touch and iPad are trademarks of Apple Inc. registered in the U.S. and other countries. App Store is a service mark of Apple. Inc.

## System Example



### Conference room

This sample system for a conference room includes a remote conferencing system, built around a digital signal processor, which allows conferences to be shared with remote locations. By using the Dante network and PoE compatible VXL Series "P Model", it is possible to connect all of the sounds from the input to output with a single LAN cable and construct a smart acoustic system.
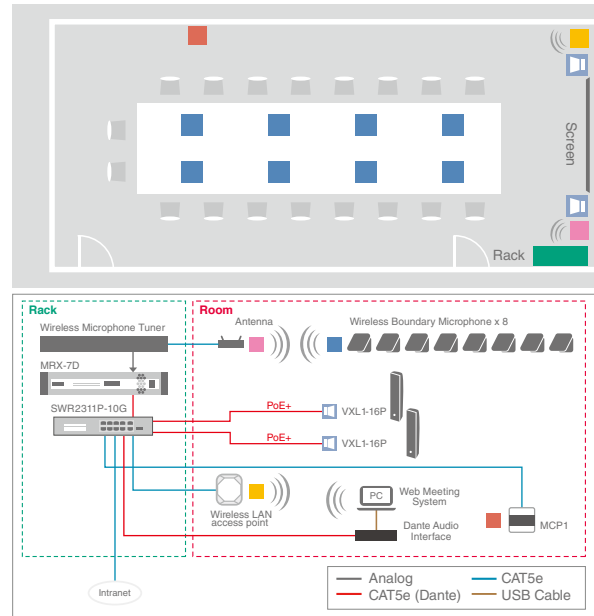


## Specifications

| General specifications | | VXL1B-16P/VXL1W-16P |
|---|---|---|
| Speaker type | | Full-range, powered speaker, bass reflex |
| Frequency range (-10dB)*1 | | 80Hz - 20kHz |
| Coverage (Horizontal x Vertical) (-6dB) | | Horizontal 170°<br>Vertical 25° (+12.5° - -12.5°) |
| Effective coverage (Horizontal x Vertical) (-10dB) | | Horizontal 180°<br>Vertical 30° (+15° - -15°) |
| Maximum SPL (peak)*2 IEC noise@1m | | 102 dB SPL (when using PoE+ (IEEE 802.3at)) |
| Amplifier | 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)) |
| | Cooling | Natural convection |
| | Protection — Speaker processing | Clip limiting, Integral power protection |
| | Amplifier | Over current protection, Over temperature protection, Under voltage lock out,<br>DC detection, Clock detection |
| | Power supply | Over load protection, Over voltage protection, Under voltage lock out |
| | Connectors | RJ-45 (Dante) x 1 |
| | Power requiirements | 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)) |
| Component | | 1.5″(3.75cm) Cone x 16 |
| Finish | | VXL1B-16P: Black painting (approximate value: Munsell N3.0)<br>VXL1W-16P: White painting (approximate value: Munsell N9.0) |
| Dimensions (W x H x D) | | 54mm x 1120mm x 104mm (Speaker only) |
| Net weight | | 5.0kg (Speaker only) |
| Included accessories | | Mounting bracket x 2, Bracket base x 2, Safety wire x 1, Machine screws (M5 x 10) x 2, Template x 1, Owner's manual |
| Packaging | | Packaged in 1 pc |
| Options | | WMB-L1B (W), HCB-L1B, PA-L1B |

*1: *1: Half-space (2π), *2: Measured at 2m; value converted to 1m is shown (frequency range: 100Hz -10kHz)

## Related products



Intelligent L2 PoE Switch
**SWR2311P-10G**



Simple L2 PoE Switch
**SWR2100P-5G**



Simple L2 PoE Switch
**SWR2100P-10G**



Customizable Wireless iPad Control for Yamaha PA systems
**ProVisionaire Touch**

 Download on the App Store

*ProVisionaire Touch and ProVisionaire Touch KIOSK can be downloaded from Apple's App Store at no charge.
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## Optional Accessories



WALL MOUNT BRACKET
**WMB-L1B/W**



HORIZONTAL COUPLING BRACKET
**HCB-L1B**



POLE MOUNT ADAPTER
**PA-L1B**

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