



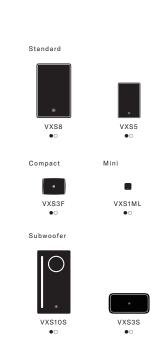




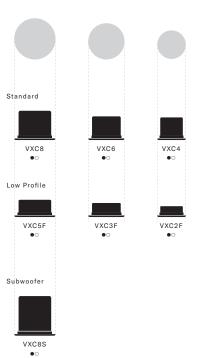


VXS, VXC and VXL series speakers have been optimized specifically for commercial sound applications, with accurate sound inspired by our long history of musical instrument production plus visual design that blends easily with any décor. Choose the models that best suit your needs from our ample lineup.

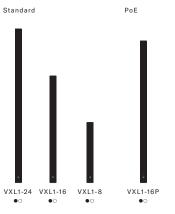
Surface-mount Speakers/Subwoofers **VXS SERIES**



In-ceiling Speakers/Subwoofers **VXC SERIES**



Column-type Line Array Speakers **VXL SERIES**



Recommended Combinations

For Simple Sound Systems

MA/PA Series

Recommended applications: Cafes, restaurants, bars, retail stores, classrooms, presentation rooms, etc.



For Advanced Sound Systems

- MTX/MRX/XMV Series
- Controllers
- Peripherals

Recommended applications: Conference rooms, lecture halls, restaurants, hotels, banquet halls, office complexes, multi-purpose facilities, shopping malls, etc.





WHAT MAKES US APART

With such a prolific history of instrument manufacture comes a unique musical sensibility that deeply influences all our speaker lineups. We won't settle for anything less than truly authentic, superior sound that satisfies the most discriminating tastes.



We've adopted a uniquely utilitarian approach to speaker design that derives its aesthetic from the functionality of the speaker's construction so that every curve and corner serves a purpose that will ultimately benefit our customers and their clientele— with style.

Our meticulous parts and material selection process and innovative proprietary technologies ensure the same level of durability and reliability as our acclaimed professional audio gear and masterfully crafted musical instruments.



3

Just like lighting, aroma, and interior design, the sounds a customer is initially exposed to can have a significant impact on their comfort and enthusiasm for your business.

Creating an inviting, high-quality sonic environment will not only complement your other stylistic choices, but influence per-customer spending and repeat business.

Yamaha is invested in the creative choices you make with your space by providing state-of-the-art products with superb musicality that ensure your vision resonates with everyone who enters.

SHOWCASE

Yamaha - The Sound Business Choice



























Billund Airport (Airport, Denmark)





Shang Xia (Boutique, China)

Thermes Marins Monte-Carlo (Spa, Monaco)





Eglise Saint-Denis-Sainte-Foy (Church, France) Scalaria (Hotel, Austria)

Walkerhill Hotel & Resort (Hotel, Korea)



Stone Harbor Municipal Courthouse (Courthouse, USA)



VXS SERIES

Subwoofer

VXS10S

VXS3S

Attractive, Discreet Design for Elegant Spaces

It is our goal to offer the most pleasing environments possible, both sonically and visually. The sleek curves and attractive, minimalist design of VXS series make them easily adaptable to any commercial environment seeking a unique, subtle complement to the overall aesthetic.



Safe and Efficient Installation

The brackets supplied with the VXS series are all you need for smooth, streamlined wall or ceiling mounting. The bracket itself is a compact design that facilitates mounting in tight spaces, while incorporating features for safe, efficient installation.

VXS8/VXS5









A press-in bracket design leaves both hands free for easy wiring and angle adjustment.



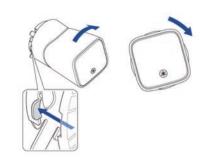
Reverse-thread screws and safety pin prevent damage or injury due to the speaker accidentally falling during installation.



A design that prevents lateral movement during ceiling installation simplifies vertical angle adjustment.

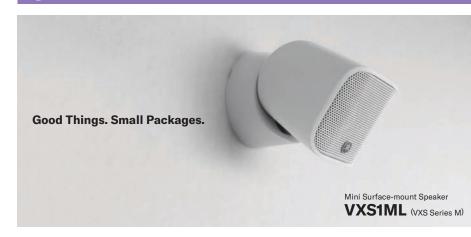
VXS1ML





Align the speaker to the notch on the mounting bracket, and then attach the speaker. Secure the speaker by turning it clockwise.

Featured Model



Bigger isn't always better, and for more intimate commercial environments in particular, a subtle approach to the sights and sounds your customers experience can often leave a stronger impression. Yamaha's ultra-compact VXS1ML provides an attractive interior accent, while filling your space with music that helps shape your overall aesthetic and inspires your clientele.

Blending into Any Décor

A remarkably small cube with elegantly flowing lines and surfaces.

Room-filling Sound Experience Installation Friendly

Carefully selected and tuned 1.5" driver with neodymium magnet, realizing wide coverage.



Recommended Subwoofer: VXS3S

In situations where more substantial low end is required, the compact VXS3S subwoofer is a perfect match for the VXS1ML. Featuring unique SR-Bass™ technology, the VXS3S delivers impactful bass performance while reducing the enclosure size.



Wall-mount, ceiling mount, In-ceiling*,

or hanging from lighting rail*.

*with optional accessories

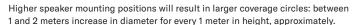


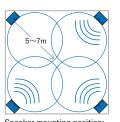


Tips for System Design & Installation

Speaker Layout

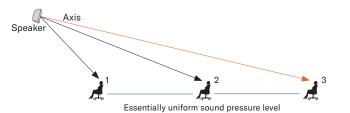
The coverage area of surface-mount speakers will depend on the mounting height rather than ceiling height. With surface-mount speakers installed at a height of around 3 meters, the coverage area will be somewhere between 5 and 7 meters, as shown in the below figure.





Speaker mounting position: around 3m height

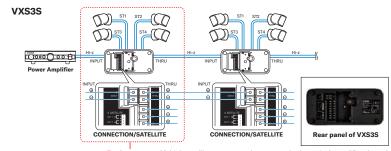
Uniform sound pressure level can easily be achieved throughout the listening plane with speakers that include by aligning the speaker's axis with the head of the most distant target (listener). This works because of the relationship between distance and coverage angle. When the perpendicular axis is aligned with the last row, the natural distance attenuation at the last row and the off-axis attenuation at closer rows tend to result in uniform SPL distribution.



*Yamaha provides dedicated speaker software application CISSCA for designing simple installation such as in-store background music system. Please see page 12 for the details.

Satellite Connection

The VXS10S/VXS3S subwoofers have satellite connectors on the rear panel, minimizing the number of amplifier channels required to get a system up and running. And since the subwoofers support high-impedance connections, it is possible to connect low-impedance satellite speakers while the subwoofer is connected to a high-impedance system. A built-in high-pass filter is automatically applied to the satellite speakers, providing exceptionally smooth, natural frequency crossover from subwoofer to satellites.



Basic system Multiple satellite systems can be structured using a single amplifier channel.

VXS5

VXS3F

VXS1ML

Recommended for

Background Music System

Standard





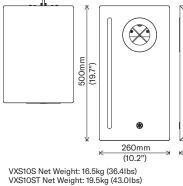


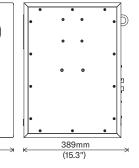
VXS3F Net Weight (with bracket): 1.1kg (2.4lbs), VXS3FT Net Weight (with bracket): 1.7kg (3.7lbs) *A transformer is attached to a bracket of the VXS3FT (Hi-Z model)

VXS1ML \mathbf{B} W







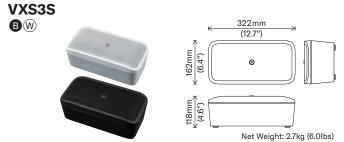




Optional Accessories







Optional Accessories



CMA3S for in-ceiling mount

*Dedicated mounting bracket is included in each model.

Standard Compact Subwoofer









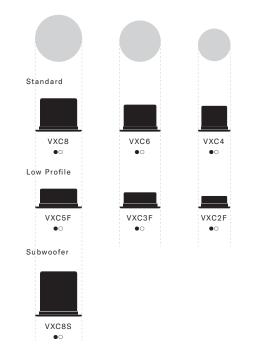


VXS series		VXS8/VXS8W VXS5/VXS5W			VXS3F/VXS3FW VXS3FT/VXS3FTW		VXS1MLB/VXS1MLW	VXS10S/VXS10SW VXS10ST/VXS10STW		VXS3SB/VXS3SW		
		VA version* (EN54-24 model)		VA version* (EN54-24 model)							·	
Speaker type		2-way, Bass reflex		2-way, Bass reflex		Full-range, Acoustic suspension		Full-range, Acoustic suspension	Subwoofer, Bass reflex		Subwoofer, SR-Bass™	
Components	LF	8		5.25″		3.5″		1.5″	10" Dual Voice Coil		3.5″	
	HF	1″		0.75″				1.0	-		-	
Crossover fre		2.8kHz		3kHz		-		40011 00111	-		-	
Frequency ra	0	51Hz - 20kHz		62Hz - 20kHz		130Hz - 20kHz		180Hz – 20kHz	45Hz - 250Hz		65Hz - 180Hz	
Nominal coverage (Horizontal x Vertical)		H100° x V100°		H120° x V120°		H150° x V160°		H170° x V170°	-		-	
Power	NOISE	90W		75W		20W	-	5W	100W + 100W	-	20W	
rating	PGM	180W			OW	40W	-	10W	200W + 200W	-	40W	
NI	PEAK	360W		300W		80W	-	20W	400W + 400W	-	80W	
Nominal imp	100V	8Ω 60W. 30W. 15W		8Ω 30W, 15W, 7.5W		8Ω	- 15W, 7.5W, 3.8W	8Ω	8Ω + 8Ω	200W. 100W. 50W	8Ω 15W. 7.5W. 3.8W	
Transformer tap	70V	60W, 30W, 15W, 7.5W		30W, 15W, 7.5W, 3.8W		-	15W, 7.5W, 3.8W 15W, 7.5W, 3.8W, 1.9W	-	-	200W, 100W, 50W, 20W, 100W, 50W, 25W	15W, 7.5W, 3.8W, 1.9W	
0.01	Sensitivity (1W, 1m)	91dB SPL (Half-space)	89dB SPL (Full-space)	89dB SPL (Half-space)	88dB SPL (Full-space)	86dB SPL (Full-space)		79dB SPL (Full-space)	96dB SPL (Half-space)		79dB SPL (Full-space)	
SPL	Peak (Calculated, 1m)	117dB SPL	115dB SPL	114dB SPL	113dB SPL	105dB SPL	-	92dB SPL	125dB SPL	-	98dB SPL	
Satellite filte	r	-	-	-	Network filter: HPF		ork filter: HPF 200Hz, 6	HPF 200Hz, 6dB/OCT				
Satellite impedance		-	-	-	-	-	-	-	8Ω load į	per satellite output reco	ommended	
I/O connectors		Euroblock (4 pin)	Ceramic terminal block	Euroblock (4 pin)	Ceramic terminal block	Euroblock (4 pin)	Barrier strip	Euroblock (2 pin)	Input: Euroblock (4 pin) Satellite out: Euroblock (4 pin)		Input: Barrier strip Satellite out: Barrier strip	
Magnetically shielded						N	o					
Overload protection						· · · · · ·	otect network and tran					
Enclosure	Cabinet	ABS (UL94 V-0)	ABS (UL94 5VB)	ABS (UL94 V-0)	ABS (UL94 5VB)	- 11	_94 5VB)	ABS (UL94 V-0)	·		ABS (UL94 V-0)	
material	Baffle	PC/ASA	ABS (UL94 5VB)	PC/ASA	ABS (UL94 5VB)	ABS (U	ABS (UL94 5VB) ABS (UL94 V-0) -		-	ABS (UL94 V-0)		
Grille material			Powder coated pe			Pov	der coated perforated	steel	Powder coated perforated steel			
Finish	Black model		Munsell N3/RA			Munsell N3/RAL 9017 (approx.)						
	White model		Munsell N9.3/R/	AL9010 (approx.)		Munsell N9/RAL9010 (approx.)						
Dust and water resistance (IP rating)		IP3	5**	IP35**		-		-	-		-	
Dimensions		W278mm (10.9") x H430mm (16.9") x D239mm (9.4")		W176mm (6.9") x H280mm (11.0") x D163mm (6.4")		W184mm (7.3") x H130mm (5.1") x D94mm (3.7")		W62mm (2.4") x H62mm (2.4") x D82mm (3.2")	W260mm (10.2") x H500mm (19.7") x D389mm (15.3")		W322mmmm (12.7") x H162mm (6.4") x D118mm (4.6")	
Net weight		8.2kg (18.1lbs)		3.6kg (7.9lbs)		1.1kg (2.4lbs)	1.7kg (3.7lbs)	0.17 kg (0.37lbs)	16.5kg (36.4lbs)	19.5kg (43.0lbs)	2.7kg (6.0lbs)	
Packaging		Pair	Pair	Pair	Pair	Pair	Pair	Single	Single	Single	Single	
Certificate		UL1480, NFPA70, CE, EAC, RoHS	EN54-24, CE, RoHS	UL1480, NFPA70, CE, EAC, RoHS	EN54-24, CE, RoHS	UL1480, NFPA70, CE, RoHS	UL1480, NFPA70, CE, EAC, RoHS	UL1480, NFPA70, CE, RoHS	CE, EAC, RoHS	CE, EAC, RoHS	UL1480, NFPA70, CE, RoHS	
EN54-24 DoP number		-	0359-CPR-00406	-	0359-CPR-00406	-	-	-	-	-	-	

^{*} VA versions are not available in some regions.

^{**} IP34 when installing the speaker to the ceiling vertically.

VXC SERIES



Recommended for

Background Music System

Smart Design for Safer. Faster Installation

The VXC ceiling speakers come with smart mechanical features that contribute to significantly safer, faster installation. And since these models support both low-impedance and high-impedance connection, the need for extra stock is minimized and systems can be designed to ideally meet the requirements of any application.



A built-in "Carrying Band" not only makes the speaker easy to carry around, but also increases safety when working on a stepladder.

Double threaded screws used for the

speaker clamp mechanism allow the

clamps to be tightened twice as fast

The supplied speaker grilles are

firmly and elegantly held in place

by powerful magnets. An anti-drop

as conventional screws.

Streamlined

wire is also included.



An "Anti-Drop Tab" mechanism securely holds the speaker in place so that the installation can proceed safely and efficiently. There's also a release lever that allows the speaker to be smoothly removed from the ceiling as required.





Hi-Z or Lo-Z

Both high-impedance and low-impedance connections are supported, and speaker wattage can be easily switched even after installation.



The supplied grilles can be painted any color to match interior decor.

Carrying Band



Anti-Drop Tab



Super Slim Back Can

which proves that style and substance aren't always mutually exclusive.

A back can less than 76.2mm/ 3 inches deep, which directly contributes to flexible installation.

Featured Model

Style and Substance.

Low-profile In-ceiling Speaker

VXC2F (VXC Series F)



Streamlined Design

Featuring a newly designed speaker driver unit, optimally tuned for music playback, the VXC2F's super slim, lightweight construction and flexible design can easily adapt to the strictest installation limitations, ensuring superb audio performance wherever they're placed. It allows you to streamline the installation

process and seamlessly integrate high-quality audio into a restaurant, retail, or professional environment,

Grilles with minimum rim width, available in black or white, and removable logo.



Recommended Subwoofer: VXC8S

Yamaha also offers an in-ceiling subwoofer that ideally matches for VXC series speakers, smoothly extending the low frequency range with superb sonic quality without spoiling interior design.

Pendant-mount Option

Suspension hardware and loudspeaker cosmetic cover designed for hanging from open ceilings.

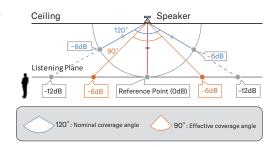




Tips for System Design & Installation

Speaker Layout

It is important to note that the nominal coverage angle listed in ceiling speaker specifications is not the same as the speaker's actual effective coverage angle. SPL at the nominal coverage angle is 6dB lower than the on-axis SPL, measured at a constant distance from the speaker. The effective coverage angle is defined as the angle at which the SPL is 6dB lower than the on-axis SPL at the listening plane. The effective coverage angle is usually about 70~80% of the nominal coverage angle.

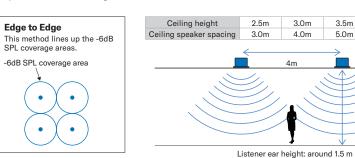


3.0m

4.0m

5.0m

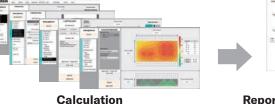
A number of methods can be employed when laying out speaker coverage areas. The "Edge to Edge" method is normally used for background music systems. The chart lists approximate coverage areas at a number of ceiling heights for standing listeners (listener ear height = around 1.5 meters). If the ceiling height is 3 meters, the coverage area will be approximately 4 meters. In this case a ceiling speaker spacing of 4 meters will provide uniform coverage with minimal volume variation.



CISSCA

CISSCA, the Commercial Installation Solutions Speaker Calculator, is a Yamaha's dedicated software application that rapidly calculates the number of speakers required for optimum performance in installations, based on the size of the room, type of system, type of speakers, and speaker layout pattern. Output also includes an estimate of effective sound pressure level. CISSCA also has a "Report" function that makes it easy to create documentation. Downloadable from Yamaha website for free.



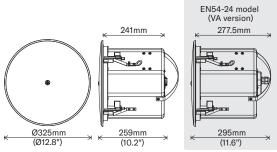


Report



VXC5F

 \mathbf{B} W

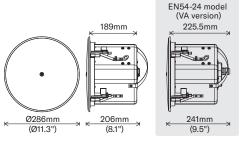




Ø324mm (Ø12.8")

Weight: 3.1 kg (6.8 lbs) Cutout Size: Ø285mm (11.3")





Net Weight: 4.4kg (9.7lbs) Cutout Size: Ø247mm (9.8")

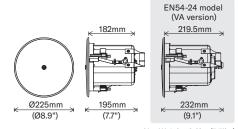
Ø285mm

(Ø11.3")

Net Weight: 2.5 kg (5.5 lbs) Cutout Size: Ø247mm (9.8")

→ × 112mm (4.4")



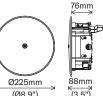


Net Weight: 2.6kg (5.7lbs) Cutout Size: Ø186mm (7.3")





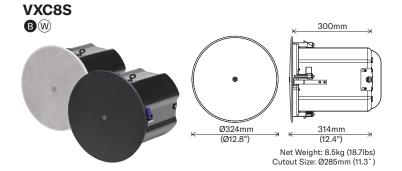




(Ø8.9")

Net Weight: 1.8 kg (4.0 lbs) Cutout Size: Ø186mm (7.3")

VXC3F



Optional Accessories



Low Profile Subwoofer Standard



		VXC8/	VXC8W	VXC6/	VXC6W	VXC	4/VXC4W	VXC5F	/VXC5FW	VXC3F	/VXC3FW	VXC2FB/VXC2FW	VXC8SB/VXC8SW
VXC series			VA version* (EN54-24 model)		VA version* (EN54-24 model)		VA version* (EN54-24 model)		VA version* (EN54-24 model)		VA version* (EN54-24 model)		,
Speaker type		2-way, Acoustic suspension			vay, suspension	Full-range, Bass reflex	Full-range, Acoustic suspension		-range, s reflex		-range, s reflex	Full-range, Bass reflex	Subwoofer, Band pass
Components	LF HF	8″ 1″		6. 0.7			4"	4.5″		3.5″		2.5″	8″
Crossover fre		3kHz		3.2kHz		-		-		-		-	-
Frequency ra		55Hz - 20kHz		56Hz - 20kHz		80Hz - 20kHz		60Hz - 20kHz		71Hz - 20kHz		67Hz - 20kHz	44Hz - 280Hz
Nominal cov	erage (Conical)	100°		110°		130°		130°		140°		160°	-
Power	NOISE	90W		75					-OW	20W		15W	100W
rating	PGM	180W		150W		60W		80W		40W		30W	200W
rating	PEAK	360W		300W		120W		160W		80W		60W	400W
Nominal imp	edance	8	ΒΩ	8Ω		8Ω		8Ω			8Ω	8Ω	8Ω
Transformer 100V		60W, 30W, 15W		60W, 30W, 15W		30W, 15W, 7.5W		30W, 15W, 7.5W		15W, 7.5W, 3.8W		15W, 7.5W, 3.8W, 1.9W	60W, 30W, 15W, 7.5W
tap	70V	60W, 30W, 15W, 7.5W		60W, 30W, 15W, 7.5W 30W, 15V		W, 7.5W, 3.8W	30W, 15W, 7.5W, 3.8W		15W, 7.5W, 3.8W, 1.9W		15W, 7.5W, 3.8W, 1.9W, 1W	60W, 30W, 15W, 7.5W, 3.8W	
SPL -	Sensitivity (1W, 1m)	90dB SPL (Half-space)	89dB SPL (Half-space)		3 SPL space)		dB SPL Ilf-space)	89dB SPL (Half-space)	87dB SPL (Half-space)	87dB SPL (Half-space)	86dB SPL (Half-space)	86dB SPL (Half-space)	88dB SPL (Half-space)
	Peak (Calculated, 1m)	116dB SPL	114dB SPL	111dE	3 SPL	108dB SPL		111dB SPL	109dB SPL	106dB SPL	105dB SPL	104dB SPL	114dB SPL
I/O connectors		Euroblock (4 pin)	Ceramic terminal block	Euroblock (4 pin)	Ceramic terminal block	Euroblock (4 pin)	Ceramic terminal block	Euroblock (4 pin)	Ceramic terminal block	Euroblock (4 pin)	Ceramic terminal block	Euroblock (4 pin)	Euroblock (4 pin)
Magnetically	/ shielded						No)					
Overload pro	tection					Full-rang	e power limiting to pro	tect network and	transducers				
Enclosure	Enclosure Cabinet (Back Can)		Steel		Steel		Steel		ABS (UL94 V-0)		ABS (UL94 V-0)		Steel
material	Baffle	Н	HIPS		HIPS		HIPS		ABS (UL94 V-0)		ABS (UL94 V-0)		ABS (UL94 V-0)
Grille materi	al			HIPS HIPS ABS (UL94 V-0)									
	Black model	Munsell N3/RAL 9017 (approx.)											
Finish	White model	Munsell N9.3/RAL9010 (approx.)											
Dust and water resistance (IP rating)		-	IP32	-	IP32	-	IP32	-	IP32	-	IP32	-	-
Dimensions		Ø325mm (12.8") x D259mm (10.2")	Ø325mm (12.8") x D295mm (11.6")	Ø286mm (11.3") x D206mm (8.1")	Ø286mm (11.3") x D241mm (9.5")	Ø225mm (8.9") x D195mm (7.7")	Ø225mm (8.9") x D232mm (9.1")	Ø324mm (12.8") x D143mm (5.7")		Ø285mm (11.3") x D112mm (4.4")		Ø225mm (8.9") x D88mm (3.5")	Ø324mm (12.8") x D314mm (12.4")
Net weight		6.6kg (14.6lbs) 4.4kg (9.7lbs)		(9.7lbs)	2.6kg (5.7lbs)		3.1 kg (6.8 lbs)		2.5 kg (5.5 lbs)		1.8kg (4.0lbs)	8.5kg (18.7lbs)	
Packaging		Pair	Pair	Pair	Pair	Pair	Pair	Pair	Pair	Pair	Pair	Single	Single
Certificate		UL1480, UL2043, NFPA70, CE, EAC, RoHS	EN54-24, CE, RoHS	UL1480, UL2043, NFPA70, CE, EAC, RoHS	EN54-24, CE, RoHS	UL1480, UL2043, NFPA70, CE, EAC, RoHS	EN54-24, CE, RoHS	UL1480, NFPA70, CE, EAC, RoHS	EN54-24, CE, RoHS	UL1480, NFPA70, CE, EAC, RoHS	EN54-24, CE, RoHS	UL1480, UL2043, NFPA70, CE, EAC, RoHS	UL1480, UL2043, NFPA70, CE, EAC, RoHS
EN54-24 DoP number		-	0359- CPR-00405	-	0359- CPR-00405	-	0359- CPR-00405	-	0560- CPR-152190027	-	0560- CPR-152190028	-	-

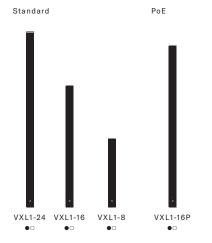
^{*} VA versions are not available in some regions.

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^{**} Specifications of the VXC2F and VXC8S are tentative.



VXL SERIES



Recommended for **Speech/Presentation System**



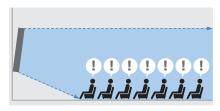
Blending Quality Sound with Visual Elegance

Ultra slim 54mm width appearance thanks to the small 1.5" driver shared with VXS1ML yet redesigned with a large voice coil, delivering distortion-free sound over a broad band of playback frequencies.



Outstanding Projection and Clear Sound Reinforcement

A line-array configuration significantly reduces the amount of reflection at the ceiling and floor surfaces, which means sound pressure is affected less by distance. As a result, clearer, more consistent sound can be delivered to back-of-house without making front-of-stage excessively loud.



Less Feedback Noise

With line-array speakers the per-unit output is smaller than with point-source speakers, meaning that a microphone positioned nearby picks up less sound energy.

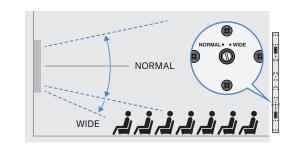


Tips for System Design & Installation

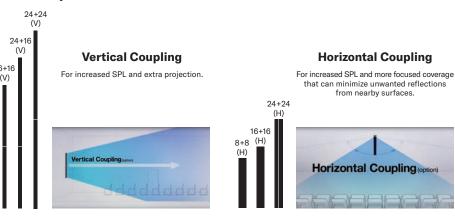
Vertical Coverage Expansion

The VXL1-16 and VXL1-24 feature special rear-panel switches that allow the lower vertical dispersion of the array to be easily expanded without having the angled speakers. This improves coverage at the front of the listening area in situations where the speakers are installed at a high location.

*VXL1-8's vertical dispersion is fixed

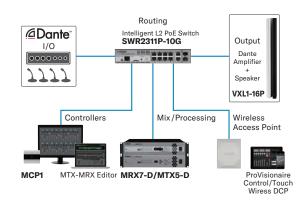


Double Speakers



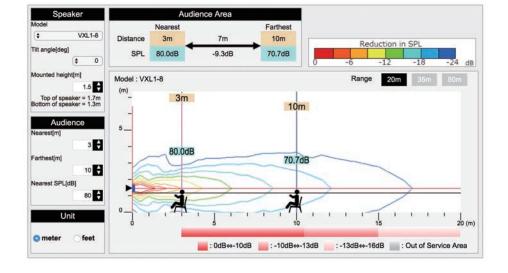
Dante+PoE Solution (VXL1-16P)

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. 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 space-saving sound system.



VXL Selection Assistant

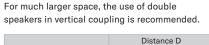
VXL Selection Assistant is a dedicated app available for free on Yamaha website, which is intended to assist the selection of the most appropriate VXL speaker model for speech reproduction applications. The App will provide an indication of whether good amplified sound can be provided across the audience area by calculating the difference in SPL between the nearest and furthest audience members. Good amplified sound can be expected if the SPL range across the audience area is within 10 dB.



The following shows a quick reference guide for appropriate selection of the VXL series.

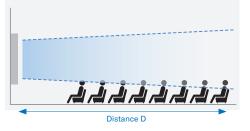
	Distance D
VXL1-8	9.5m (31 feet)
VXL1-16	13.5m (44 feet)
VXL1-24	25m (82 feet)

*Distance from the speaker to the nearest audience: 3m *Distance from the floor to the bottom of the speaker: 1.1m



VXL1-16 + VXL1-16 33m (108 feet) VXL1-24 + VXL1-16 42m (138 feet) VXL1-24 + VXL1-24 46m (151 feet)

*Distance from the speaker to the nearest audience: 4m *Distance from the floor to the bottom of the speaker: 1.1m



D: Distance from the speaker to the farthest audience*

*The SPL difference between the nearest and the farthest is within 10dB SPL.

VXL1-24 **VXL1-16P** VXL1-16 \mathbf{B} W **VXL1-8** BW 104mm 54mm 104mm 54mm 104mm 54mm 104mm 54mm (4.1") (2.1") (4.1") (2.1") (4.1") (2.1") (4.1") (2.1") Net Weight: 5.5kg (12.1lbs) Net Weight: 3.9kg (8.6lbs) Net Weight: 2.1kg (4.6lbs) Net Weight: 5kg (11.0lbs)

*Dedicated mounting bracket is included in each model.

Optional Accessories

Acces	sories	Installation	VXL1-24	VXL1-16	VXL1-8	VXL1-16P	Description
Default (Supplied bracket)			~	✓	~	~	For seamless wall mounting. This bracket does not allow angle adjustment.
WMB-L1		41	~	✓	~	~	Bracket for 2-axis adjustment of a single array.
VCB-L1			~	✓	N/A	N/A	Bracket for vertical mounting of two arrays, for increased SPL and extra projection.
VCSB-L1		J V	with VXL1-16 VXL1-24	with VXL1-16 VXL1-24	N/A	N/A	Bracket for 2-axis adjustment of a two vertically linked arrays. The VCB-L1 and WMB-L1 are used together.
HCB-L1			with VXL1-24	with VXL1-16	with VXL1-8	~	Bracket for side-by-side mounting of two arrays, for increased SPL and more focused horizontal dispersion that can minimize unwanted reflections from nearby surfaces.
PA-L1		-	~	✓	✓	~	Bracket for pole mounting. Suitable pole size Ø35 mm.
ST-L1			~	~	~	N/A	Transformer box for high-impedance connections. Ideal for multiple speaker layouts.







VXL1-16s in horizontal coupling with WMB-L1, VCB-L1, VCSB-L1 with WMB-L1, HCB-L1

Standard PoE VXL1-16P VXL1-24 VXL1-16 VXL1-8 •0 VXL series VXL1B-24/VXL1W-24 VXL1B-16/VXL1W-16 VXL1B-8/VXL1W-8 VXL1B-16P/VXL1W-16P Full-range, Full-range, Full-range, Full-range, Speaker type Bass reflex Bass reflex Bass reflex Bass reflex Powered speaker (PoE) 1.5" x 24 1.5" x 16 1.5" x 8 1.5" x 16 Components 77Hz - 20kHz 81Hz - 20kHz 70Hz - 20kHz 80Hz - 20kHz Without port cover Frequency range (-10dB) With port cover 98Hz - 20kHz 108Hz - 20kHz 80Hz - 20kHz 110Hz - 20kHz H170° x V15° (+7.5 / -7.5) H170° x V25° (+12.5 / -12.5) H170° x V40° (+20 / -20) H170° x V25° (+12.5 / -12.5) Nominal coverage Normal model (Horizontal x Vertical) Wide mode H170° x V20° (+7.5 / -12.5) H170° x V30° (+12.5 / -17.5) NOISE 80W 40W PGM 220W 160W 80W Power rating PEAK 440W 320W 160W 12Ω Nominal impedance With an optional transformer box (ST-L1): 60W, 30W, 15W Transformer tap 70V With an optional transformer box (ST-L1): 60W, 30W, 15W, 7.5W Amplifier type Class-D 15W (PoE + (IEEE 802.3 at)), Dynamic 6W (PoE (IEEE 802.3 af)) Power rating 15W (PoE + (IEEE 802.3 at)), Continuous 6W (PoE (IEEE 802.3 af)) 89dB SPL 91dB SPL 91dB SPL Sensitivity (1W, 1m) (Half-space) (Half-space) (Half-space) SPL Peak (Calculated, 1m) 117dB SPL 116dB SPL 111dB SPL 102dB SPL** I/O connectors Euroblock (2 pin) Euroblock (2 pin) Euroblock (2 pin) RJ45 (Dante) Magnetically shielded Overload protection Full-range power limiting to protect network and transducers Speaker processing Clip limiting, Integral power protection Over current protection, Over temperature Protection Amplifier protection protection, Under voltage lock out, DC detection, Clock detection Over load protection, Over voltage protection, Power supply protection Under voltage lock out Natural convection Power requirements PoE + (IEEE 802.3at), PoE (IEEE 802.3af) Idle: 3W Power consumption 1/8 (Pink Noise): 6W (PoE+ (IEEE 802.3at)), 4.3W (PoE (IEEE 802.3af)) Cabinet Aluminum extrusion cabinet Enclosure material Bottom board ABS (UL94 5VB) Grille material Powder coated perforated aluminum Munsell N3 / RAL 9017 (approx.) Black model Finish White model Munsell N9 / RAL9010 (approx.) IP34* Dust and water resistance (IP rating) W54mm (2.1") x H1212mm (47.7") x D104mm (4.1") W54mm (2.1") x H846mm (33.3") x D104mm (4.1") W54mm (2.1") x H480mm (18.9") x D104mm (4.1") W54mm (2.1") x H1120mm (44.1") x D104mm (4.1") Dimensions Net weight 5.5kg (12.1lbs) 3.9kg (8.6lbs) 5.0kg (11.0lbs) 2.1kg (4.6lbs) Single CE, RoHS Single CE, RoHS Single CE, RoHS Single CE, RoHS Packaging Certificate

^{*} IP35 with port cover

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