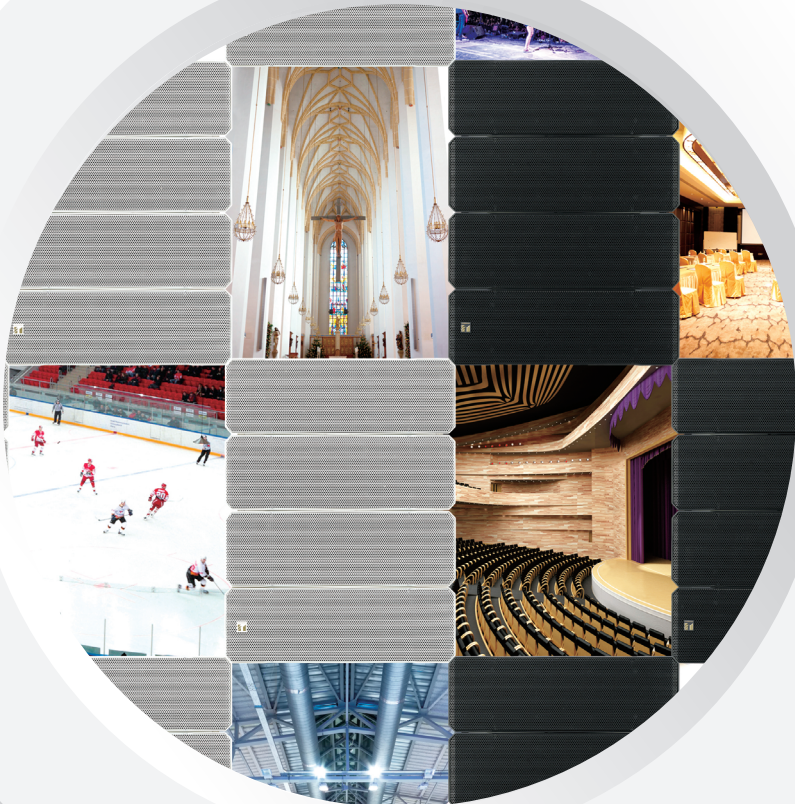




Line Array Speakers

HX Series





What is Line Array Speaker?

Line array speakers reinforce sound sources horizontally and each listener hears nearly identical volume and quality.

SOUND LEVEL

Sound travels wide horizontally, keeping the sound pressure level with line array speaker, whereas sound travels radially and slowly damps with conventional point source speakers.

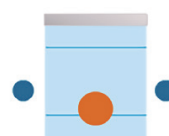
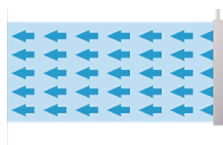
COVERAGE

Adjusted direction of coverage for better and more precise aiming, which increases speech intelligibility.

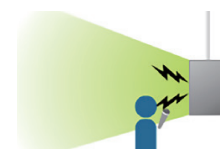
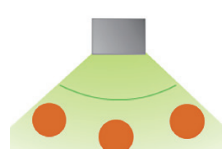
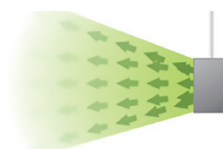
FEEDBACK

Controlled directivity virtually eliminates the most harmful effects and prevents feedback.

LINE ARRAY S P E A K E R



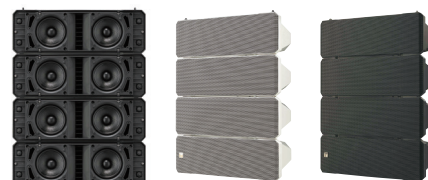
CONVENTIONAL B O X S P E A K E R



TOA Line Array Speakers

HX-7 Features

- Variable dispersion line array with SYNC-Drive wave guide technology
- Power handling: 750W Continuous Program @ 8 ohms
- One module is composed of 2 x 5.5" LF speakers and waveguide loaded 1" HF compression driver
- Adjustable dispersion angle 0, 15, 30, 45 and 60° (60° requires optional HY-60D)
- 0° mode facilitates the most effective line array set-up.
- Maximum four speaker units can be stacked
- Built-in isophasic wave-front control horn ensures precise HF control and superior reproduction of HF sounds
- Splash-proof version (IPX4) available



HX-5 Features

- More compact and affordable choice
- Power handling: 600W Continuous Program @ 8 ohms
- One module is composed of 1 x 4.72" cone-type LF driver and 3 x 1" balanced dome tweeters
- Adjustable dispersion angle 15, 30, 45 and 60°
- Maximum four speaker units can be stacked
- Splash-proof version (IPX4) available



Features of TOA Line Array Speakers

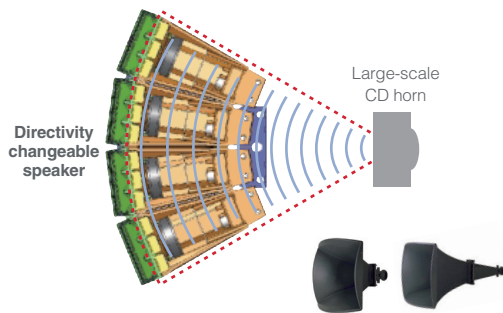
Line Array / Variable Dispersion Array Speaker / HX-7 & HX-5

Powerful & Compact variable dispersion line array with flexible installation options.

Thanks to its award-winning enclosure design, employing four modules per unit, the HX Series allows precise adjustment of sound dispersion angles.

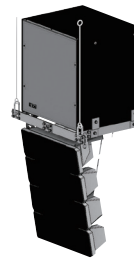
Accurate directivity control

HX Series configuration allows the variable directivity control and low-frequency dispersion control comparable to using a large constant-directivity horn speaker.

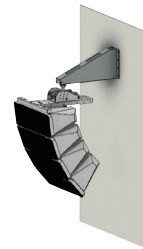


Versatile mounting options

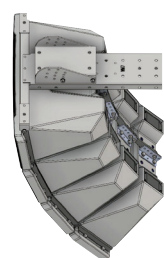
Hanging vertically with subwoofer



On the wall



On the ceiling



Adjustable Dispersion

HX-7



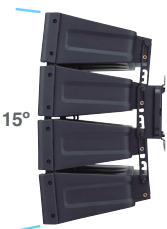
Controlled dispersion

Five Stages
Adjustable dispersion angle 0°, 15°, 30°, 45°, 60°



Wider coverage

HX-5



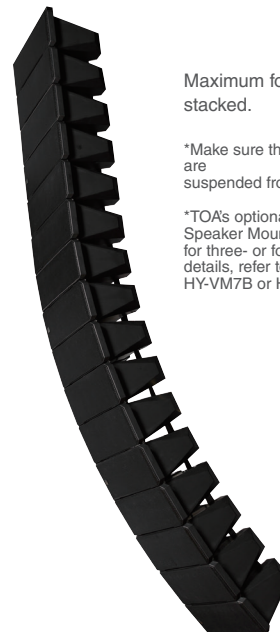
15°

Four Stages
angle of beam spread 15°, 30°, 45°, 60°



60°

Advantage of multi-unit configuration



Maximum four speaker units can be stacked.

*Make sure that 3 or 4-stacked HX units are suspended from 3 or more hanging points.

*TOA's optional HY-VM7B or HY-VM7W Speaker Mounting Brackets are required for three- or four- speaker installation. For details, refer to the installation manual of HY-VM7B or HY-VM7W brackets.

Best solution for acoustically challenging spaces:

Sports Venues

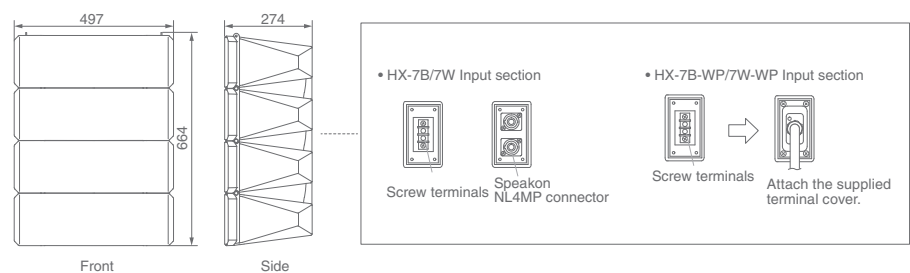
House of Worship

Concert Halls

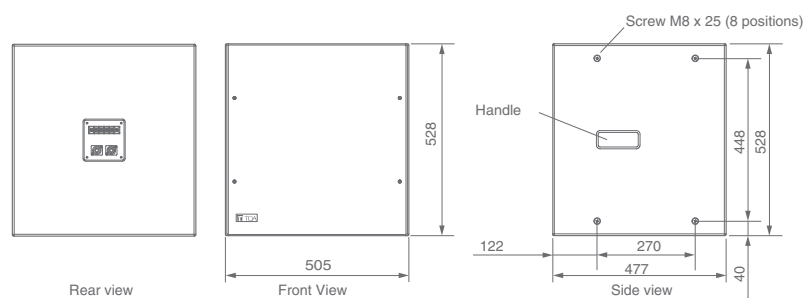
Boardrooms

HX-7

Line Array Speaker | From a Whisper to a Scream



Specifications	HX-7B	HX-7W	HX-7B-WP	HX-7W-WP
Enclosure	Bass-reflex type		Sealed type	
Power Handling Capacity	Continuous pink noise: 250W (IEC60268-5: 350W) / Continuous program: 750W			
Rated Impedance	8 Ω			
Sensitivity (1W, 1m)	100 dB			
Frequency Response	75Hz – 20kHz		105Hz – 20kHz	
Crossover Frequency	1.7 kHz			
Directivity Angle	Horizontal: 100°, Vertical: Depending on directivity angle mode			
Speaker Component	Low frequency: 13 cm cone-type x 8 High frequency: Wave front control horn with compression driver x 4			
Input Terminal	Speakon NL4MP x 2 and M4 screw terminal, distance between barriers: 9 mm (0.35")		M4 screw terminal, distance between barriers: 9 mm (0.35")	
Water Protection	-		IPX4 (Install with every speaker module tilted downward from the horizontal.)	
Finish	Enclosure: Polypropylene, black or white (HX-7B/W) Punched net: Surface-treated steel plate, black or white (HX-7B/W), paint / Hanging bracket: Steel plate, t3.0, black or white (HX-7B/W), paint		Enclosure: Polypropylene, black or white (HX-7B/W-WP), Punched net: Surface-treated steel plate, black & white (HX-7B/W-WP), rust proof coating	
Dimensions (W x H x D)	497 x 664 x 274 mm			
Weight	30 kg			



Specifications	FB-150B	FB-150W
Power Handling Capacity	Continuous pink noise: 200W / Continuous program: 600W	
Impedance	8 Ω	
Sensitivity (1W, 1m)	93 dB	
Frequency Response	40 Hz – 400Hz (-10 dB)	
Speaker Component	38 cm cone-type	
Input Terminal	Speakon NL4MP x 2 and M4 screw terminal, distance between barriers: 12.2mm	
Finish	Enclosure: MDF, black or white (FB-150B/W), urethane paint Punched net: Surface-treated steel plate, black & white (FB-150B/W), paint	
Dimensions (W x H x D)	505 x 528 x 477 mm	
Weight	30 kg	

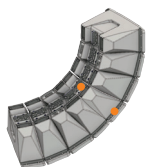
HX-7

Line Array Speaker | From a Whisper to a Scream

Mounting Options

Two speakers connected

HY-CN7W / HY-CN7W-WP /
HY-CN7B / HY-CN7B-WP



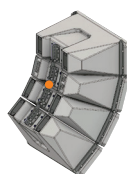
On the wall

HY-WM7W / HY-WM7B



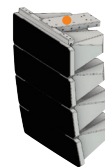
Dispersion angle 60 degrees

HY-60DW / HY-60DW-WP /
HY-60DB / HY-60DB-WP



On building structures

HY-TM7W-WP / HY-TM7B-WP



Hanging vertically with subwoofer

HY-PF7W / HY-PF7B



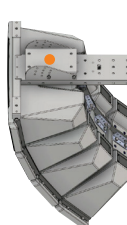
On undereave walls

HY-MS7W-WP / HY-MS7B-WP



On the ceiling

HY-VM7W / HY-VM7B



On the stand

HY-ST7



Accessories

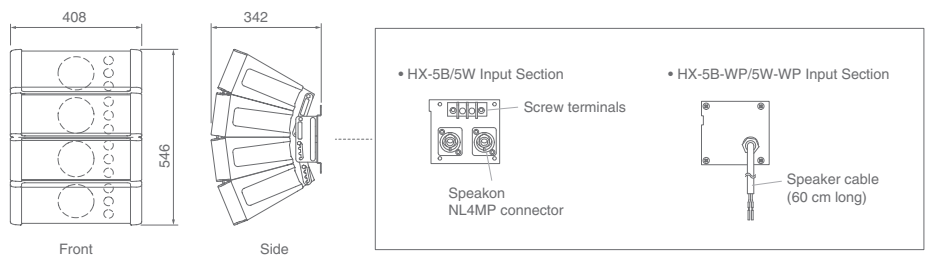
		Article number
	Speaker Connection Bracket, white	HY-CN7W* HY-CN7W-WP
	Speaker Connection Bracket, black	HY-CN7B* HY-CN7B-WP
	Angle Adjustment Bar, white Allows the dispersion angle 60 degrees.	HY-60DW* HY-60DW-WP
	Angle Adjustment Bar, black Allows the dispersion angle 60 degrees.	HY-60DB* HY-60DB-WP
	Rigging Frame, white	HY-PF7W*
	Rigging Frame, black	HY-PF7B*
	Rigging Bracket, white	HY-VM7W*
	Rigging Bracket, black	HY-VM7B*

		Article number
	Wall Mounting Bracket, white	HY-WM7W*
	Wall Mounting Bracket, black	HY-WM7B*
	Rigging Bracket, white, outdoor use	HY-TM7W-WP
	Rigging Bracket, black, outdoor use	HY-TM7B-WP
	Wall Mounting Bracket, white, outdoor use	HY-MS7W-WP
	Wall Mounting Bracket, black, outdoor use	HY-MS7B-WP
	Matching Transformer Adapter	HY-MT7
	Speaker Stand Adapter	HY-ST7*

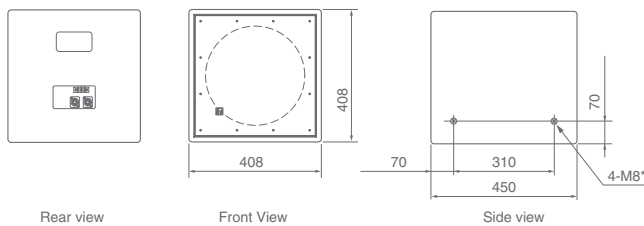
*Indoor use only

HX-5

Variable Dispersion Array Speaker | Full Area Coverage and Wider Bandwidth Sound



Specifications	HX-5B	HX-5W	HX-5B-WP	HX-5W-WP
Enclosure	Bass-reflex type		Sealed type	
Power Handling Capacity	Continuous pink noise: 200W / Continuous program: 600W			
Rated Impedance	8Ω			
Sensitivity (1W, 1m)	96 dB (60° mode), 97 dB (45° mode), 98 dB (30° mode), 99 dB (15° mode)			
Frequency Response	70Hz – 20kHz (-10 dB) (60° mode) 75Hz – 20kHz (-10 dB) (45° mode) 80Hz – 20kHz (-10 dB) (30° mode) 85Hz – 20kHz (-10 dB) (15° mode)		95Hz – 20kHz (-10 dB) (60° mode) 100Hz – 20kHz (-10 dB) (45° mode) 105Hz – 20kHz (-10 dB) (30° mode) 110Hz – 20kHz (-10 dB) (15° mode)	
Crossover Frequency	4kHz			
Directivity Angle	Horizontal: 100° (over 2kHz), Vertical: 60° (over 800Hz), 45° (over 1.2kHz), 30° (over 1.6kHz), 15° (over 3.2kHz) variable			
Speaker Component	Low frequency: 12cm cone-type x 4, High frequency: Balanced dome-type x 12			
Input Terminal	Speakon NL4MP x 2 and M4 screw terminal		-	
Speaker Cord	-		2-core cabtyre cord with diameter of 6mm	
Water Protection	-		IP X4 (Install with every speaker module downward)	
Finish	Enclosure: Polypropylene, black or white / Punched net: Surface-treated steel plate, black or white			
Dimensions (W x H x D)	408 x 546 x 342mm			
Weight	16kg			



Specifications	FB-120B	FB-120W
Rated Input	Continuous pink noise: 200W / Continuous program: 600W	
Impedance	8 Ω	
Sensitivity (1W, 1m)	90 dB at installation in free sound field, 96 dB at installation in 1/2 free sound field	
Frequency Response	40Hz – 1.2kHz (-10 dB)	
Speaker Component	30cm cone-type speaker	
Input Terminal	Speakon NL4MP x 2 and M4 screw terminals	
Finish	Enclosure plywood, metal front grille black	Enclosure plywood, metal front grille white
Dimensions (W x H x D)	408 x 408 x 450mm	
Weight	15kg	

HX-5

Variable Dispersion Array Speaker | Full Area Coverage and Wider Bandwidth Sound

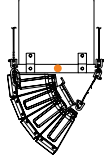
Mounting Options

Hanging horizontally

HY-PF1B / HY-PF1W / HY-PF1WP

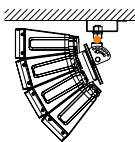


Hanging vertically with subwoofer

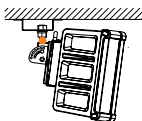


On the ceiling vertically

HY-CW1B / HY-CW1W / HY-CW1WP

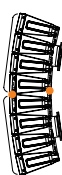


On the ceiling horizontally



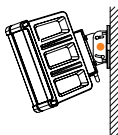
Two speakers connected

HY-CN1B / HY-CN1W / HY-CN1BWP / HY-CN1WWP

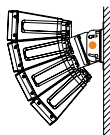


On the wall horizontally

HY-WM1B / HY-WM1W / HY-WM1WP

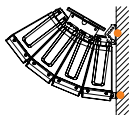


On the wall vertically

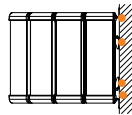


On the wall vertically

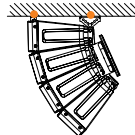
HY-WM2B / HY-WM2W / HY-WM2WP



On the wall horizontally

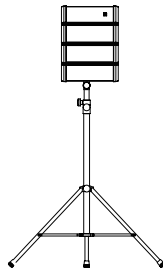


On the ceiling vertically



On the stand

HY-ST1

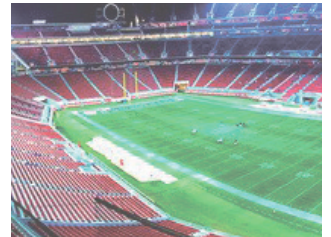
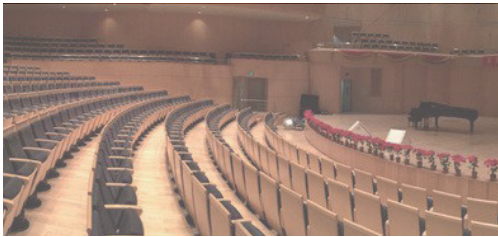


Accessories

		Article number
	Rigging Frame, black	HY-PF1B*
	Rigging Frame, white	HY-PF1W*
	Rigging Frame, outdoor use	HY-PF1WP
	Ceiling Mounting Bracket, black	HY-CW1B*
	Ceiling Mounting Bracket, white	HY-CW1W*
	Ceiling Mounting Bracket, outdoor use	HY-CW1WP
	Wall Mounting Bracket, black	HY-WM1B*
	Wall Mounting Bracket, white	HY-WM1W*
	Wall Mounting Bracket, outdoor use	HY-WM1WP

		Article number
	Wall Mounting Bracket, black	HY-WM2B*
	Wall Mounting Bracket, white	HY-WM2W*
	Wall Mounting Bracket, outdoor use	HY-WM2WP
	Extension Bracket, black	HY-CN1B*
	Extension Bracket, white	HY-CN1W*
	Extension Bracket, outdoor use, black	HY-CN1BWP
	Extension Bracket, outdoor use, white	HY-CN1WWP
	Speaker Stand Adapter	HY-ST1*
	Matching Transformer	MT-200

*Indoor use only



Line array speaker is an ideal solution for acoustically challenging venues which have reflective ceiling or highly reverberant space.