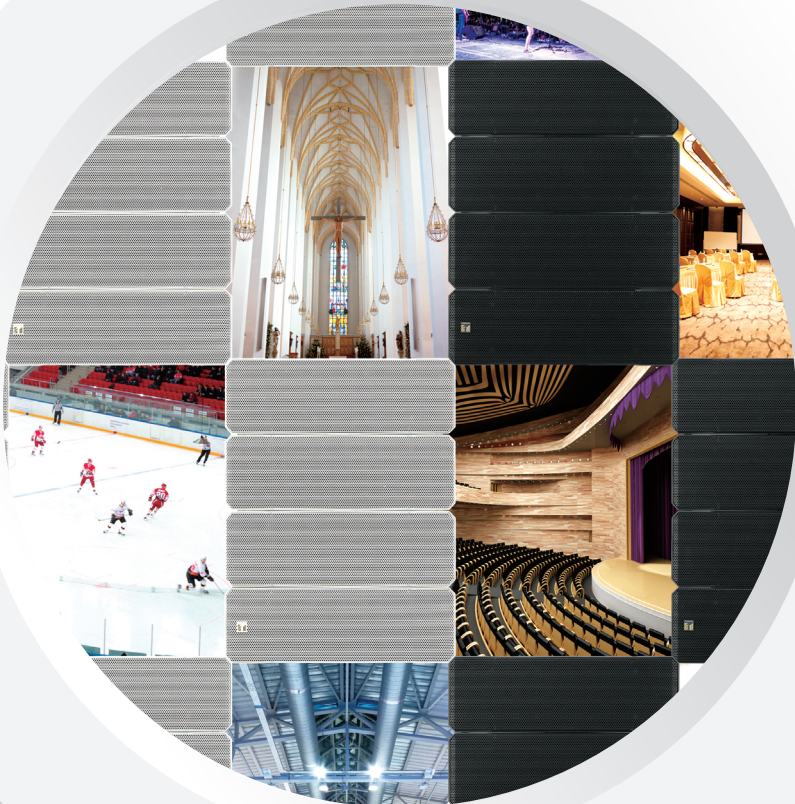




# Line Array Speakers

## 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.

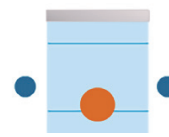
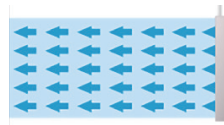
## COVERAGE

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

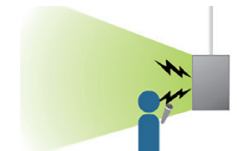
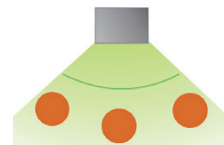
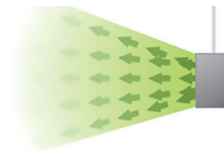
## FEEDBACK

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

### LINE ARRAY SPEAKER



### CONVENTIONAL BOX SPEAKER



# 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

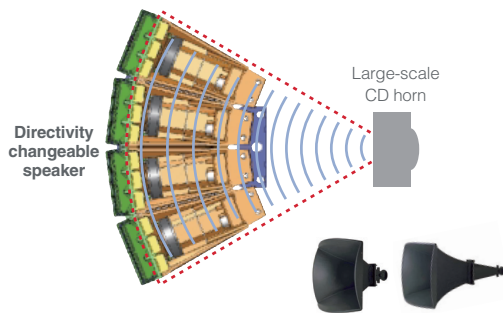
Line Array / Variable Dispersion Array Speaker / HX-7 & HX-5

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.

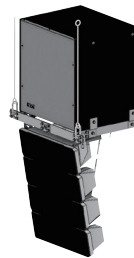
## Accurate directivity control

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

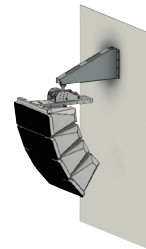


## Versatile mounting options

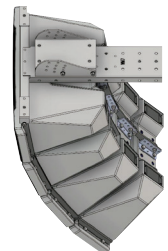
Hanging vertically with subwoofer



On the wall



On the ceiling



## Adjustable Dispersion

HX-7



Controlled dispersion

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



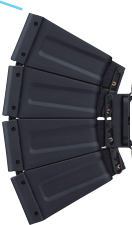
Wider coverage

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

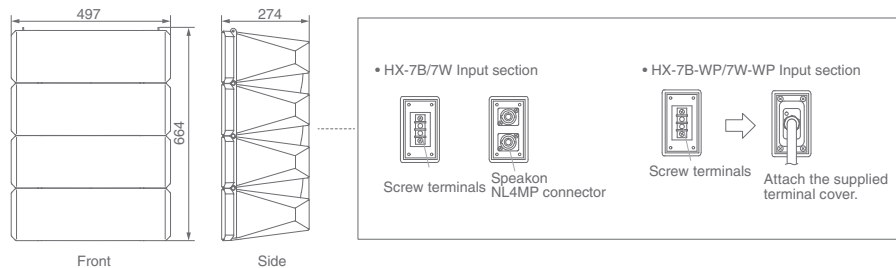
Concert Halls

Boardrooms

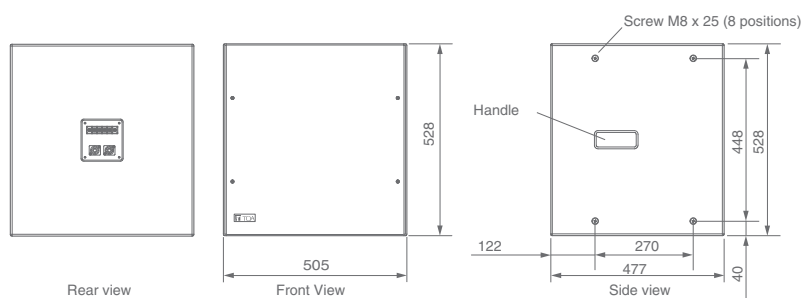


# HX-7

## 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	40Hz – 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	

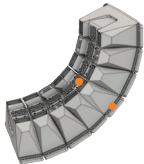


# HX-7

## Line Array Speaker | From a Whisper to a Scream

### Mounting Options

**Two speakers connected**  
HY-CN7W / HY-CN7W-WP /  
HY-CN7B / HY-CN7B-WP



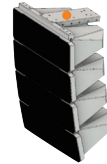
**On the wall**  
HY-WM7W / HY-WM7B



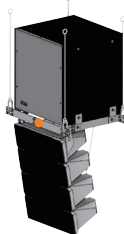
**Dispersion angle 60 degrees**  
HY-60DW / HY-60DW-WP /  
HY-60DB / HY-60DB-WP



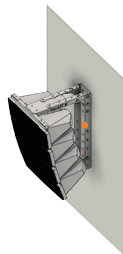
**On building structures**  
HY-TM7W-WP / HY-TM7B-WP



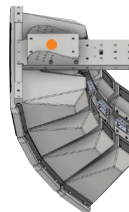
**Hanging vertically with subwoofer**  
HY-PF7W / HY-PF7B



**On undereave walls**  
HY-MS7W-WP / HY-MS7B-WP










**On the ceiling**  
HY-VM7W / HY-VM7B









**On the stand**  
HY-ST7



### Accessories

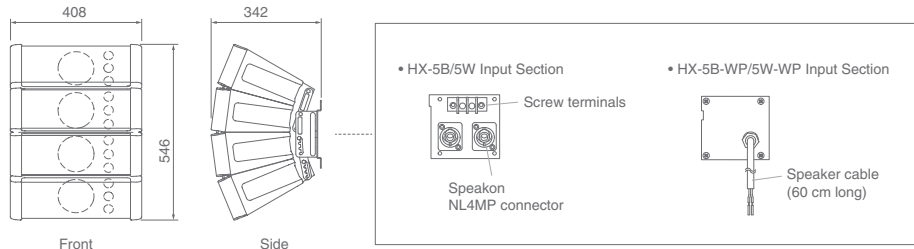
		Article number
	Speaker Connection Bracket, white	HY-CN7W* HY-CN7W-WP
	Speaker Connection Bracket, black	HY-CN7B* HY-CN7B-WP
	Angle Adjustment Bar, white Allows the dispersion angle 60 degrees.	HY-60DW* HY-60DW-WP
	Angle Adjustment Bar, black Allows the dispersion angle 60 degrees.	HY-60DB* HY-60DB-WP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

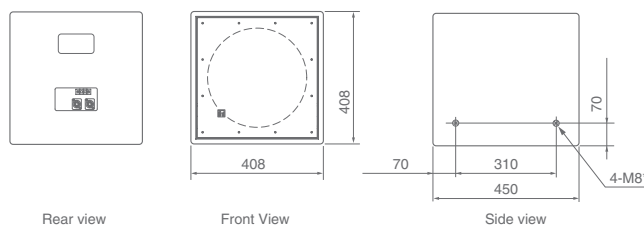
\*Indoor use only

# 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	8 Ω			
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 (-10dB)	
Speaker Component	30 cm 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

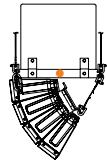
### Mounting Options

**Hanging horizontally**

HY-PF1B / HY-PF1W / HY-PF1WP

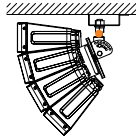


**Hanging vertically with subwoofer**

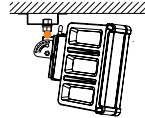


**On the ceiling vertically**

HY-CW1B / HY-CW1W / HY-CW1WP



**On the ceiling horizontally**



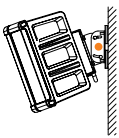
**Two speakers connected**

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

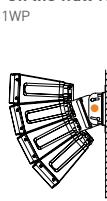


**On the wall horizontally**

HY-WM1B / HY-WM1W / HY-WM1WP

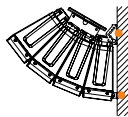


**On the wall vertically**

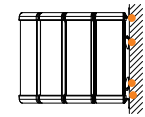


**On the wall vertically**

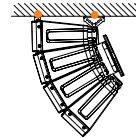
HY-WM2B / HY-WM2W / HY-WM2WP



**On the wall horizontally**

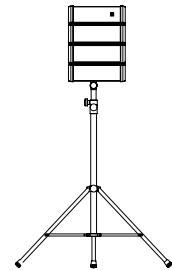


**On the ceiling vertically**

















**On the stand**

HY-ST1



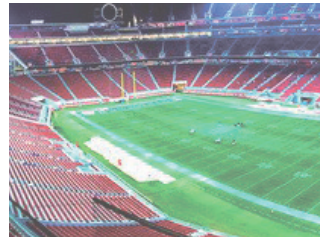
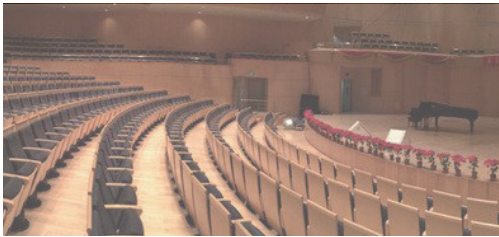
### Accessories

		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 reverbrant space.