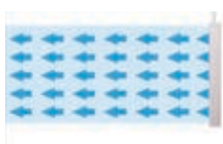
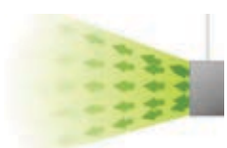
TOA

HX Series
Line Array Speakers

What is Line Array Speaker?

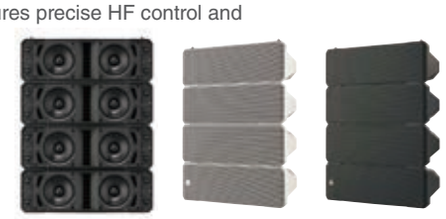
Line array speakers reinforce sound sources horizontally and each listener hears nearly identical volume and quality.

	SOUND LEVEL	COVERAGE	FEEDBACK
	Sound travels wide horizontally, keeping the sound pressure level wtih line array speaker, whereas sound travels radially and slowly damps with conventional point source speakers.	Adjusted direction of coverage for better and more precise aiming, which increases speech intelligibility.	Controlled directivity virtually eliminates the most harmful effects and prevent feedbacks.
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 Ω
- 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 Ω
- 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

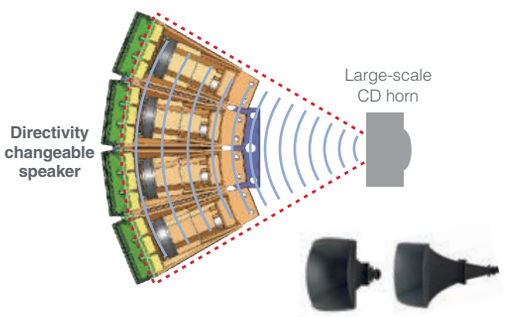
Line Array / Variable Dispersion Array Speaker / **HX-7** & **HX-5**

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

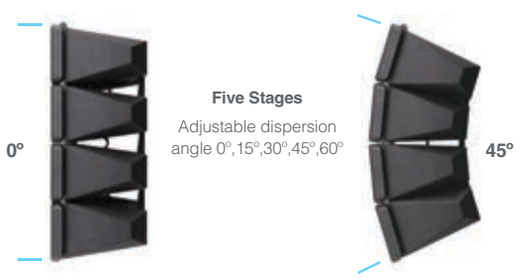
Hanging vertically with subwoofer

On the wall

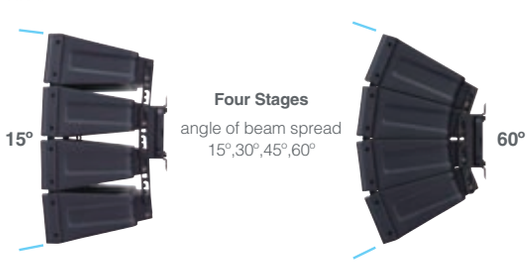
On the ceiling

Adjustable Dispersion

HX-7



HX-5



Advantage of multi-unit configuration

Maximum four speaker units can be stacked.

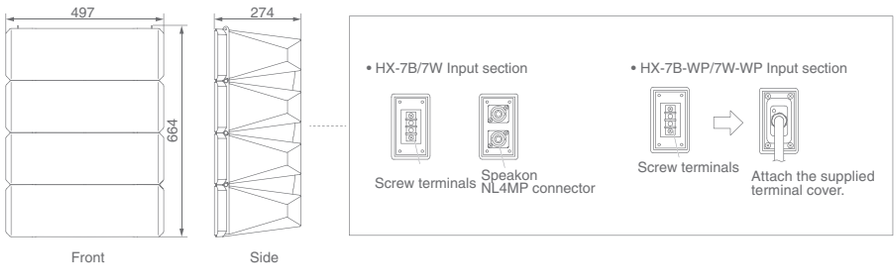
*Make sure that 3 or 4-stacked HX units are suspended from 3 or more hanging points.

Best solution for acoustically challenging spaces:

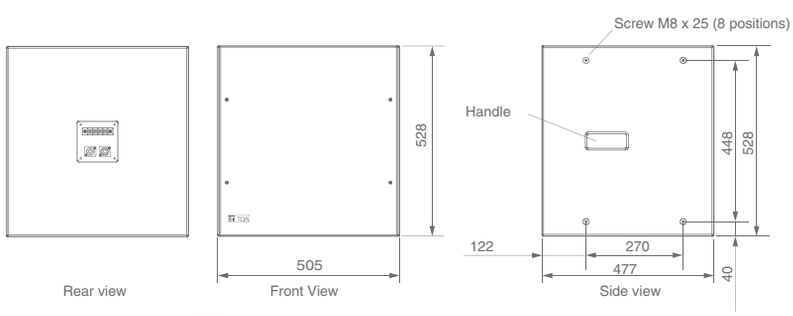
Sports Venues | **House of Worship** | **Concert Halls** | **Boardrooms**

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: 250 W (IEC60268-5: 350 W) / Continuous program: 750 W			
Rated Impedance	8 Ω			
Sensitivity (1 W, 1 m)	100 dB			
Frequency Response	75 Hz – 20 kHz		105 Hz – 20 kHz	
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: 200 W / Continuous program: 600 W	
Impedance	8 Ω	
Sensitivity (1 W, 1 m)	93 dB	
Frequency Response	40 Hz – 400 Hz (-10 dB)	
Speaker Component	38 cm cone-type	
Input Terminal	Speakon NL4MP x 2 and M5 screw terminal, distance between barriers: 12.2 mm	
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

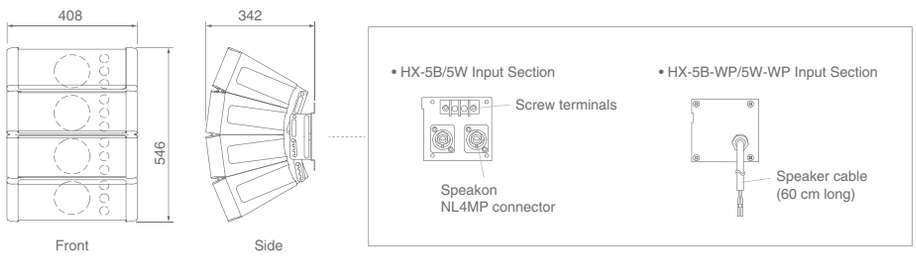
		Article number
	Speaker Connection Bracket, white	HY-CN7W* HY-CN7W-WP
	Speaker Connection Bracket, black	HY-CN7B* HY-CN7B-WP
	Angle Adjustment Bar, white Allows the dispersion angle 60 degrees.	HY-60DW* HY-60DW-WP
	Angle Adjustment Bar, black Allows the dispersion angle 60 degrees.	HY-60DB* HY-60DB-WP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

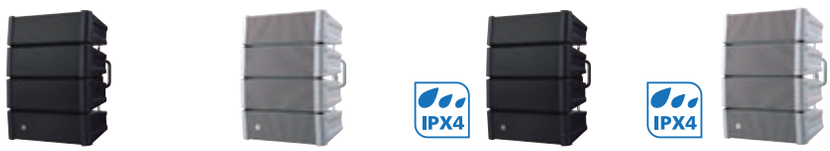
		Article number
	Wall Mounting Bracket, white	HY-WM7W*
	Wall Mounting Bracket, black	HY-WM7B*
	Rigging Bracket, white, outdoor use	HY-TM7W-WP
	Rigging Bracket, black, outdoor use	HY-TM7B-WP
	Wall Mounting Bracket, white, outdoor use	HY-MS7W-WP
	Wall Mounting Bracket, black, outdoor use	HY-MS7B-WP
	Matching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

*Indoor use only

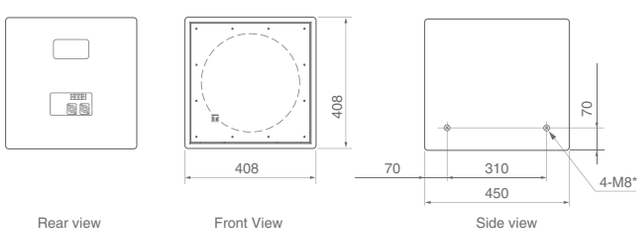
HX-5

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: 200 W / Continuous program: 600 W			
Rated Impedance	8 Ω			
Sensitivity (1 W, 1 m)	96 dB (60° mode), 97 dB (45° mode), 98 dB (30° mode), 99 dB (15° mode)			
Frequency Response	70 Hz – 20 kHz (-10 dB) (60° mode) 75 Hz – 20 kHz (-10 dB) (45° mode) 80 Hz – 20 kHz (-10 dB) (30° mode) 85 Hz – 20 kHz (-10 dB) (15° mode)		95 Hz – 20 kHz (-10 dB) (60° mode) 100 Hz – 20 kHz (-10 dB) (45° mode) 105 Hz – 20 kHz (-10 dB) (30° mode) 110 Hz – 20 kHz (-10 dB) (15° mode)	
Crossover Frequency	4kHz			
Directivity Angle	Horizontal: 100° (over 2 kHz), Vertical: 60° (over 800 Hz), 45° (over 1.2 kHz), 30° (over 1.6 kHz), 15° (over 3.2 kHz) variable			
Speaker Component	Low frequency: 12 cm 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 6 mm	
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 342 mm			
Weight	16 kg			



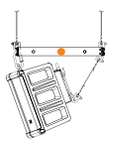
Specifications	FB-120B	FB-120W
Rated Input	Continuous pink noise: 200 W / Continuous program: 600 W	
Impedance	8 Ω	
Sensitivity (1 W, 1 m)	90 dB at installation in free sound field, 96 dB at installation in 1/2 free sound field	
Frequency Response	40 Hz – 1.2 kHz (-10 dB)	
Speaker Component	30 cm cone-type 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 × 408 × 450 mm	
Weight	15 kg	

HX-5

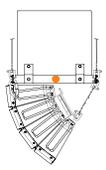
Variable Dispersion Array Speaker | Full Area Coverage and Wider Bandwidth Sound

Mounting Options

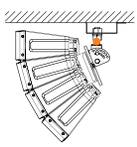
Hanging horizontally
HY-PF1B / HY-PF1W / HY-PF1WP



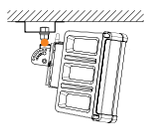
Hanging vertically with subwoofer
HY-PF1B / HY-PF1W / HY-PF1WP



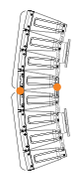
On the ceiling vertically
HY-CW1B / HY-CW1W / HY-CW1WP



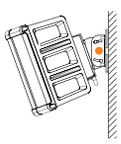
On the ceiling horizontally
HY-CW1B / HY-CW1W / HY-CW1WP



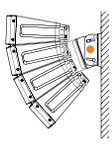
Two speakers connected
HY-CN1B / HY-CN1W / HY-CN1BWP / HY-CN1WWP



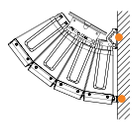
On the wall horizontally
HY-WM1B / HY-WM1W / HY-WM1WP



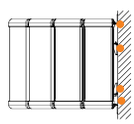
On the wall vertically
HY-WM1B / HY-WM1W / HY-WM1WP



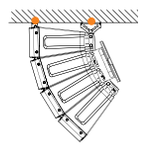
On the wall vertically
HY-WM2B / HY-WM2W / HY-WM2WP



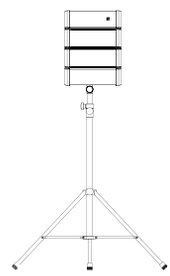
On the wall horizontally
HY-WM2B / HY-WM2W / HY-WM2WP



On the ceiling vertically
HY-WM2B / HY-WM2W / HY-WM2WP



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

Recommended Digital Power Amplifiers

DA-1000F

- 650W x 4 channel @ 8Ω
- 1000W x 4 channel @ 4Ω
- 2000W x 2 channel (bridge) @ 8Ω

DA-1250D

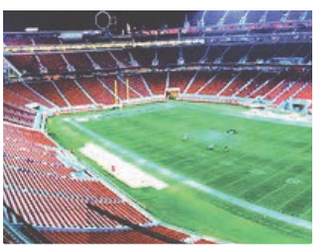
- 700W x 2 channel @ 8Ω
- 1250W x 2 channel @ 4Ω
- 2500W x 1 channel (bridge) @ 8Ω

DA-250F

- 170W x 4 channel @ 8Ω
- 250W x 4 channel @ 4Ω
- 500W x 2 channel (bridge) @ 8Ω

DA-550F

- 350W x 4 channel @ 8Ω
- 550W x 4 channel @ 4Ω
- 1100W x 2 channel (bridge) @ 8Ω



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

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TOA
Smiles for the Public

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