



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

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.

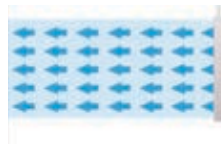
COVERAGE

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

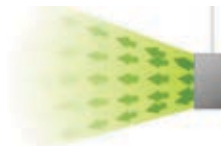
FEEDBACK

Controlled directivity virtually eliminates the most harmful effects and 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



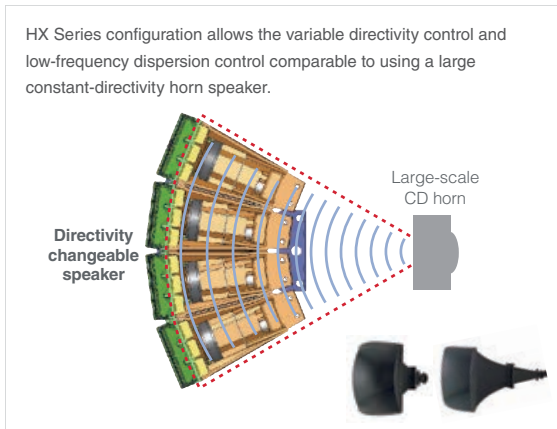
Features of TOA Line Array Speakers

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

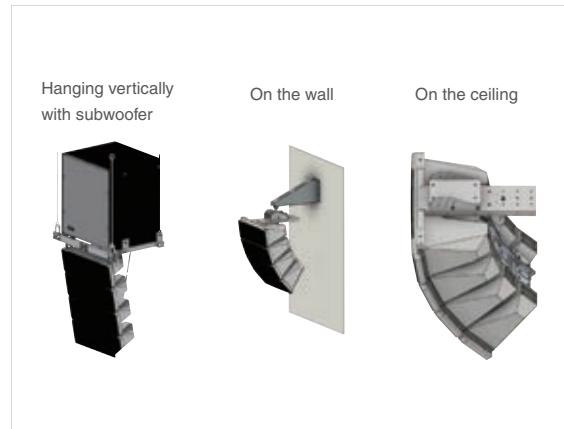
Powerful & Compact variable dispersion line array with flexible installation options.

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

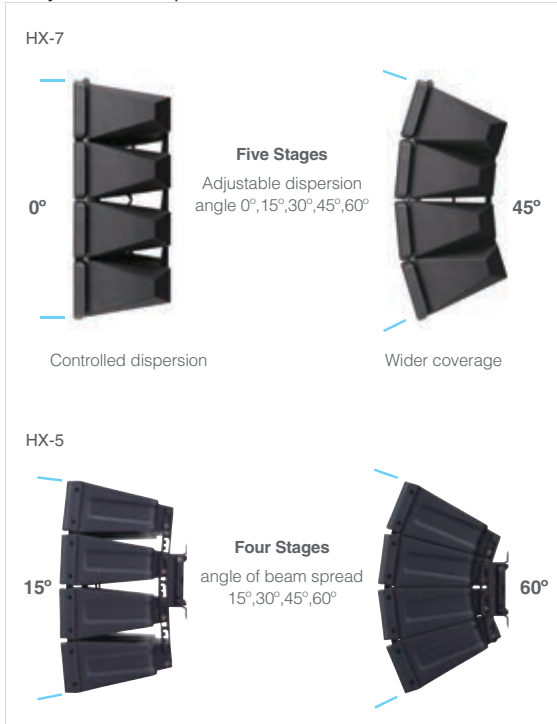
Accurate directivity control



Versatile mounting options



Adjustable Dispersion



Advantage of multi-unit configuration



Best solution for acoustically challenging spaces:

Sports Venues

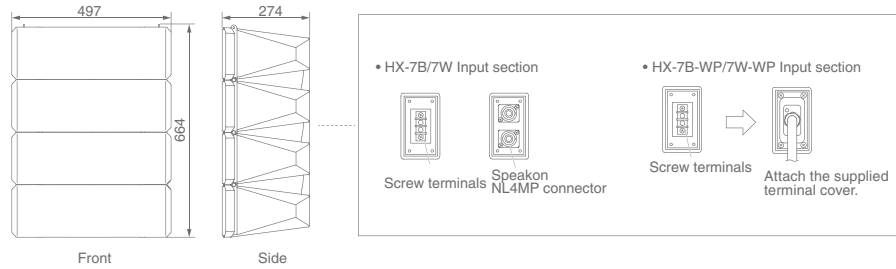
House of Worship

Concert Halls

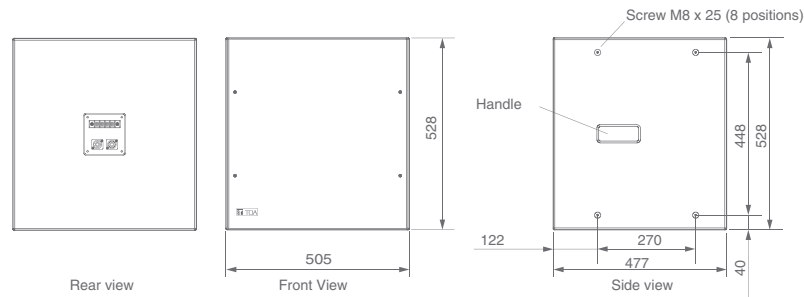
Boardrooms

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 | 75 Hz – 20kHz | | 105 Hz – 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: 9mm (0.35") | | M4 screw terminal, distance between barriers: 9mm (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 M5 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

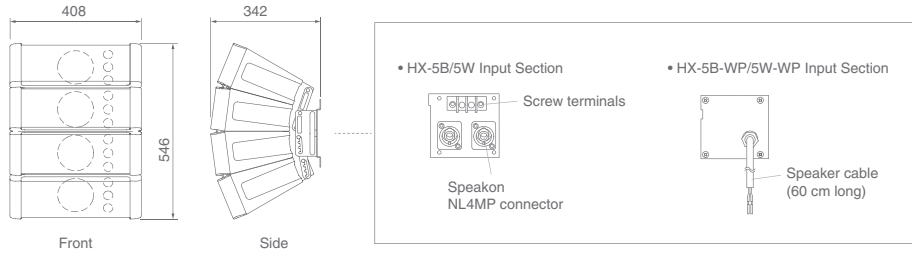
| | | Article number |
|--|--|------------------------|
| | Speaker Connection Bracket, white | HY-CN7W* HY-CN7W-WP |
| | Speaker Connection Bracket, black | HY-CN7B* HY-CN7B-WP |
| | Angle Adjustment Bar, white Allows the dispersion angle 60 degrees. | HY-60DW* HY-60DW-WP |
| | Angle Adjustment Bar,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

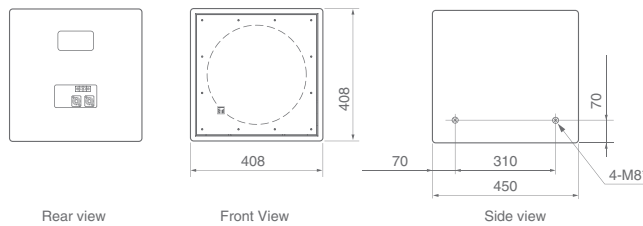
*Indoor use only

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 (-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 450 mm | |
| Weight | 15kg | |

HX-5

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

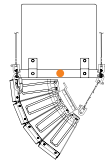
Mounting Options

Hanging horizontally

HY-PF1B / HY-PF1W / HY-PF1WP

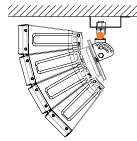


Hanging vertically with subwoofer

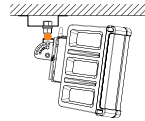


On the ceiling vertically

HY-CW1B / HY-CW1W / HY-CW1WP

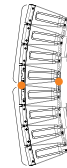


On the ceiling horizontally



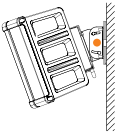
Two speakers connected

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



On the wall horizontally

HY-WM1B / HY-WM1W / HY-WM1WP

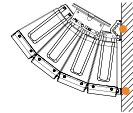


On the wall vertically

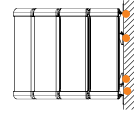


On the wall vertically

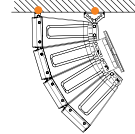
HY-WM2B / HY-WM2W / HY-WM2WP



On the wall horizontally

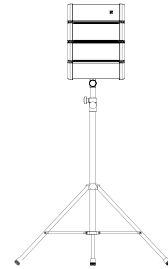


On the ceiling vertically





















On the stand

HY-ST1



Accessories

| | | Article number | | | Article number |
|---|---------------------------------------|----------------|---|---------------------------------------|----------------|
|  | Rigging Frame, black | HY-PF1B* |  | Wall Mounting Bracket, black | HY-WM2B* |
|  | Rigging Frame, white | HY-PF1W* |  | Wall Mounting Bracket, white | HY-WM2W* |
|  | Rigging Frame, outdoor use | HY-PF1WP |  | Wall Mounting Bracket, outdoor use | HY-WM2WP |
|  | Ceiling Mounting Bracket, black | HY-CW1B* |  | Extension Bracket, black | HY-CN1B* |
|  | Ceiling Mounting Bracket, white | HY-CW1W* |  | Extension Bracket, white | HY-CN1W* |
|  | Ceiling Mounting Bracket, outdoor use | HY-CW1WP |  | Extension Bracket, outdoor use, black | HY-CN1BWP |
|  | Wall Mounting Bracket, black | HY-WM1B* |  | Extension Bracket, outdoor use, white | HY-CN1WWP |
|  | Wall Mounting Bracket, white | HY-WM1W* |  | Speaker Stand Adapter | HY-ST1* |
|  | Wall Mounting Bracket, outdoor use | HY-WM1WP |  | 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



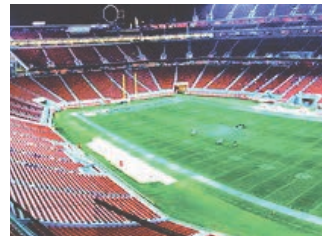
DA-250F

- 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 reverberant space.



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