

F-1000 Series Wide-Dispersion Speakers



DESCRIPTION

The TOA F-1000 Series comprise a two-way speaker line of compact units offering wide frequency response and higher, more powerful performance. These highly adaptable speaker systems are intended to meet the requirements of a wide range of venues and applications, both indoors and outdoors.

For clear, wide-area sound coverage, the Series include wide dispersion-angle (90° x 90°) high-frequency horn (Octagonal Horn). High-impedance and low-impedance models are available. Low impedance models come with separate HF and LF protection circuitry. High impedance models have a rear-panel rotary control for making impedance settings that optimally match amplifier and speaker performance.

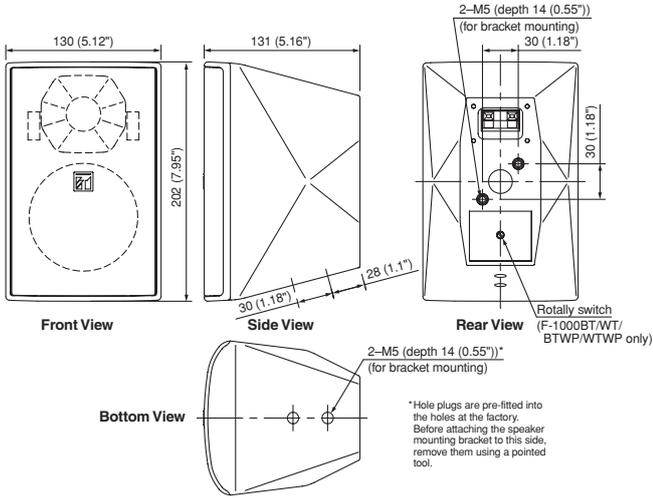
The speaker units have a design that combines stylishness and a high degree of performance-enhancing rigidity. Even the decor-enhancing convex bulge on the side of the casing serves to improve rigidity. Brackets for easy speaker-stand, wall and ceiling installation are included, and there are also optionally available brackets for more challenging installation venues and sound reinforcement applications. Push-in terminals make connections quick and easy, and there are models for outdoor use that meet IPX4 splash-proof standards.

FEATURES

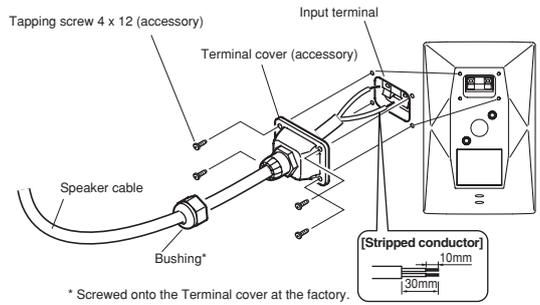
- 90° x 90° dispersion angle high-frequency horns (Octagonal Horn) ensure an enhanced sound coverage area and a more even balanced tone.
- Splash-proof design with anticorrosive punching net and terminal cover, meeting IPX4 splash-proof ratings, available on models F-1000BTWP/WTWP.
- All speaker models are repaintable.
- Low impedance models have high and low frequency filter and protection circuitry.
- Included accessory brackets allow a wide choice of installations on walls, ceilings and speaker stands.
- Optionally available brackets meet an even wider variety of installation demands.
- Stylish and highly rigid casing design for attractive installation with clearer sound reproduction.
- Sensitivity: 87dB (1W, 1m)



APPEARANCE AND DIMENSIONAL DIAGRAM



TERMINAL COVER USE (F-1000BTWP/WTWP only)

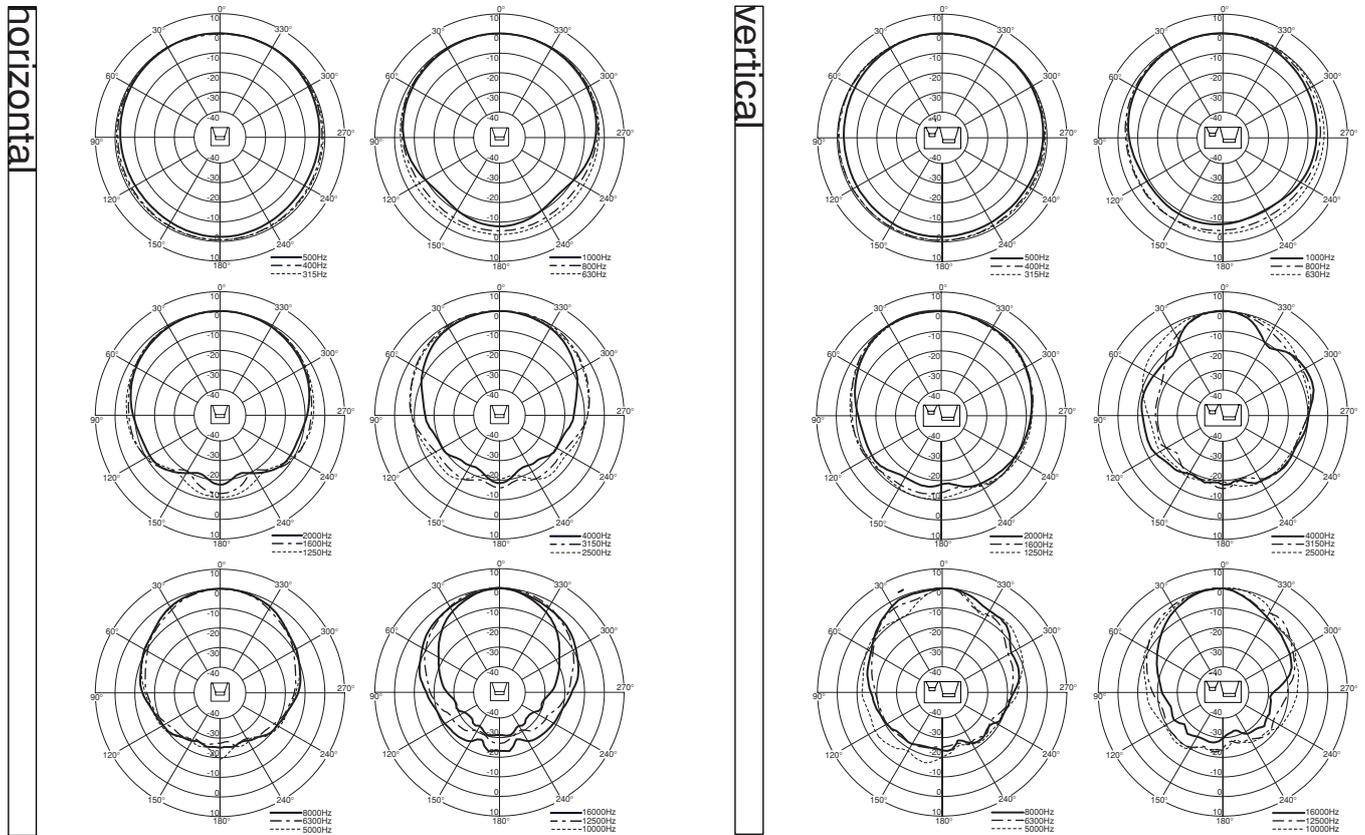


Notes

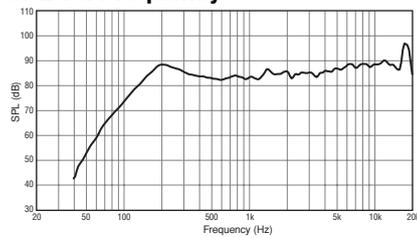
- For the speaker cable, use a cable with a diameter of 6 – 10 mm, which will fit the cable bushing.
- To ensure waterproof capabilities, firmly mount the terminal cover to the speaker and tighten the bushing on the cover.

CHARACTERISTIC DIAGRAMS

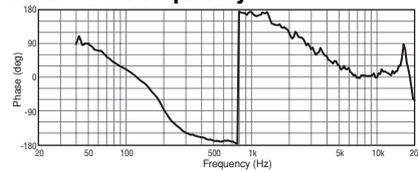
Polar Response



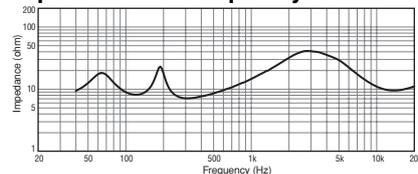
SPL vs. Frequency



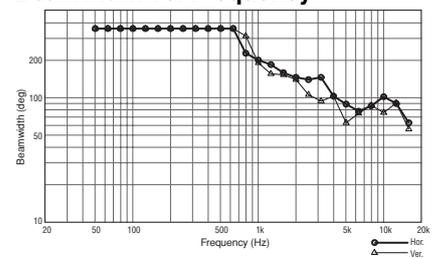
Phase vs. Frequency



Impedance vs. Frequency



Beamwidth vs. Frequency



SPECIFICATIONS

Model No.	F-1000B	F-1000W	F-1000BT	F-1000WT	F-1000BTWP*	F-1000WTWP*
Enclosure Type	Bass-reflex type					
Power Handling Capacity	30 W (continuous pink noise) 90 W (continuous program)			—		
Rated Input	—			15 W		
Rated Impedance	8 Ω		8 Ω		100V line: 670Ω (15W), 2 kΩ (5W), 3.3 kΩ (3W), 10 kΩ (1W) 70V line: 330Ω (15W), 670Ω (7.5W), 2 kΩ (2.5W), 3.3 kΩ (1.5W), 10 kΩ (0.5W)	
Sensitivity	87 dB (1W, 1m) at installation in 1/2 free sound field					
Frequency Response	85 – 20,000 Hz, -10 dB at installation in 1/2 free sound field					
Crossover Frequency	5kHz					
Directivity Angle	Horizontal: 90°, Vertical: 90°					
Speaker Component	Low frequency: 10 cm (4") cone-type High frequency: Balanced dome tweeter					
Input Terminal	Push-in terminal					
Water Protection	—				IPX4	
Operating Temperature	—				-10°C to +50°C (14°F to 122°F)	
Finish	Enclosure: HIPS resin, black Punched net: Surface-treated steel plate, black, paint Joint bracket, wall bracket: Steel plate, t1.6, black, paint Speaker bracket: Die-cast aluminum, black, paint	Enclosure: HIPS resin, white Punched net: Surface-treated steel plate, white, paint Joint bracket, wall bracket: Steel plate, t1.6, white paint Speaker bracket: Die-cast aluminum, white, paint	Enclosure: HIPS resin, black Punched net: Surface-treated steel plate, black, paint Joint bracket, wall bracket: Steel plate, t1.6, black, paint Speaker bracket: Die-cast aluminum, black, paint	Enclosure: HIPS resin, white Punched net: Surface-treated steel plate, white, paint Joint bracket, wall bracket: Steel plate, t1.6, white, paint Speaker bracket: Die-cast aluminum, white, paint	Enclosure: HIPS resin, black Punched net: Surface-treated steel plate, black, anticorrosive paint Joint bracket, wall bracket: Stainless steel (SUS304), t1.5 Speaker bracket: Die-cast aluminum, black, paint	Enclosure: HIPS resin, white Punched net: Surface-treated steel plate, white, anticorrosive paint Joint bracket, wall bracket: Stainless steel (SUS304), t1.5 Speaker bracket: Die-cast aluminum, white, paint
Dimensions	130 (W) x 202 (H) x 131 (D) mm (5.12" x 7.95" x 5.16")					
Weight	1.8 kg (3.97 lb) (including the supplied brackets)			2 kg (4.41 lb) (including the supplied brackets)		
Accessories	Speaker bracket x 1, Joint bracket x 1, Wall bracket x 1, Bracket fixing screw x 1 set				Speaker bracket x 1, Joint bracket x 1, Wall bracket x 1, Bracket fixing screw x 1 set, Terminal cover x 1, Terminal cover mounting screw x 4	
Options	Board hanger bracket: HY-BH10B Ceiling mount bracket: HY-CM10B Cluster bracket: HY-CL10B Speaker stand: ST-16A	Board hanger bracket: HY-BH10B Ceiling mount bracket: HY-CM10W Cluster bracket: HY-CL10B Speaker stand: ST-16A	Board hanger bracket: HY-BH10B Ceiling mount bracket: HY-CM10B Cluster bracket: HY-CL10B Speaker stand: ST-16A	Board hanger bracket: HY-BH10B Ceiling mount bracket: HY-CM10W Cluster bracket: HY-CL10B Speaker stand: ST-16A	Speaker mount bracket: YS-60B	
Recommended Subwoofer	HB-1, FB-10, FB-100					

* Note: Do not install the speaker at places where it is likely to be corroded such as bathroom, indoor pools or seaside.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

F-1000B / F-1000W

The speaker shall be a two-way bass reflex enclosure suitable for ceiling or wall mounting. The low frequency component shall be a 10 cm (4") cone-type woofer. The high frequency component shall be a balanced dome tweeter. For clear, wide-area sound coverage, the speaker shall 90° (H) x 90° (V) wide dispersion-angle high frequency horn.

The speaker shall come with separate HF and LF protection circuitry.

The speaker shall be rated at 8 ohms. The sensitivity at a distance of 1m with a 1 W input level applied shall be 87 dB. The rated power handling shall be 30 W continuous pink noise and 90 W continuous program. The speaker shall have a frequency response of 85 – 20kHz.

The speaker enclosure shall be constructed of HIPS resin. The speaker shall be available in white or black, and also be repaintable. The grille shall be a punched net, surface-treated steel plate. Brackets for speaker-stand, wall and ceiling installation shall be included.

There shall be also optionally available brackets for more demanding installations.

The unit shall be compact and lightweight with dimensions of 130 x 202 x 131 mm (5.12" x 7.95" x 5.16") and a weight of 1.8 kg (3.97 lbs).

The speaker shall be a TOA model F-1000B/F-1000W.

The board hanger bracket shall be the HY-BH10B.

The ceiling mount bracket shall be the HY-CM10B/HY-CM10W.

The cluster bracket shall be the HY-CL10B.

The subwoofer shall be the HB-1, FB-100 or FB-10.

F-1000BT / F-1000WT

The speaker shall be a two-way bass reflex enclosure suitable for ceiling or wall mounting. The low frequency component shall be a 10 cm (4") cone-type woofer. The high frequency component shall be a balanced dome tweeter. For clear, wide-area sound coverage, the speaker shall 90° (H) x 90° (V) wide dispersion-angle high frequency horn.

The rated input shall be 15 W. The speaker shall include a transformer having multiple taps (8Ω, 1 W, 3 W, 5 W, 15 W at 100 V and 0.5 W, 1.5 W, 2.5 W, 7.5 W, 15 W at 70 V) adjustable via the rear of the enclosure. The sensitivity at a distance of 1m with a 1 W input level applied shall be 87 dB. The speaker shall have a frequency response of 85 – 20kHz.

The speaker enclosure shall be constructed of HIPS resin. The speaker shall be available in white or black, and also be repaintable. The grille shall be a punched net, surface-treated steel plate. Brackets for speaker-stand, wall and ceiling installation shall be included.

There shall be also optionally available brackets for more demanding installations.

The unit shall be compact and lightweight with dimensions of 130 x 202 x 131 mm (5.12" x 7.95" x 5.16") and a weight of 1.8 kg (3.97 lbs).

The speaker shall be a TOA model F-1000BT/F-1000WT.

The board hanger bracket shall be the HY-BH10B.

The ceiling mount bracket shall be the HY-CM10B/HY-CM10W.

The cluster bracket shall be the HY-CL10B.

The subwoofer shall be the HB-1, FB-100 or FB-10.

F-1000BTWP / F-1000WTWP

The speaker shall be a two-way bass reflex enclosure suitable for ceiling or wall mounting. The low frequency component shall be a 10 cm (4") cone-type woofer. The high frequency component shall be a balanced dome tweeter. For clear, wide-area sound coverage, the speaker shall 90° (H) x 90° (V) wide dispersion-angle high frequency horn.

The rated input shall be 15 W. The speaker shall include a transformer having multiple taps (1 W, 3 W, 5 W, 15 W at 100 V and 0.5 W, 1.5 W, 2.5 W, 7.5 W, 15 W at 70 V) adjustable via the rear of the enclosure. The sensitivity at a distance of 1m with a 1 W input level applied shall be 87 dB. The speaker shall have a frequency response of 85 – 20kHz.

The speaker enclosure shall be constructed of HIPS resin. The speaker shall have a IEC 529 splash-proof rating of IPX4. The speaker shall have an operating temperature of -10° C to +50° C (14° F to 122° F). The speaker shall be available in white or black, and also be repaintable. The grille shall be a punched net, surface-treated steel plate with anticorrosive paint. Brackets for speaker-stand, wall and ceiling installation shall be included.

There shall be also optionally available brackets for more demanding installations.

The unit shall be compact and lightweight with dimensions of 130 x 202 x 131 mm (5.12" x 7.95" x 5.16") and a weight of 2 kg (4.41 lbs).

The speaker shall be a TOA model F-1000BTWP/F-1000WTWP.

The pole mount brackets shall be the YS-60B.

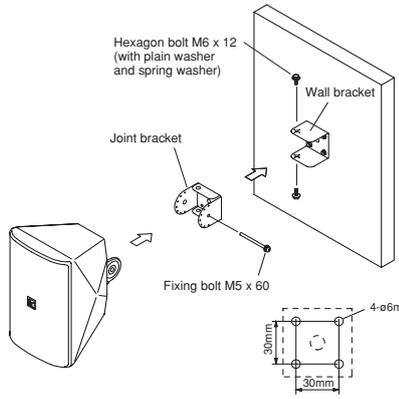
The subwoofer shall be the HB-1, FB-100 or FB-10.

WALL BRACKET AND JOINT BRACKET MOUNTING (ACCESSORY BRACKETS)

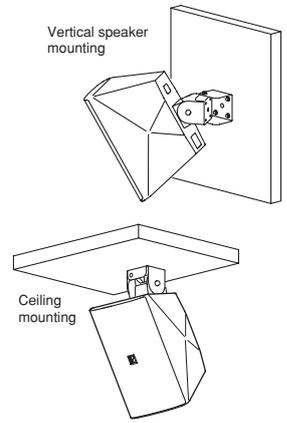
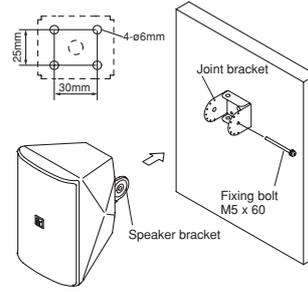
Wall bracket mounting

Vertical installation
Horizontal: Max. 82°
Vertical: Max. 45° downward

Horizontal installation
Horizontal: Max. 60°
Vertical: Max. 45° downward



Joint bracket mounting



OPTIONAL BRACKETS

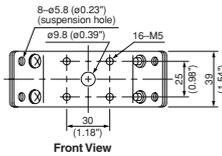
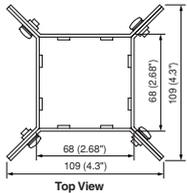
CLUSTER BRACKET

for indoor use



HY-CL10B

- **Finish:** Steel plate, black, paint
- **Dimensions:** 109.3 (W) × 39 (H) × 109.3 (D)mm (4.3" × 1.54" × 4.3")
- **Weight:** 380g (0.84 lb)



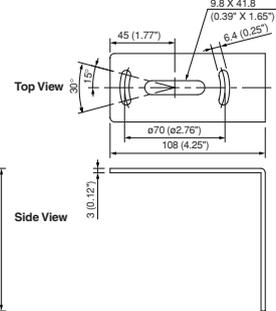
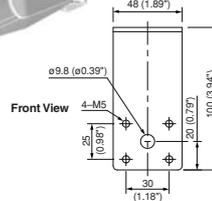
CEILING MOUNT BRACKET

for indoor use



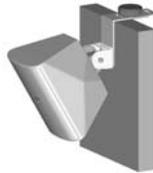
HY-CM10B/W

- **Finish:** Steel plate, black, paint (HY-CM10W: white, paint)
- **Dimensions:** 48 (W) × 100 (H) × 108 (D)mm (1.89" × 3.94" × 4.25")
- **Weight:** 210g (0.46 lb)



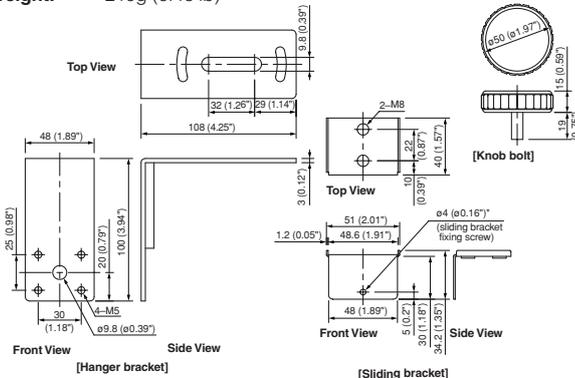
BOARD HANGER BRACKET

for indoor use



HY-BH10B

- **Finish:** Steel plate, black, paint
- **Dimensions:** 48 (W) × 100 (H) × 108 (D)mm (1.89" × 3.94" × 4.25") (excluding knob bolt)
- **Weight:** 210g (0.46 lb)

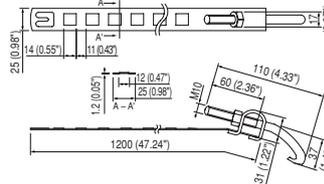


POLE MOUNT BRACKET



YS-60B

- **Applicable Pole:** Approx. ø90 (ø3.5") to ø340 (ø13.4") mm
- **Finish:** Electroless zinc-plated
- **Weight:** 360g (0.79lb.) (per band)
- **Product Composition:** Mounting band x 2



TOA Corporation

www.toa.jp

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Specifications are subject to change without notice.
(1106) 833-61-657-7A u

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