F-1300 Series
Wide-Dispersion Speakers

DESCRIPTION
The TOA F-1300 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 (110° x 100°) 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
• 110° x 100° 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-1300BTWP/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: 90dB (1W, 1m)
## WALL BRACKET AND JOINT BRACKET MOUNTING

### Vertical installation
- Horizontal: Max. 49°
- Vertical: Max. 45°

### Horizontal installation
- Horizontal: Max. 49°
- Vertical: Max. 45°

### Horizontal speaker mounting (indoor installation 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.

### TERMINAL COVER USE (F-1000B/TP/W/TPW only)

- Screwed onto the Terminal cover at the factory.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>F-1300B</th>
<th>F-1300BT</th>
<th>F-1300WT</th>
<th>F-1300BTWP*</th>
<th>F-1300WTWP*</th>
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</thead>
<tbody>
<tr>
<td>Enclosure Type</td>
<td>bass-reflex type</td>
<td></td>
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<tr>
<td>Power Handling Capacity</td>
<td>50 W (continuous pink noise)</td>
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<tr>
<td></td>
<td>150 W (continuous program)</td>
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<tr>
<td>Rated Input</td>
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<tr>
<td></td>
<td>50 W</td>
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<tr>
<td>Rated Impedance</td>
<td>8 Ω</td>
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<tr>
<td></td>
<td>100V line: 330Ω (30W), 1 kΩ (10W), 3.3 kΩ (5W), 10 kΩ (1W)</td>
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<tr>
<td></td>
<td>70V line: 1/7Ω (30W), 3.3 kΩ (5W), 1 kΩ (1W), 3.3 kΩ (1.5W)</td>
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<tr>
<td>Sensitivity</td>
<td>90 dB (1W, 1m) at installation in 1/2 free sound field</td>
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<tr>
<td>Frequency Response</td>
<td>20 – 20,000 Hz, −10 dB at installation in 1/2 free sound field</td>
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<tr>
<td>Crossover Frequency</td>
<td>2 kHz</td>
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<tr>
<td>Directivity Angle</td>
<td>Horizontal: 110°, Vertical: 100°</td>
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<tr>
<td>Speaker Component</td>
<td>Low frequency: 13 cm (5&quot;) cone-type</td>
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<td></td>
<td>High frequency: 25 mm (1&quot;) dome tweeter</td>
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<tr>
<td>Input Terminal</td>
<td>Push-in terminal</td>
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<tr>
<td>Water Protection</td>
<td>IPX4</td>
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<tr>
<td>Operating Temperature</td>
<td>−10°C to +50°C (14°F to 122°F)</td>
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<tr>
<td>Dimensions</td>
<td>162 W x 250 H x 161 B (mm) [6.38&quot; x 9.84&quot; x 6.34&quot;]</td>
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<tr>
<td>Weight</td>
<td>3.1 kg (6.8 lb) (including the supplied brackets)</td>
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<td></td>
<td>6.5 kg (14.4 lb) (including the supplied brackets)</td>
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<tr>
<td>Accessories</td>
<td>Speaker bracket x 1, Joint bracket x 1, Wall bracket x 1, Bracket fixing screw x 1 set.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>Option</td>
<td>Board hanger bracket: HY-4H10B</td>
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<td></td>
<td>Ceiling mount bracket: HY-CM10B</td>
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<td></td>
<td>Cluster bracket: HY-CL10B</td>
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<td>Speaker stand: ST-10A</td>
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<tr>
<td>Recommend Subwoofer</td>
<td>FB-100, FB-130B/120W (indoor use only)</td>
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<td></td>
<td>* Screwed onto the Terminal cover at the factory.</td>
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</table>

*Note: Avoid installing the speakers in locations close to the seashore or in indoor swimming facilities.*
ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

F-1300B / F-1300W
The speaker shall be a two-way bass reflex enclosure suitable for ceiling or wall mounting. The low frequency component shall be a 13 cm (5") cone-type woofer. The high frequency component shall be a 25 mm (1") dome tweeter. For clear, wide-area sound coverage, the tweeter shall be 110° (H) x 100° (V) wide dispersion-angle high frequency horn.

The unit shall be compact and lightweight with dimensions of 161 mm (6.34") and a weight of 3.1 kg (6.83 lbs).

The speaker shall have a sensitivity at a distance of 1 m with 1 W of input level applied of 90 dB. The rated power handling shall be 50 W at 100 V.

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

The board hanger bracket shall be the HY-BH10B.

The ceiling mount bracket shall be the HY-CM10B.

The cluster bracket shall be the HY-CL10B.

The subwoofer shall be the FB-100 or FB-120B/120W.

F-1300BT / F-1300WT
The speaker shall be a two-way bass reflex enclosure suitable for ceiling or wall mounting. The low frequency component shall be a 13 cm (5") cone-type woofer. The high frequency component shall be a 25 mm (1") dome tweeter. The tweeter shall be 110° (H) x 100° (V) wide dispersion-angle high frequency horn.

The rated input shall be 30 W. The speaker shall include a transformer having multiple taps (8Ω, 1 W, 3 W, 10 W, 30 W at 100 V and 0.5 W, 1.5 W, 5 W, 15 W, 30 W at 70 V) adjustable via the rear of the enclosure. The sensitivity at a distance of 1 m with 1 W of input level applied shall be 90 dB. The speaker shall have a frequency response from 80 to 20 kHz.

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 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 162 x 250 x 161 mm (6.38" x 9.84" x 6.34") and a weight of 3.1 kg (6.83 lbs).

The speaker shall be a TOA model F-1300BT/F-1300WT.

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 FB-100 or FB-120B/120W.

F-1300BTWP / F-1300WTWP
The speaker shall be a two-way bass reflex enclosure suitable for ceiling or wall mounting. The low frequency component shall be a 13 cm (5") cone-type woofer. The high frequency component shall be a 25 mm (1") dome tweeter. The tweeter shall be 110° (H) x 100° (V) wide dispersion-angle high frequency horn.

The rated input shall be 30 W. The speaker shall include a transformer having multiple taps (1 W, 3 W, 10 W, 30 W at 100 V and 0.5 W, 1.5 W, 5 W, 15 W, 30 W at 70 V) adjustable via the rear of the enclosure. The sensitivity at a distance of 1 m with 1 W of input level applied shall be 90 dB. The speaker shall have a frequency response from 80 to 20 kHz.

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 pole mount bracket. The unit shall be compact and lightweight with dimensions of 162 x 250 x 161 mm (6.38" x 9.84" x 6.34") and a weight of 3.6 kg (7.94 lbs).

The speaker shall be a TOA model F-1300BTWP/F-1300WTWP.

The pole mount bracket shall be the YS-60B.
### 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)

### 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)

### 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)

### POLE MOUNT BRACKET

**YS-60B**
- **Applicable Pole:** Approx. ø90 (ø3.5") to ø340 (ø13.4") mm
- **Finish:** Electroless zinc-plated
- **Weight:** 360g (0.79 lb.) (per band)
- **Product Composition:** Mounting band x 2

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*Specifications are subject to change without notice.*

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