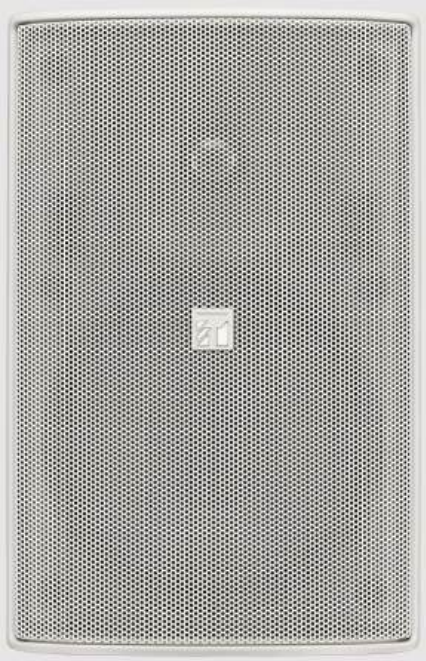
F-1300WT

SPEAKER SYSTEM



The F-1300 Series Speaker are compact two-way speaker systems designed for high efficiency, wide range, and high power input handling capability. These speaker systems can be installed in a manner ideal for the location and intended application.

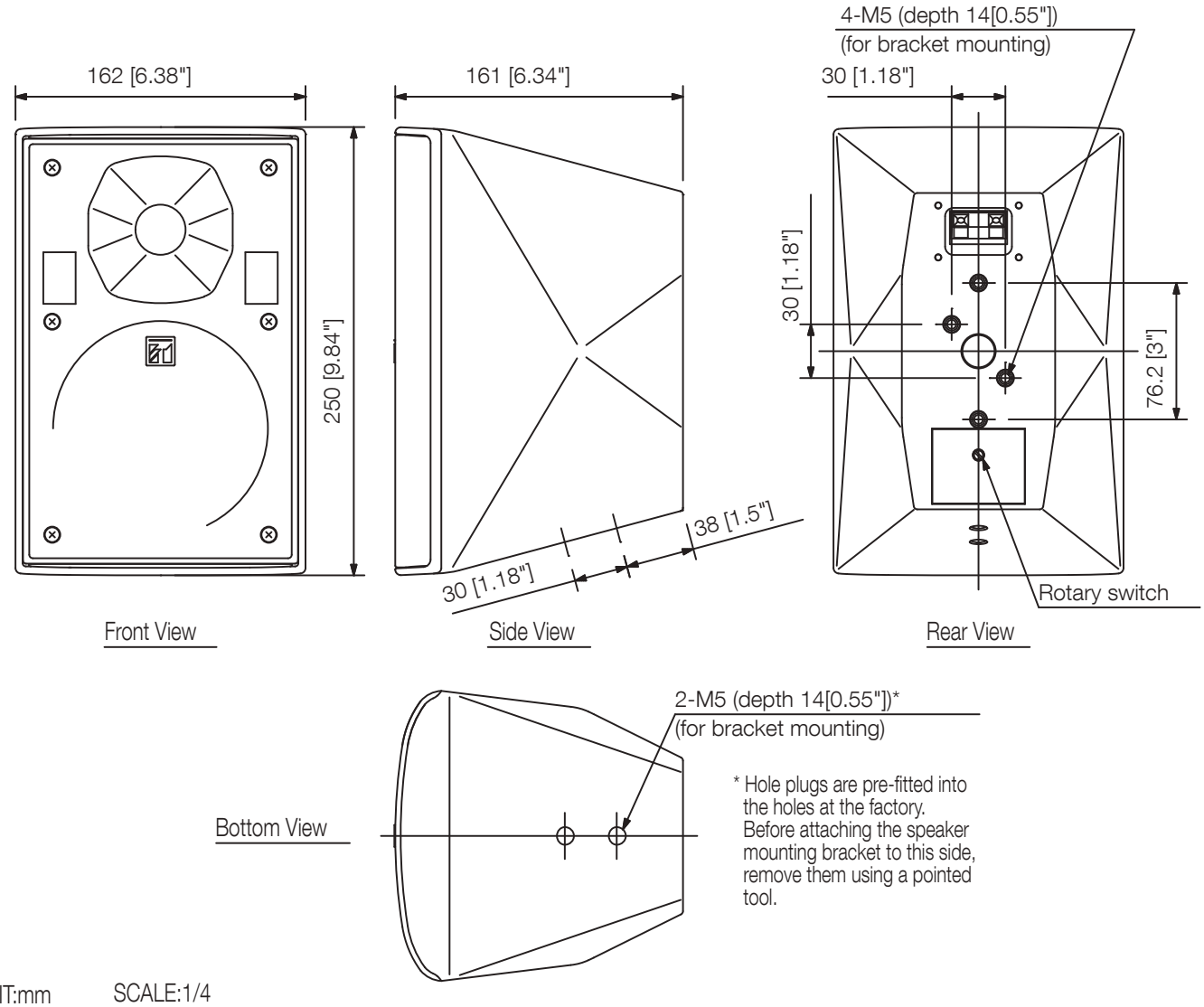
Key features

- Compact wide-dispersion speaker
- Up to 150 W continuous program
- Dispersion angle of 90° x 90°
- 2-way speaker with high quality 13 cm woofer and balanced dome tweeter
- Paintable

Specifications

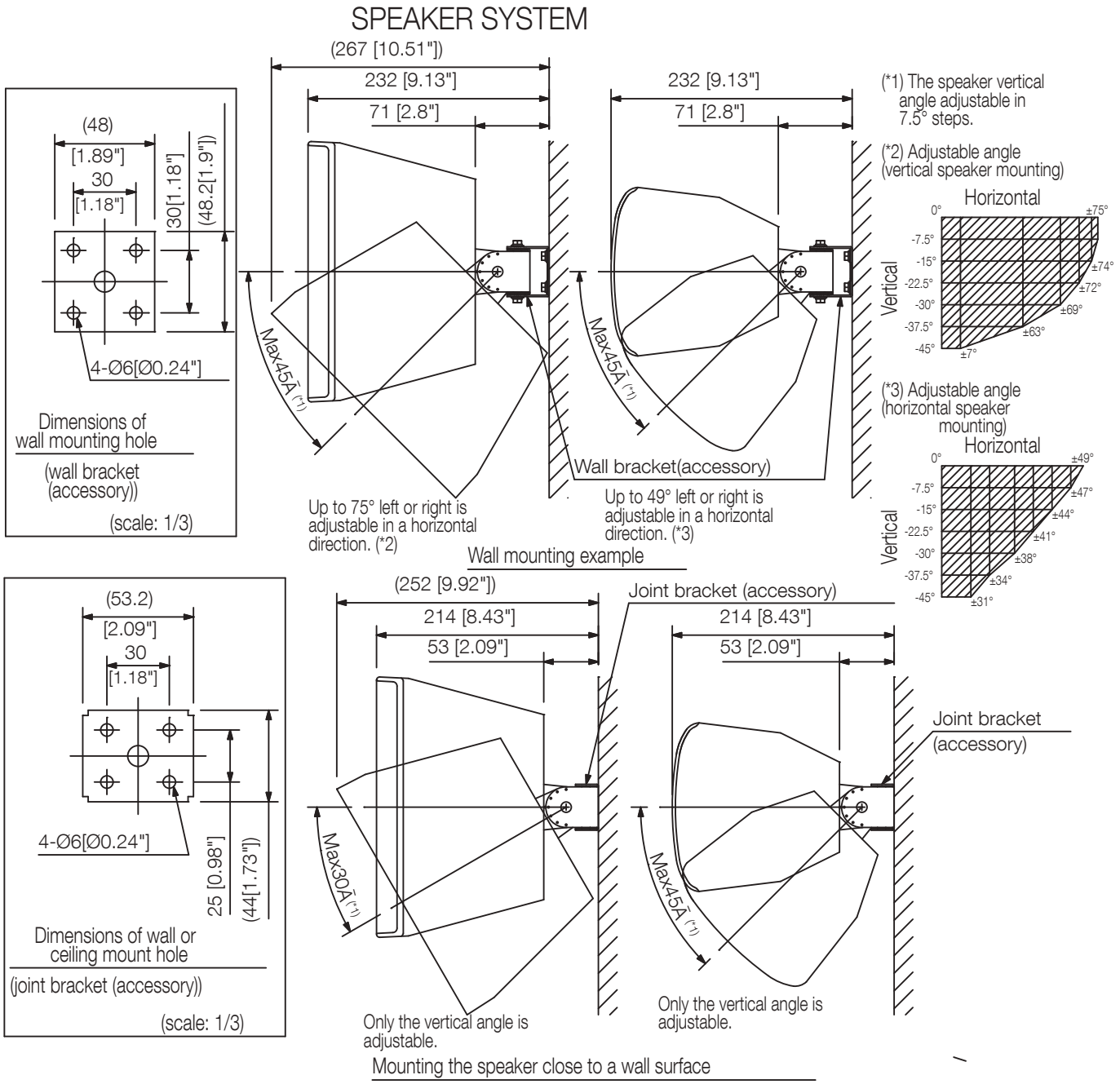
Enclosure	Bass-reflex type
Rated Input	30 W (high impedance)
Power Handling	Continuos pink noise: 50 W (low impedance) Continuos program: 150 W (low impedance)
Rated Impedance	8 Ω 100 V line: 330 Ω (30 W), 1 kΩ (10 W), 3.3 kΩ (3 W), 10 kΩ (1 W) 70 V line: 170 Ω (30 W), 330 Ω (15 W), 1 kΩ (5 W), 3.3 kΩ (1.5 W), 10 kΩ (0.5 W)
Sensitivity	90 dB (1 W, 1 m) at installation in 1/2 free sound field
Frequency Response	80 Hz - 20 kHz, -10 dB at installation in 1/2 free sound field
Crossover Frequency	2 kHz
Directivity Angle	Horizontal: 110°, Vertical: 100°
Speaker Component	Low frequency: 13 cm (5) cone-type High frequency: 25 mm (1) dome tweeter
Input Terminal	Push-in terminal
Finish	Enclosure: HIPS, 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
Dimensions	162 (W) x 250 (H) x 161 (D) mm (6.38 x 9.84" x 6.34")
Weight	3.6 kg (7.94 lb) (including the supplied brackets)
Included Accessories	Speaker bracket…1, Joint bracket…1, Wall bracket…1, Bracket fixing screw…1 set
Optional Accessories	Board hanger bracket: HY-BH10B, Ceiling mount bracket: HY-CM10W (used for the horizontal speaker mounting), Cluster bracket: HY-CL10B, Speaker stand: ST-16A

Dimensions

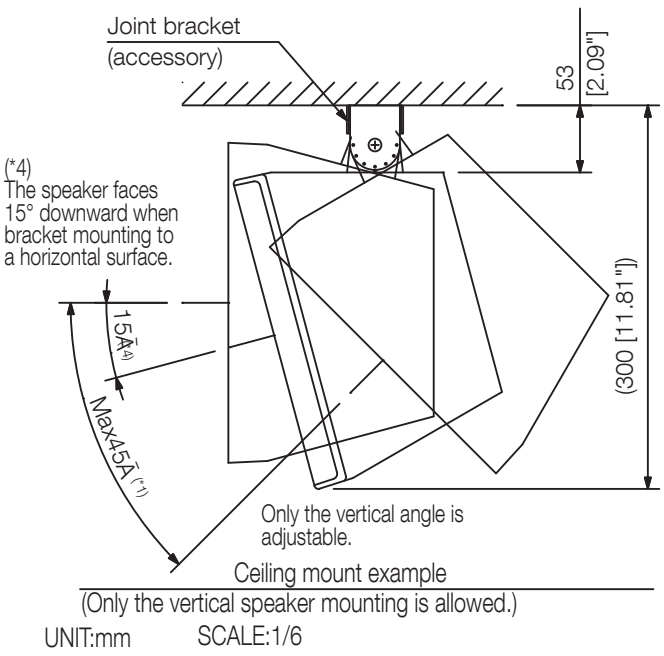


UNIT:mm SCALE:1/4

Dimensions

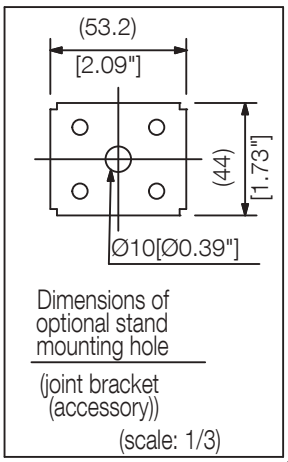

SPEAKER SYSTEM
(267 [10.51"])
232 [9.13"]
71 [2.8"]
232 [9.13"]
71 [2.8"]
(*1) The speaker vertical angle adjustable in 7.5° steps.
(*2) Adjustable angle (vertical speaker mounting)
Horizontal
Vertical
0°
-7.5°
-15°
-22.5°
-30°
-37.5°
-45°
±75°
±74°
±72°
±69°
±63°
±7°
(*3) Adjustable angle (horizontal speaker mounting)
Horizontal
Vertical
0°
-7.5°
-15°
-22.5°
-30°
-37.5°
-45°
±49°
±47°
±44°
±41°
±38°
±34°
±31°
(48)
[1.89"]
30
[1.18"]
30[1.18"]
(48.2[1.9"])
4-Ø6[Ø0.24"]
Dimensions of wall mounting hole
(wall bracket (accessory))
(scale: 1/3)
Max45A (*1)
Max45A (*1)
Wall bracket(accessory)
Up to 75° left or right is adjustable in a horizontal direction. (*2)
Up to 49° left or right is adjustable in a horizontal direction. (*3)
Wall mounting example
(53.2)
[2.09"]
30
[1.18"]
4-Ø6[Ø0.24"]
25 [0.98"]
(44[1.73"])
Dimensions of wall or ceiling mount hole
(joint bracket (accessory))
(scale: 1/3)
(252 [9.92"])
214 [8.43"]
53 [2.09"]
Joint bracket (accessory)
214 [8.43"]
53 [2.09"]
Joint bracket
(accessory)
Max30A (*1)
Max45A (*1)
Only the vertical angle is adjustable.
Only the vertical angle is adjustable.
Mounting the speaker close to a wall surface

Dimensions

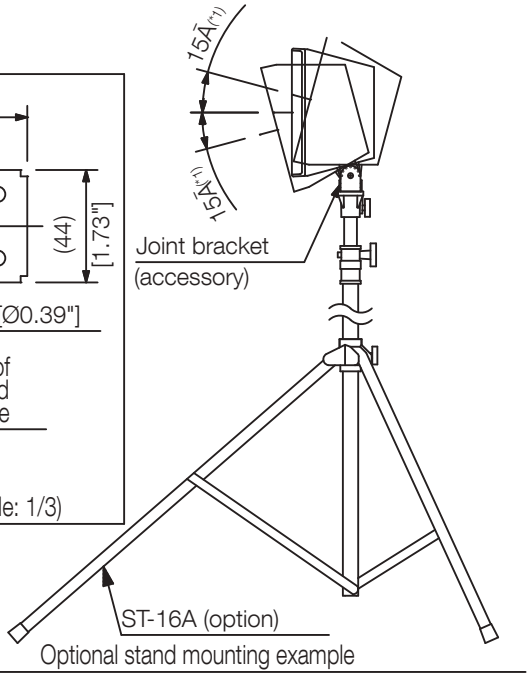


Ceiling mount example
(Only the vertical speaker mounting is allowed.)

UNIT:mm SCALE:1/6



Dimensions of
optional stand
mounting hole
(joint bracket
(accessory))
(scale: 1/3)



Optional stand mounting example
(Only the vertical speaker mounting is allowed.)
(scale: 1/15)

A&E specifications

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 speaker 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 20k Hz.
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 3.6 kg (7.94 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-120B/120W.