H-2WP EX

SPEAKER SYSTEM



Designed for outdoor-use applications, the H-2WP is a dome-shaped, small surface-mount 2-way speaker that ensures quality sound reproduction. The angle of speaker can be adjusted for 360 degrees parallel to the mounting surface. (For the installation on walls, however, keep the speaker facing down within 45 degrees left and right each.)

Key features

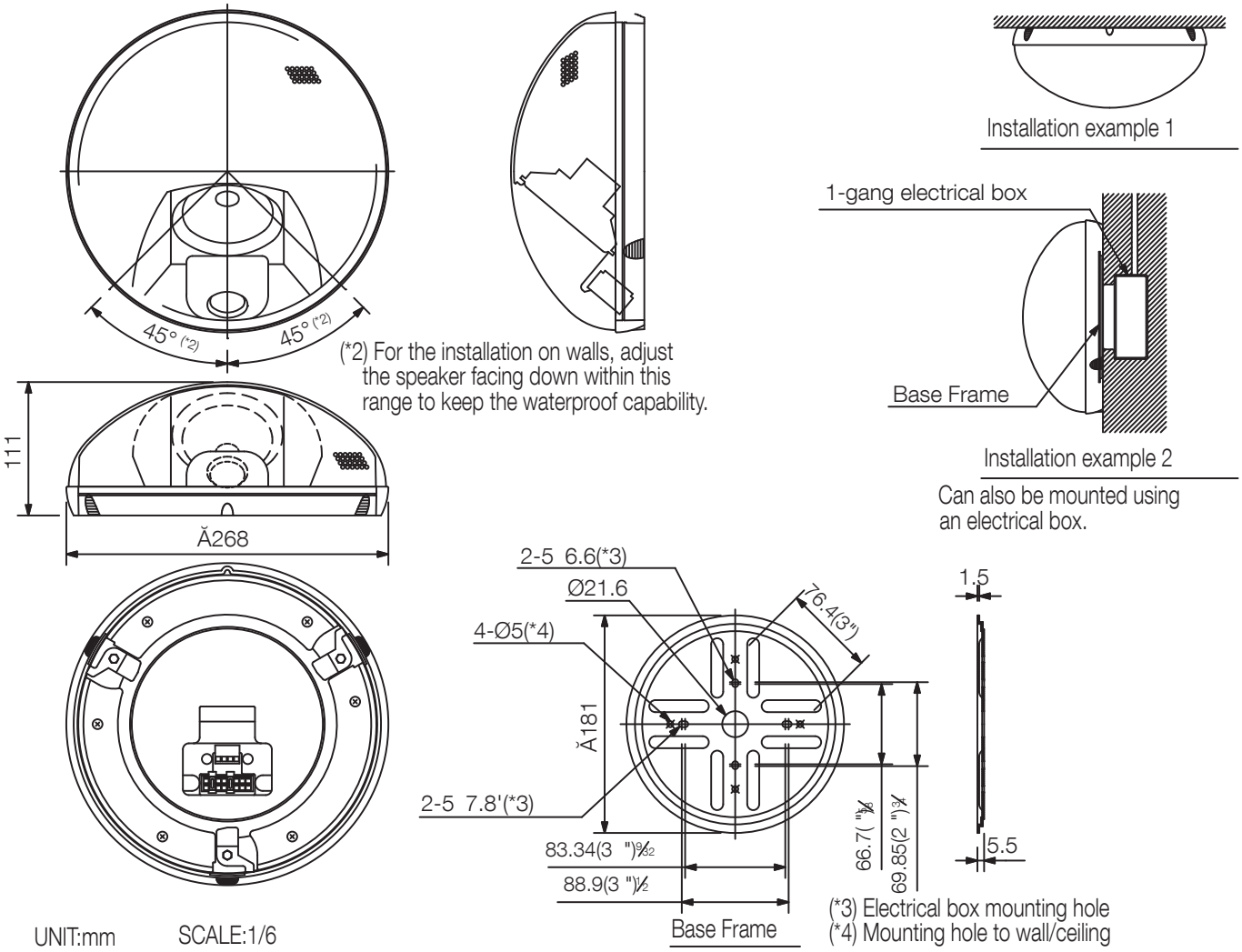
- 2-way design speaker
- Ferrofluid-cooled balanced dome tweeters, neodymium magnet cone woofers
- Narrow coverage area allows a controlled sound
- Sound direction can be adjusted within 360°
- High power handling of 120 W (continuous program)
- Fire-rated ABS enclosure (UL 94-V0)
- Weatherproof IP64 certified

Specifications

Enclosure	Sealed type
Rated Input	12 W (16 Ω, high impedance)
Power Handling	120 W (continuous program/4 Ω), 40 W (continuous pink noise/4 Ω)
Rated Impedance	4 Ω, 16 Ω 100 V line: 830 Ω (12 W), 1.7 kΩ (6 W), 3.3 kΩ (3 W) 70 V line: 420 Ω (12 W), 830 Ω (6 W), 1.7 kΩ (3 W), 3.3 kΩ (1.5 W)
Sensitivity	88 dB (1 W, 1 m) at installation in 1/2 free sound field (Measured by installing the unit in the center of a wall.)
Frequency Response	100 Hz - 20 kHz
Speaker Component	Low frequency: 10 cm cone-type, High frequency: Balanced dome-type
Input Terminal	Detachable screw terminal, (+)/(-) 2 each (for bridging connection)
Cable Requirements	Solid cable, stranded cable: 0.2 - 2.5 mm^2 (AWG No. 24 - 14 equivalent)
Dust/Water Protection	IP64
Installation Environment	Indoor installation, under-eave installation(*1)
Operating Temperature	-10 °C to +50 °C
Finish	Punched net: Steel plate (zinc plating), white, powder coating Frame: Fire-resistant ABS, white, paint Base frame: Stainless plate
Dimensions	Ø268 x 111 mm
Weight	2.1 kg (including base frame)
Included Accessories	Base frame x 1, Electrical box mounting screw x 1 set
Recommended Electrical Box	1-gang type (with cover)(*2)
Other Feature	Angle of speaker: 360 degrees adjustable in parallel to the mounting surface. (The angle should be kept within 45 degrees left and right each in a downward direction for the wall installation)

(*1) Avoid installing the speaker in locations close to the seashore or in indoor swimming facilities that are not well ventilated. In such locations, the bracket may be vulnerable to corrosion, eventually allowing the speaker to fall resulting in personal injury.
(*2) Without using an electrical box, mounting the supplied base frame directly to a wall or ceiling allows the speaker installation.

Dimensions


45° (*2)
45° (*2)
(*2) For the installation on walls, adjust the speaker facing down within this range to keep the waterproof capability.
111
Ă268
Installation example 1
1-gang electrical box
Base Frame
Installation example 2
Can also be mounted using an electrical box.
2-5 6.6(*3)
Ø21.6
4-Ø5(*4)
Ă181
2-5 7.8'(*3)
83.34(3 ")
88.9(3 ")
Base Frame
76.4(3")
66.7(
69.85(2 ")
1.5
5.5
(*3) Electrical box mounting hole
(*4) Mounting hole to wall/ceiling
UNIT:mm
SCALE:1/6

A&E specifications

The loudspeaker shall be a two-way, sealed enclosure suitable for wall or ceiling mounting with an external appearance that is aesthetically pleasing and blends well with surrounding building architecture and fixtures. Loudspeakers requiring visible external mounting brackets shall not be acceptable. The loudspeaker shall utilize high quality components. The high frequency component shall be a 1" balanced dome tweeter; Ferrofluid-cooled for high power handling, The low frequency component shall be a 4” cone woofer with Neodymium magnet for improved low frequency response. The speaker shall employ a high quality internal passive crossover circuit with optimized filter slopes and a crossover frequency of 5k Hz. The loudspeaker shall have a smooth frequency response from 100 to 20k Hz. The output sound pressure level at a distance of 1 m with 1 W of input power applied shall be 88 dB SPL. The rated power handling (Continuous Program) shall be 120 W (4 ohms) and 12 W with matching transformer. The loudspeaker shall be compatible with low and high impedance speaker systems and shall include a built-in 70.7/100 V matching transformer with the following selectable tap settings: 12 W, 6 W, 3 W, 1.5 W (70.7 V) and 12 W, 6 W, 3 W (100 V). The speaker shall also have selectable impedance settings of 4 ohms and 16 ohms. The loudspeaker shall include a removable terminal block connector, screw terminal type, with loop-through terminations and accept AWG #14 - #24. An internal protection circuit shall prevent damage to components in an overload condition. Once activated, the circuit shall reduce the input signal and reset automatically after approximately thirty seconds once overload condition is removed. The loudspeaker grille material shall be rolled steel plate (H-2) / stainless steel (H-2WP) with a paintable white finish. The loudspeaker grille frame shall be fire-resistant ABS resin (H-2) / AES resin (H-2WP) with a paintable white finish. Dimensions shall be 10.55" x 4.37” (268 x 111 mm). The speaker shall weight 4.63 lbs. (2.1 kg).
The loudspeaker shall be TOA model H-2 / H-2WP.