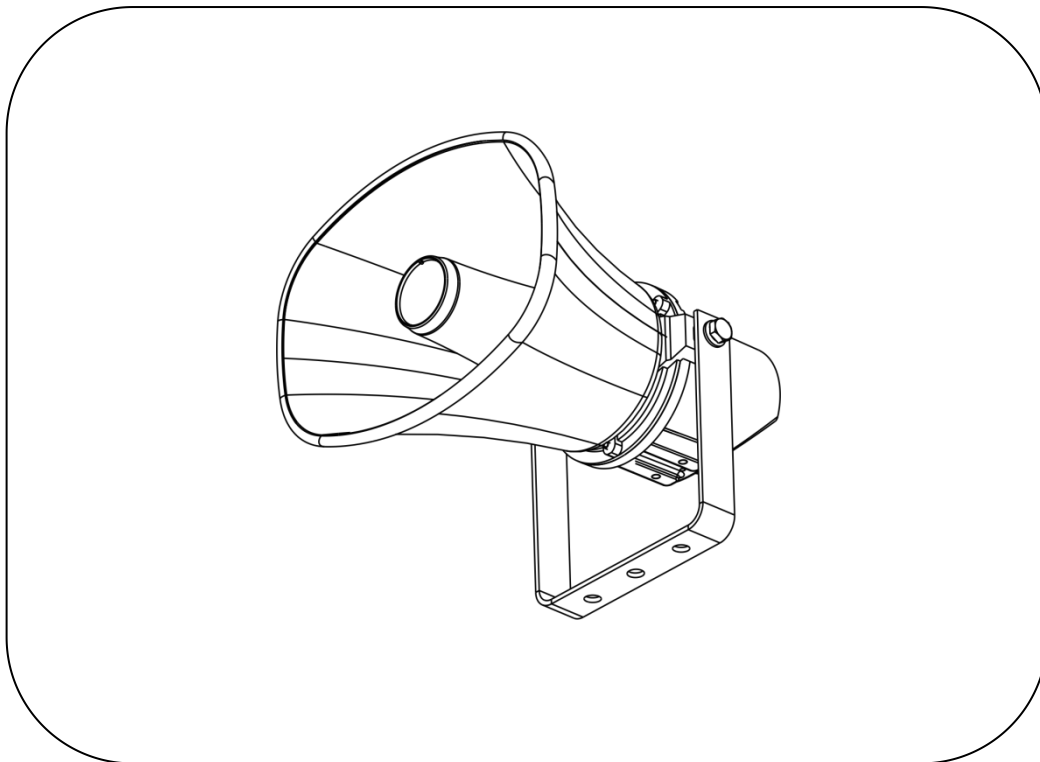




User's Manual

Active Horn Speaker

SC-PE615



Thank you very much for purchasing this TOA product.

Please read the instructions carefully to ensure long-term, and trouble-free operation of the unit.

TOA Corporation

CONTENTS

1. SAFETY PRECAUTIONS.....	3
2. NOMENCLATURE AND FUNCTIONS.....	5
3. INSTALLATION PRECAUTIONS.....	6
4. DIMENSIONAL DRAWINGS.....	7
5. APPENDIX.....	8
5.1 Specifications	8

1. SAFETY PRECAUTIONS.

- Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation
- Be sure to follow all the precautionary instructions in this section, which contain important warnings and/or cautions regarding safety.
- After reading, keep this manual handy for future reference.

Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety hazards.

WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.

When Installing the Speaker

- Install the speaker only in a location that can structurally support the weight of the speaker and the mounting bracket. Doing otherwise may result in the speaker falling down and causing personal injury and/or property damage.
- Use the speaker only with the voltage specified on the speaker. Using a voltage higher than that which is specified may result in fire or electric shock.
- When installing the speaker in the snowy area, take appropriate measures to prevent snow from lying on the speaker. If the snow lies on the speaker, the speaker may fall, causing personal injuries.
- Do not use other methods than specified to mount the bracket. Extreme force is applied to the speaker and the speaker could fall off, possibly resulting in personal injuries.
- Attach the safety wire to the speaker. If not attached, the speaker could fall off, resulting in personal injury.
- Use nuts and bolts that are appropriate for the ceiling's or wall's structure and composition. Failure to do so may cause the speaker to fall, resulting in material damage and possible personal injury.
- Tighten each nut and bolt securely. Ensure that the bracket has no loose joints after installation to prevent accidents that could result in personal injury.
- Do not mount the speaker in locations exposed to constant vibration. The mounting bracket can be damaged by excessive vibration, potentially causing the speaker to fall, which could result in personal injury.
- Do not use anti-rust lubricant. If it contacts resin or rubber parts, they could deteriorate and cause the speaker to fall, possibly resulting in personal injury.

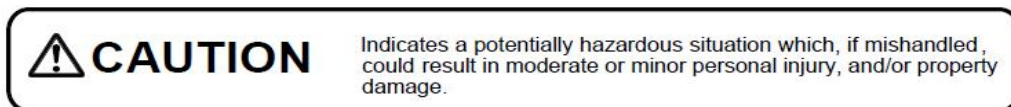
When the Speaker is in Use

- Should the following irregularity be found during use, immediately cut off the power supply from a DC-input and a PoE switching hub and contact your nearest TOA dealer. Make no further attempt to operate the speaker in this condition as this may cause fire or electric shock.
 - If you detect smoke or a strange smell coming from the speaker.

- If water or any metallic object gets into the speaker.
- If the speaker falls, or the speaker case breaks.
- If the LAN cable is damaged (exposure of the core, disconnection, etc.)
- If the speaker suddenly stops producing sound.
- To prevent a fire or electric shock, never open nor remove the speaker case as there are high voltage components inside the speaker. Refer all servicing to qualified service personnel.
- Do not touch the speaker and LAN cable during thunder and lightning, as this may result in electric shock.

CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.



When Installing the Speaker

- Avoid installing the speaker in humid or dusty locations, in locations exposed to the direct sunlight, near the heaters, or in locations generating sooty smoke or steam as doing otherwise may result in fire or electric shock.
- To avoid electric shocks, be sure to unplug the speaker's power supply cord when connecting speakers.

When the Speaker is in Use

- Do not operate the Speaker for an extended period of time with the sound distorting. This is an indication of a malfunction, which in turn can cause heat to generate and result in a fire.
- Have the speaker checked periodically by the dealer from where it was purchased. Failure to do so may result in corrosion or damage to the speaker or its mounting bracket that could cause the speaker to fall, possibly causing personal injury.

IMPORTANT NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

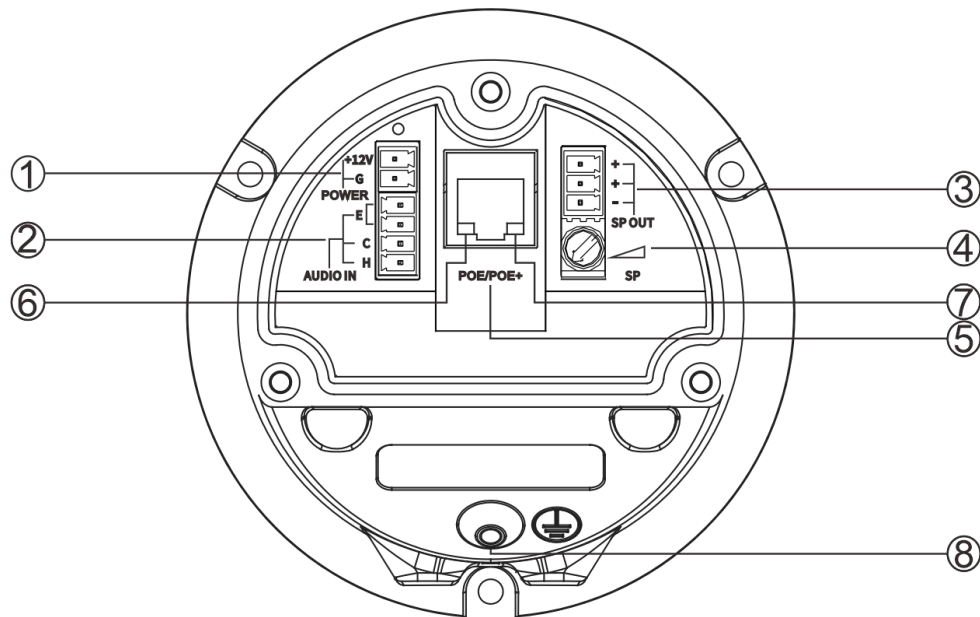
However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2. NOMENCLATURE AND FUNCTIONS.

[Rear]



1. DC Power input terminal [DC IN 12V]

Connect the DC power to this terminal.

2. Audio input terminal

Electronically-balanced 10k Ω , -6dB, Terminal connectors.

3. Speaker output terminals

Output specification are shown in the table as follows

Rated Output	DC12V	7.5 W
	IEEE802.3at (PoE+)	10 W
	IEEE802.3af (PoE)	5 W
Impedance	8 Ω	

4. Speaker volume control

Adjust the volume of the speaker and the external speaker connected via the speaker output terminal.

5. PoE+ / PoE port

Connect to a PoE+ / PoE switching hub using a LAN cable to get power supply.

6. Power Indicator (Orange)

Lights when the power is supplied on and goes off when it is powered off.

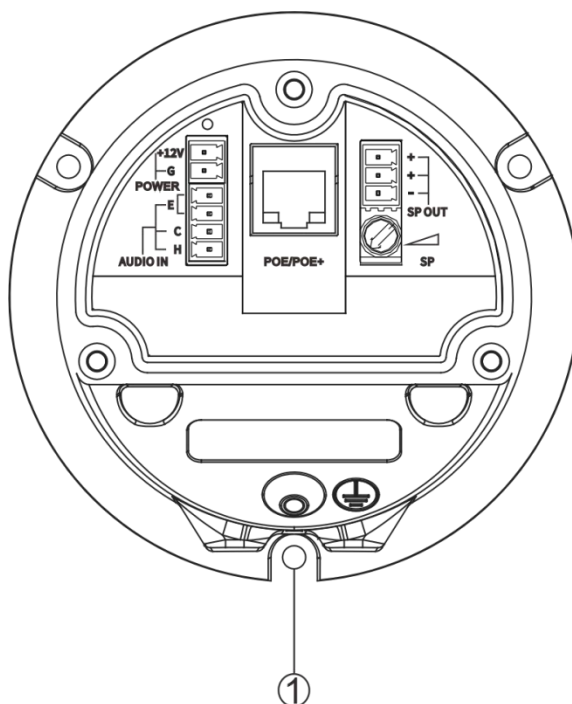
7. Audio input status indicator (Green)

Light when a signal is input to audio input.

8. Functional ground terminal

Noise may be generated when external equipment is connected to the speaker. In this case, connect this terminal to the functional ground terminal of the external equipment, and the noise may be reduced.

[Bottom]

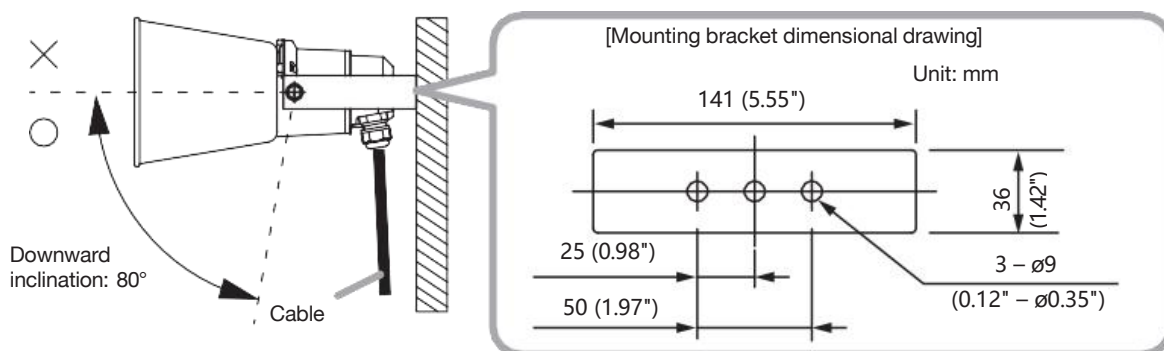


1. Power Indicator (Green)

Lights when the power is supplied on and goes off when it is powered off.

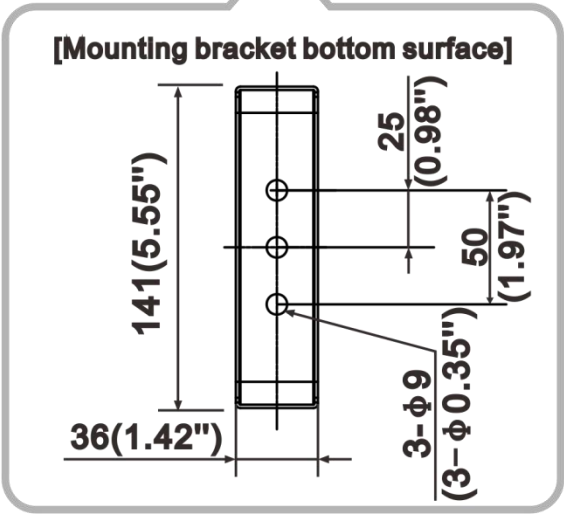
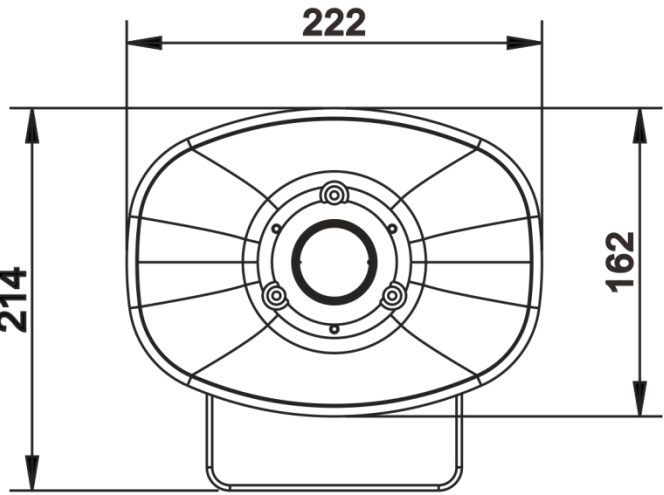
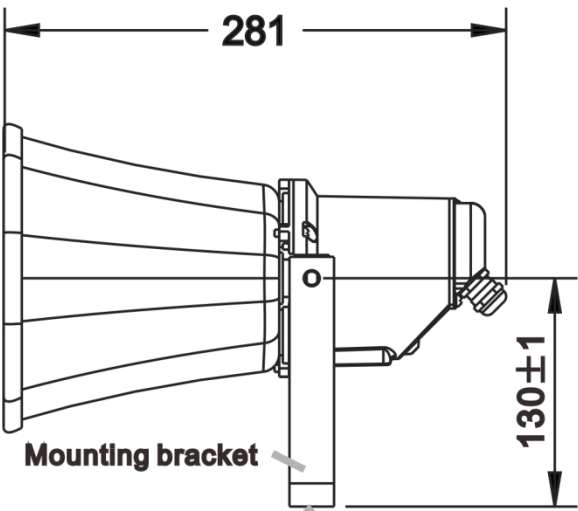
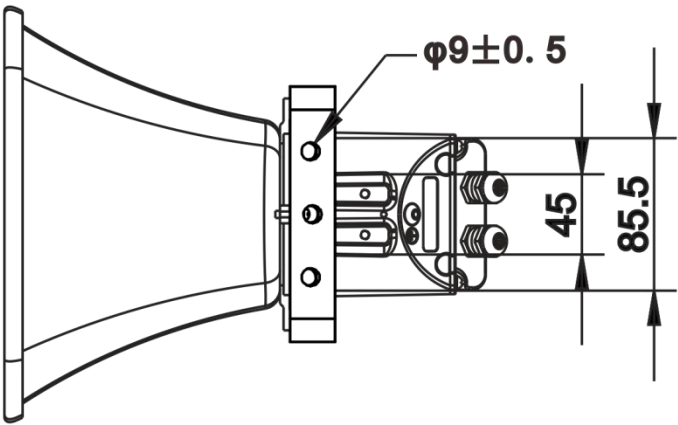
3. INSTALLATION PRECAUTIONS.

Mount the speaker so that its downward inclination is within 80° of horizontal, and the cable inlet is facing downward, as shown in the figure below.



4. DIMENSIONAL DRAWINGS.

Unit:mm



5. APPENDIX.

5.1 Specifications

SC-PE615 Active Horn Speaker

Power Source	DC12V/ DC24V (9V~29V) PoE+ (IEEE802.3at) PoE (IEEE802.3af)
Power Consumption	35 W or less (Rated output) 4 W or less (Standby)
Maximum Sound Pressure level	115dB±3dB
Sensitivity	105dB±3dB(1W, 1m)
Standby Power	≤4W
Rated output to Speaker	7.5 W (at DC12V powered) 10W (at PoE+ powered) 5W (at PoE powered)
Rated output for Speaker output	7.5 W (at DC12V powered) 10W (at PoE+ powered) 5W (at PoE powered)
Signal to Noise Ratio	≥85dB (Speaker output)
Frequency Response	280HZ-12.5KHZ (Speaker output)
Distortion	0.5 % or less
Audio Input	-6dB, 10k Ω electronically-balanced, removable terminal block (3 pins)
Speaker output	Low impedance (8 Ω)
PoE / PoE+ Interface	RJ-45
Indicators	Power indicator LED (Rear side / Bottom side) Audio input indicator LED
Dust / Water protection	IP66
Operating Temperature	-20℃ ~+50℃
Operating Humidity	10% — 90%RH (no condensing)
Finish	Horn flare: Aluminum, Off-white, powder coating Reflector horn and rear cover: Aluminum, off-white, powder coating Cable Gland: Nickel plated copper Brackets, screws, and bolts: Stainless steel
Dimensions	222 (W) x 162 (H) x 281 (D) mm
Weight	1.35 kg(2.98lb)
Accessories	Removable terminal plug (2 pins) ...1pcs Removable terminal plug (4 pins) ...1pcs Removable terminal plug (3 pins) ...1pcs

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