



Voice Evacuation System

Wall Mount Speaker

DSP217EN



User Manual

Thanks for using our Voice Evacuation System! Please read the Instructions carefully before operating this device.

Guangzhou DSPPA Audio Co., Ltd.

<http://www.dsppatech.com>

This page is left for users notes

About the Instructions

The Instructions is used at the date when the Ceiling Speaker is developed. It contains system introduction, operation attentions, system connection instructions, product instructions and other contents of the Ceiling Speaker. The user shall read the Instructions carefully and operate the device following the indications in the Instructions before the installation and operation of the device.



Any symbol marked on the rear panel of this machine must be noted. The operations must be performed according to the instructions of these symbols.

Please keep the Instructions for future reference!



WARNING

Be sure to observe the following cautions to prevent the damage to the users and others, and the damage to the equipment or property!



This symbol means a “prohibition”.

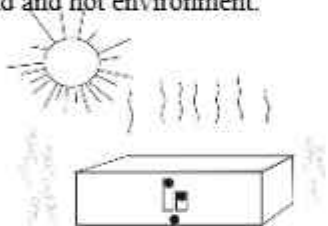


This symbol means a “must”.

■ Check the damage condition of power cord. Do not pulling the power cord to unplug the plug, unplug the plug directly; otherwise it may cause electric shock, short circuit or fire.



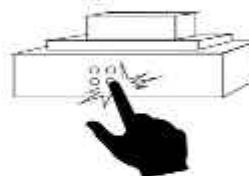
■ Do not expose the device to dust, vibration, extreme cold and hot environment.



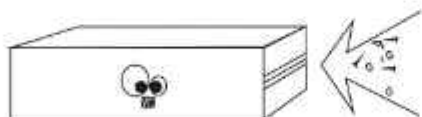
■ Do not block the air vent during the operation. All air vents must be unblocked to avoid the overheating.



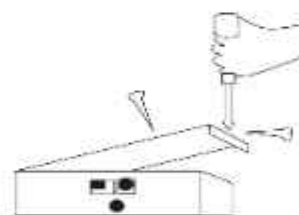
■ Do not place heavy objects on the device. Do not impose an excessive force when operating the switch, buttons or connecting the external audio equipment.



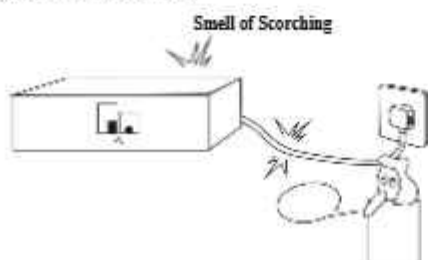
■ Avoid any foreign matter (paper, metal, etc.) from entering the device through gap or opening. In such a case, please power off this device immediately.



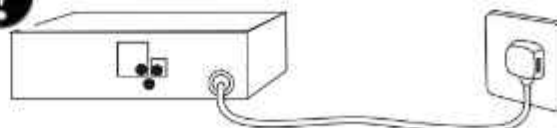
■ Do not attempt to detach the internal parts of this device or remold it by any way.



■ Please unplug the power plug immediately to avoid the electric shock, fire or other accident and professionals shall be invited for maintenance of the device in case of any sudden sound interruption, any abnormal smell or smoke during the running of the machine.



■ Be sure to unplug the AC power cord or turn off the wall outlet to achieve zero energy consumption when this device will not be operated for a long time.



1. Introduction

On wall or shelf 100V projector speaker, 24W – 12W – 6W, power taps, EN54-24:2008 standard certified.

Plastic body made in ABS V0 type, Protection grid in aluminium. Suitable for indoor installation, IP rate protection: IP54.

2-way coaxial speaker, 5" woofer + neodymium tweeter, audio transformer for connection to 100V or 70V lines, thermal fuse for protection of the speaker line in case of overheating, dual IN-OUT ceramic connector.

Including aluminium fixing bracket, waterproof cover and IN-OUT cable glands for easy daisy-chain speakers' connection.

2. Installation

The speaker can be installed on external masonry walls, columns, false ceilings and / or plasterboard walls, beams, wooden ceilings, etc. through the supplied bracket, equipped with three Ø 6mm holes for fixing with screws and plug. The bracket is fixed to the body of the loudspeaker with stainless steel bolts and rubber gasket (see photo).

The loudspeaker has a compartment that houses the double ceramic connectors with thermal protection circuit breaker. The compartment is closed with a waterproof lid.



3. Connection

Connect the cable coming from the amplifier to the **IN** connector respecting the polarities. In case of connection of a subsequent speaker use the **OUT** output.

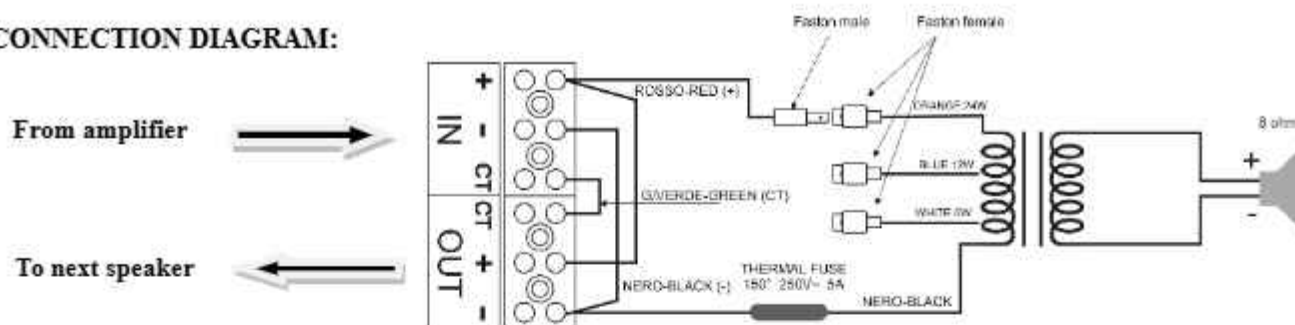
The power setting is possible by inserting the FASTON connector (red wire) in one of the available power taps. Please refer to the following connection diagrams.

In the factory setup the speakers are set to mid-power tap

Strip the cable as shown in the figure.



CONNECTION DIAGRAM:



Cable connection legend:

- + = 100V
- = 0V, COM

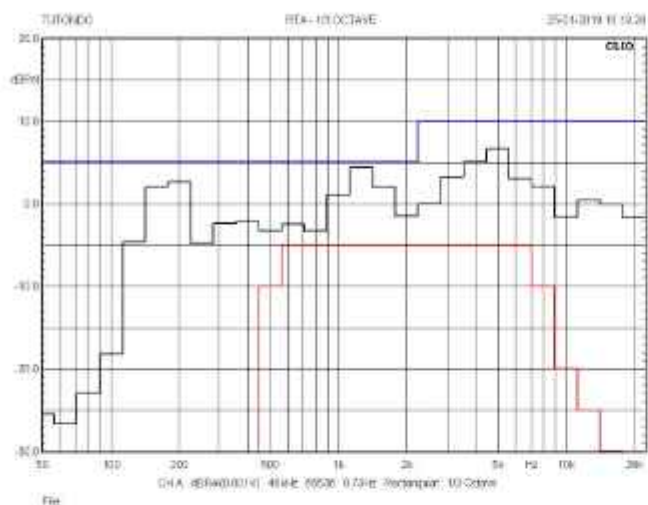
Specification

Standards	EN54-24 Loudspeaker for voice alarm system for fire detection and fire alarm system
Environmental Class EN54-24	Type A, indoor applications
IP rate protection (EN60529)	IP54
Way no./Speaker type	2-way Ø130mm coaxial speaker, neodymium tweeter
Transformer	100V (24W - 12W - 6W)
In-axis Freq. response (-10dB)	110 ÷ 20.000 Hz
Sensitivity (@1m, 1W)	86.3 dB SPL
SPL max (@1m, Pmax)	100.3 dB SPL
Coverage angle (-6dB)	360° (500 Hz), 258° (1 kHz), 128° (2 kHz), 63.6° (4 kHz), 58° (8 kHz)
Directivity Index DI (dB)	1.4 (500 Hz), 3.9 (1 kHz), 5.2 (2 kHz), 8.4 (4 kHz), 8.5 (8 kHz)
Directivity Factor Q	1.4 (500 Hz), 2.4 (1 kHz), 3.3 (2 kHz), 6.9(4 kHz), 7.0 (8 kHz)
Nominal/Music power	24W/48W
Nominal Impedance @ 1KHz	416.6 Ω(24W), 833.3Ω(12W), 1.66kΩ(6W)
Dimensions Ø - P	140mm - 240mm
Aluminium bracket	140mm - 152mm
Weight	1,46 Kg
Material	ABS V0 type – painted grid in aluminium
Colour	White

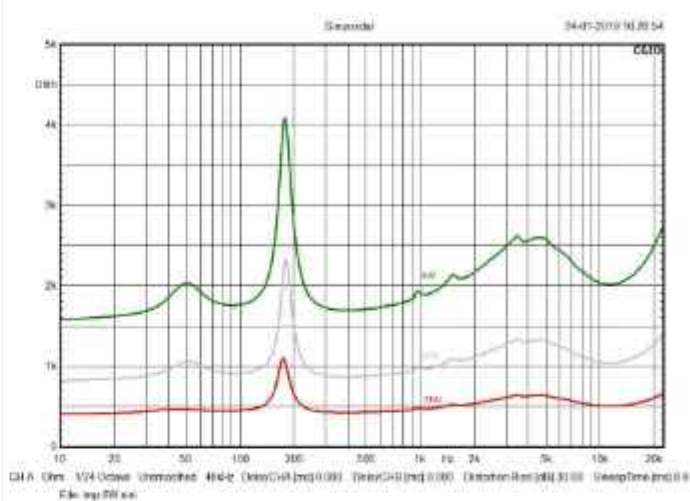
Notes:

- Reference axis: axis at the centre of the grid and perpendicular to the surface of the grid itself.
- Reference plane on the surface of the grid and perpendicular to the reference axis.
- Horizontal / vertical plane. Passing through the reference axis perpendicular to the reference plane.

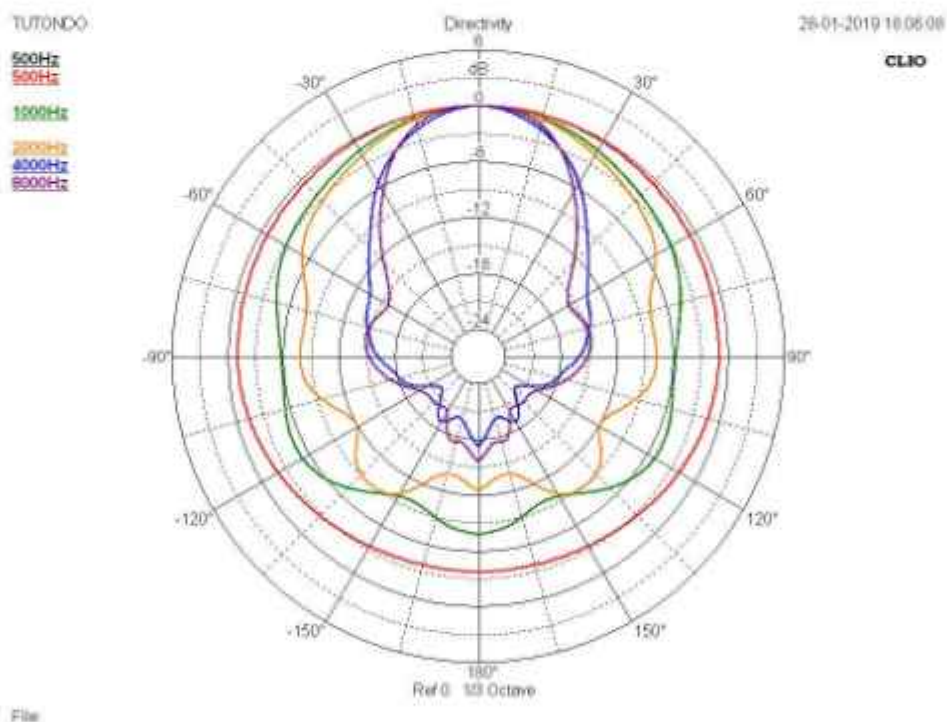
Frequency response: measurement on IEC standard baffle, SPLMAX @ 4m



Impedance: measurements at different power taps: 24W – 12W – 6W



Polar diagram: Horizontal = Vertical



Safety Precautions

1. Precautions for Safe Operation

- Do not plug the power cord into the power grid before the system line is not connected.
- Be sure that the input voltage of the device is exactly the same as the voltage required for this device. Otherwise it may burn the device.
- Do not open the case without authorization in order to avoid the risk of electric shock because there is a dangerous voltage in the device.
- Please unplug the power cord from the socket for the sake of safety when the device will not be used because the device is not completely disconnected from the power grid when the device is powered off.
- Do not put the device in a super-cooling or superheating place.
- Be sure there is a well-ventilated operating environment to avoid the heat and excessive temperature from damaging the device during the operation.
- Please unplug the power plug in rainy or wet days or without operation for a long time.
- Be sure to unplug the power plug to ensure the complete disconnection from the power grid before detaching or re-install any parts of the device, disconnecting or re-connecting any electrical plugs of the device or performing any connection.
- Do not open the case to repair the device without authorization in case of any fault in order to avoid the accident or aggravate the damage of the device.
- Do not put any corrosive chemicals on or near the device.

2. Precautions for After-Sale Services

- The Company will provide the free warranty services of three years (including replacement of parts free of charge) for any quality problem occurred since the date of purchase if the user installed and operated the device as required and it is within the range of normal operation.
- For any warranty, the user must provide the warranty card, user's self-deposit stub invoice and sales invoice as the voucher.
- Any of the following circumstances is not included in the range of free warranty:
 1. Damage of product resulted from the incorrect installation, operation or handling;
 2. Damage of product resulted from any abnormal condition, for example, excessive power voltage or environment humidity, etc.
 3. Damage of product resulted from any natural disasters or other accidents;
 4. The serial number of the products on the shell is converted, altered or removed;
 5. The product was once repaired or modified by others rather than the authorized personnel of the Company;
- For any question or attentions not covered in the Instructions, please feel free to contact our dealer or visit our website.
- In case of any fault during the warranty period, please feel free to contact our service personnel or dealers for maintenance treatment. The Company will not bear any responsibility of free warranty for any damage resulted from the unauthorized demolition of the users themselves or the repair of others rather than the technical staff of the company.

Cautions

- Please unplug the power cord plug from the socket for the sake of safety when the device will not be used because the device is not completely disconnected from the power grid when the power switch of the device is in OFF state.
- The device cannot be subject to water droplets or splashes and any items like vases filled with water cannot be placed on this device.
- Do not open the cover of the machine to prevent the electric shock. If necessary, it shall be repaired by the professional with the professional certificate.
- The terminal marked with a symbol ⚡ in the device indicates that it is dangerous and charged. The connecting operation of these terminals shall be performed by the trained staff.
- The device is connected with the power grid via the power cord plug, so, the connection between the device and the power grid can be cut off by unplugging the power cord plug in case of any fault or danger. Therefore, the power outlet is required to be mounted at a place where the plug of the power cords can be easily unplugged or plugged.

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