WEP5580 Emergency Broadcast Host

Description

Emergency broadcast host is an emergency system based on natural disasters, emergencies, facility damage, traffic jam, communication interruption, emergency command, evacuation drills, emergency rescue, stability and anti-terrorism, and anti-violence. When local original resources such as power supply, sound source, light source, etc. are paralyzed, a lithium power supply can be configured to provide independent power supply. An emergency system that operates independently without relying on local original resources can support outdoor photovoltaic system power supply. It has the characteristics of strong directivity, loud sound, long standby time, and long distance. This system is a necessary emergency equipment for various enterprises and institutions to carry out emergency command, emergency evacuation, emergency and normal drills, disaster resistance, disaster prevention, disaster reduction, disaster relief, stability maintenance, rescue and other work, as well as to improve self-rescue and self-protection capabilities to implement effective guarantees.

Features

- Integrated design: The system integrates power management, power amplifier, speakers, and microphones, and adopts wall-mounted installation. It has the characteristics of strong directivity, loud sound, long standby time, long distance, and easy installation. It can be applied to various emergency situations anytime and anywhere.

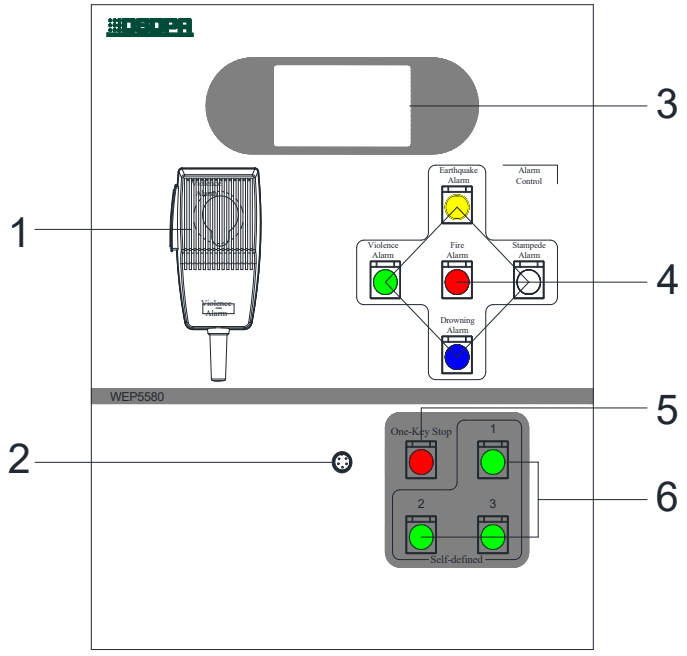
- Host-driven speaker: it is an outdoor waterproof speaker unit with strong pointing, high sound pressure, high definition and long distance, which is designed by independent installation of conventional models;
- Coverage: the alarm signal and sound reinforcement signal can effectively cover every place in the unit, and the sound transmission distance is 0.5-1.5 kilometers (realized by the project setting and the installation of speakers).
- Independence: The system can extend the power management system, and can work independently to complete the alarm notification task without depending on the network and power supply of the installation environment.
- Difference: The system comes with two kinds of switchable alarm signals, which are different from the daily ringing and broadcasting sounds in schools, and their escape signals and evacuation signals are obviously different.
- Optional power management system with the host: it provides continuous output stabilized power supply, which can be charged by photovoltaic equipment, and the UPS outputs DC12V power supply and connects to night emergency lights.
- Power amplifier: high-efficiency power amplifier, avoiding high-frequency interference with wireless signals, DC-DC conversion, stable and reliable performance; On-site calling can be made through wireless and wired microphones; Wireless signal transmission (FM) reception; Perfect protection against overvoltage, overcurrent, undervoltage, overheating and short circuit ensures system safety.
- Wireless intercom function: the wireless intercom microphone can be extended. In case of emergency such as water and power failure, communication interruption, no network, network disconnection, etc., the system can receive intercom signals and conduct on-site command and call. In a barrier-free environment of more than 3 kilometers in a straight line, the wireless intercom microphone can clearly convey sound through emergency broadcasting.
- Graphic alarm system: It has five graphic alarms and corresponding audio modes, including earthquake, fire, violence, stampede, and drowning. It also supports 3 user-defined trigger modes and a one-key pause function. Combined with the emergency graphic and text APP, even if the mobile phone is offline, disconnected, or in airplane mode, it can receive graphic and text information from emergency broadcasts in a timely manner.
- Local audio source playback function: With USB interface and TF card interface, it can play MP3/WAV format audio sources stored in USB disk and TF card, and can perform on-site recording.
- 4.3-inch TFT true color screen/touch screen: Graphical interface design, all function items and setting operation information are clear at a glance, the design is beautiful and fashionable; the touch screen control method makes human-computer interaction extremely humane.
- Loop detection: Determine whether the connection between the speaker and the output of the machine is normal, open circuit, or short circuit.
- Audio source priority: alarm audio source> network audio source, walkie-talkie, handheld microphone> line input, MP3 background music.

Specifications

Model	WEP5580			
Network Port	Standard RJ Input			
Transmission Rate	100Mbps			
Support Protocol	TCP/IP,UDP			
Audio Format	MP3, WAV			
Audio Mode	16 Bit CD Quality			
Sampling Rate	8KHz~48KHz			
Power Amplifier Output Rated Power	120W	250W	350W	500W

Rated Output Voltage (Constant Voltage)		100V
Line Output Frequency Response		50Hz-18kHz（±3dB）
Amplifier Output Frequency Response	Line Input	100Hz-15kHz（±3dB）
	WL-MIC Input	100Hz-10kHz（±3dB）
	Aviation Microphone Input	100Hz-10kHz（±3dB）
Harmonic Distortion		≤1%
Input SNR		＞70dB(A-weighted)
Protection Method		Overvoltage, overcurrent, undervoltage, overheating and short circuit protection
AUX Input Sensitivity		350mV (unbalanced)
PTT Input Sensitivity		10mV (unbalanced)
Wireless Walkie-Talkie Input Sensitivity		100mV (unbalanced)
USB Playback Sensitivity		-(10±1) dB
AUX OUT Ouput Level		1000±100mV
Backup Battery Life		2H (Normal Voice Playback)
Rated Input Voltage		AC220V/50Hz
Working Temperature		-20℃～+50℃
Working Humidity		20%~80% Relative Humidity, No Condensation
Package Size		630×420×168mm
Product Size		430×350×87mm
Gross Weight		18kg
Net Weight		16kg

Front / Rear Panel



1. Handheld Emergency Paging Microphone Stand

Hand-held emergencypaging microphone holder
Hang the microphone here with the front of the microphone facing forward when the emergency paging microphone is not in use.

2. Aviation Socket

Mainly used to connect and fix handheld microphones;

3. 4.3-inch TFT True Color Screen/Touch Screen

It can play MP3 audio sources, view recording files, manual loop detection and alarm audio

source settings.

4. Five graphic and text alarm buttons for earthquake alarm, fire alarm, violence incident, stampede incident and drowning incident

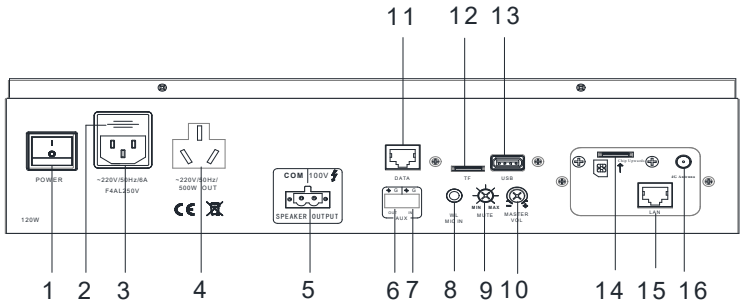
You can set five kinds of alarm sound sources through the display screen. Press the key and the backlight lights up to enter the corresponding alarm mode and play the alarm sound sources. Press it again to stop playing. **The audio source introduced here and 6 has the highest priority.**

5. One-key Stop Button

Press the buttonto stop all current audio source playback with one click, including 5 graphic and text alarms on the panel, 3 self-defined trigger alarms and MP3 audio source playback.

6. 3 Kinds of Self-defined Trigger Mode Buttons

Users can bind 3 buttons to 3 self-defined trigger alarm sound sources through the display screen. **The audio source introduced here and 4 has the highest priority.**



(Fig. 1)

1. Power Switch

Press the "I" position to enable the power, and pop up the "I" position to disable the power.

2. Power Fuse Holder

- If the fuse is blown, please replace it with a fuse of the same specification. For the specification of the fuse,please refer to the label next to the blown fuse or the product performance index specification table;
- if the fuse continues to blow, there is a short-circuit fault inside the machine. Please remove the fault and replace the fuse.

3. AC220V Power Input Interface

Connect UPS outdoor power supply /AC220V mains supply to provide continuous regulated power supply for this equipment.

4. AC220V Power Output Socket

Can be used to connect peripherals.

5. 100V Constant Voltage Output Port

This machine has a built-in digital power amplifier, and the power of the output port is 120W/250W/350W/500W, which can be connected to multiple 100V constant voltage speakers.

6. Auxiliary Output Interface (AUX OUT)

Connect other amplifiers to expand the power of this terminal.

7. Auxiliary Input Interface (AUX IN)

Connect audio equipment (such as DVD player, etc.) to expand the program source for this machine.

8. Walkie-Talkie Input Interface

Connect the audio output of the intercom to achieve wireless intercom.

9. Mute Control Knob

The alarm tone has the highest sound source priority, and the alarm tone signal will suppress other interface signals. The degree of suppression can be adjusted by the mute controller "MUTE". When it is adjusted to the MIN position, the suppression is to the maximum degree; when it is adjusted to the MAX position, the suppression is to the minimum degree. It is set to MIN (maximum suppression level)when leaving the factory.

10. Master Volume Adjustment Knob

Adjust the level of all signals. Turn clockwise to increase the volume, and turn counterclockwise to

decrease the volume.

11. DATA Expansion Equipment Interface

12. TF Card Interface

A TF card is inserted into thisinterface, which provides MP3 player program source andalarm sound source, and stores recorded files.

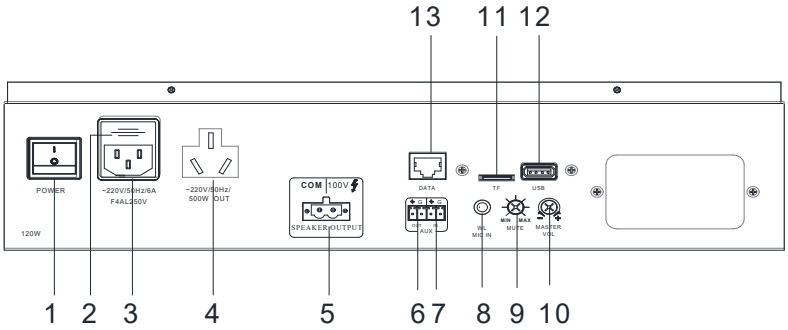
13. USB Interface

Insert a USB flash drive into the socket, and the USB flash drive provides the program source of MP3 player.

14. 4G Mobile Phone Card Interface

15. Network Port

16. 4G Antenna



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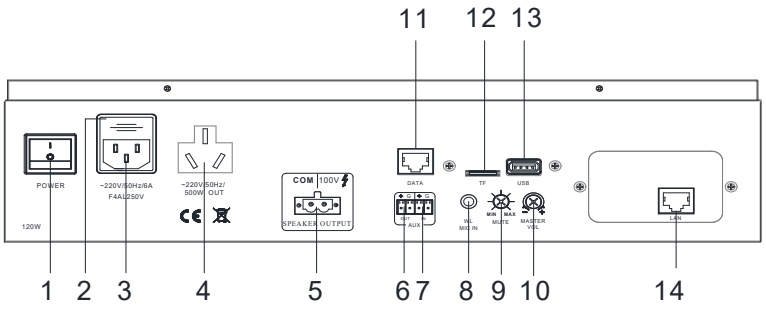

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14. Network Port

Syste Diagram

Note:

1. The AC220V power output port of the UPS outdoor power supply is connected to the "~220V" power input port of the host to provide continuous output regulated power supply for this device. The UPS can be charged through photovoltaic equipment. The UPS outputs DC12V power supply and is connected to nighttime emergency lighting.
2. Use audio cables to connect multiple 100V constant voltage speakers tothe 100V constant voltage output port (DSP164HD horn speaker in the picture).
3. Connect the intercom receiver to the "WL MIC IN" interface of the host computer, and achieve wireless

long-distance intercom with the emergency broadcast host through frequency modulation.