

MAG1116

Intelligent Public Address System Host



Description

This product is an intelligent public address system host with a 5.0” resistance LCD touch screen and level indication. It is provided with a fire alarm and emergency microphone for emergency evacuation and remote paging. It can record emergency voice and background music with the interface on the panel. Besides, it holds a variety of interfaces, such as 2 paging microphone inputs, 1 wireless microphone input, 1 alarm input, 1 monitor output, 1 background music output, and 1 emergency line output. In addition, the host can support 5 background music amplifiers and 1 emergency amplifier.

Features

- Power supply at 220V and 24V (Only available for MAG1116D);
- 5.0” resistance LCD touch screen, optional interface in Chinese and English, and built-in 1G memory;
- One channel of fire alarm switch and emergency microphone. The emergency microphone is used for emergency paging and business paging. In case of the emergency paging, it is possible to take up the emergency microphone for paging after the emergency triggering; in case of the business paging, it is possible to take up the emergency microphone for paging after selecting one or more partitions on the local interface;
- One audio playback button, which is used to play the emergency audio recording; the audio shall be recorded with the MIC or LINE port on the panel. For the emergency audio recording, the audio shall be recorded in the format of MP2 with the duration for 10 minutes;
- Background sound source recording. The audio shall be recorded with the MIC or LINE port on the panel. When configuring the factory songs, it is possible to record the audio for 4 hours;
- USB interface: The configured content (Including songs or timing points) may be imported from USB into this equipment; the configured content may also be exported from this equipment to USB. It is also possible to use USB to upgrade the latest software through USB, or to play the music programs in USB, but only the songs in the MP3 audio format can be played;
- Level indicator: It is used to indicate the outputs of all the signal sources;
- RJ45 interface (Connected to PC computer online to download and update the songs at any time, and to

download the edition timing point on a remote basis);

- 4 channels of timing power time sequencer (Maximum gross power of 220V/2000W) and 1 channel of short circuit triggering interface (Trigger control time sequencer);
- 2 channels of paging microphone interface (Connected to remote paging microphone), 1 channel of background and 1 channel of emergency (Paging) line output, and 1 channel of wireless microphone input;
- 10 channels of short circuit triggering. The alarm sound source is generated from this equipment. The alarm level may be a high level (+5V---+24V) or low level (0V);
- It is possible to connect 5 background power amplifiers (Maximum power 2000W) and 1 emergency (Paging) power amplifier (Maximum power is 2000W). 10 channels of partitions are built in (Maximum gross power is 2000W, average maximum power of each partition is 200W; every power amplifier corresponds to 2 channels of partitions. That is to say that the first channel of the power amplifier corresponds to partition No.1 and partition No.2; the second channel of the power amplifier corresponds to partition No.3 and partition No.4, and so on);
- It is equipped with 4Ω /10W (1kHz, 1% degree of distortion) monitoring output.
- It is possible to edit 5 sets of timing programs (Timing in periodic cycle and timing at designated date). In each set of the program, it is possible to edit 200 timing points at most. The content of each timing point shall include the build-in power supply (Only on or off state), partition (Only on or off state), MP3 sound source (20 songs at most); the timing point may set the end time.

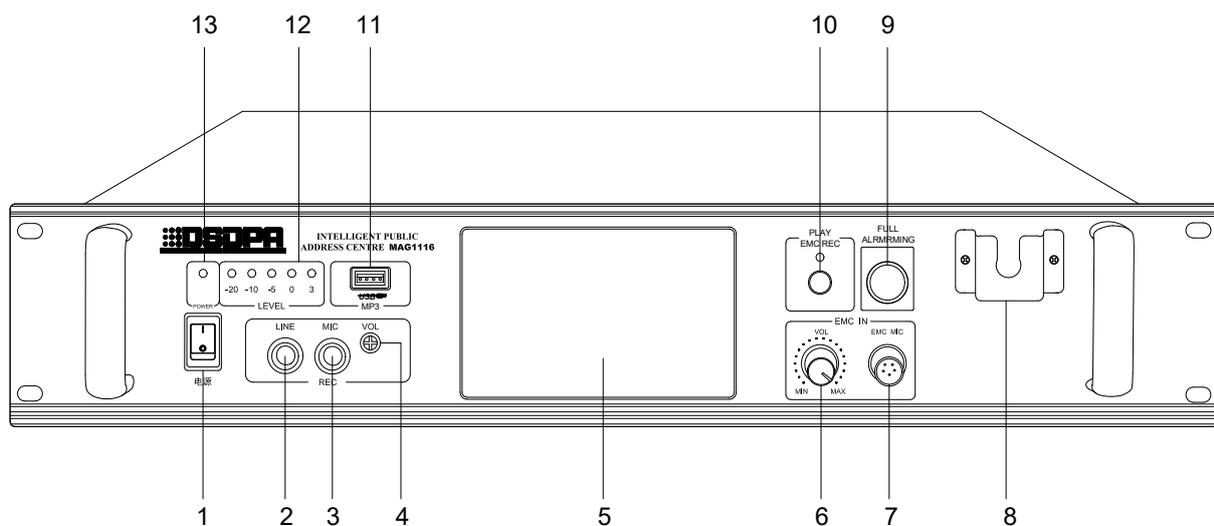
Specifications

| No. | Item | Indicator requirement | Unit | |
|-----|---|---|-----------|----|
| 1 | Channel B output At 1V/1KHZ sine wave | Microphone input sensitivity | 2--3.5 | mV |
| | | Wireless microphone input sensitivity | 200--350 | mV |
| | | Remote paging input sensitivity (voltage at pin No.8 and No.9) | 1000±100 | mV |
| | | Line recording input sensitivity | 200--350 | mV |
| | | Microphone recording input sensitivity | 2--3.5 | mV |
| 2 | Channel A output At 1V/1KHZ sine wave | MP3 input sensitivity | 200--350 | mV |
| | | Line recording input sensitivity | 200--350 | mV |
| | | Microphone recording input sensitivity | 2--3.5 | mV |
| 3 | Maximum noise | Channel A/B (When channel B is switched to wireless microphone) | ≤0.5 | mV |
| | | When channel B is switched to local microphone input | ≤1 | mV |
| | | Monitoring | ≤1.5 | mV |
| 4 | Degree of distortion (Output of 1KHZ 1V) | Channel A/B (Input of line) | ≤0.3 | % |
| | | Channel B (Input of local microphone) | ≤0.5 | % |
| | | Microphone input frequency response | 50---20K | HZ |
| | | Remote paging microphone input frequency response | 50---20K | HZ |
| 5 | Frequency response (±3dB) | Wireless microphone input frequency response | 100---20K | HZ |
| | | MP3 output frequency response | 200---20K | HZ |
| | | Line recording input frequency response (output of channel A) | 350---20K | HZ |
| | | Line recording input frequency response (output | 100---10K | HZ |

| | | | | |
|----|---------------------------|---|-------|-----|
| | | of channel B) | | |
| 6 | Monitoring | (220V power supply/1KHZ, ≤1% degree of distortion) | 6-7.5 | V |
| | | (+24V power supply/1KHZ, ≤1% degree of distortion) | 5-6 | V |
| 7 | Protection | 1.AC220V/ 1A; 2.DC+24V/2A (Only for MAG1116D) | | |
| 8 | Dielectric strength test | Between poles of power supply and input/output terminal | 4200 | VDC |
| | | Between poles of power supply and metal shell | 2200 | VDC |
| 9 | Net weight | 8kg | | |
| 10 | Gross weight | 9.5kg | | |
| 11 | Machine Dimension (L×W×H) | 483×350×88mm | | |
| 12 | Package Dimension (L×W×H) | 555×455×185mm | | |

Front / Rear Panel

Front Panel



1. Power switch

Press down the position “T” to indicate the switch-on.

2. Line mode recording interface

The interface used to record the background sound source or emergency sound source.

3. MIC mode recording interface

The interface used to record the background sound source or emergency sound source.

4. Recording volume adjustment knob

Adjust the size of the volume in a mechanical manner.

5. 5.0” LCD touch screen

The display screen is used to display all the information and trends of the system. It is also used as the operation touch screen.

6. Emergency microphone volume adjustment knob

When the arrow of the knob is turned to MIN, it indicates the minimum volume; when turned to MAX, it indicates the maximum volume.

7. Emergency microphone port

The signal of the microphone to be connected to this port shall have the highest priority.

8. Microphone hook

If the microphone is not in service, put the button on the back of the microphone into this hole.

9. Alarm button

This is the system alarm button. Press down this button to send the alarm signal to all the partitions simultaneously; Press down this button again to shut down the alarm and bounce the button up.

10. Audio playback button

It is used to play the emergency audio recording.

11. USB interface

The configured content (Including songs or timing points) may be imported from USB into this equipment; the configured content may also be exported from this equipment to USB. It is also possible to use USB to upgrade the latest software through USB, or to play the music programs in USB, but only the songs in the MP3 audio format can be played.

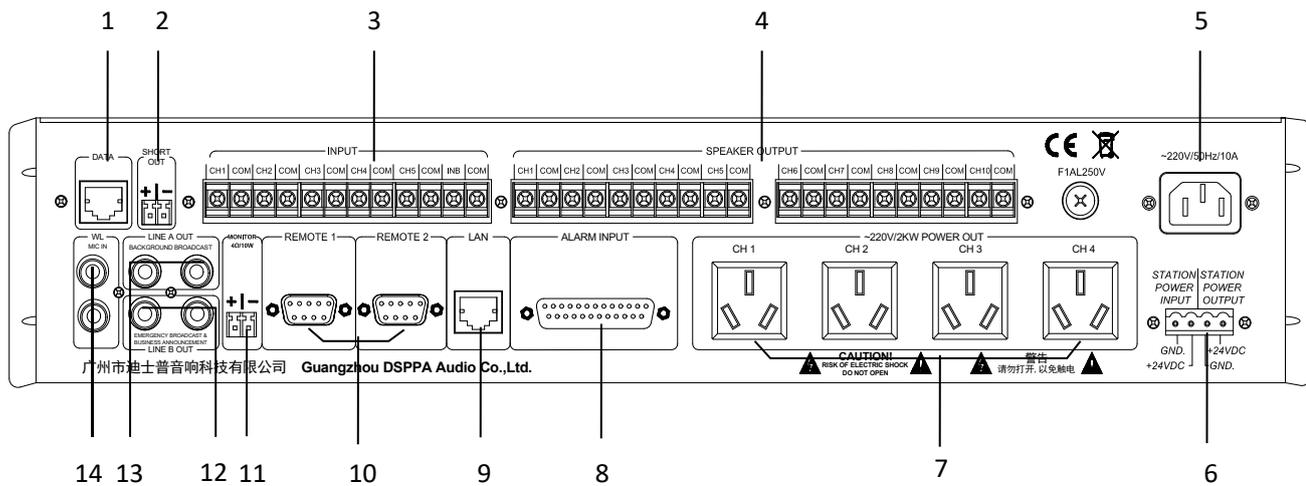
12. Out signal level indicator lamp

The indicator lamp for all the signal source outputs.

13. Power supply indicator lamp

The indicator lamp is on when the power supply is turned on, or is off when the power supply is turned off.

Rear Panel



1. Data interface (Not in service)

2. Short circuit output interface

It is used to output the low level

3. Partition input

It is used to connect 5 background power amplifiers and one emergency (paging) power amplifier respectively.

4. Power amplifier loudspeaker output port

The partition output terminals CH1 to CH10 are connected to the loudspeaker boxes in the corresponding partitions respectively in order for the direct output of the audio signal.

5. AC220V power supply input socket

The working power supply to this equipment shall be connected through this interface; when connecting, first insert the socket on this equipment, and then connect the grid.

6. DC 24V power supply input (Only available for MAG1116D)

DC 24V backup power supply input interface.

7. Power supply output interface

It is used to provide the AC220V working power supply to the other equipment.

8. Partition alarm signal input interface

It is used to input the signal from the fire service center.

9. Network interface

It is connected with PC computer to download and update the songs at any time and to download and edit the timing points on a remote basis.

10. Remote pager connector

There are two remote pager connectors (9-pin D-type data serial port), which are used to connect the remote pager equipment (remote paging microphone) directly.

11. Monitoring output

The maximum output power is $4\Omega / 10W$ (1kHz, 1% degree of distortion)

12. Line B channel output interface

The emergency business sound source output interface.

13. Line A channel output interface

MP3 sound source output interface.

14. Wireless microphone input interface

It is used to input the signal generated by the wireless microphone. If the signal is not big enough, it is required to equip the pre-amplifier to connect to this interface.