



Public Address System

Network Display System

MAG6310



User's Manual

Thank you for using our DSPPA public address system. Please read this User Manual carefully to make better use of this equipment.

Guangzhou DSPPA Audio Co., Ltd.

HTTP: //www.dsppatech.com

1. Product description

1.1 About MAG6310

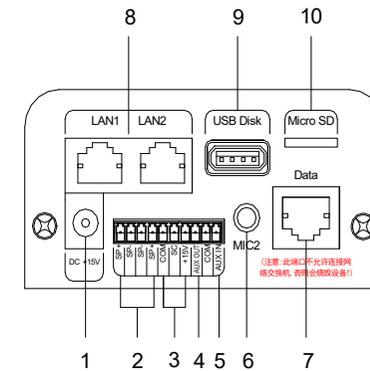
MAG6310 network display terminal is a networked all-digital analog-digital conversion signal processor based on TCP/IP transmission protocol, which adopts the dual network design, and can be coupled at any place with access to network. The remote audio data stream can output the audio signal through the machine with intelligent control of the host; built-in MP3 player, and is provided with USB and SD. MP3 program can be played when the network audio stream signal is not played; it can be separated from the host machine to implement the timing point independently; 1-channel AUX audio input interface is used to connect other audio source device (such as DVD), and 1-channel AUX audio output interface is used to connect other power amplifiers, so as to expand the power; there is a way microphone interface, so as to realize local paging and so on.

1.2 Performance features

- Dual network interfaces and support to work across the network segment;
- Can be mounted anywhere with network;
- Built in with an MP3 decoding player
- Support maximum sampling rate of 16bit 48kHz digital audio stream decoding;
- Built-in $2 \times 15W$ high-fidelity digital amplifier, low-power settings;
- Can play background music, emergency paging and alarm signals from system host;
- With 1 AUX input & output, 1 mic inputs and 1 EMC output, 1 short circuit output;
- Local output volume and local play status can be controlled;
- Operating status and information changing digital display;
- Can be remote controlled by infrared remote;

2. Appearance Description

2.1 The introduction of side panel



1. Power supply interface

2. Output for Speaker

Built-in 2×15W digital power amplifier, the output power is 15W. They are connected with two constant resistance (4Ω) sound box respectively. The size of speaker line (20AWG-22AWG)

3. EMC override play output

The signal output from the interface is controlled by the host machine

4. Auxiliary output interface (AUX OUT)

It is connected with other power amplifiers, so as to expand the terminal power.

5. Auxiliary input interface (AUX IN)

Connect the audio source device (such as DVD) to expand the program source for the machine.

6. MIC2 interface

Connect the microphone to realize local paging, site talking and other functions.

7. DATA

Extension device interface. The connection method is as follow: connection graph 3.3 (Notes: This port is not allowed to connect to the network switch, otherwise it will burn the device)

8. Network interface (LAN1/LAN2)

9. USB (USB Disk)

Insert U disk at the interface or connect the portable hard disk and other memory device, and provide the program source for the built-in MP3 player

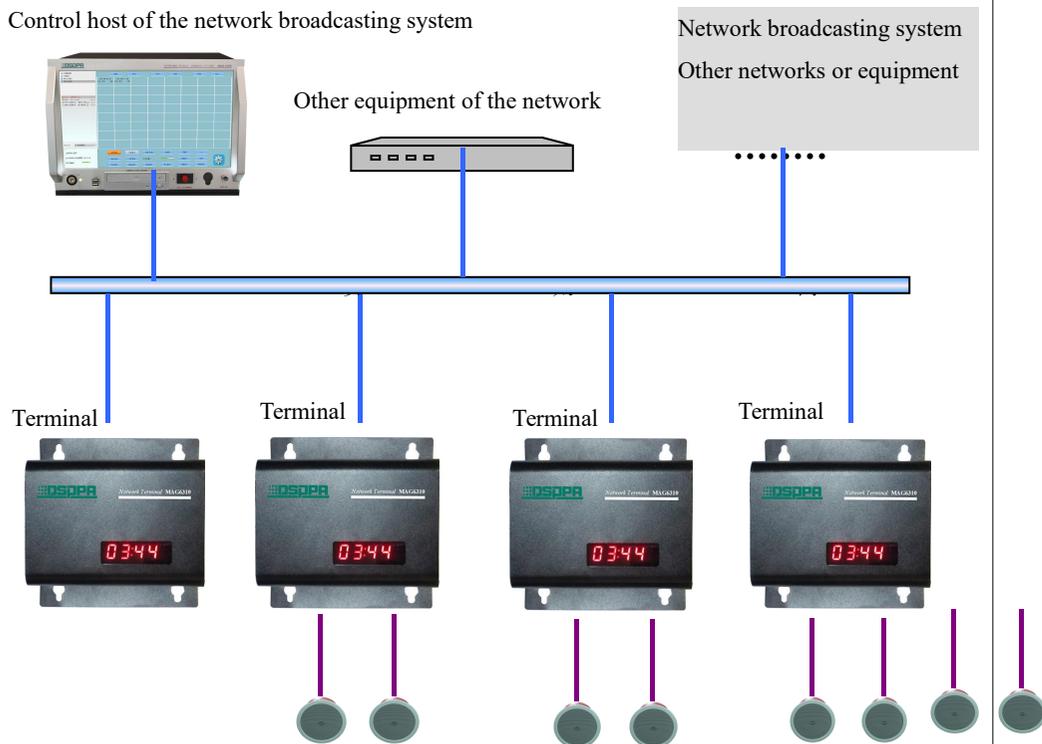
10. SD interface (Micro SD)

Insert the SD card saved with host timing point at the socket. When the terminal is disconnected, the host machine plays the audio source at the definite time.

3. Diagram example

3.1 MAG6310 terminal application schematic diagram

Control host of the network broadcasting system



1. Only the schematic description for connection of rough application of MAG6310 terminal is made in the above figure. For connection of the whole system, please refer to operation instructions for the networked control host.

2. It is illustrated by examples in the above figure. For specific connections, please refer to the schematic diagram of system connection.

3. MAG6310 terminal must be connected in the system through the network switch, and the corresponding address shall be arranged for connection with the host machine

Packing List

S/N	List	Quantity
1	Network display terminal	1
2	Adapter 14V/3A	1
3	3000MM/8 mm cable	1
4	Crystal head	2
5	10P Green plug 2.5MM	1
6	Manual	1
7	Guarantee card/Conformity certificate	1/1
8	SY542 (Audio line)	1
9	3.5mm Audio plug	1

Caution

- The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in use.
- Please keep this device off water drops or splash or vase filled with water or any other articles of similar nature.
- Please do NOT remove the cover of the equipment, otherwise you may get an electric shock. Where necessary, repair to the equipment should be conducted by qualified professionals.
- All terminals on the device marked with ⚡ are live and dangerous, and should be connected by trained personnel.
- This is connected to power source via the plug and any failure or danger occurs, the user can disconnect the device from power source by pulling out the plug out from the socket, therefore, it is required that the power socket should be located somewhere with easy access.

Guangzhou DSPPA Audio Co., Ltd.

4. Set operation instructions on the host

To extend the player terminal MAG6310 in the network PA system, set the following configuration parameters to connect the terminal and the host.

Network Public Broadcast System

Seventh generation network MAG6XXX system parameter configuration

Public broadcast

Network configuration

Log management

Devicetype:

Off-line timed broadcasting: Enable Disable

Constant voltage backup: Enable Disable

Fixed as on Demand terminal: Fixed Auto

Priority selection: Local Net Reverberation

Microphone type: Moving-coil Condenser

This terminal selectively supports the above functions as described in the manual

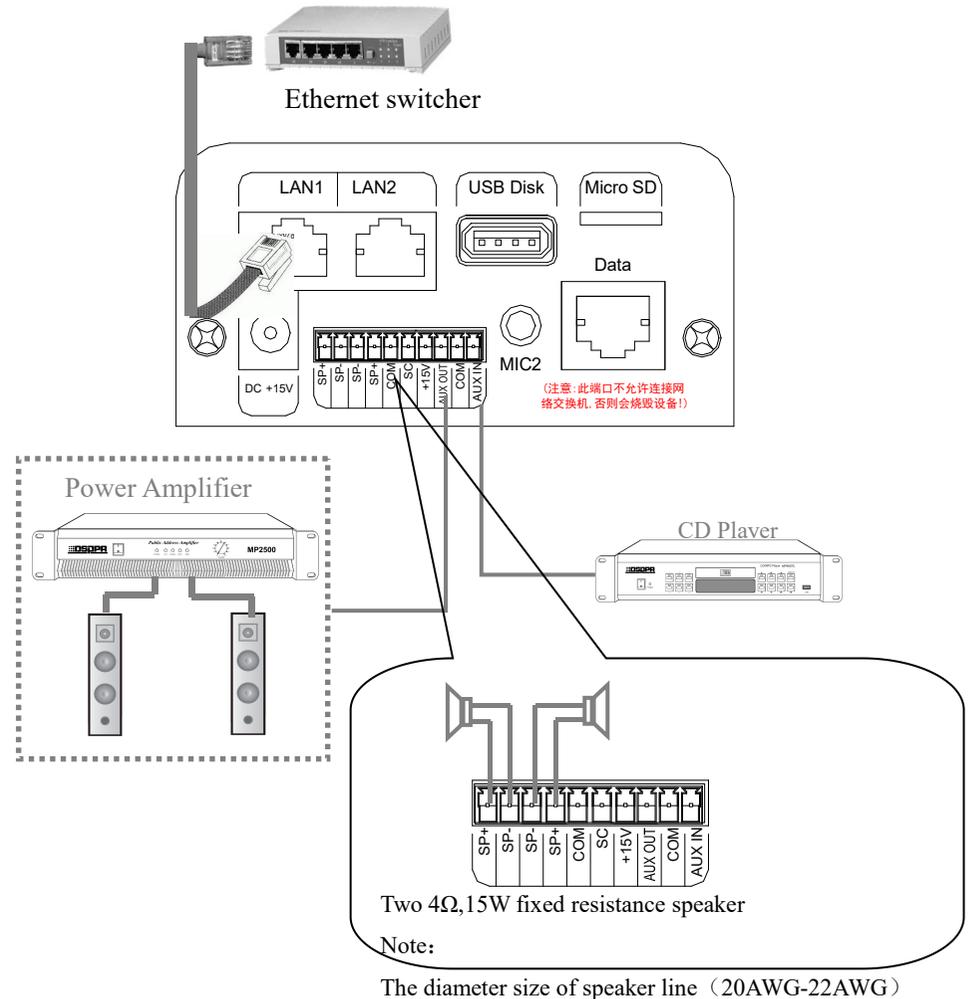
- (1) Offline timing point function: Two modes can choose: Start/Disability. You can decide to start the offline timing point function or not based on your own need. When you need, select the "Start" and press the "submit" button. On the contrary, choose the "disability".
- (2) On demand panel terminal function: Click "fixed" option, the terminal is fixed to on demand panel terminal; Select "dynamic" option, it will be the on demand panel terminal when plug in n demand panel. Otherwise it is a common play terminal.
- (3) Local network priority: Three priority modes. Choose the "local" option, local source output priority. The "network" option is the same. Choose the "mixed", the local and network output at the same time.
- (4) Microphone selection: The type of capacitor or coil can be choose base on your own need.

3.2 MAG6310 diagram

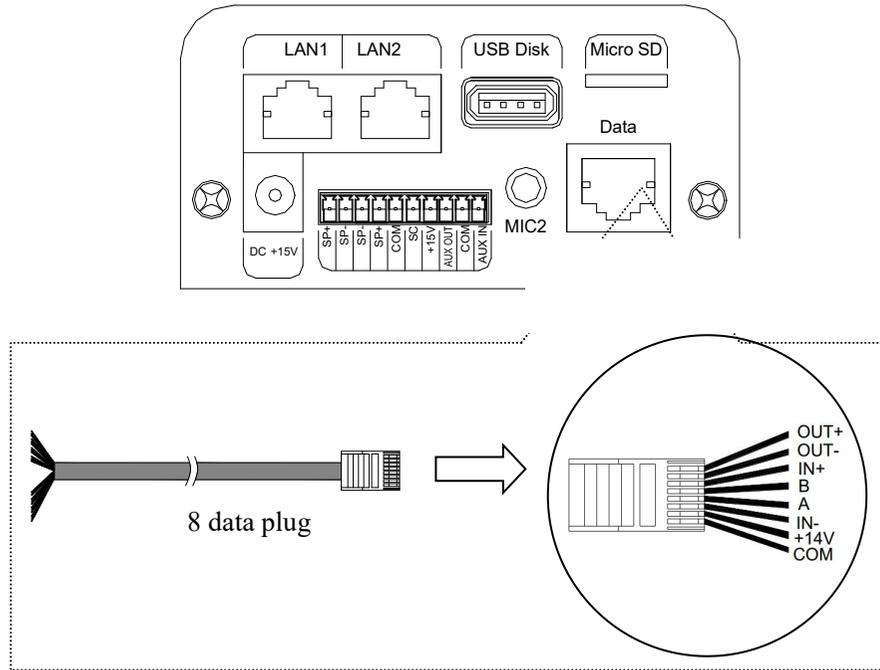
Except for MP3 player and the network audio source carried in the machine, a way auxiliary input and a way auxiliary output are also arranged to connect other audio sources and power amplifiers. The customized design can

satisfy demands for high power and multiple audio sources on terminal site. The peripheral audio source and other power amplifiers may not be connected in the application without such individual demands. The MP3 player and network audio stream carried in the machine can realize sound amplification at most public places.

The schematic diagram of interface connection of the machine is shown in the following figure



3.3 Data interface description



Note:

- (1) Adopt 8 dedicated data plugs, from the top to bottom respectively: ① OUT+、② OUT-、③ IN+、④ B、⑤ A、⑥ IN-、⑦ +14V、⑧ COM。
- (2) ① and ②: Analog audio differential output;
 ③ and ⑥ Analog audio differential output;
 ④ and ⑤ 485 communication interface output;
 ⑦: 14V output;
 ⑧: Ground lead.

Specification:

Indicator item	Indicator	
Model	MAG6310	
AUX IN	Input sensitivity	350 mV
	Frequency response	26Hz-18kHz
	Distortion	≤0.5%
	SNL	≥75 dB
AUX OUT	Rated output	1000mV
	Frequency response	25Hz-20kHz
	Distortion	≤0.3%
	SNL	≥75 dB
Distortion	Distortion	3.5mV
	Distortion	30Hz-18kHz
	Distortion	≤0.5%
	SNL	≥65 dB
USB/SD /NET/MP3 Display	Frequency response	25Hz-20kHz
	Distortion	≤0.5%
	SNL	≥70dB
Capacity of SD card supported	32GB	
Capacity of U disk supported	32GB	
Power supply	AC220V/50Hz-60Hz	
Display screen	Digital Screen	
Weight	1.20kg	
Dimension (L×W×H mm)	132×140×50mm	