

NBS-2301P55

Multi-Zone Network Mixer Amplifier

SPON Multi-Zone IP paging amplifier NBS-2301P55 provides multiple external audio interface to meet any application scene ,such as supermarket, office building, school, etc. Integrated with pre-amplifier function, bass and treble controls are provided to adjust the sound effect and volume of each audio channel. Automatic cooling system ensures the exterme quite sound system. This amplifier can be called as 4 zone audio amplifier.







MAIN FEATURES

Design & Interface

- Durable 2U rack design with a 4.3-inch TFT color LCD screen and control knob.
- Infrared remote control compatibility and multiple status indicator lights for easy maintenance.





Powerful Audio Control & Protection

- Integrated digital Class-D 550W amplifier compatible with 100V and 8-16 Ω loudspeakers.
- Comprehensive protection circuitry against overload and overheating.
- Four independently controlled output zones for targeted broadcasting

Built-in Features & Connectivity

- Internal clock chip for server-independent timed broadcasting, with programs uploaded to a local SD card.
- Built-in microphone and speaker enabling twoway intercom functionality.
- Relay I/O port for integration with third-party fire alarm systems.



SPECIFICATION

| Power Parameters | |
|--------------------|---------------|
| Power Supply: | AC 220V, 50Hz |
| Rated Output: | 550W |
| Power Consumption: | ≤650W |
| | |

| MP2, MP3, PCM, ADPCM |
|--|
| Mic Input 01: ≥65dB, Mic Input 02/03: ≥80dB, Aux Input 01/02: ≥82dB |
| 8kHz~44.1kHz, 16bit, 8kbps~320kbps |
| ≤0.5% at 1kHz, 1/2 rated output |
| Mic Input 01: 80Hz~14kHz Mic Input 02/03: 60Hz~16kHz Aux Input 01/02: 60Hz~16kHz |
| |

| Network Parameters | | |
|-----------------------|------------------------------------|--|
| Network I/F: | 10BASE-T/100BASE-TX RJ45 | |
| Network Protocol: | HTTP, TCP/IP, UDP, ARP, ICMP, IGMP | |
| Configuration Method: | Web Interface or DevConfig Tool | |

Accessories

| (3.81mm Pitch, AWG 26-16) | |
|-------------------------------------|--|
| 4×Flat Head Screw & Washer | |
| 1×Quick Installation Guide | |
| 1×Quality Certificate&Warranty Card | |
| | |

Compliance

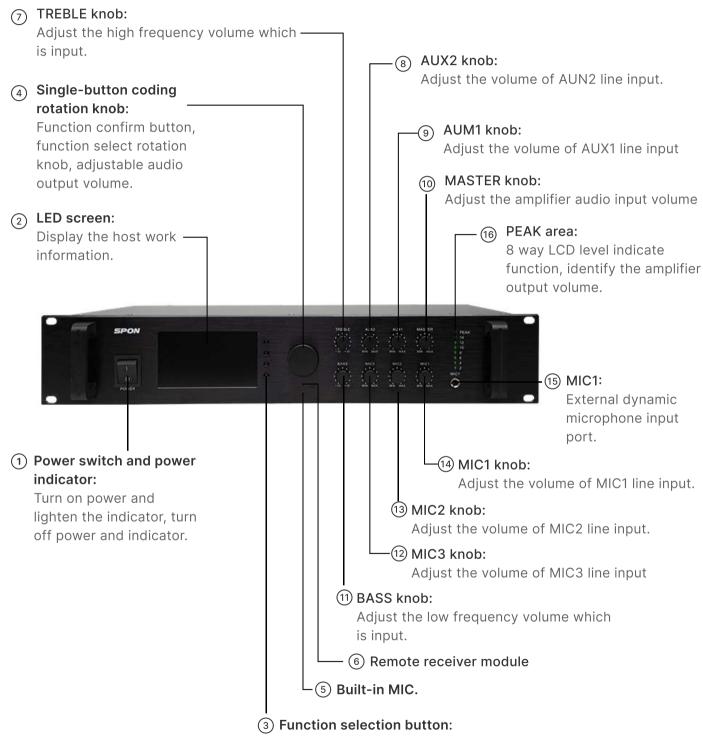
1×Power Cord

| CE (EMC Directive 2014/30/EU) | |
|-------------------------------|--|
| CE (LVD Directive 2014/35/EU) | |

| Mechanical&Environ | ment Properties |
|------------------------------|---|
| oonamoaiaEilviioi | |
| Mounting Method: | 2U Rack-Mounted |
| Installation Environment: | Dry Indoor Locations Only |
| Operatiing Temperature: | -10°C~+50°C (14°F~122°F) |
| Operating Humidity: | ≤90% RH non-condensing |
| Heat Dissipation: | Automatic start of the built-in fan when the temperature of the radiator exceeds 55°C, forced air cooling from front to back. |
| Protection: | Over-Current Protection, Short-Circuit Protection, Overload Protection, Thermal Protection |
| Front Panel Material: | Aluminum Alloy |
| Housing Material: | Surface-Treated Steel Plate |
| Color: | Black |
| Product Dimensions: | 483×430×88mm |
| Product Weight: | 7.5KG |
| Packaging: | Carton Box |
| Packed Dimensions: | 560×530×170mm |
| Packed Weight: | 9.5KG |
| Product Warranty: | 2 Years Limited |
| | |

PORTS DESCRIBTION

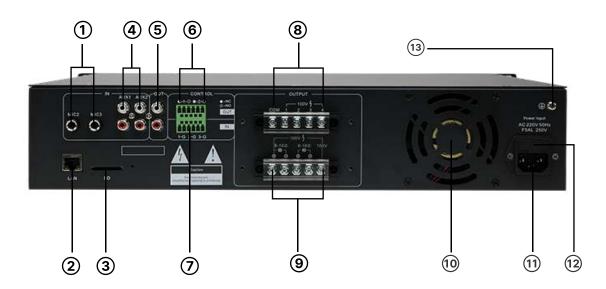
[Front Panel]



To realize the corresponding function of LED screen displayed.

PORTS DESCRIBTION

[Rear Panel]



① MIC 2、MIC 3:

External condenser microphone.

2 Network input port:

To connect with Ethernet switch

③ SD card insert port:

To storage timed task file.

4 AUX 1, AUX 2 Line input port:

To connect to external audio sources equipment.

(5) AUX Line output port:

To connect to legacy amplifier with impedence 600Ω - $10k\Omega$.

(6) Relay output 01/02 port:

3-Pin Pluggable Terminal Block (3.81mm Pitch, AWG 26-16), Normally Open (NO) or Normally Closed (NC) Dry Contact.

(7) Relay input 01/02/03 port:

2-Pin Pluggable Terminal Block (3.81mm Pitch, AWG 26-16), Normally Open (NO) Dry Contact

(9) Speaker Output (100V、8Ω~16Ω) port :

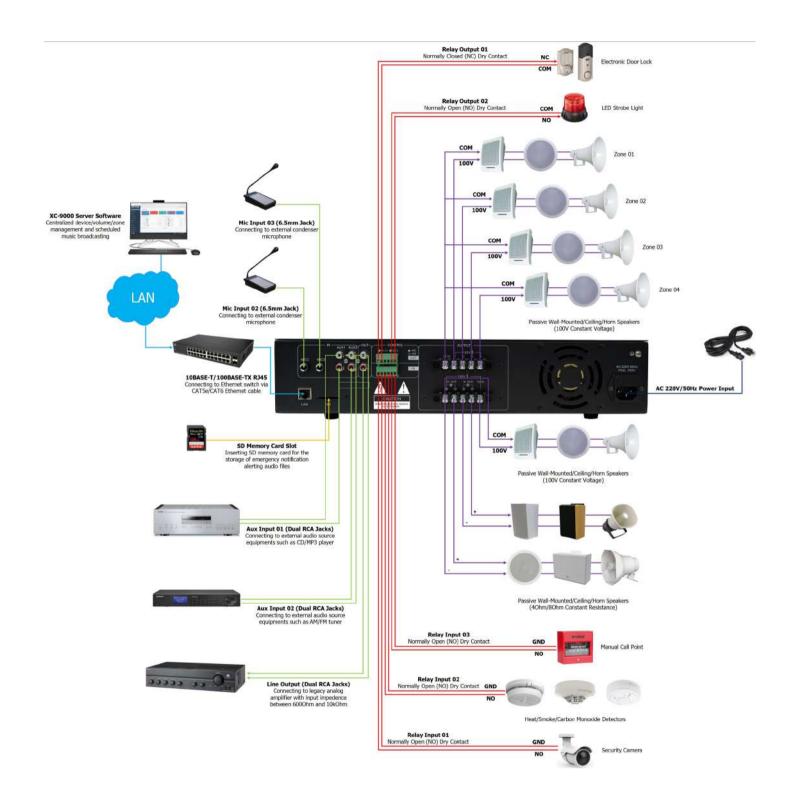
2-Pin Screw Terminal Block, connecting and driving 100V constant-voltage passive speakers ; 2-Pin Screw Terminal Block, connecting and driving 8Ω constant-resistance passive speakers (total impedance between $8\Omega\sim16\Omega$).

Multi-Zone Speaker Output (100V)port:

5-Pin Screw Terminal Block, connecting and driving 100V constant-voltage passive speakers with zoning options.

- (10) Cooling fan
- (11) AC220V power input port
- (12) Fuse
- (13) **GND**

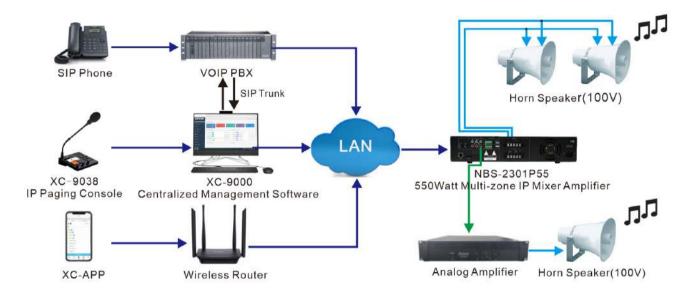
CONNECTION DIAGRAM



APPLICATION

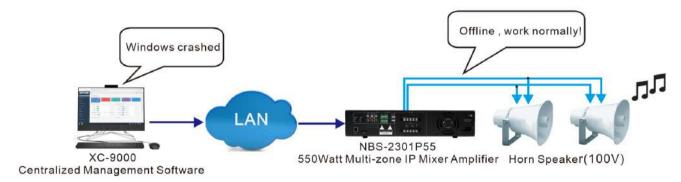
Application 1

The Multi-zone IP mixer amplifier NBS-2301P55 can receive real-time voice announcement initiated by the 3-rd party VOIP telephone . SPON IP paging microhone/APP(Windows . Android/IOS), etc. With built-in amplifier and line output interface, the voice can be transmitted to external passive speaker for amlification.



Application 2

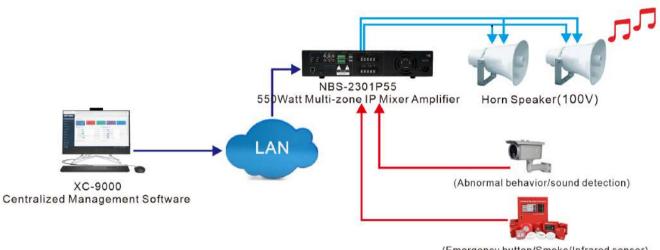
The Multi-zone IP mixer amplifier NBS-2301P55 support offline timed broadcasting , the offline timed program need to be pre-uploaded on SD card of the amplifier, when the windwos crashed , the system can normally work.



APPLICATION

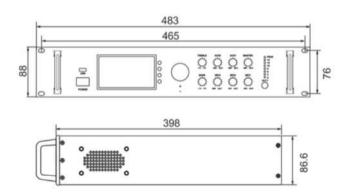
Application 3

The Multi-zone IP mixer amplifier NBS-2301P55 support to automatic broadcast alarm tone when receiving relay input signal from the 3-rd party system (For example, IP camera of surveillance system \ Emergence button of Fire alarm system) , the alarm tone need to be pre-set on schedule task of XC-9000 software.



(Emergency button/Smoke/Infrared sensor)

DIMENSION DRAWING



Multi-zone IP amplifier NBS-2301 in rackmounted installation with 4pcs of white washers head screws (M3*5). Please refer to the following dimension diagram to put device in suitable cabinet.

SPON

CASE







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