

SPON

IP NETWORK INTERFACE UNIT
User Manual



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Summary

Safety precaution

Please abide by the warning and the relevant safety tips.

Please take this manual in convenient place after you reading the guide for future reference.

Warning



The sign means there is potential safety hazard, when operate wrong may result in death or serious injury.



The sign is used to remind the user that attached is the important operation and maintenance data.

Setting and Installation

- (1) Avoid being wet with the water.

Don't make the machine or exposed to rain water or other liquid contamination of the environment, or lead to fire or get an electric shock.

- (2) Don't use unspecified voltage.

Using the marked voltage on the machine.

Using more than the logo of voltage could lead to fire or shock.

- (3) Don't scratch the power cord.

Don't scratch the power cord or cut it.

Simultaneous, keep the power line far way from heated objects, put heavy things on it will lead to fires or electric shock.

Using machine

- (1) In case of the anomalies

Please turn off the power supply immediately when finding the abnormal phenomena, please connect with the agency.if you continue to use, it will likely fires or shock.

- The smoke or odor of the machine.
- The inside of the machine is flooded by water or foreign bodies intrusion.
- Machine falling or machine shell damage.
- The power cord damage (wire core is exposed of broken, etc)
- Fault (eg: it can't network, no sound ..etc)

- (2) Don't open the machine internal or modify the machine

Do not let foreign matters invade the machines internal.

Don't let the metal items or inflammable objects inserting machine such as foreign inserting machines or throw into the vents machines internal, otherwise will likely cause fires or electric shock.

- (3) Please do not touch it when thundering

To avoid electric shock, please do not touch the machine and the plug when lightning, etc.

- (4) Please do not place containers with liquid or small metal objects on machine above

If gets upset containers, and let the fluid inflow to the machine that will likely fires or cause shock.

- (5) Do not open the machine internal or modify the machine

The machine internal contains high voltage parts, once open the cover or modify the machine, it will likely fires or cause shock.

All the maintenance and other machine modification should be operated by professional personnel.

- (6) Maintenance and the precautions for not using in a long time

While maintenance, if the machine is not using for 10 days or more , please shut off power supply switch for safety. If do not

comply with this provision, it will likely cause electric shock or fires.

Product introduction

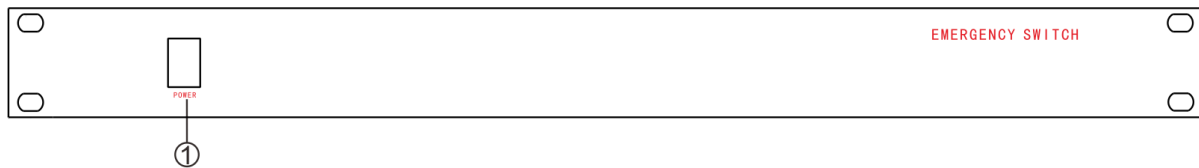
IP network interface unit is built-in independent intellectual property rights of the IP Audio digital network audio technology, it's equipped with the power input interface, alarm input/output interface, RJ45 network interface, etc.



- Using high-speed industrial dual-core chip (ARM + DSP), the start up time is less than 3 seconds.
- It can use multiple IP network interface unit in this system, to expand the interface. With 32 alarm input interface and 8 short circuit output interface.
- Auto-send alarm information to the server to execute playing task (support the next layer and all zones alarm).
- Alarm sound files is prestored in the server to spare "alert generator".
- Works everywhere as long as Ethernet available, support across the network segment and routing.

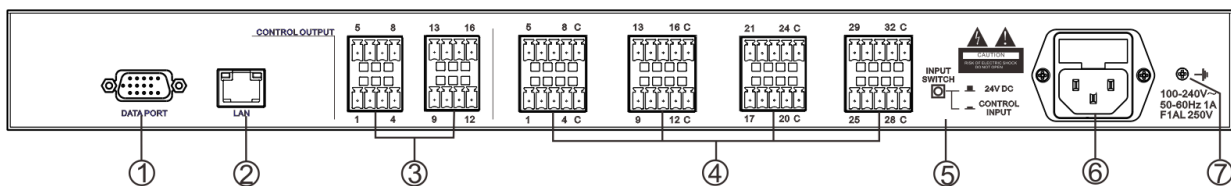
Hardware interface introduction

Front



① POWER: The power switch and power indicator light.

Back



- ① DATA PORT: Data updated interface, it's used for program upgrading.
- ② LAN: RJ45 network interface that connect with Ethernet switcher.
- ③ SHORT CIRCUIT OUT: Alarm output interface to provide 8 channels switch value signal, this interface is normally open contact, the contact capacity is DC24V / 1A.
- ④ Alarm input interface: providing 32 alarm signal input, this interface can set as " switch volume input" / "power input" through "INPUT SWITCH"; Clicking the "INPUT SWITCH" to "CONTROL IN" is switch volume input; Clicking again the "INPUT SWITCH" to "24VDC" is voltage input and the controlled power range is DC12V~DC24V.
- ⑤ Change-over switch: Control alarm input interface, it can directly change from switch value input and voltage input.
- ⑥ Power input interface: the suitable voltage range is AC100V-240V/50Hz~60Hz.
- ⑦ Ground connection terminal.

Introduction

Packing list

IP network interface unit is including the following fittings, please check the fittings before the installation. Please contact your supplier if any missing.

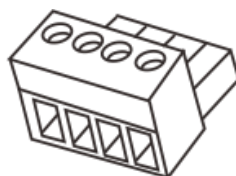
- (1) IP network interface unit 1pcs



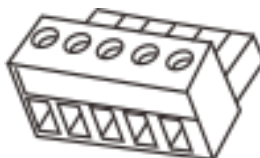
- (2) Double triangle plug the power cord (3*1.0mm²/1.5m) 1pcs



- (3) Connection terminal (3.81-4P) 4 pcs



- (4) Connection terminal (3.81-5P) 8 pcs



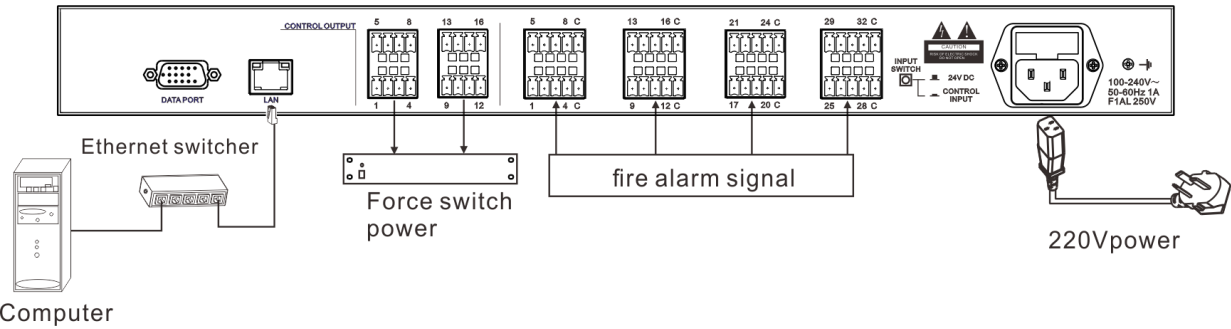
- (5) Quick installation manual 1pcs



- (6) Certification 1pcs

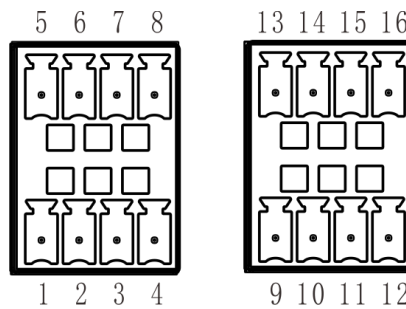


Wiring



Computer

- (1) Terminal “LAN” port can connect with switcher network output port.
- (2) Alarm output interface.

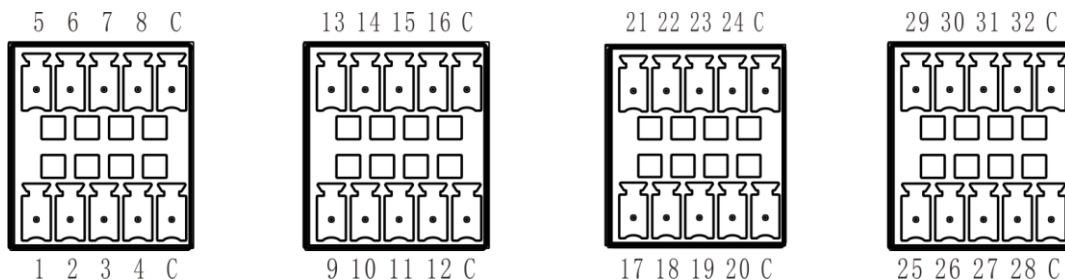


- ① 1、2 pin: alarm output1
- ② 3、4 pin: alarm output2
- ③ 5、6pin: alarm output3
- ④ 7、8pin: alarm output4
- ⑤ 9、10pin: alarm output5
- ⑥ 11、12pin: alarm output6
- ⑦ 13、14pin: alarm output7
- ⑧ 15、16pin: alarm output8

Force switch power

From real time broadcasting, timing ringing, fire alarm...etc these server tasks to select control force synchronizing signal, it can control force switch power. According to selected zones, terminal will close the corresponding Short circuit output port; Please refer to the server software operation manual for the detailed operation.

- (3) Short circuit input interface: it can connect alertor, alarm button, alarm switch and fire alarm signal...etc.



- ① 17-20pin: alarm input 17-20
 - ② 21-24pin: alarm input 21-24
 - ③ 25-28pin: alarm input 25-28
 - ④ 29-32pin: alarm input 29-32
 - ① 1-4pin: alarm input 1-4
 - ② 5-8pin: alarm input 5-8
 - ③ 9-12pin: alarm input 9-12
 - ④ 13-16pin: alarm input 13-16
- C: common port/voltage input negative

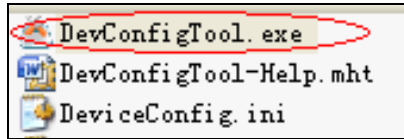
- (4) Make the double triangle plug power line one end to connect with IP network interface unit and the other end connect with power socket.

Basic Network Setting

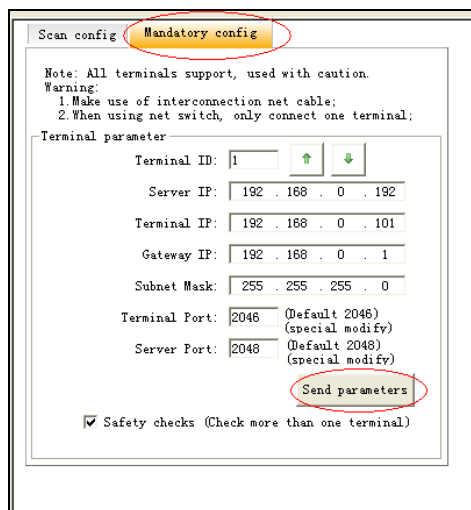
Connect the cable and power on as per the installation manual, then revise the terminal network parameters according to the live environment.

Terminal Equipment Scanning Tool

(1) From [CD: \ tools \] directory to find and run "IP configuration tool" audio terminal, after start it , please enter the default password "123456".



(2) From the right menu choose **【Mandatory config】** , then fill the correct parameters in the **【terminal parameters】** , click "send parameters" button to complete the IP parameters Settings.



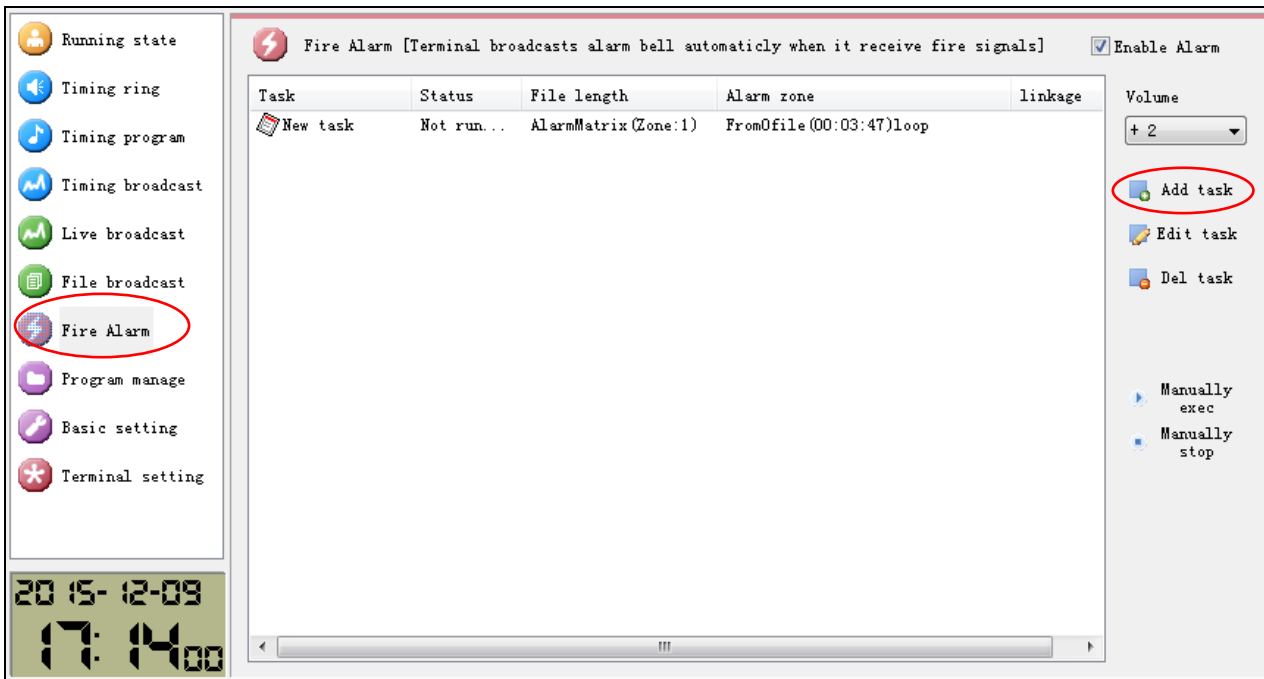
Remark:

1. When operate on win7 system, please running with administrator mode, and close firewall software.
2. Terminal scanning tools can only configure network parameters for one terminal at one time. When using this method to configure terminal network parameters, please make sure that a computer is only corresponding to a target terminal.

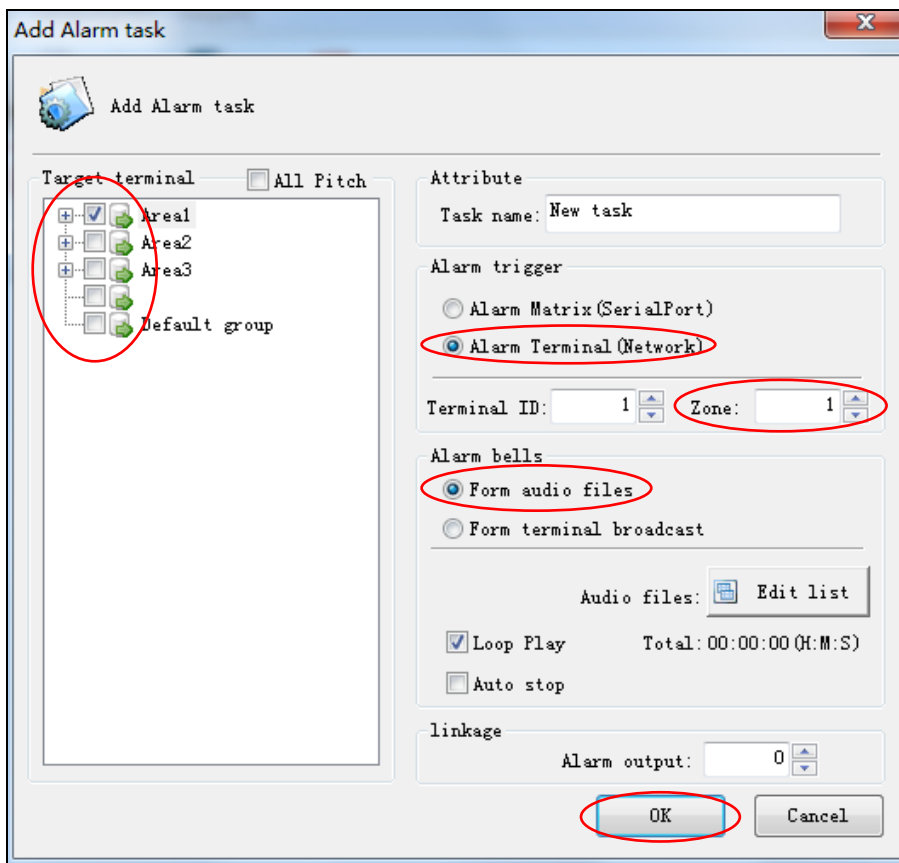
Basic function

Brief operation instructions

Running digital IP audio server software, click "fire alarm", enter into fire alarm interface;



Click "add task", the following interface will pop up:



In this dialog box, please operate as follows:

- ① From the target area option to select the corresponding zone box .
- ② From the trigger device option to select the "alarm terminal (network)" and input the corresponding terminal ID and port number (1-32) .
- ③ Select "from the audio file" in alarm option, it is necessary to add the audio files in the edit list.
- ④ Connect the system equipment and open the power, the power indicator will be brighten.
- ⑤ When the alarm triggered the signal, it will auto-inform the server for fire alarm.

Note: Please refer to the server software operation manual for specific operation.

Fault Exclude

Why it appears "terminal network services (UDP) start fail" warning within the process of start server software?

Appearing this warning information, it's usually the local network connection has been disconnected, please connect the local network cable well and exit the software, then restart it.

Why the terminal is still "offline"?

1).Check the software server and the main controller is normal opened or not. It's required to close all firewall before open the software server (including system built-in firewall and other antivirus software firewall) .

2).Check the network connection is normal or not. After the terminal powered on, the network port green light is norm on, meantime the orange light will be short and fast flash, it means the network cable hard-connected normal. If the network port green light is not on, it means the network hard-connected problem, please check the terminal network cable and switcher whether they work normal, damaged and disconnect or not etc.

3).Check the terminal IP setting. Please check the terminal ID, sever IP, local IP, gateway IP ...etc parameters.

Copyright Announcement

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