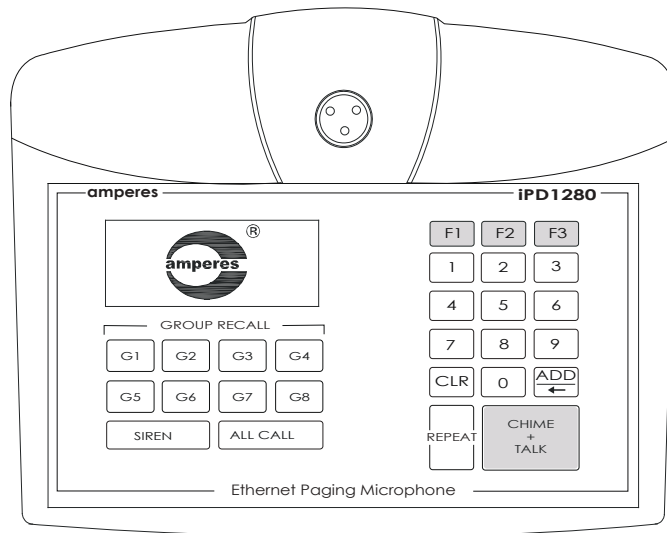




INSTRUCTION MANUAL

iPD1280

Ethernet Paging Microphone



Thank you for choosing another quality product from Amperes Electronics.

Amperes iPD1280, an ethernet version of PD1280 has been further improved with more responsive touch panel and other fixes to enhance the overall performance of the device.

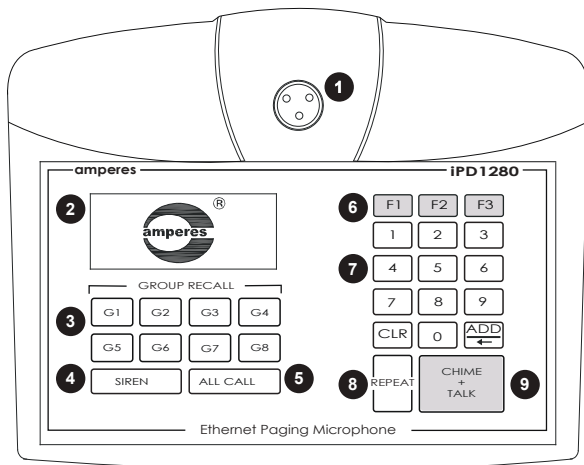
iPD1280 is used in Amperes iPX Ethernet paging installations and coupled with newer version of iPX5101 MKII controllers, up to 50 paging consoles can be activated to page simultaneously. This is essential if large installations are involved, such as mega size factory complexes, airports as well as hospitals.

In line with our continuous product improvement policies, we shall continue to upgrade our products to meet the demands of ever challenging requirements in EVAC systems.

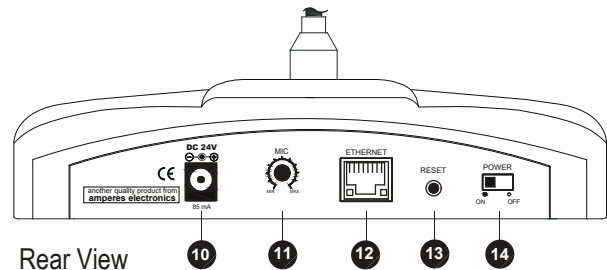


Ver 2 / 2023

Parts Identification



Top View



Rear View

1. PAGING MICROPHONE INLET

XLR inlet for gooseneck microphone. Use only condenser microphone supplied or those operates under 3 to 9V DC.

2. LCD DISPLAY

In default, the backlight is ON. The user has the option to turn off the backlight in setup.

3. GROUP RECALL

Zone grouping buttons which different zones can be grouped for easier paging process.

4. SIREN BUTTON

To activate chime, press this 3 times and then press “Chime + Talk” to activate upon a prompt at display. To turn off, press “Siren” button 3 times, Followed by “Chime + Talk”.

5. ALL CALL BUTTON

Pressing ALL CALL will trigger all normal zones and it will not trigger the VC overriding relays. Only Emergency calls are allowed to override relays.

6. F1 ~ F3 BUTTON

Function buttons for future add-on.

7. KEYPAD

Zone selections and programming are done via these keypad.

8. REPEAT BUTTON

Press repeat button for recall previous zone selection.

9. CHIME AND TALK BUTTON

Select the zones required before pressing this button. A chime shall start (if selected) and followed by mic activation, which is indicated by the illuminated ring at the microphone.

10. POWER CONNECTOR

24V DC power supply input.

11. MIC VOLUME CONTROL

Microphone output level can be adjusted according to site requirement.

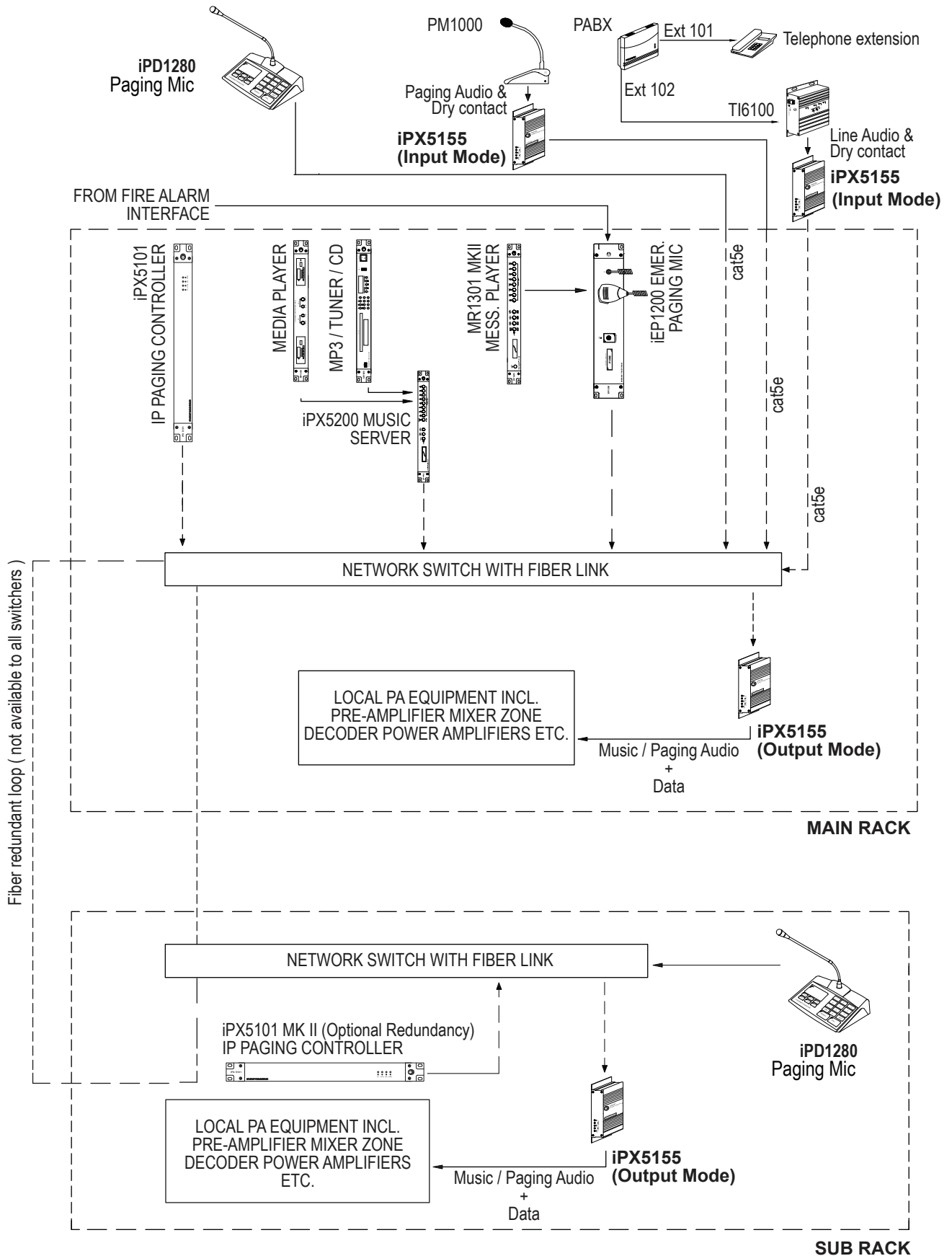
13. RESET BUTTON

Button for resetting the unit to factory default. Use only when required as setting done previously would be lost.

14. POWER SWITCH

Power switch for the unit.

General Schematic Diagram

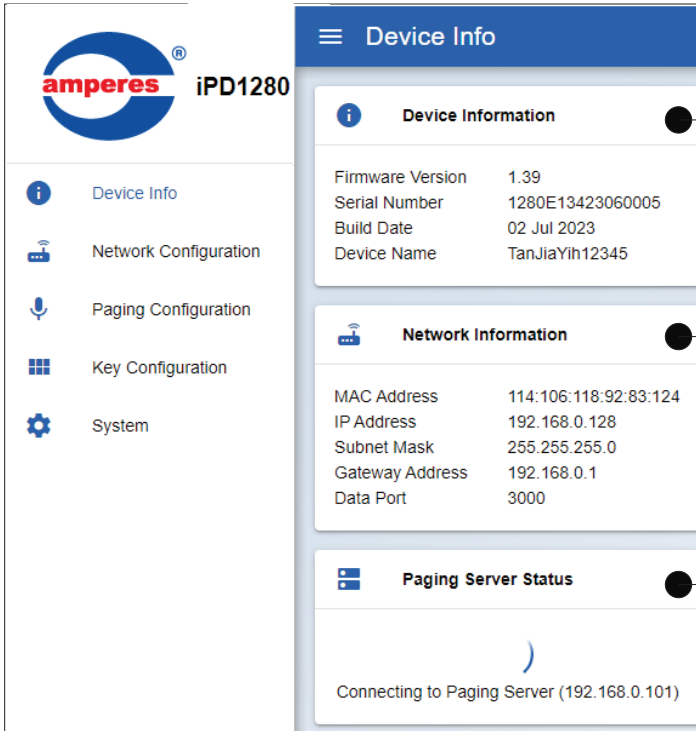


Note:

In a system, only one iPX5101 is required, no matter the size of the system or the number of clients installed.

Device Setup via Browser

Some simple setups via browser is required before operating. Enter the default IP address : 192.168.0.100. A login page shall appear. Enter the User ID and passwords with both as " admin "



DEVICE INFO

Device Information

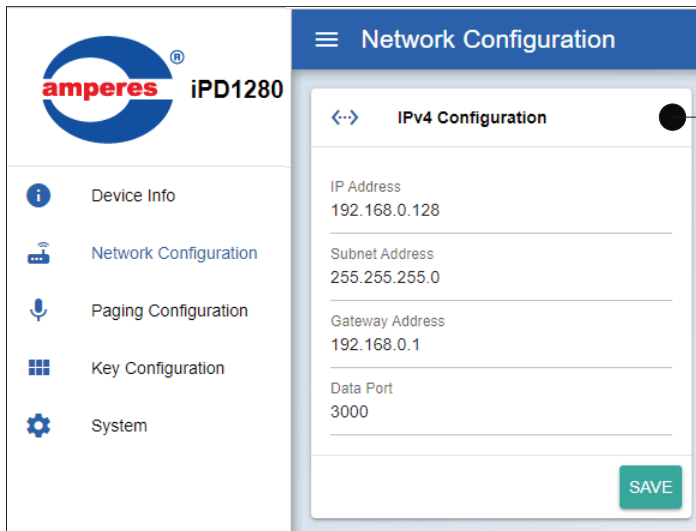
Displays firmware version, serial number, FW build date and the unique name assigned to this paging console

Network Information

All network related information of the device.

Paging Server Status

Shows connectivity of the device to the paging server (Amperes iPX5101) and its IP address.

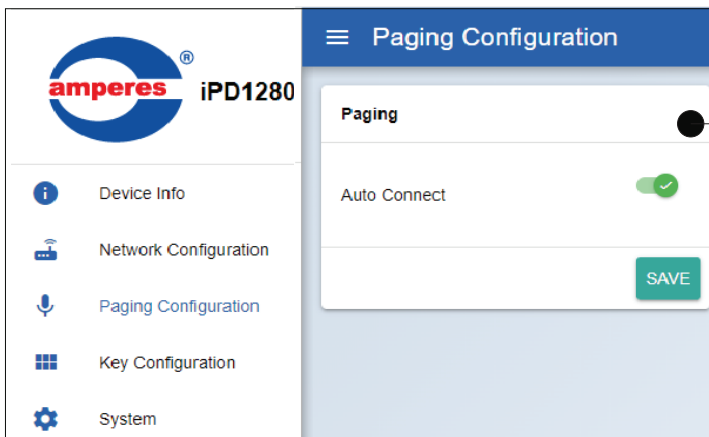


NETWORK CONFIGURATION

IPv4 Configuration

IP address setting is required for this page, namely the device's IP address and the Gateway address.

Data port to remain as 3000.



PAGING CONFIGURATION

Connection to iPX5101

Set this to auto as the device shall automatically search for the network controller.

This is important when a system is installed with redundant controller.

General Schematic Diagram

KEY CONFIGURATION

This page is to configure zone groupings (group 1 to 8)

The screenshot shows the 'Key Configuration' page with a blue header and a grid of 8 key configuration boxes. Each box contains a group key number and a corresponding range of numbers. At the bottom, there are 'REVERT' and 'SAVE CONFIGURATION' buttons.

Group Key	Range
Group Key 1	1-20
Group Key 2	21-40
Group Key 3	41-60
Group Key 4	61-80
Group Key 5	81-101,103,105
Group Key 6	102,104,106,110-130
Group Key 7	140-160
Group Key 8	254

The screenshot shows the 'System' configuration page for the 'amperes iPD1280' device. The page is divided into several sections: Unit Configuration, Authentication, Update Firmware, and Backup & Restore. Each section has a 'SAVE' button. The 'Unit Configuration' section includes fields for Device Name, Key Beep, Paging Priority, Paging Timeout, Display Timeout, Start Chime, End Chime, and Chime Volume. The 'Authentication' section includes fields for Username and Password. The 'Update Firmware' section has a 'SELECT FIRMWARE' button. The 'Backup & Restore' section has 'BACKUP CONFIGURATION' and 'RESTORE DEFAULTS' buttons.

SYSTEM

Unit Configuration

Device configuration for assigning :

- Unique device identification / name
- Keypad beep
- Device priority level setting
- Paging and display timeout
- Chime setting and its volume

Authentication

Device access setting to prevent unauthorized access to setting page.

Update Firmware

Firmware update .. refer to page 10.

Backup & Restore

For back up configuration to external file and to retrieve settings from saved file.

Device Setup

Apart from setup at web browser, the unit itself requires some setup, of which some are optional settings, such as :

- Setting priority level
- Optional setting for chime output, grouping, time out, etc.



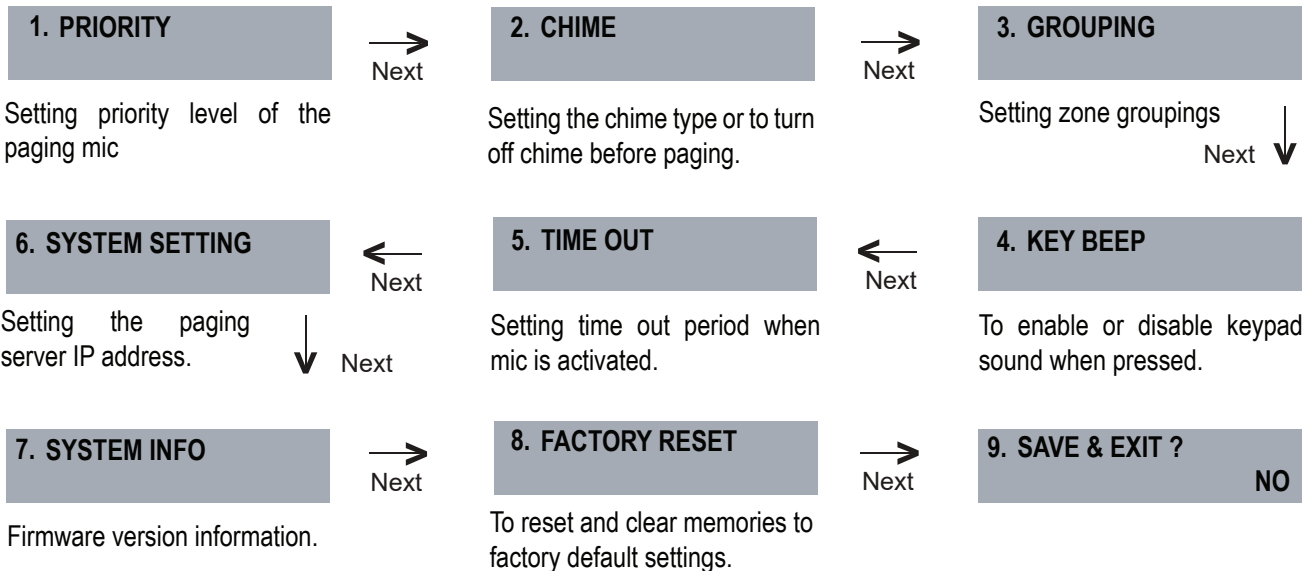
1. Press "0" button momentarily (3 seconds) to enter the setup mode.
2. Press "Add" for Next
3. Press "CLR" to Exit setup mode.

The first menu - Priority shall appear in setup mode.

Use ADD (Next) button to scroll down the menu or CLR (Prev) to view previous screen.

To enter a specific sub menu, press "0" key.

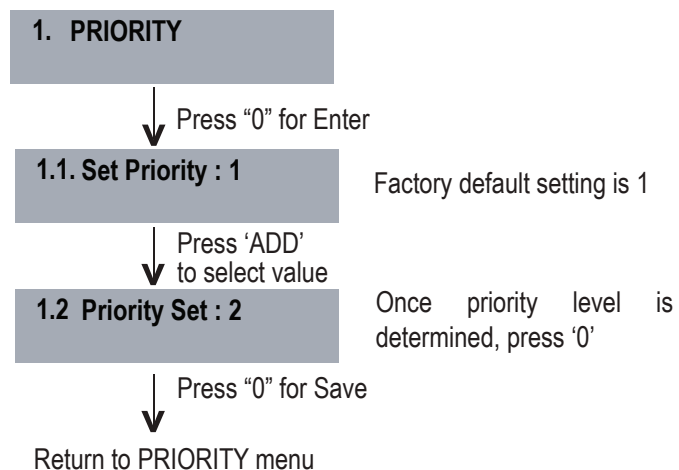
If no entry is made within 15 secs, the setup menu shall exit automatically and return to ready mode.



1. PRIORITY

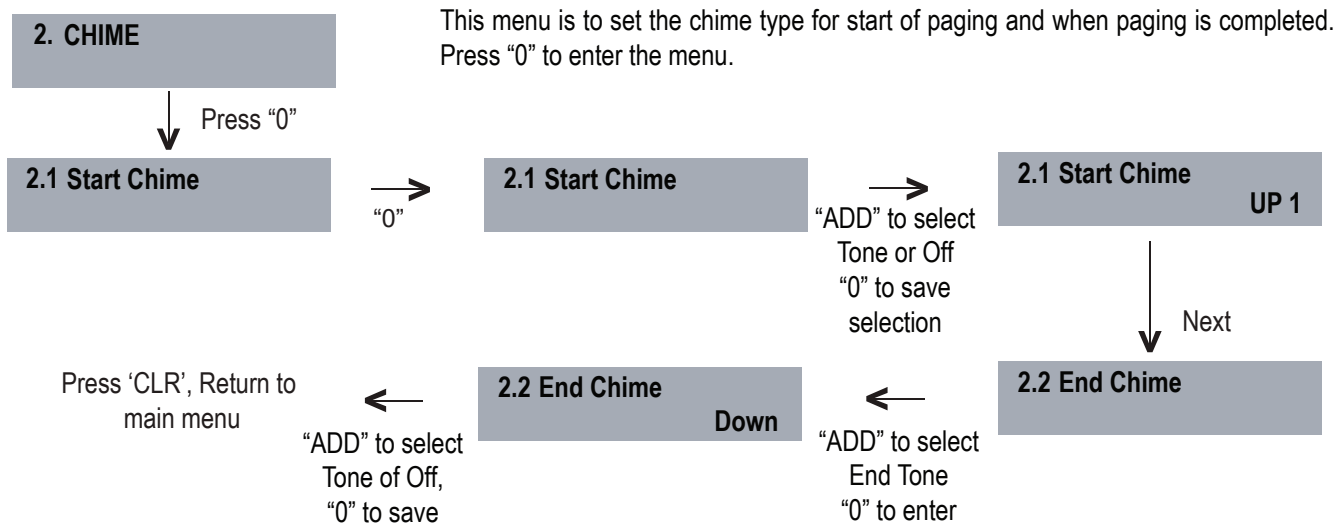
This menu is to set priority level of the paging mic, which Priority 1 is highest. 10 level of priority can be enabled.

Higher priority mic shall override the lower ones. If both same priority mic is activated, it can be set as FILO, or as preset at the paging server, (AOLP setting).

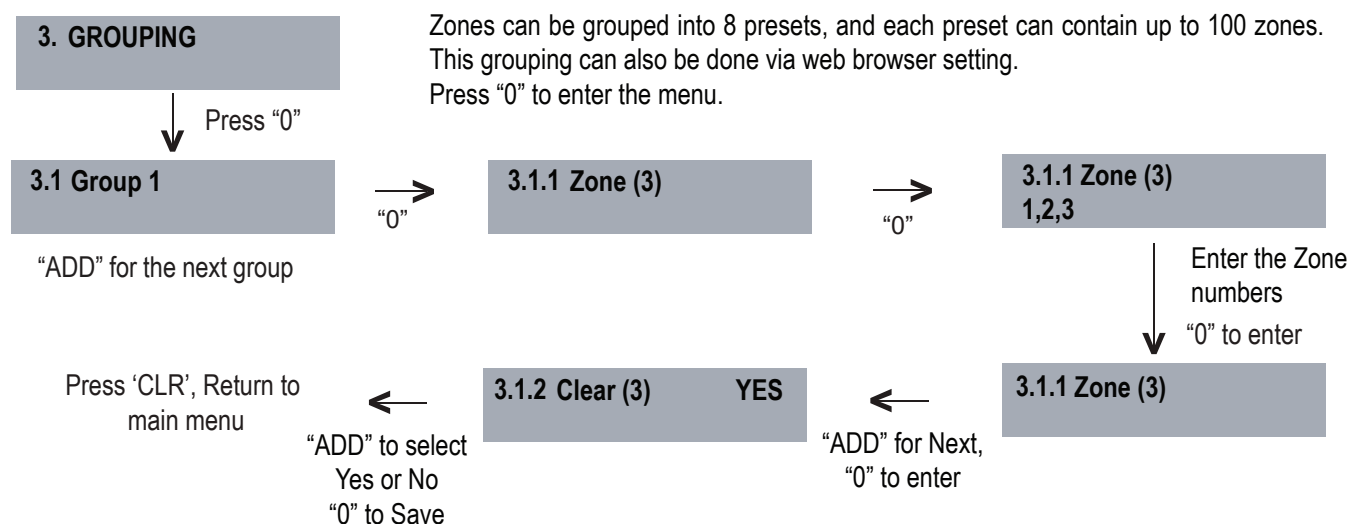


Device Setup

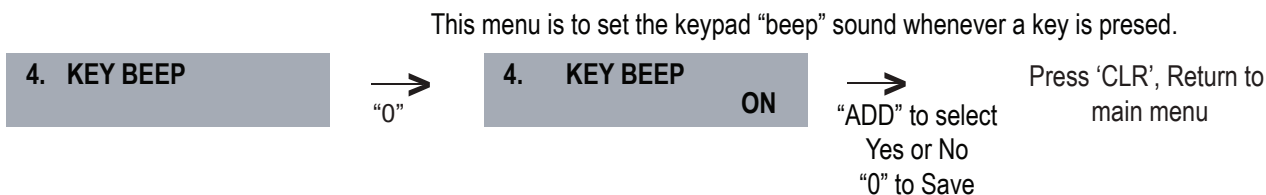
2. CHIME



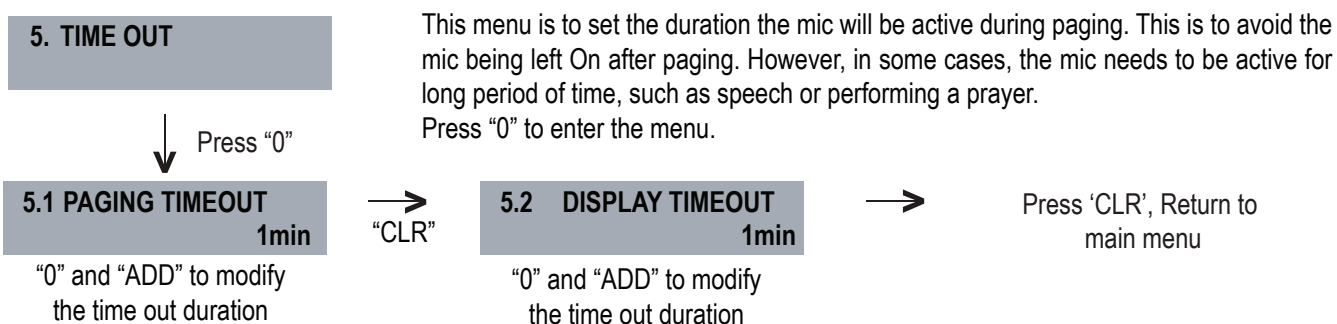
3. GROUPING



4. KEY BEEP



5. TIME OUT



Device Setup

6. SYSTEM SETTING

6. SYSTEM SETTING

This menu is to setup the IP address of the device and the intended Network Controller (iPX5101). It can also be done via web browser

↓ Press "0"

6.1 Paging Server IP :
Auto

→
"0" to save
"ADD" for Next

6.2 Data Port :
3000

→
"0" to save
"ADD" for Next

6.3 IP Address
192.168.0.101

↓
"0" to save
"ADD" for Next

Press 'CLR', Return to
main menu

←
"0" to save
"ADD" for Next

6.5 Gateway Address
192.168.0.1

←
"0" to save
"ADD" for Next

6.4 Subnet Mask
255.255.255.0

7. SYSTEM INFO

7. SYSTEM INFO

This menu is for reading information about the firmware version of the device and the assigned name to the paging console.
Press "0" to enter the menu.

↓ Press "0"

7.1 Firmware Version
V2.5

→
"ADD" to
Next

7.2 Device Name
Reception

→ Press 'CLR', Return to Main menu

8. FACTORY RESET

8. FACTORY RESET

This is to reset all preset parameters such as IP address, device name, groupings to factory defaults.
Press "0" to enter the menu.

↓ Press "0"

8. FACTORY RESET
NO

→
"ADD" to
select Yes or No
and press "0"

Press 'CLR', Return to Main Menu

9. SAVE & EXIT

9. SAVE AND EXIT

This is to reset all preset parameters such as IP address, device name, groupings to factory defaults.
Press "0" to enter the menu.

↓ Press "0"

9. SAVE AND EXIT
NO

→
"ADD" to
select Yes or No
and press "0"

Press 'CLR', Return to Main Menu

Operating the Unit

Ensure the paging mic is connected to the network, in which a prompt shall appear if the device is not in the system.

Follow the simple steps below to begin paging

1. DIRECT ZONE PAGING

Direct zone paging is when the user select the required zone and press CHIME + TALK button.

A chime shall be broadcasted followed by illuminated ring at the gooseneck mic.

To end paging, simply press the CHIME + TALK button again which would be followed by a downward chime.

Example :

To page zone 1 and 20

Press button "1"

Press button "ADD"

Press button "1" and "20"

Press "CHIME + TALK"

Talk when the LED ring at the mic is lit and to end, press "CHIME + TALK"

2. ALL CALL PAGING

To make an ALL CALL paging, press : "ALL CALL" followed by "CHIME+TALK"

To end paging, press : "CHIME + TALK"

In ALL CALL paging, all normal zones shall be activated. This is however, would not energise 24V DC overriding supply to override volume controllers. To enable overriding, we recommend the usage of iEP1200 or iEP1202.

Example :

To make all call to all normal zones (not overriding volume controllers)

Press "ALL CALL"

Press "CHIME+TALK"

Talk when the LED ring at the mic is lit and to end, press "Chime+Talk"

3. GROUP PAGING

Zone grouping allow a number of zones to be collectively paged, which normally are zones of same nature, such as all staircases, all zones within a floor, or all lobbies.

To page a group, press :

G1 (or others), "ADD" G2 (if required), Press "Chime + Talk".

To end call, press "Chime + Talk"

Group paging can be mixed with individual zone call.

Example :

To page Group 1 and individual zone 56

Press "G1"

Press "ADD"

Press "5", "6"

Press "CHIME+TALK"

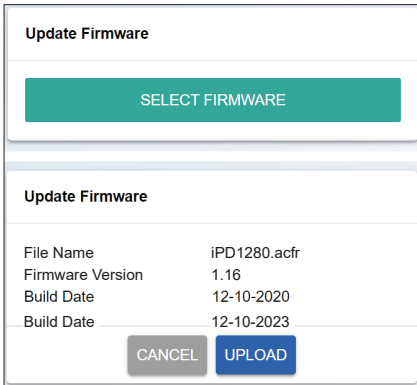
Talk when the LED ring at the mic is lit and to end, press "Chime + Talk"

Firmware Update

Update Firmware: System firmware shall be updated once in a while when new features are available or to fix bugs. There are two methods of firmware updating :

Update firmware in Normal Operation Mode

1. Open a browser and type in the iPD1280 IP Address. The default address is 192.168.0.100.
2. Under "System" page look for "Update Firmware" section as shown in below.



Click " SELECT FIRMWARE" and choose a binary file with ".acfr" extension. Click "UPLOAD".

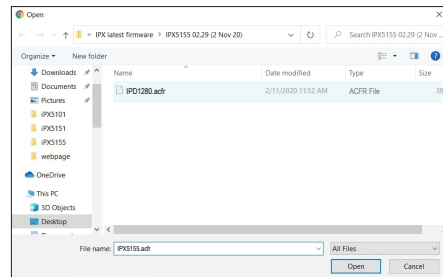
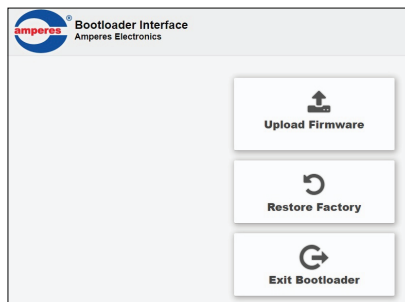
Once the update is completed, the browser should enter the login page.

Update firmware in Bootloader Mode

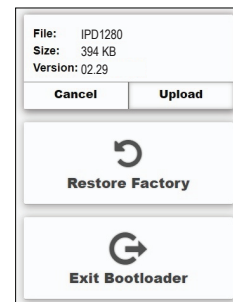
If the iPD1280 "hanged", it is required to perform system reset by :

1. Press & hold the reset button until " STREAMING " LED is turned ON. This will set the IP address to default address 192.168.0.100.
2. Open a browser and enter the IP address 192.168.0.100. A web page as shown below shall appear.
3. Select " Upload Firmware ", choose a binary file with ".acfr" extension and click "UPLOAD"
4. Once the uploading is completed, the browser shall enter the login page.

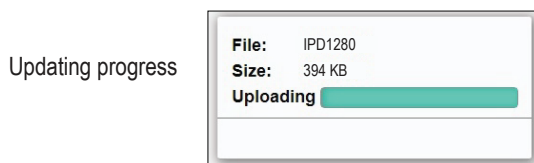
Click the Upload Firmware button to find the updated firmware file.



Find the updated firmware file.



Ready to upload, click Upload button to upload the firmware.



After finish updating firmware, the browser automatically restart.

Technical Specification

Operating voltage	24V DC
Power consumption	2.0W
24V power connector	1 x male barrel jack
Zone selection	Numerical keypad for Zones, Groups, Siren, All Call, Repeat, Chime + Talk
Switching selection	Sensor touch keypad
Microphone	Gooseneck condenser capsule; unidirectional
Chime	4 tone up and 4 tone down
LED Indicator	Zone, power, audio, data, gooseneck ring LED
Displays	LCD display; white back illumination
Frequency response	100 - 12KHz @ kHz +/- 3 dB
S / N ratio	>70 dB @ 1kHz
Audio conversion format	IMA ADPCM 36KHz 16 bit
Audio output controls	Mic from local and Chime from Web
LAN Interface	RJ45, 10 / 100T Base
Protocols	TCP / IP, UDP, IGMP, HTTP
Priority protocols	ADMP, ADP
Transmission mode	Unicast & Multicast
User interface	(Web browser) IE Ver 9 and above, Firefox or Google Chrome (preferred)
Gooseneck mic length	370 mm
Dimension (W x H x D)	230 x 192 x 65 mm (Excluding Mic)
Weight	850 g

Note:

The above specifications are correct at time of printing, but subject to changes without prior notice due to product improvements.

Warranty Conditions

Only Amperes Electronics Service Centres are allowed to make warranty repairs : a list of Amperes Electronics authorized service centres may be asked by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor. This warranty is not valid if repairs are performed by unauthorized personnel or service centres.

This warranty covers only repairs and replacement of defective parts. Cost and risk of transportation as well as removal and installation of the product from the main system are for the account of the purchaser. This warranty shall not extend to the replacement of the unit.

This warranty does not cover damages caused by misuse, negligence in application as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adapter not recommended by the manufacturer.

This warranty does not cover damages caused by fire, earthquakes, floods, lightning and every cause not directly related to the unit.

This warranty does not include any indemnity in favor of the purchaser or the dealer for the period out of use of the unit, moreover the warranty does not cover any damages which may cause to the people and things during the use of the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or identification labels applied to the unit or any other modifications to the physical unit other than its intended usage.

This warranty covers all the material and manufacturing defects and is valid for a period of 36 months from the date of purchase or for a specified period in countries where this is stated by a national law. In this case, the extension is valid only in the country where the product is purchased.

Amperes Electronics Sdn Bhd is not obliged to modify previously manufactured products under warranty if the design changes or improvements are made.

The purchaser is deemed to agree to the above warranty conditions once the product packaging is unpacked., Otherwise the product shall be returned to the seller in proper original condition.

Disclaimer

Information contained in this manual is subjected to change without prior notice and does not represent a commitment on the part of the vendor. Amperes Electronics Sdn Bhd shall not be liable for any loss or damages whatsoever arising from the use of information or any error contained in this manual.

It is recommended that all services and repairs of this product to be carried out by Amperes Electronics or its authorized service agents.

Amperes products must only be used for the purpose they were intended by the manufacturer and in conjunction with this operation manual.

Amperes Electronics Sdn Bhd cannot accept any liability whatsoever for any loss or damages caused by service, maintenance or repair by unauthorized personnel, or by use other than that intended by the manufacturer.



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