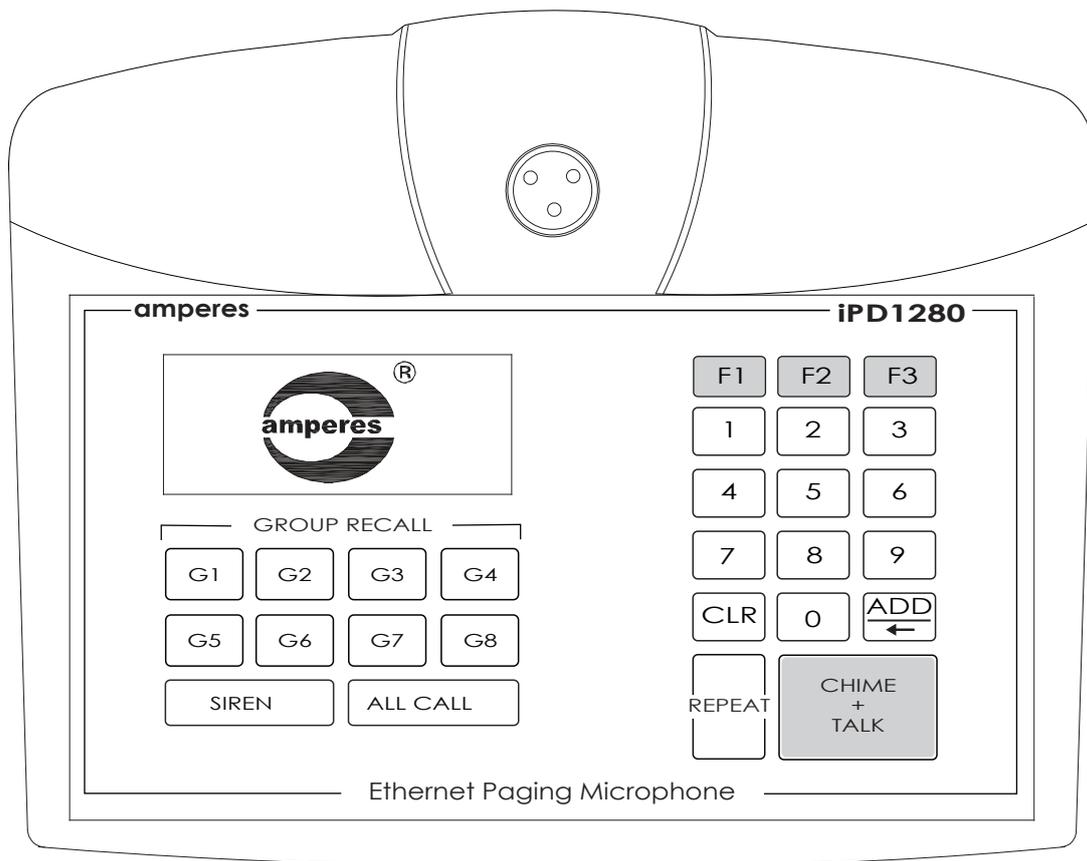




# INSTRUCTION MANUAL

## iPD1280

### ETHERNET PAGING MICROPHONE

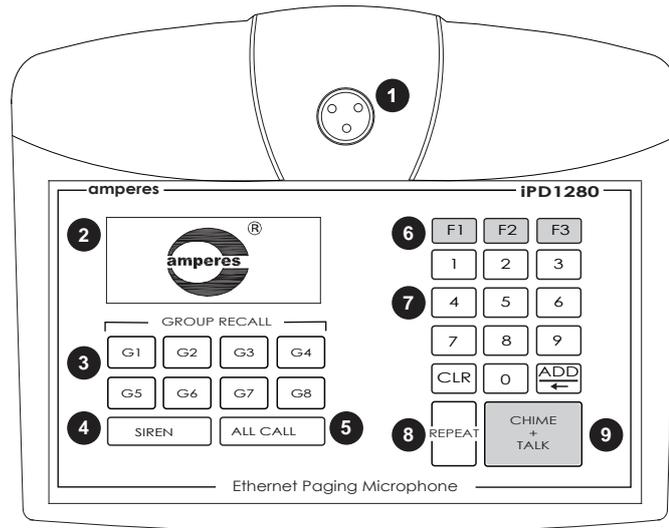


*Thank you for choosing another quality product from Amperes Electronics.*

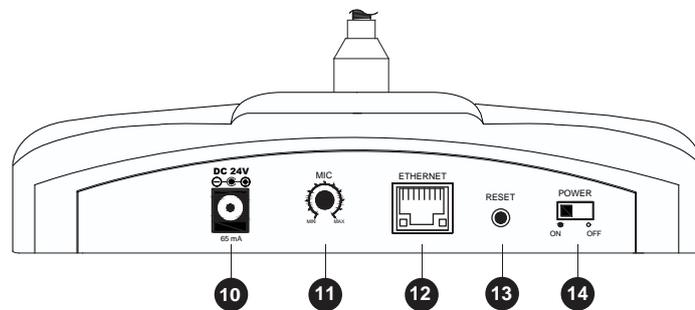
iPD1280 is the ethernet version of PD1280 desktop paging mic. It has all the features in the original version and connecting the paging console has been made simpler and cost efficient without the need of using iPX5151. Setting up is made easier with web browser, and with this, future additions to its functions would be just clicks away.

# 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 9 V.

## 2. LCD DISPLAY

Factory default display is with back light. User has the option to turn off. Please refer to setup section.

## 3. GROUP RECALL

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

## 4. SIREN BUTTON

Siren activation button to connect to EP1200 or iEP1200 to generate siren tone. To activate, press this 3 times and then "Chime & Talk".

## 5. ALL CALL BUTTON

Mic shall be activated instantly without chime, triggering all normal zones. Note that making ALL CALLs will not trigger the overriding relay at the zone selectors, thus the volume controllers set at minimum shall not be overridden.

## 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.

# Parts Identification

## 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.

## 12. ETHERNET PORT

Ethernet Port for connection to network switch.

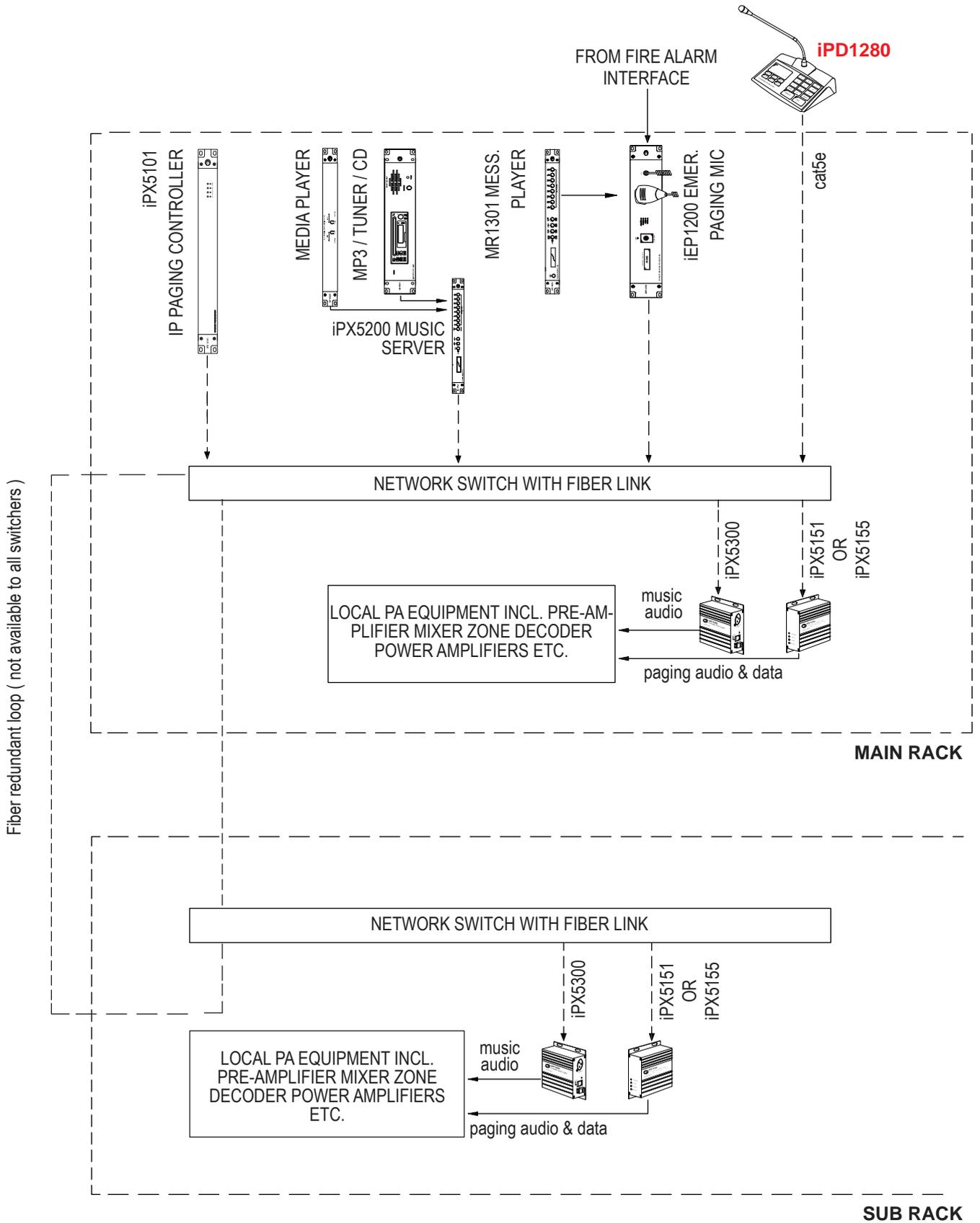
## 13. RESET BUTTON

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.

# Application Schematic

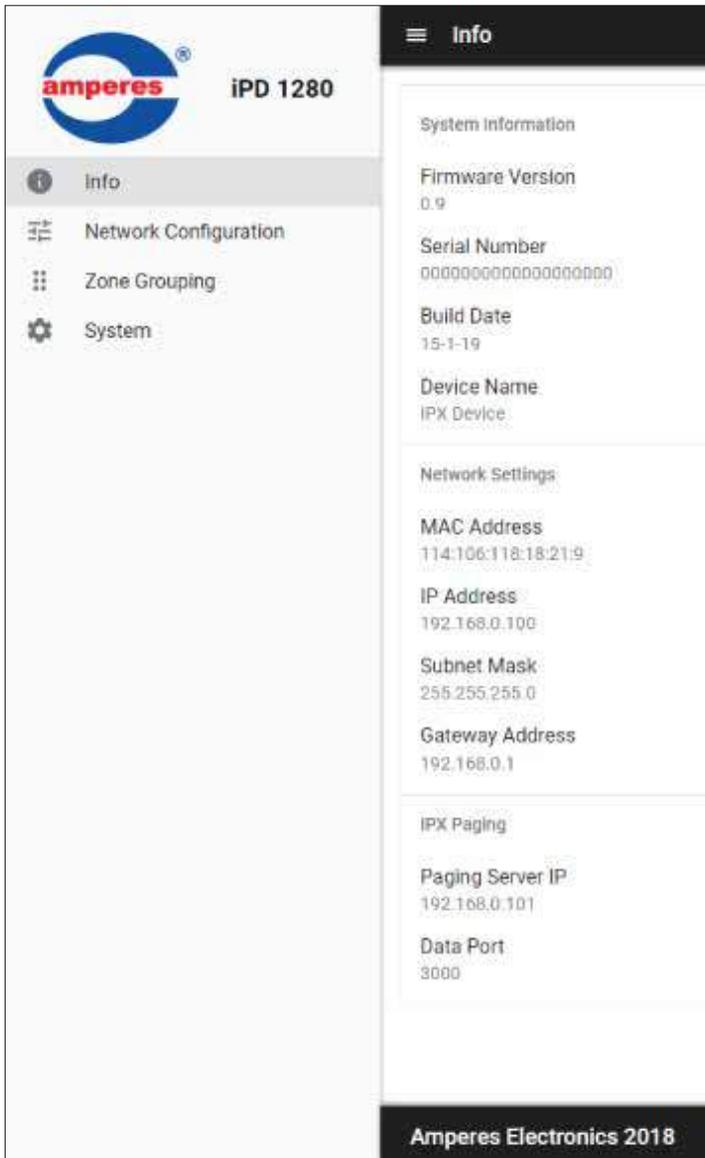


**Note:**

In a system, only one iPX5101 is required, no matter what the size of the system or the number of clients ( iPX5151 or iPX5155 ) are installed.

# Device Setup Via Browser

iPD1280 shall require some simple setups, kindly follow the step by step instructions as listed below. The default IP address is **192.168.0.100**. Login page shall appear and the default User ID and Password are both “**admin**”.



## Info / Main Page

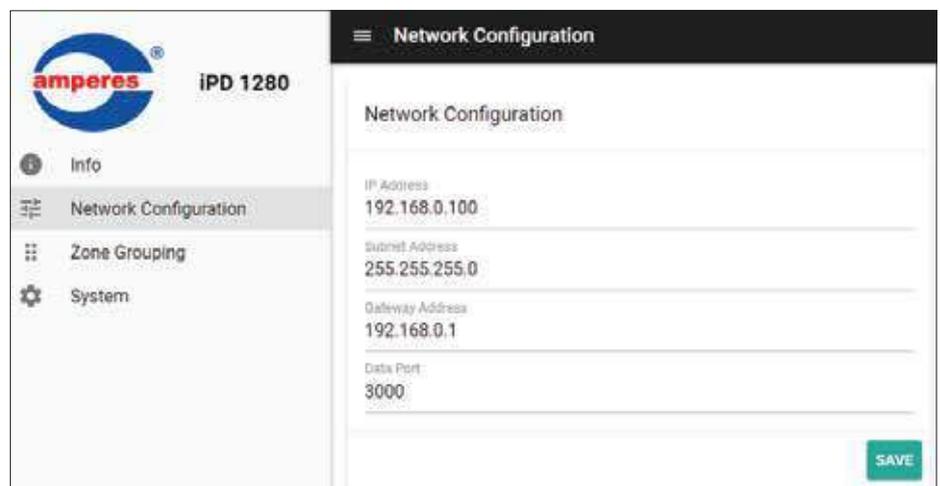
**Info:** Providing hardware, network and Application information. This shall be the first page once you entered the system’s http browser.

**Network Settings:** Information of IP address and its related ports.

**iPX Paging:** Shows the address of the paging server and its data port.

## Network Configuration

Unless required, you are recommended to change the IP address only, leaving other setting such as port number as default. Once the address has been changed to suit the environment, click the “Save” button.



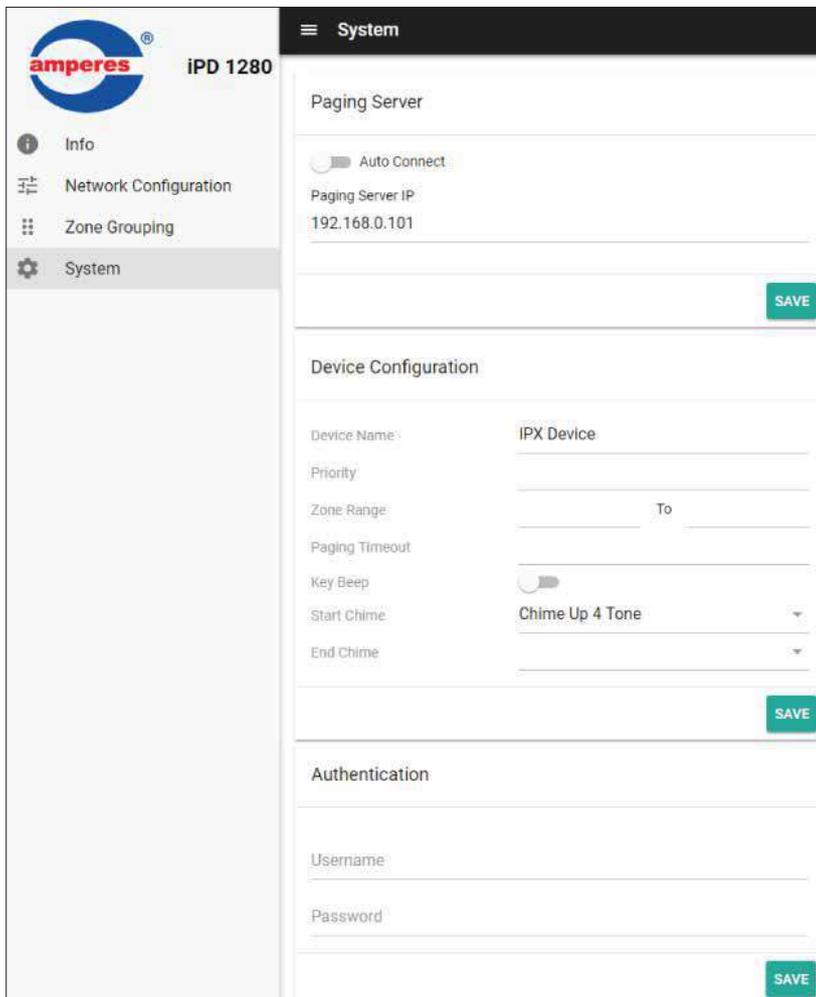
# Device Setup Via Browser

## Zone Grouping



For setting the Zone Grouping

This menu is for assigning zones to the Zone Grouping buttons. Zones appear in one group can be available in the other group.



## System

**Paging Server:** For setting the paging server.

**Paging Server IP:** To indicate the address of the iPD1280 of which the client is connected to.

**Device Configuration:** You can setting the Automatic Gain Control and Key Beep.

**Authentication:** You can alter the user name and password to avoid unnecessary access to the system.

### Note:

Ensure Paging Microphone is correctly set. If the paging source is iPD1280, the default IP address shall be 192.168.0.100.

This is one important page which requires the user to input the data such as the related.

# System Bootloading (Firmware / Browser Update)

System firmware or Browser shall be updated once in a while when new features are available or to fix bugs. There are 2 methods of doing;

## Server Reset Bootloading

If the client “hanged”, it is required to perform system reset by :

1. Default reset: Press & hold the reset button until LED “streaming” ON.
2. At the web browser, enter the IP address 192.168.0.100 and the page below shall appear. This is a “Safe Mode” page for Browser or Firmware update.

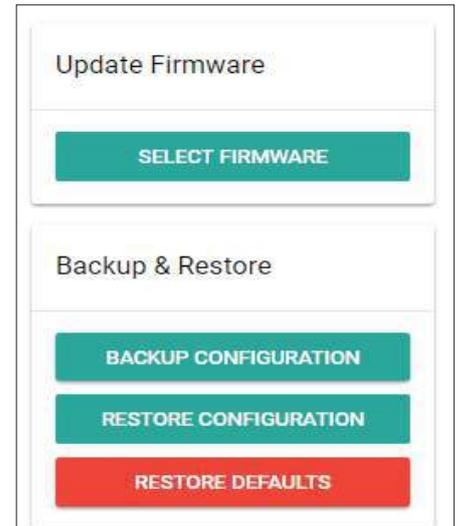
Safe mode: Press & hold the reset button until LED “status” ON.

## Update via Browser

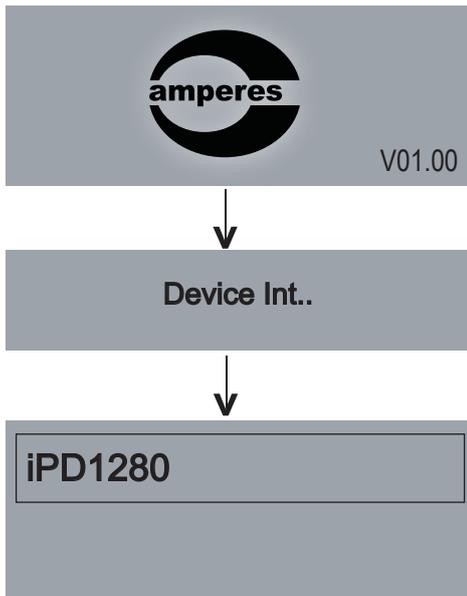
When it is required to update the units firmware for bugs fixing or features upgrade, you can manage it by using browser at its designated IP address (default at 192.168.0.100).

To update, follow the steps below:

1. Download the updated firmware from our website or source it directly from our service center. The file extension is “appbin”, save it in your PC.
2. Use browser (http) to access the unit, go to “ System Configuration ” and look for “ Update Firmware ”. Click “ Select Firmware ” tab and locate the file saved earlier.
3. Finish the update, restart the device and the unit shall operate under latest firmware.



## Unit Startup



Upon powering, the LCD display shall show the 'Amperes logo' and thereafter 'Device Initialising'.

Mic is ready for paging.

To operate the paging mic, please refer to section 'Operating The Unit' - page 14.

## Setup Menu

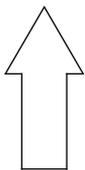
The setup required can be performed via browser or alternatively directly to the unit. We recommend using web browser for setup as this is the fastest and easiest way to do.



1) Press "0" button momentarily ( 3 seconds ) to enter Setup mode

2) Press "Add" button for next

3) Press CLR for Exit setup mode



When using for the first time, a simple setup is required such as:

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

# Setup Menu

To enter the Setup Main Menu, press '0' momentarily for 3 seconds and the first setup menu - 1. PRIORITY shall appear.

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

To enter a specific sub menu, press '0' button.

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

## 1. PRIORITY

Setting priority level of the paging mic.

↓ ADD ( Next )

## 2. CHIME

Setting the chime type for mic activation or off.

↓ ADD ( Next )

## 3. GROUPING

Setting the group for group a zones.

↓ ADD ( Next )

## 4. KEY BEEP

Enable or disable keypad sound when pressed.

↓ ADD ( Next )

## 5. TIME OUT

Setting time out period when mic is activated.

↓ ADD ( Next )

## 6. SYSTEM SETTINGS

Setting the paging server IP address.

↓ ADD ( Next )

## 7. SYSTEM INFO

Firmware version information.

↓ ADD ( Next )

## 8. FACTORY RESET

To reset and clear memories to factory default.

↓ ADD ( Next )

## 10. SAVE & EXIT?

NO

# Setup Menu

## 1. PRIORITY

Press “ 0 ” to enter this sub menu from the main directory.

This menu is to set the Priority level of the paging mic. Priority 1 is highest while No Priority is considered normal and is used in single point paging setup. Maximum can set 10 level priority.

1. PRIORITY

↓ Press “0” for Enter

1.1 Set Priority: 1

Factory default setting is 1

↓ Press ‘ADD’ to select value

1.1 Priority set : 2

Once priority level is determined, press ‘0’

↓ Press “0” for Save

Return to PRIORITY menu

## 2. CHIME

Press “ 0 ” to enter this sub menu from the main directory.

This menu is to set the chime type when the paging mic is on and followed by closing chime.

2. CHIME

↓ Press “0” for Enter

2.1 Start Chime :

↓ Press “0” for Enter

2.1 Start Chime :  
UP 1

↓ Press ‘ADD’ to select Tone or Off Tone  
↓ Press ‘0’ for Save

2.2 End Chime :

↓ Press ‘ADD’ to select 2nd Chime  
↓ Press “0” for Enter

2.2 End Chime :  
Down

↓ Press ‘ADD’ to select Tone or Off Tone  
↓ Press ‘0’ for Save

Press ‘CLR’, Return to main menu

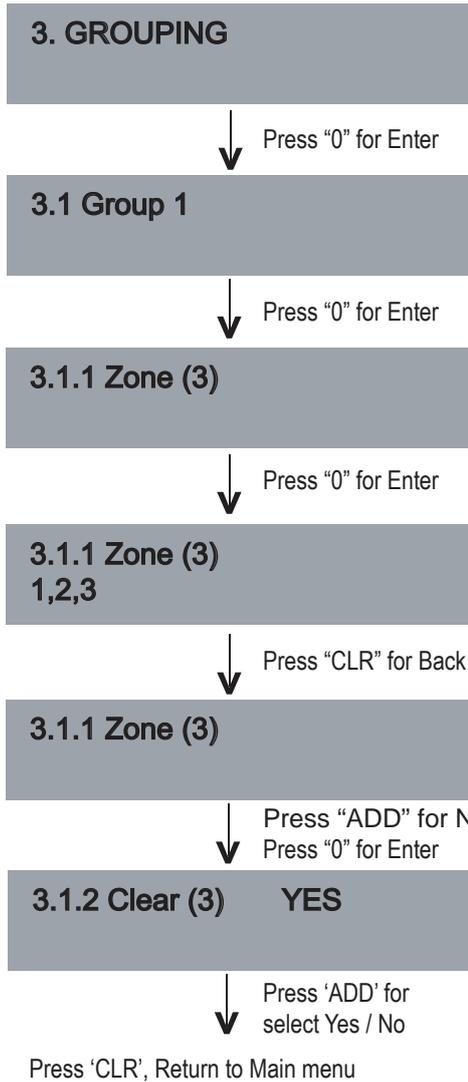
# Setup Menu

## 3. GROUPING

Press " 0 " to enter this sub menu from the main directory.

This menu is to create group of zones and group names in the system.

We recommend this setting to be done to enable faster response during paging.



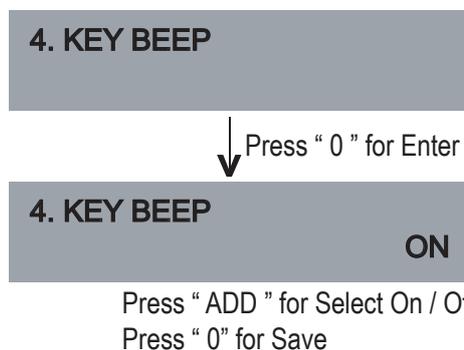
Press "ADD" for the next group ( Group 1 till Group 8 )

To view zone setting

## 4. KEY BEEP

Press '0' to enter this sub menu from the main directory.

To setup the " Key Beep " On/Off.



# Setup Menu

## 5. TIME OUT

Press '0' to enter this sub menu from the main directory.

This is to set the duration that the mic to be in active mode.

Setting the timeout would prevent the mic being turned on and left idle after an announcement is made.

There are time when the mic is required to be active for a longer period of time, such as making a long speech or performing a prayer using the PA system

### 5. TIME OUT

↓ Press "0" for Enter

#### 5.1 Timeout

1min

↓ Press "ADD" for Select  
Press "0" for Save

#### 5.2 Display Timeout

1min

Press "ADD" for Select  
Press "0" for Save  
Press "CLR" for Back

## 6. SYSTEM SETTING

Press '0' to enter this sub menu from the main directory.

To setup the IP address

### 6. SYSTEM SETTING

↓ Press "0" for Enter

#### 6.1 Paging Server IP:

192.168.0.100

↓ Press "0" for Enter

#### 6.2 Data Port:

3000

Press "0" for Select  
Press "ADD" to Next

↓

#### 6.3 IP Address:

192.168.0.101

↓ Press "0" to Save  
Press "ADD" for Next

#### 6.4 Subnet Mask:

255.255.255.0

↓ Press "0" to Save  
Press "ADD" for Next

#### 6.5 Gateway Address:

192.168.0.1

↓ Press "CLR" for Exit

Return to Main Page

# Setup Menu

## 7. SYSTEM INFO

Press '0' to enter this sub menu from the main directory.

To check the firmware version of the paging mic.

This is an important info when interfacing with external equipment, to check the compatibility as well as when servicing is required.

7. SYSTEM INFO

↓ Press '0' for Enter

7.1 Firmware Version v0 1.00

↓ Press "ADD" to Next

7.2 Device Name iPD1280

## 8. FACTORY RESET

Press '0' to enter this sub menu from the main directory.

Selecting this menu would revert whatever setup done earlier to factory default setting, such as zone groupings, chime setting, etc.

8. FACTORY RESET

↓ Press '0' for Enter

8. FACTORY RESET NO

Press "ADD" to Select Yes / No

## 9. SAVE AND EXIT

9. SAVE AND EXIT

↓ Press '0' for Enter

9. SAVE AND EXIT NO

Press "ADD" to Select Yes / No  
Press "0" for Enter

# Operating The Unit

A successful paging can only be achieved if network is connected, without it would be incomplete installation. Initial setup such as priority level should be set.

Follow the simple steps below to begin paging

## 1. DIRECT ZONE PAGING

Direct zone paging is when the user selects the required zone and presses 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 :

Performing a paging to zone 1 and 15.

Press button "1"

Press button "ADD"

Press button "1" and "5"

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, simply press the "ALL CALL" button, without having to press "CHIME + TALK" button.

Paging mic is ready for announcement once the LED ring is lit.

To end paging, simply press the "ALL CALL" button again.

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 EP1200.

Example :

Making call to all normal zones ( not overriding external volume controllers ).

Press "ALL CALL"

Talk when the LED ring at the mic is lit and to end, press "ALL CALL"

## ZONE GROUPING

Zone grouping enables easy access to a group of zones for paging. Press button '1' for group (1), press 'ADD' button to add the group.

Example of application :

All lobbies of different floors can be lumped under single group to allow simultaneous paging to all the floors.

Dialing  
1,2,3,4,



Press G1 Button momentarily (2 seconds)

Saving  
Group 1

To Recall :  
Press 'G1' and Press 'Chime + Talk'

# Technical Specifications

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 @ 1KHz +/- 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

# Warranty Conditions

Only Amperes Electronics Service Centres are allowed to make warranty repairs : a list of Amperes Electronics Service Centres may be asked for by the purchaser or send directly to Amperes Electronics Sdn Bhd at 70 Jalan Industri PBP 3, Tmn Perindustrian Pusat Bandar Puchong, 47100, Puchong, Selangor, Malaysia or its authorized dealers. 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 risks 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, neglect, accident of the product as well as using the product with power supply voltage other than shown on the product, or any other power supply source / adaptor 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 be caused to people and things when using the product.

This warranty certificate is valid only for the described product, and is not valid if modifications are made on this certificate or on the identification label applied on the product.

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.

# Disclaimer

Information contained in this manual is subject 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 on this product be carried out by AMPERES ELECTRONICS SDN BHD or its authorized service agents.

AMPERES series must only be used for the purpose they were intended by the manufacturer and in conjunction with this operating 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.



ISO 9001: 2015  
Design & Manufacture of Public Address Equipment and Systems  
Certificate No. 16895 / A / 0001 / UK / En



AMPERES ELECTRONICS SDN BHD  
MADE IN MALAYSIA  
Published : APRIL 2019