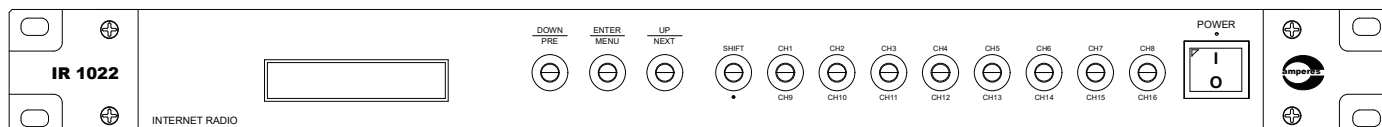




# INSTRUCTION MANUAL

## IR1022

Internet Radio Receiver



Thank you for choosing another quality product from Amperes Electronics

### Product in Summary

IR1022 is designed to bring the world of music directly to your PA system through internet streaming, which solves the issues of poor reception normally encountered in receiving off air FM signals. This stylish and compact device effortlessly connects to your Wi-Fi network or through network port, granting you access to thousands of internet radio stations around the globe.

It can also be used in community or close loop audio receptions from own broadcasting network, such as retail chains which would prefer centralised audio broadcast.



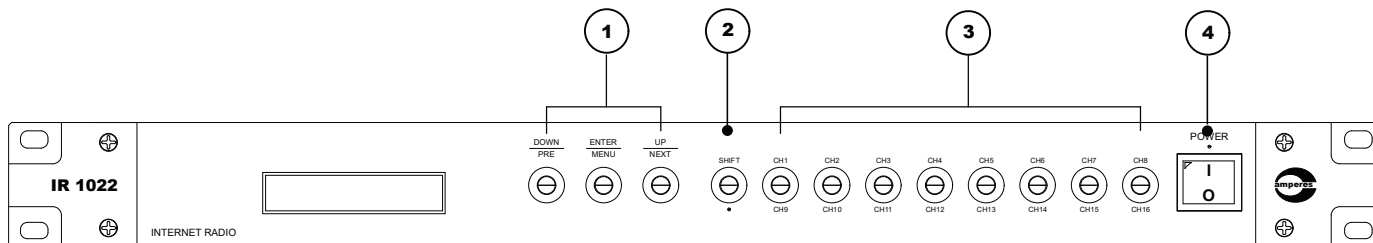
Scan to view catalogue and latest updates  
Ver 10 / 0924

In our support towards environment, we shall no longer print manuals to be accompanied with each product. Please view through browser and print them only when necessary.

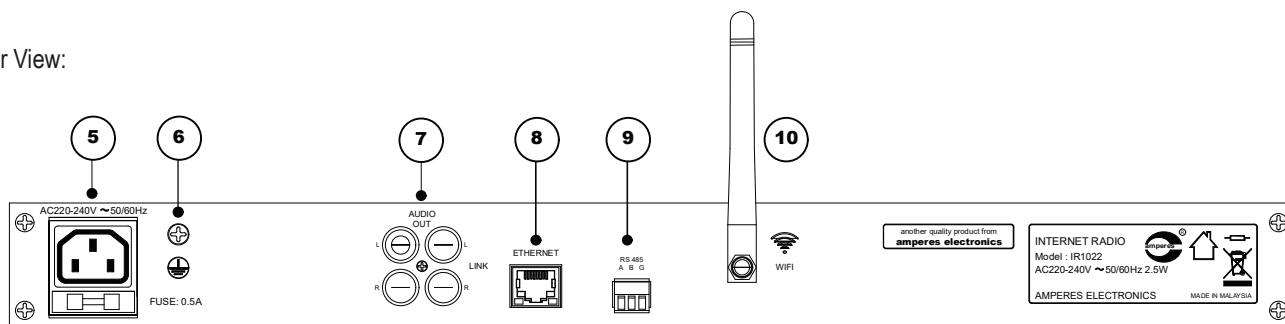


## Parts Identification

Front View:



Rear View:



### 1. MENU BUTTONS

Channel volume, pause functions and system information are accessed via these switches.

### 2. SHIFT KEY

When press and lits, it shall change the buttons to next page for Ch.9 to Ch.16.

### 3. CHANNEL BUTTONS

8 buttons are available to select the streaming channel from 1 to 8 and 9 to 16 when shift key is activated.

### 4. POWER SWITCH

This switch turn ON or OFF the ac incoming power. There is no DC back up for the device.

### 5. AC INLET

The device operates on 220 - 240 V AC with fused IEC socket. Use 0.5 A fuse for replacement.

### 6. GROUND TERMINAL

This is body ground, when required, ground it to reduce noise.

### 7. OUTPUT JACKS ( RCA )

Output is Line level unbalanced with RCA Left and Right jacks.

### 8. LAN PORT

Connect the device to LAN. Internet connectivity is required.

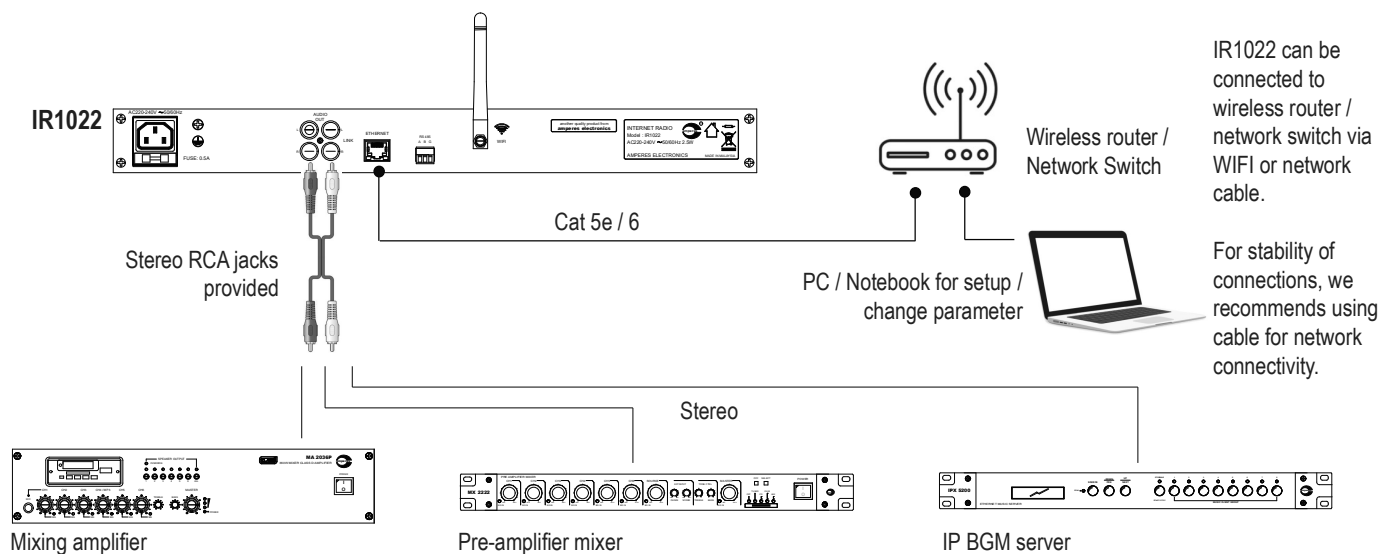
### 9. RS485 PORT

It is used for firmware updates and remote controls

### 10. WIFI ANTENNA

The device can be connected to LAN via Wi Fi. For smooth reception and loss of signal, wired connection is preferred.

## Connection Diagram

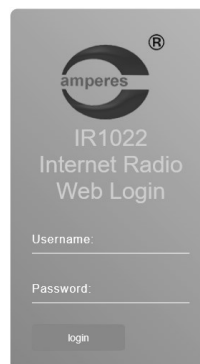


## Setup

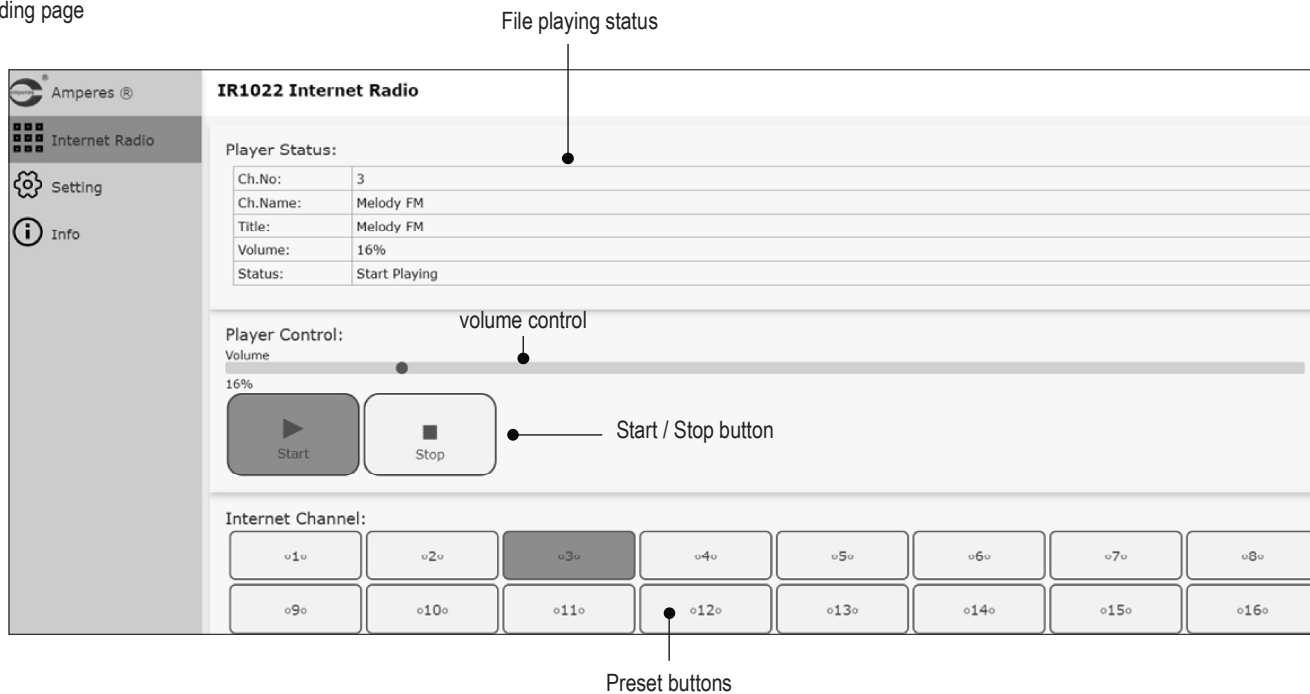
Some initial simple setup through the web interface is required for :


- Set the devices unique IP address
- Load the internet radio stations
- Set the front panel buttons for direct access to the radio stations.

To access the webpage, the default IP address is **192.168.0.100** with User and Passwords as "admin".



Landing page



 Amperes®  

Internet Radio

Setting

Info

## IR1022 Internet Radio

**Player:**  
 Auto Play:  
☒ On ☐ Off

**Network:**  
 Connection Type:  
☒ Wifi ☐ Ethernet  
 IP Address:  
☒ Static IP ☐ Dynamic IP  
 Wifi Ssid: AVCraft-Admin  
 Wifi Password: .....  
 IP Address: 192.168.1.122  
 Subnet Mask: 255.255.255.0  
 Gateway Address: 192.168.1.1  
 DNS Address: 192.168.1.1  
 Port: 80  
 User: admin  
 Password: .....  

Save

**Save Configuration:**  
[Download Configuration File](#)  
 Restore Configuration:  No file chosen

**Internet Radio Channel:**  
[Download Radio Channel List](#)  
 Upload Radio Channel List:  
 No file chosen

**Firmware & Webpage Update:**  
[Update Device](#)

This is to set the player to start play last selected station upon powering up the device

Select the connection type of the player to the internet.

It is recommended to select static IP for network connection

Set the network parameter and user / password.

Parameters can be saved to a file and can be restored when required

Also refer to "Download Internet Radio Stations". It is for changing or adding a radio station to the device.

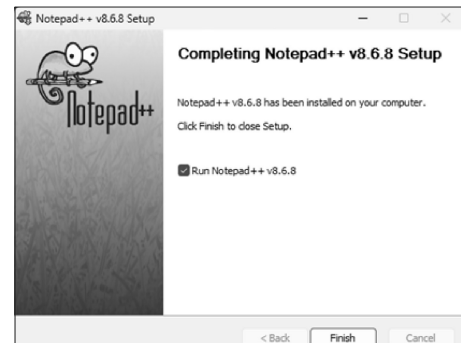
Firmware updates will be available from time to time for product improvement. Use this tab to perform device update.

## How to Download Radio Stations

The URL link to the internet radios are normally pre-loaded for your convenience, based on the country it is sold. However, you may wish to change, add or delete certain stations to your desire.

The process of changing the stations may not be that straight forward, and hereby, follow the instructions below to perform station / preset alterations.

1. Download Notepad++ to your PC  
After download, install it to your PC

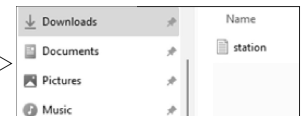


2. Open the web browser of IR1022 by typing the web address of the device.

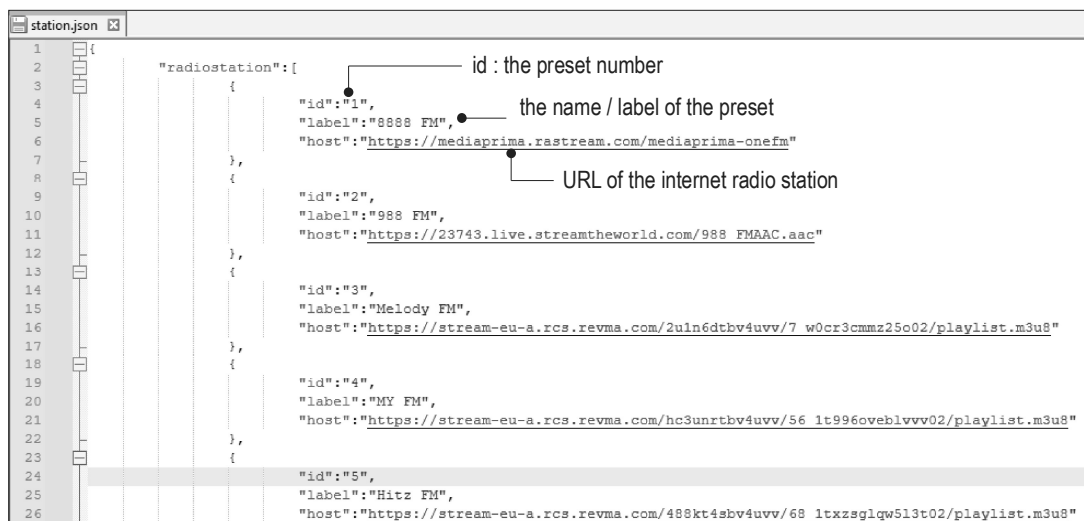
- Click the setting icon at the left side of menu bar



- At the Internet Radio Channel, click the "Download Radio Channel List".  
The downloaded file will be saved as "Station" in the download folder of PC.  
The file format is json.



3. Run Notepad++ and open the file "station", you shall see the list of stations as previously downloaded to you device.



Screenshot of json file which shows the id ( preset number ), label of the id and the host address.

4. Copy the URL of the radio station you found and replace it at the particular id's host name.  
Change the label name to your preference for easy identifications. To search the host name, please refer to page 6.

Once necessary changes has been made, save the file. Take note that the file must be save as "station" without adding any other unique name. The device may not recognise other names apart from the default "station"

## How to Download Radio Stations

- Upload the revised json file to IR1022  
At IR1022 web interface, click the file to upload to the device



- Reset power of IR1022  
The changes will be effective once the device's power is reset, and you shall see the changes at the buttons.



## Locating Internet Radio Stations

There are various websites available in the internet to search for your desired radio stations. Some may be tricky to find the exact URL and some previously preloaded URL may change or stop working, which is beyond our control. The host may change the address periodically and Amperes shall not be responsible for any disconnection of the streaming.

Among music streaming websites are :

surfmusic.de  
fmstream.org      We shall endeavor to provide URL soon and post them in website.

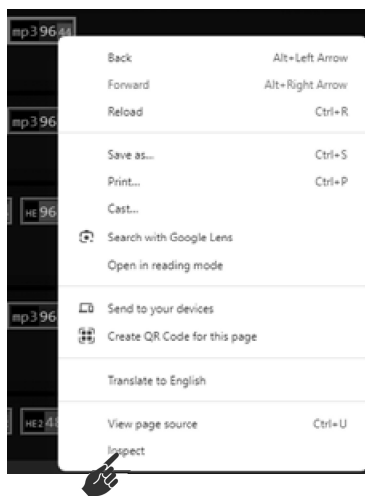
Below are the ways to locate the URL of stations from fmstream.org.

- Open the online website

Open the website and locate the country required, example : Singapore

- Right click the box

Right click and select "Inspect"



- Locate the URL for the streaming source and copy this link address, choose either aac or mp3.  
Copy this address to the json file, replacing the Preset Number's link.

```
<div class="sqdiv">
  <div class="sq" title="https://playerservices.streamtheworld.com/api/livestream-redirect/KISS_92AAC.aac">
  <div class="sq emp" title="https://playerservices.streamtheworld.com/api/livestream-redirect/KISS_92.mp3">
```

### IMPORTANT NOTES :

IR1022 is only providing a player medium for the radio stations. Owner of the device is responsible to obtain the necessary licence or permission to broadcast the contents for commercial use.

## Internet Radio Stations from Website

### Sample list of radio stations in Malaysia

Currently there are approximately over 110 radio stations in Malaysia, including regional ( state ) and national stations. Below are some links. ( as at Oct 24 )



[https://stream.rcs.revma.com/qp0xrd9mt3vv/8\\_1lc7f9yiduykj02/playlist.m3u8](https://stream.rcs.revma.com/qp0xrd9mt3vv/8_1lc7f9yiduykj02/playlist.m3u8)



[https://playerservices.streamtheworld.com/api/livestream-redirect/988\\_FM.mp3](https://playerservices.streamtheworld.com/api/livestream-redirect/988_FM.mp3)



[https://stream-eu-a.rcs.revma.com/azatk0tbv4uvv/8\\_1ksmof3jo7vso02/playlist.m3u8](https://stream-eu-a.rcs.revma.com/azatk0tbv4uvv/8_1ksmof3jo7vso02/playlist.m3u8)



[https://wz.mari.co.id:1936/mpa\\_hotfm/hotfm/playlist.m3u8](https://wz.mari.co.id:1936/mpa_hotfm/hotfm/playlist.m3u8)



[https://stream-eu-a.rcs.revma.com/hc3unrtbv4uvv/56\\_1t996oveblvv02/playlist.m3u8](https://stream-eu-a.rcs.revma.com/hc3unrtbv4uvv/56_1t996oveblvv02/playlist.m3u8)



[https://stream-eu-a.rcs.revma.com/v5pq3htbv4uvv/40\\_wqselj3z5ieg02/playlist.m3u8](https://stream-eu-a.rcs.revma.com/v5pq3htbv4uvv/40_wqselj3z5ieg02/playlist.m3u8)



[https://28103.live.streamtheworld.com/SURIA\\_FMAAC.aac](https://28103.live.streamtheworld.com/SURIA_FMAAC.aac)



[https://stream-eu-a.rcs.revma.com/2u1n6dtbv4uvv/7\\_w0cr3cmmz25o02/playlist.m3u8](https://stream-eu-a.rcs.revma.com/2u1n6dtbv4uvv/7_w0cr3cmmz25o02/playlist.m3u8)



[https://stream.rcs.revma.com/crec9cmbv4uvv/9\\_1l25anyp33eqs02/playlist.m3u8](https://stream.rcs.revma.com/crec9cmbv4uvv/9_1l25anyp33eqs02/playlist.m3u8)



[https://stream.rcs.revma.com/bn4ex8sbv4uvv/5\\_18oihpcuu06zk02/playlist.m3u8](https://stream.rcs.revma.com/bn4ex8sbv4uvv/5_18oihpcuu06zk02/playlist.m3u8)



[https://23693.live.streamtheworld.com/MINNAL\\_FMAAC\\_SC](https://23693.live.streamtheworld.com/MINNAL_FMAAC_SC)



[https://stream-eu-a.rcs.revma.com/488kt4sbv4uvv/68\\_1txzsglw5l3t02/playlist.m3u8](https://stream-eu-a.rcs.revma.com/488kt4sbv4uvv/68_1txzsglw5l3t02/playlist.m3u8)



[https://stream.rcs.revma.com/q17aka9mt3vv/5\\_kz377iwfalky02/playlist.m3u8](https://stream.rcs.revma.com/q17aka9mt3vv/5_kz377iwfalky02/playlist.m3u8)



[https://stream.rcs.revma.com/3930238mt3vv/16\\_10g63g6hekv5x02/playlist.m3u8](https://stream.rcs.revma.com/3930238mt3vv/16_10g63g6hekv5x02/playlist.m3u8)

### Sample list of radio stations in Singapore

Currently there are approximately over 60 radio stations in Singapore. Below are some of the stations' link.



[https://playerservices.streamtheworld.com/api/livestream-redirect/KISS\\_92AAC.aac](https://playerservices.streamtheworld.com/api/livestream-redirect/KISS_92AAC.aac)



[https://playerservices.streamtheworld.com/api/livestream-redirect/ONE\\_FM\\_913AAC.aac](https://playerservices.streamtheworld.com/api/livestream-redirect/ONE_FM_913AAC.aac)



[https://playerservices.streamtheworld.com/api/livestream-redirect/POWER98\\_LOVESONGSAAC.aac](https://playerservices.streamtheworld.com/api/livestream-redirect/POWER98_LOVESONGSAAC.aac)



[https://playerservices.streamtheworld.com/api/livestream-redirect/UFM\\_1003AAC.aac](https://playerservices.streamtheworld.com/api/livestream-redirect/UFM_1003AAC.aac)



<https://playerservices.streamtheworld.com/api/livestream-redirect/CLASS95AAC.aac>



[https://playerservices.streamtheworld.com/api/livestream-redirect/MONEY\\_893AAC.aac](https://playerservices.streamtheworld.com/api/livestream-redirect/MONEY_893AAC.aac)



<https://playerservices.streamtheworld.com/api/livestream-redirect/883JIAAAC.aac>



<https://playerservices.streamtheworld.com/api/livestream-redirect/RIA897FMAAC.aac>



<https://playerservices.streamtheworld.com/api/livestream-redirect/CAPITAL958FMAAC.aac>



<https://playerservices.streamtheworld.com/api/livestream-redirect/SYMPHONY924.mp3>



<https://playerservices.streamtheworld.com/api/livestream-redirect/WARNA942FMAAC.aac>



<https://playerservices.streamtheworld.com/api/livestream-redirect/987FMAAC.aac>



<https://playerservices.streamtheworld.com/api/livestream-redirect/GOLD905AAC.aac>



<https://playerservices.streamtheworld.com/api/livestream-redirect/OLI968FMAAC.aac>



<https://playerservices.streamtheworld.com/api/livestream-redirect/AXRAAC.aac>

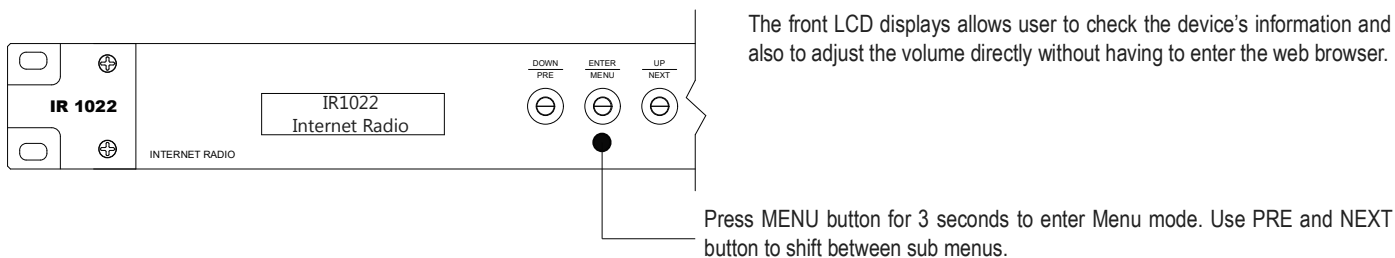


[https://playerservices.streamtheworld.com/api/livestream-redirect/HAO\\_963AAC.aac](https://playerservices.streamtheworld.com/api/livestream-redirect/HAO_963AAC.aac)

### IMPORTANT NOTES :

IR1022 is only providing a player medium for the radio stations. Owner of the device is responsible to obtain the necessary licence or permission to broadcast the contents for commercial use.

## Front Menus

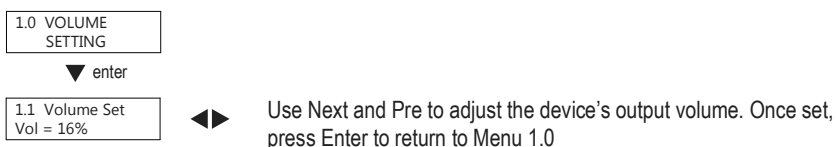


### Main menus



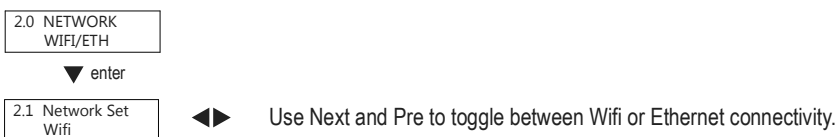
### Volume setting

The menu is to adjust the device's output volume.



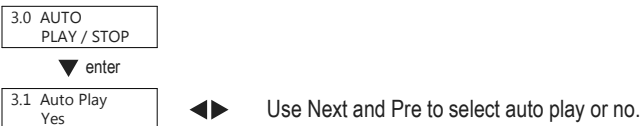
### Network setting

It is used to select the device's connection method to the network.



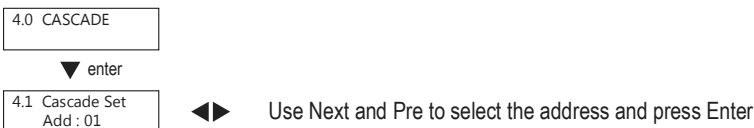
### Auto Play / Stop

Upon powering up the device, user can choose for it to play last selected station or to manually play when required.



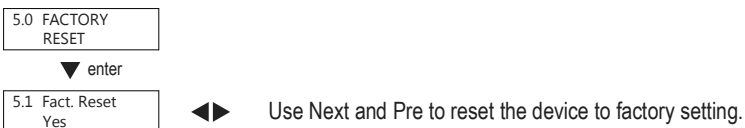
### Cascade

This feature is reserved, to be used for remote trigger in future upgrade when multiple units are used in the system.



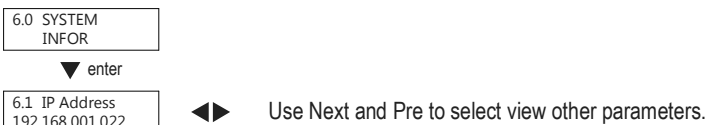
### Factory Reset

It is used to reset all setting and station presets to factory default setting.



### System Information

Device's information such as version number, IP address, firmware version and webpage version can be view in this sub menu.



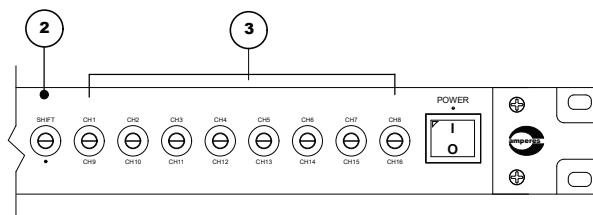
## Operating the Unit

Once all the setups are done, the user will only need to select the save stations. There are a total of 16 presets, with buttons 1 to 8 and with shift key, from 9 to 16.

To select a channel, press the required button (3 ) and will be indicated with green LED.

If the channel required is above 8, press Shift key ( 2 ), amber LED will lit at the button to indicate that the keys ( 3 ) are now designated as Ch.9 to Ch.18.

To adjust the volume, use the Menu button with Menu 1.0 : volume.



## Technical Specifications

Operating voltage	220 - 240V AC 50/60 Hz
Power consumption	2.5W at 240V AC
Display	2 x 16 character LCD display
Connectivity	LAN / Wifi
Wifi	2.4 GHz
Streaming bandwidth	128 kbps max
File format	MP3 , AAC
Presets	16
Controls	Front panel / web browser
Output	RCA stereo ( 0 dBu, 2.0 V )
Frequency response	100 - 18 kHz
S/N ratio	>90 dB
Dimensions	482 x 44 x 180 mm
Weight	2.4 kg

Amperes Electronics reserves the rights to change the above specifications without prior notice due to our continuous improvement policy.

## 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.

### Eligibility

Amperes Electronics' Service Center will accept any device send in for repair / checking purchased from any of our dealers. Some dealers may have the right to refuse repair / service / checking for any device not purchased from them directly.

### Coverage

This warranty covers only repairs and replacement of defective parts, due to defects of components or workmanship during product warranty period. For any product purchased exceeding the warranty period, a cost of repair shall be presented and will only proceed to rectifications upon agreed value. If the owner decides not to proceed, a minimal checking fees will be applied.

### Exclusions

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 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.

### Duration / Warranty Period

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.

### Cost of Claiming Warranty

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.

### Limitations

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. Our liability is limited to the cost of the product

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.



Registered to certificate: 16895/ A/ 0001/ UK/ En



AMPERES ELECTRONICS SDN BHD  
MADE IN MALAYSIA  
Published : Oct 2024