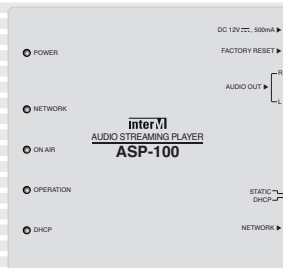


Operation Manual

Audio Streaming Player **ASP-100**



interM

Welcome

A personal welcome to you from the management and employees of Inter-M

All of the co-workers here at Inter-M are dedicated to providing excellent products with inherently good value, and we are delighted you have purchased one of our products.

We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

Welcome to Inter-M, and thank you for becoming part of our worldwide extended family!



WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Attentions: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant on une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.
Pour déconnecter complètement l'appareil du réseau d'alimentation, déconnecter le cordon d'alimentation de la prise murale.
La prise du réseau d'alimentation doit demeurer aisément accessible.

***WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING-WATER AND MOISTURE:** Unit should not be used near water(e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so than objects do not fall and liquids are not spilled into the enclosure through openings.

*Do not install this equipment in a confined space such as a book case or similar unit.

*Warning : To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.

*This apparatus shall be connected to a mains socket outlet with a protective earthing connection.

*To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.

*The mains plug of the power supply cord shall remain readily accessible.

CAUTION

*These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

NOTE

*This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Unpacking

Although your APS-100 is neither complicated nor difficult to operate, we recommend you take a few minutes to read this brief manual and familiarize yourself with the important information regarding product features, setup and operation.

As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

Installation

Environment

Never place this product in an environment which could alter its performance or reduce its service life. Such environments usually include high levels of heat, dust, moisture, and vibration.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Quick Set Up

- ITEMS REQUIRED TO INSTALL THE INTER-M ASP-100

1. Wi-Fi Enabled Smartphone or Tablet (Apple iPhone/iPad or Android Phone/Tablet).
2. Mobile Application Fing IO (available in the iPhone App store or Google play).

- DOWNLOAD FING IO ON YOUR WI-FI ENABLED MOBILE PHONE OR TABLET

Make sure your mobile phone or tablet is on the same Wi-Fi network as your Inter-M ASP -100

- Apple IOS users download Fing here:
<https://itunes.apple.com/gb/app/fing-network-scanner/id430921107?mt=8>
- Android Users download Fing here:
https://play.google.com/store/apps/details?id=com.overlook.android.fing&hl=en_GB

- SETTING UP YOUR INTER-M ASP-100

1. Unbox your Inter-M ASP-100.
2. While unpowered, plug the male end of the RCA cable into the Inter-M ASP-100.
3. **Turn down** volume on your power amp or receiver.
4. Plug male ends of RCA cables into your power amp or receiver.
5. Plug a Cat5 cable into the ASP-100 internet port and your local Internet switch or router. Ensure it is Internet ready (connected) with DHCP enabled in order to obtain an IP address and get the ASP-100 online.
6. Plug the power supply into the ASP-100 and electrical wall outlet.
7. Wait a couple of minutes for the ASP-100 to boot.

- LAUNCHING THE INTER-M ASP-100 USER INTERFACE

1. Using the mobile device you downloaded Fing IO, launch the Fing app.
Make sure your mobile device is on the same network as your Inter-M ASP-100
2. Hit the refresh (circle arrow) icon on the top right of the app.
3. A list of network devices will appear
4. Look for Inter-M and the IP associated with the device "IP example: 192.168.1.99"
5. To launch the ASP-100 web interface type the IP from Fing into any PC, Mobile phone or tablet device browser that is on the same Wi-Fi network that the Inter-M ASP-100.
6. ASP-100 "User Interface" will pop up.
7. In Google Chrome save desktop Icon to gain quick access
8. Manage the Inter-M ASP-100 device from UI.

Support & Recommendations

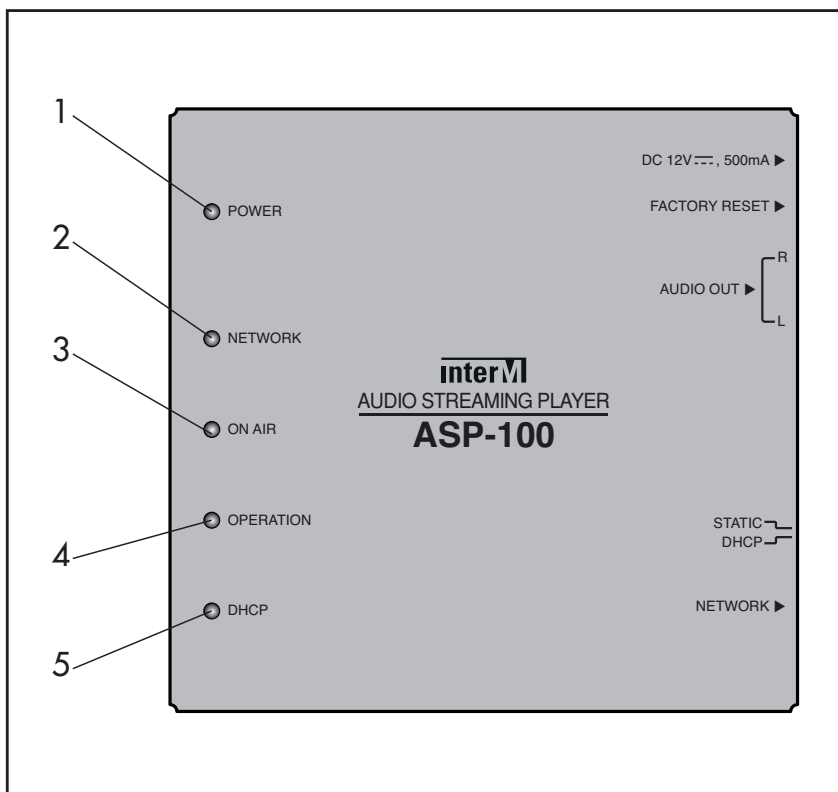
- RECOMMENDATIONS

1. Have some basic knowledge of computer LAN networking.
2. Use a PC to configure the ASP-100 for ease of use.
3. Use the ASP-100 **Cabled on LAN** (plugged in with Cat5 cable).
4. Confirm you are installing the ASP-100 on a DHCP enabled network.
Dynamic Host Configuration Protocol (DHCP) is a client/server protocol that automatically provides an Internet Protocol (IP) host with its IP address and other related configuration information such as the subnet mask and default gateway.
5. If the network you are installing the ASP-100 on does not have WIFI, please see page 5 for default IP address to access by PC.
6. Google Chrome is the recommended web browser to access the ASP-100 Web Interface.
7. Save a desktop icon for future reference.

- TECHNICAL SUPPORT

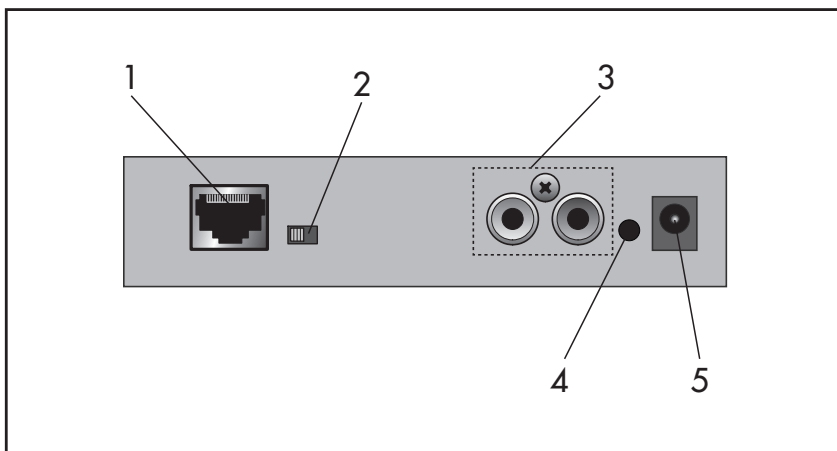
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Top Panel



1. POWER LED (RED)
2. NETWORK LED (GREEN)
3. ON AIR LED (ORANGE)
4. OPERATION LED (GREEN)
5. DHCP LED (ORANGE)

Rear Panel

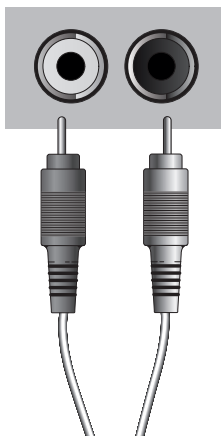


1. NETWORK PORT

2. IP SETTING SELECTOR (DHCP/STATIC)

(Default: 192.168.1.99)

3. AUDIO OUT (L/R)



4. FACTORY RESET SWITCH

5. DC INPUT

12V DC

Web Settings

- **Accessing ASP-100 User Interface Web page**

- If IP address has not been set, type the default IP address (192.168.1.99) – pushing the factory set switch more than 5 seconds will result in the unit being reset to default mode.



When connected normally, user verification window will pop-up.

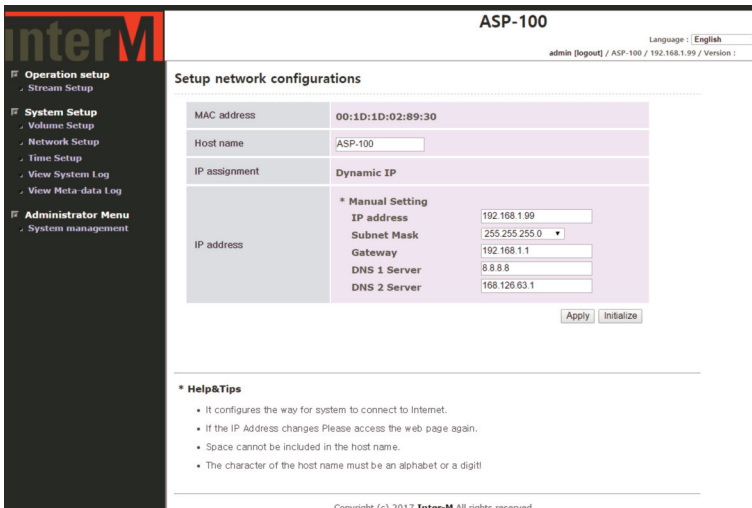


Type the Default ID and PASSWORD to log in. (**Default ID** : admin, **Password** : 1)

※ Changing password: please refer to the section of '12. password setting'

※ Caution: It is better to set and use the assigned password for the security purposes.
Please make a note to keep the assigned password.

- **Network Settings**

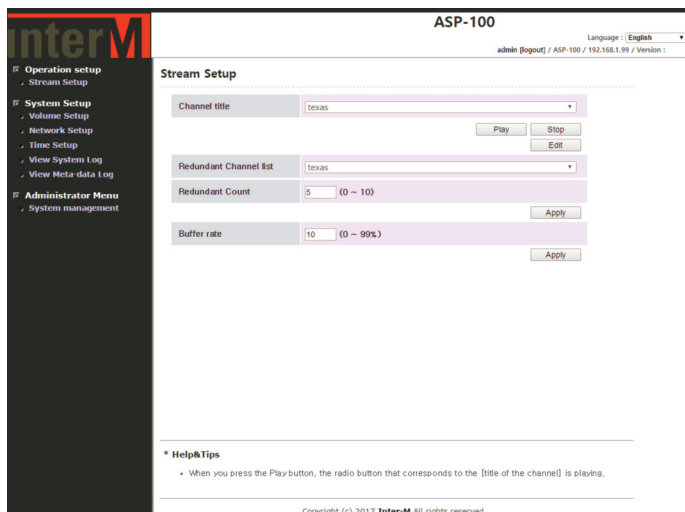


Shown above is the network settings page.

The host name is used to identify your unit on LAN - multiple unit is in auto searching mode.

- ※ IP address : You can set the ASP100 to obtain all network information automatically by setting DHCP (Dynamic IP address) or can be set as Static IP address.

• Internet Radio Settings



ASP-100 Language: English
admin [logout] / ASP-100 / 192.168.1.99 / Version:

Stream Setup

Channel title: Play Stop Edit

Redundant Channel list:

Redundant Count: (0 ~ 10) Apply

Buffer rate: (0 ~ 99%) Apply

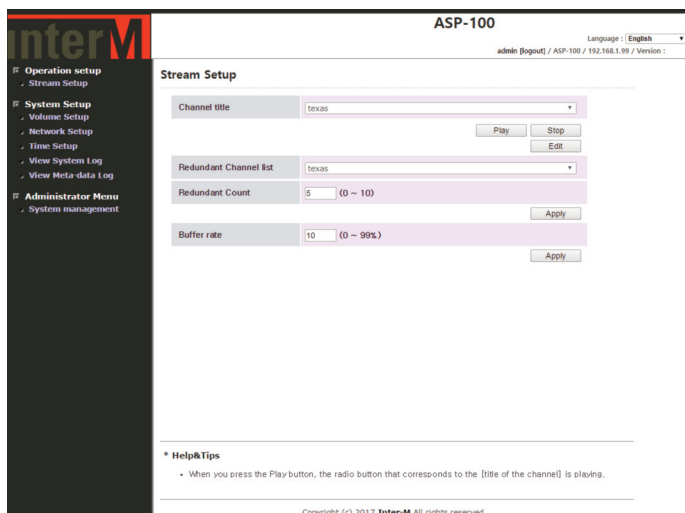
*** Help&Tips**

- When you press the Play button, the radio button that corresponds to the [title of the channel] is playing.

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Select the broadcasting station from the Channel list. Then, select broadcasting title from the Channel title. Finally, click the play button.

The channel list consists of two different categories which are “Fixed Channel” and “User Defined channel”. Fixed Channel consists of 36 preset channels and User Defined Channel can store up to 20 user determined channels.



ASP-100 Language: English
admin [logout] / ASP-100 / 192.168.1.99 / Version:

Stream Setup

Channel title: Play Stop Edit

Redundant Channel list:

Redundant Count: (0 ~ 10) Apply


Buffer rate: (0 ~ 99%) Apply

*** Help&Tips**

- When you press the Play button, the radio button that corresponds to the [title of the channel] is playing.

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The station that user creates as a preset can be selected in User Defined Channel.



- Operation setup
 - Stream Setup
- System Setup
 - Volume Setup
 - Network Setup
 - Time Setup
 - View System Log
 - View Meta data Log
- Administrator Menu
 - System management

ASP-100

Language : English

admin (logout) / ASP-100 / 192.168.1.99 / Version :

Stream Setup

Channel title

texas

Play

Stop

Edit

Redundant Channel list

texas

Redundant Count

5 (0 ~ 10)

Apply

Buffer rate

10 (0 ~ 99%)

Apply

* Help&Tips

- When you press the Play button, the radio button that corresponds to the [title of the channel] is playing.

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Utilize the play and stop buttons to launch your audio stream.

- **Adding a streaming radio URL**

The following window is shown by clicking the user defined button.

User defined broadcast

Export

Import

Apply

Initialize

The number of channels : 9 Q'ty

Title	URL	Remove
<input type="text"/>	<input type="text"/>	<div>Remove</div>
<input type="text"/>	<input type="text"/>	<div>Remove</div>
<input type="text"/>	<input type="text"/>	<div>Remove</div>
<input type="text"/>	<input type="text"/>	<div>Remove</div>
<input type="text"/>	<input type="text"/>	<div>Remove</div>
<input type="text"/>	<input type="text"/>	<div>Remove</div>
<input type="text"/>	<input type="text"/>	<div>Remove</div>
<input type="text"/>	<input type="text"/>	<div>Remove</div>
<input type="text"/>	<input type="text"/>	<div>Remove</div>
<input type="text"/>	<input type="text"/>	<div>Remove</div>

Title

URL

Add

Add

Export

Import

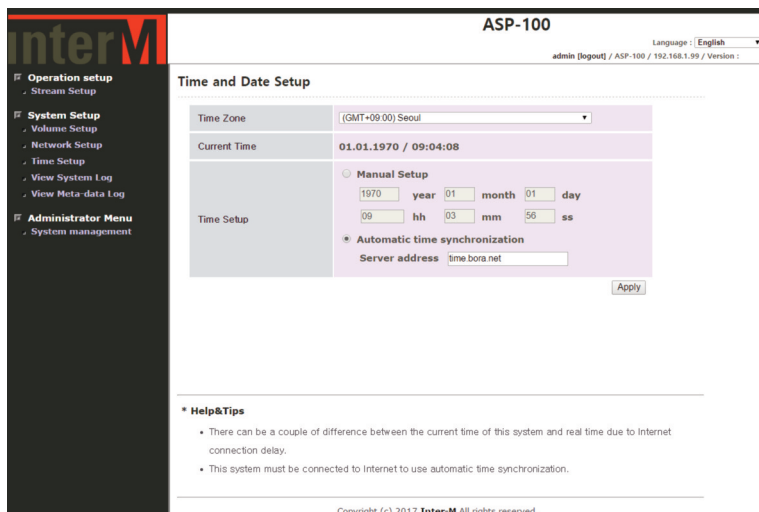
Apply

Initialize

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Type the title and URL of desired station then click the set button to save. Up to 20 channels can be added or deleted by the administrator.

• Time Setting



ASP-100 Language : English

admin [logout] / ASP-100 / 192.168.1.99 / Version :

Time and Date Setup

Time Zone	(GMT+09:00) Seoul
Current Time	01.01.1970 / 09:04:08
Time Setup	<input type="radio"/> Manual Setup 1970 year 01 month 01 day 09 hh 03 mm 56 ss
	<input checked="" type="radio"/> Automatic time synchronization Server address time.bora.net

Apply

*** Help&Tips**

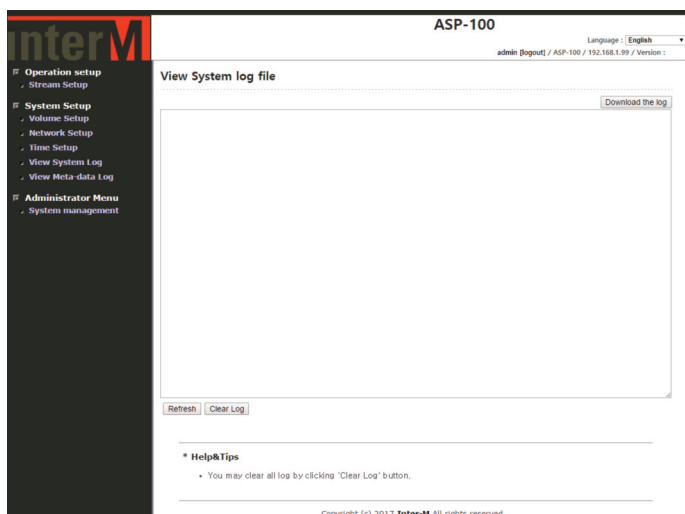
- There can be a couple of difference between the current time of this system and real time due to Internet connection delay.
- This system must be connected to Internet to use automatic time synchronization.

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Shown above is the menu for setting the time and date on the ASP-100.

It can be set to time zone as well as current time. The current time can be set manually or automatically. When the current time is set as automatic time synchronization, the server address must be typed (default:time.bora.net) and unit must be connected with internet.

• Log Viewer



ASP-100 Language : English

admin [logout] / ASP-100 / 192.168.1.99 / Version :

View System log file

Download the log

Refresh Clear Log

*** Help&Tips**

- You may clear all log by clicking "Clear Log" button.

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The log viewer displays captured data information stored within the ASP-100's unit settings. This includes history of any modifications with a time stamp. If the time has not been set, the log information will be

shown as Jan/ 1/ 1970 as default.

Refresh: identify the recently changed log information

Clear Log: clear the history of log information

• System Upgrade

The screenshot shows the ASP-100 web interface. On the left is a dark sidebar with a menu: 'Operation setup' (with sub-items 'Stream Setup'), 'System Setup' (with sub-items 'Volume Setup', 'Network Setup', 'Time Setup', 'View System Log', 'View Meta data Log'), and 'Administrator Menu' (with sub-item 'System management'). The main content area is titled 'System management' and contains three sections: 'System Upgrade', 'Password Change', and 'System check setup'. The 'System Upgrade' section is active and shows a 'Find File' input field with a '[...]' button, followed by 'Apply' and 'Initialize' buttons. Below this, it states: 'Firmware file is an upgrade-file that is located in your local PC. It may several minutes to complete upgrading. Please do not leave this page until a new page appears. (Caution) Upgrading with inappropriate file may cause harm to the system. (Caution) Do not turn off the system during upgrading.' The 'Password Change' section has fields for 'User account' (set to 'admin'), 'Current Password', 'New Password', and 'Password Confirm', with 'Apply' and 'Initialize' buttons. The 'System check setup' section has 'System check time' set to '16 Hour 50 Min' and 'Operation' set to 'Inactive', also with 'Apply' and 'Initialize' buttons. At the bottom of this section, it says 'System will reboot at the appointed time.'

After downloading an upgrade file from your PC, find and select the upgrade file by clicking the [...] button. Next, click the set button to start the upgrade.

The screen will be off when upgrade is fully processed. Next, manually turn on the power of unit to finish the upgrade.

• Rebooting

Restart System	Apply
	Restart will reboot the system.

Reboot the unit. The reboot process takes about 30 seconds.

• Factory Settings

Factory set System	Apply
	Factory set will Initialization the device.

The network and time settings will be reset to the default setting for each.

• Password Settings

Password Change	User account	admin ▼
	Current Password	<input type="password"/>
	New Password	<input type="password"/>
	Password Confirm	<input type="password"/>
	Apply Initialize	
Change the new password.		
32 letters and numbers you entered.		

Password set up page:

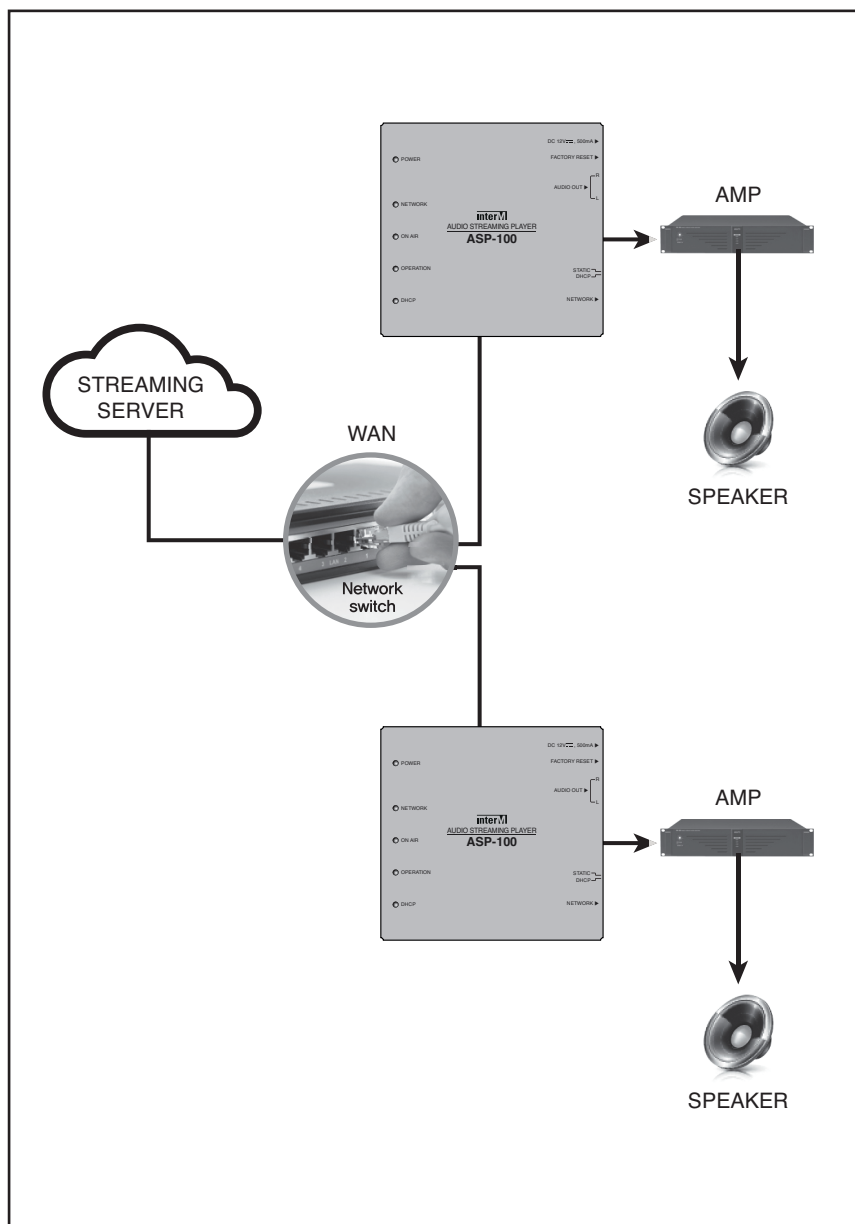
When the unit is reset to the factory setting, the password will be reset to the default password.

The default Password is "1"

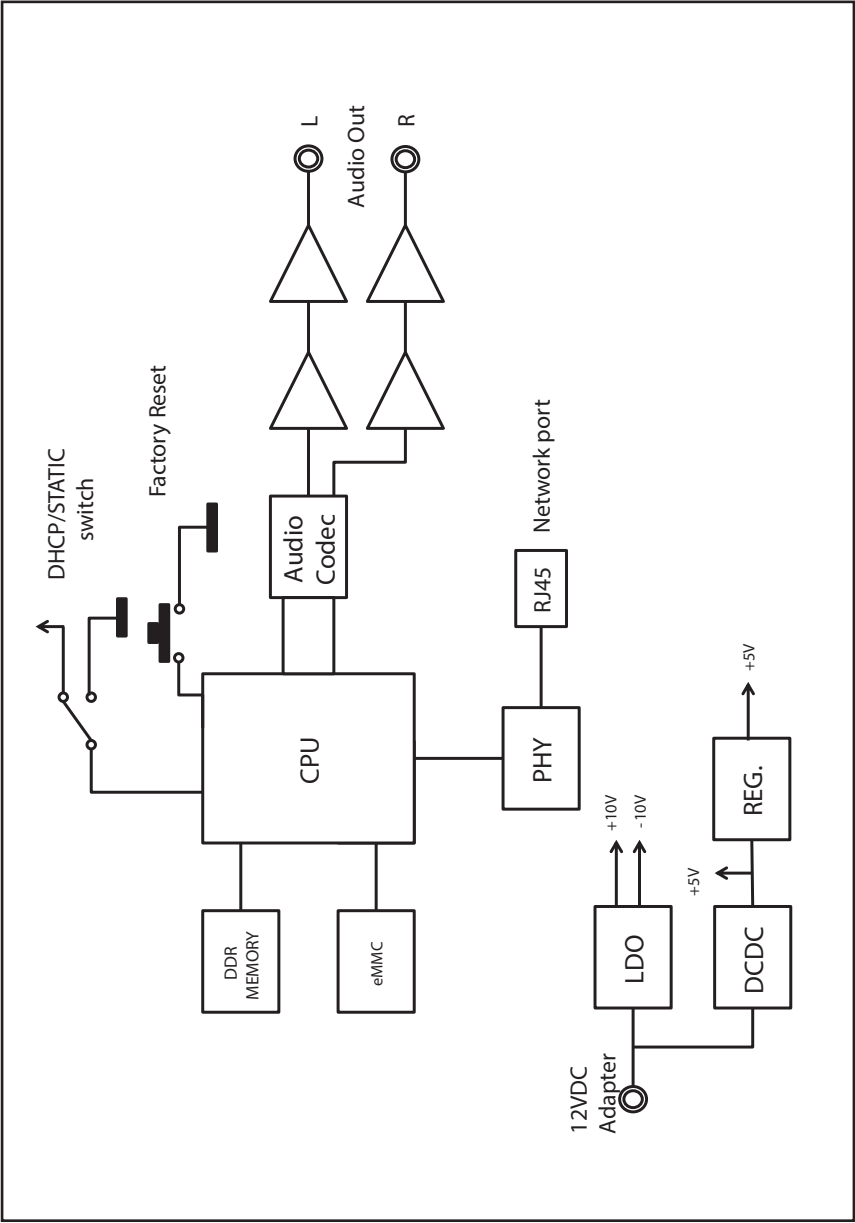
※ONLY PASSWORD can be changed.

※Caution: Please make a note to keep the changed password.

Application



Block Diagram

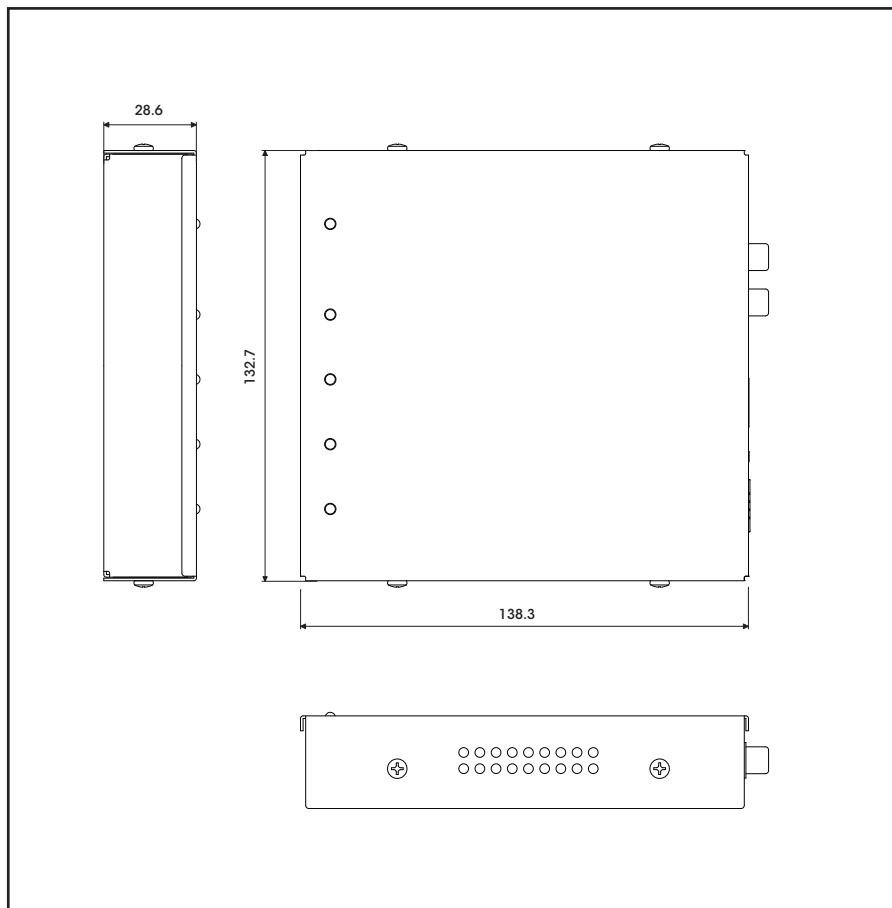


Specification

	ASP-100
Communication Type	NETWORK
Network Port	10/100Mbps
Output Level @-10dBfs Play	14dBu
S/R	More than 65dB
T.H.D	Less than 0.1%
Operating Temperature	0~40°C
Power Source	DC 12V
Power Consumption	3W
Weight (set)	0.457kg/1.0lb
Dimension (set)	138.3(W) x 132.7(H) x 28.6(D)mm/ 5.4(W) x 5.2(H) x 1.1(D)in

※ Design and specification are subject to be changed for the improvement of product quality without pre notice.

※ DIMENSIONS



Service

Procedures

Take steps to insure the problem is not related to operator error or other products within the system. Information provided in the troubleshooting portion of this manual may help with this process. Once it is certain that the problem is related to the product contact your warranty provider as described in the warranty section of this manual.

Schematic

A Schematic is available by contacting your warranty provider.

Parts List

A Parts List is available by contacting your warranty provider.

Variations and Options

Variations

Products supplied through legitimate sources are compatible with local AC power requirements.

Options

No optional items are available for this product.

Warranty

Warranty terms and conditions vary by country and may not be the same for all products. Terms and conditions of warranty for a given product may be determined first by locating the appropriate country which the product was purchased in, then by locating the product type.

To obtain specific warranty information and available service locations contact Inter-M directly or the authorized Inter-M Distributor for your specific country or region.



Inter-M, Ltd. (Korea) began operations in 1983.

Since then, Inter-M has grown to become one of the largest manufacturers of professional audio and commercial sound electronics equipment in the world.

Inter-M has gained worldwide recognition for its own branded products, as well as private label manufacturing of electronics sold under other names (OEM).

The company is no longer just a Korean company, but rather a global company that is truly international in scope, with factories and offices in Korea and China, and sales and marketing operations located in Japan, Europe, and the U.S.A.

With more than 850 employees around the globe, Inter-M is well-poised for further growth and expansion.

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