

IP MICROPHONE

User Manual

SPA-M1000



IP Microphone

User Manual

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※ Appearance, specification, etc. of the product is subject to change for performance improvements without prior notice.
The latest update is available on the official Hanwha Vision website. (www.HanwhaVision.com)

※ The ID for the initial login is "admin," and a password should be set.
Please change your password every three months to protect your personal data and prevent identity theft.
Please note that users are responsible for the security and other issues caused by insufficient password management.

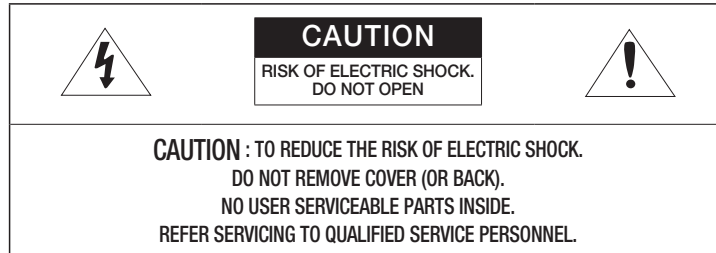
WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

To prevent injury, this apparatus must be securely attached to the Wall/ceiling in accordance with the installation instructions.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION

IL Y A RISQUE D'EXPLOSION SI LA BATTERIE EST REMPLACÉE PAR UNE BATTERIE DE TYPE INCORRECT.
METTRE AU REBUT LES BATTERIES USAGÉES CONFORMÉMENT AUX INSTRUCTIONS.

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.

The ITE is to be connected only to (PoE/PoE+) networks without routing to the outside plant.

The wired LAN hub providing power over the Ethernet (PoE/PoE+) in accordance with IEEE 802.3af/at shall be a UL Listed device with the output evaluated as a Limited Power Source as defined in UL60950-1 or PS2 as defined in UL62368-1.

Unit is intended for installation in a Network Environment 0 as defined in IEC TR 62102. As such, associated Ethernet wiring shall be limited to inside the building.

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 the contaminated area on the product surface with a soft, dry cloth or a damp cloth. (Do not use a detergent or cosmetic products that contain alcohol, solvents or surfactants or oil constituents as they may deform or cause damage to the product.)
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. To prevent injury, this apparatus must be securely attached to the Wall/Ceiling in accordance with the installation instructions.
14. Unplug this apparatus during lightning storms or when unused for long periods of time.
15. 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.
16. This product is intended to be supplied by a Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated from PoE (48V ) , 250mA.
17. This product is intended to be supplied by isolation power.
18. If you use excessive force when installing the product, the product may be damaged and malfunction. If you forcibly install the product using non-compliant tools, the product may be damaged.
19. Do not install the product in a place where chemical substances or oil mist exists or may be generated. As edible oils such as soybean oil may damage or warp the product, do not install the product in the kitchen or near the kitchen table. This may cause damage to the product.
20. When installing the product, be careful not to allow the surface of the product to be stained with chemical substance. Some chemical solvents such as cleaner or adhesives may cause serious damage to the product's surface.
21. If you install/disassemble the product in a manner that has not been recommended, the production functions/ performance may not be guaranteed.



22. Do not install on a surface where it is exposed to direct sunlight, near heating equipment or heavy cold area.
23. Do not place this apparatus near conductive material.
24. Do not attempt to service this apparatus yourself.
25. Do not place a glass of water on the product.
26. Do not install near any magnetic sources.
27. Do not place heavy items on the product.
28. Please wear protective gloves when installing/removing the product. The high temperature of the product surface may cause a burn.
29. This device has been verified using STP cable. The use of appropriate GND grounding and STP cable is recommended to effectively protect your product and property from transient voltage, thunderstroke, communication interruption.
30. In particular installation environments, there might be interference in radio communications. When interference of electromagnetic waves occurs between the product and radio communication device, it is recommended to keep a certain distance between the two or change the direction of the receiving antenna.
31. An apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
32. Batteries(battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like. The battery cannot be replaced.
33. Disconnect the main plug from the apparatus, if it's defected. And please call a repair man in your location.
34. Select an installation site that can hold at least 5 times the product's weight.
35. Stuck-in or peeled-off cables can cause damage to the product or a fire.
36. For safety purposes, keep anyone else away from the installation site. And put aside personal belongings from the site, just in case.
37. We do not guarantee the quality of third-party products (e.g. accessories) that you separately purchase.

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FEATURES

- **Paging communication over the network**

You can broadcast a variety of messages, such as announcements to a designated area within the network, using the paging system by connecting it to a network audio server or controller mode speaker.

- **Gooseneck microphone**

You can use the gooseneck microphone conveniently by adjusting its position flexibly to fit a user environment.

- **Simple button operation**

You can select the broadcasting area simply by using the buttons on the Number buttons or the ALL button, etc., and you can select the operation method of the TALK button and CHIME button based on your preferences.

- **2.42 inch OLED display**

Through the OLED display, you can monitor the current status of the product and prevent errors when entering button inputs, such as when selecting a broadcasting area.

- **Level meter with an LED display**

You can intuitively monitor the current volume level through the sound level meter with an LED display.

- **Monitoring speaker**

You can monitor the current volume level using the monitoring speaker on the side of the product.

- **Input/output control volume**

You can adjust the input volume of the microphone, the volume of the monitor speaker and chime, and the input volume of the connected external audio source.

- **DC 24V power input**

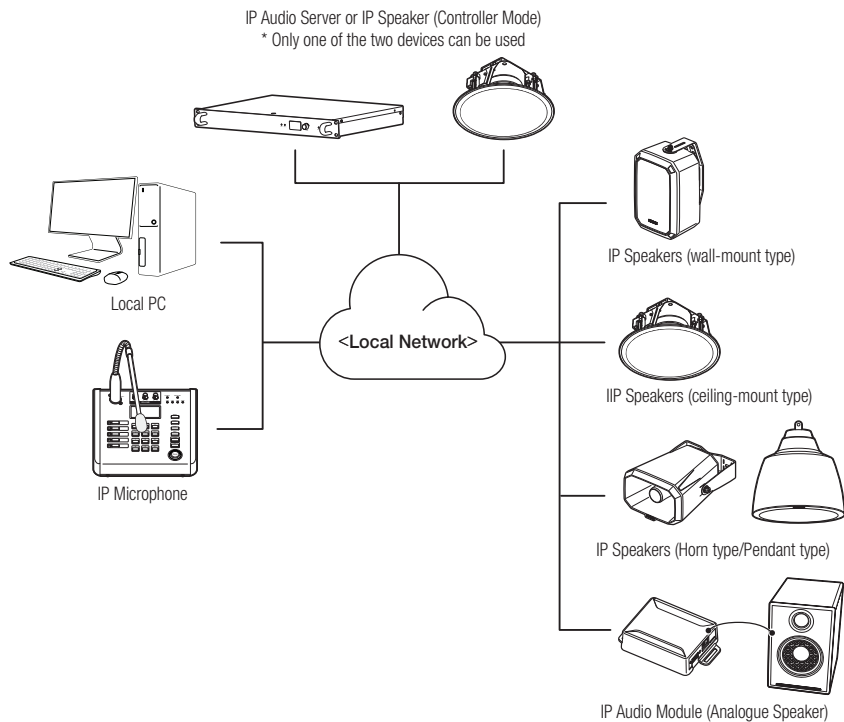
A DC 24V power input terminal provides a stable power supply while using an adapter.

- **Power over Ethernet (PoE)**

If you connect a PoE-enabled device to the NETWORK port of the product, power can be supplied without a separate power connection.

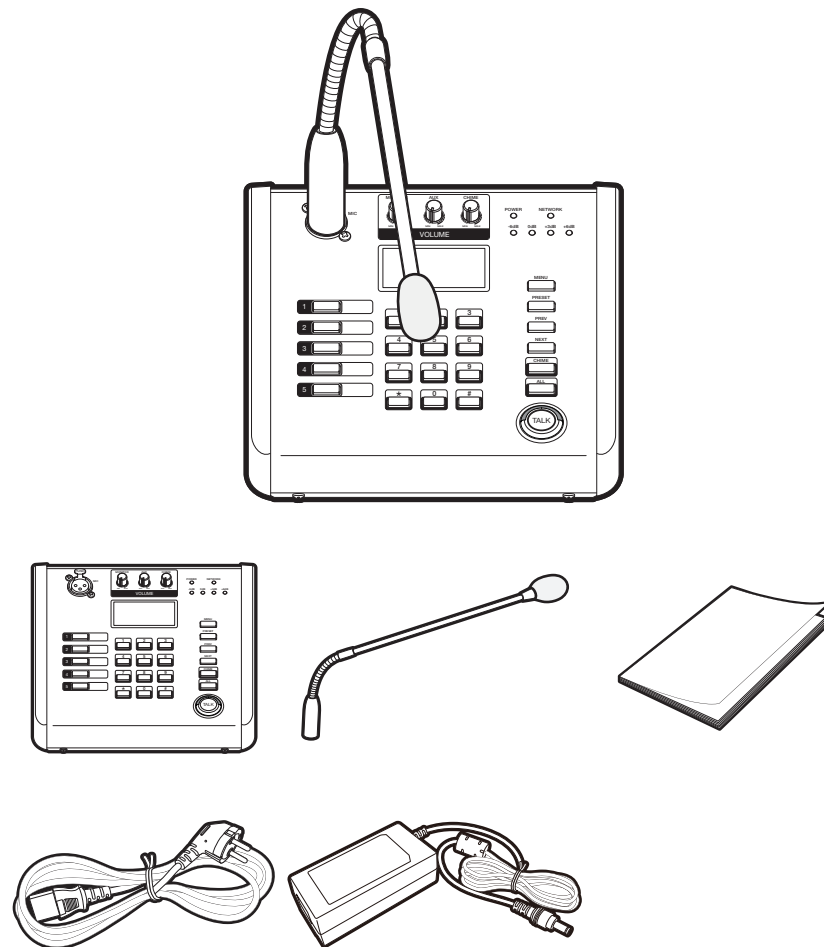
This product is a network microphone that is to be connected to the controller device (e.g., audio server, speaker/audio module set to controller mode) of the network audio system. To use the microphone, you must connect it to the network and register a device via a web-based integrated control software and an RM source. You can set up your CP and VP numbers in the Events & Preset menu.

There should be only one controller mode device in the broadcast system. If there are multiple controller mode speakers or audio servers and they are registered as the microphone more than once, proper broadcasting cannot be performed.



CHECKING THE COMPONENTS

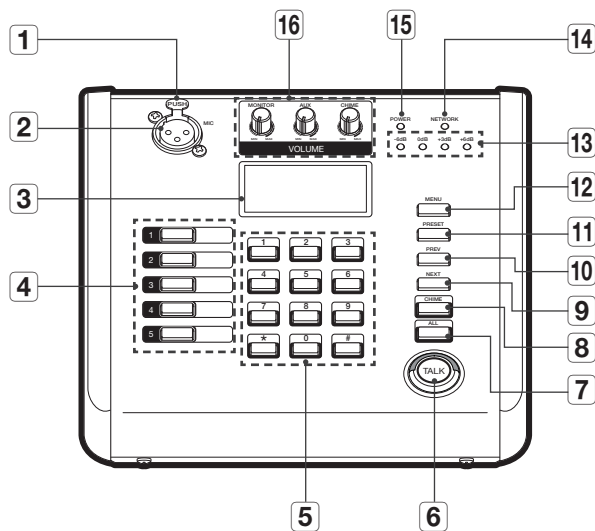
Make sure all of the following components are included.
(Accessories may vary by sales region.)



■ The images used in the product manual may differ from the actual product.

NAMES AND FUNCTIONS OF EACH PART

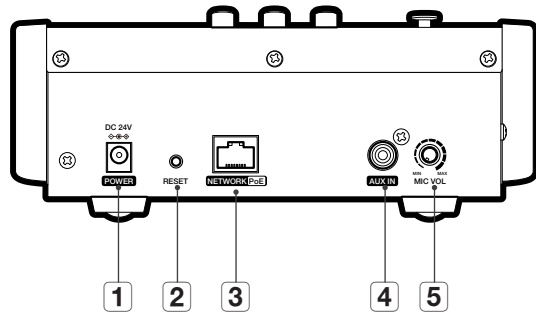
Front



Name	Function Description
1 Microphone release button	Releases the gooseneck microphone.
2 Microphone connection port	Connects the gooseneck microphone.
3 Status indicator	Indicates the settings and current status of the product.
4 CP event buttons	This is a CP event number (1 - 5) input button set in the <All Event & Preset List> of the controller device.
5 Number buttons	Buttons used to select a broadcast area or mode number. This is also used as the VP event number button set in the <All Event & Preset List> of the controller device.
6 TALK button	The button used to start or end a broadcast with a microphone. For information on how to set the TALK button, refer to "Talk Type Settings". (Page 25)
7 ALL button	The button used to select all broadcast regions.

Name	Function Description
8 CHIME button	The button used to sound a chime to signal the start or end of a broadcast. For information on how to set up a chime, refer to "Chime Settings". (Page 25)
9 NEXT button	When entering numbers, if 8 or more numbers have already been entered, they cannot all be displayed on a single screen, so this button is used to return to the previous page.
10 PREV button	When entering numbers, if 8 or more numbers have already been entered, they cannot all be displayed on a single screen, so this button is used to return to the previous page. *Used as the Exit button for the Menu screen.
11 PRESET button	Button to switch to CP, Group, or Zone mode in the <Talk Protocol> menu.
12 MENU button	Use it to make settings for the TALK and CHIME buttons, or to check the product's network or firmware information. *The [MENU] button is also used as the Exit button for the Number input screen.
13 Level meter LED	Measures and displays the current volume level.
14 Network status LED	Indicates network connection status.
15 Power status LED	Indicates power connection.
16 Monitor speaker/AUX/Chime volume dial	Controls the volume of the monitor speaker, the input volume of the connected external audio source, and the chime volume.

Rear



Name	Function Description
1 POWER input terminal	Supplies DC 24V power by connecting to the supplied power adapter.
2 RESET switch	A button that returns the product settings to the factory default values. Press the button for approximately 12 seconds to reset and reboot the product. ! Do not disconnect the power until product resetting is complete. Doing so may cause malfunctions. It will take up to 10 minutes to reboot the product after initializing it.
3 NETWORK terminal	Connects network cable. The microphone can be used when broadcasting through the integrated control software of the controller device within the same network. When connected to a PoE device (switching hub), power can be supplied without a separate power connection.
4 AUX IN port	Receives sound by connecting to an external audio source via an RCA cable.
5 MIC VOL dial	A dial that adjusts the microphone input volume level

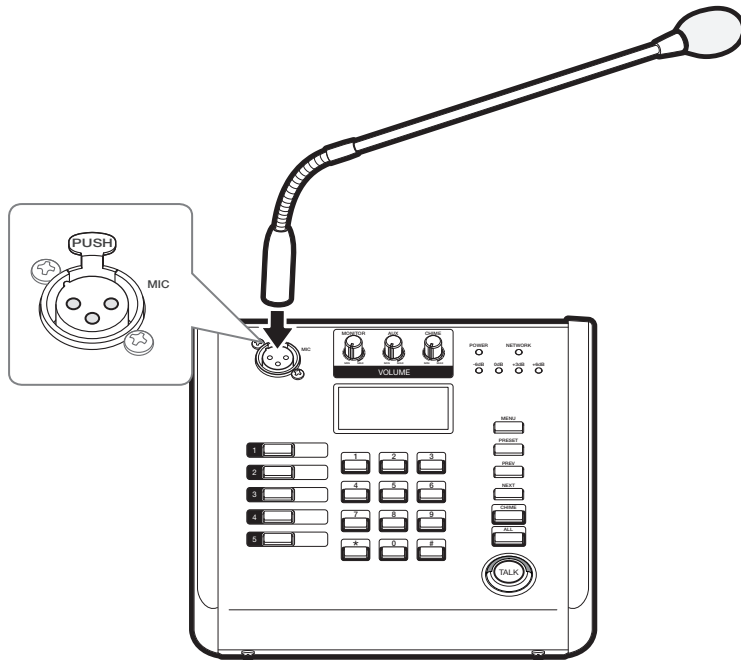
INSTALLATION

Precautions Before Installation

- Be careful that cables do not become stuck in the wrong places and that the covering of electric wires is not damaged, as this can cause product damage or fire.
- If the product is forcibly assembled by applying excessive force, the product may be damaged.
- Adjust the microphone volume to the minimum before plugging it into the power source.

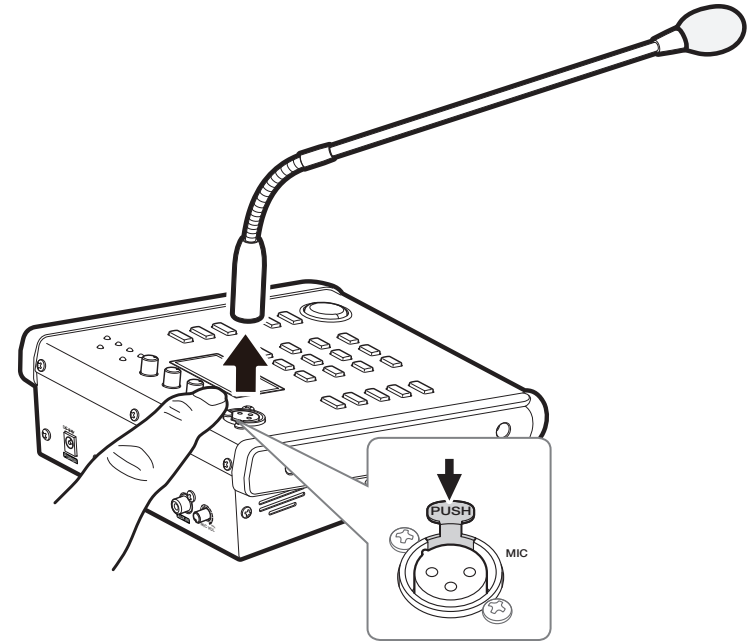
Connecting to the Gooseneck Microphone

Align the 3 pins on the bottom of the gooseneck microphone with the hole of the connection port, then push it in until you hear a click sound.

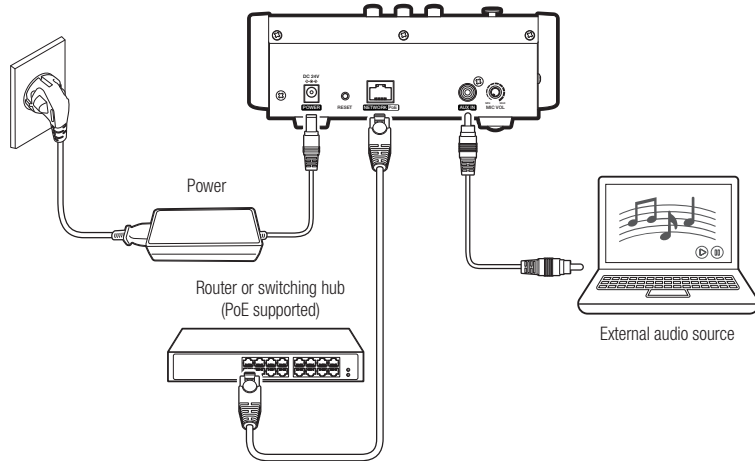


Disconnecting from the Gooseneck Microphone

Disconnect the gooseneck microphone from the device while pressing the <PUSH>button on top of the gooseneck microphone.



CONNECTING TO OTHER DEVICES



- ! When connecting to each device, be sure to power off the connected device before connecting.

Connecting to a Network

Connect the router or switching hub to the **NETWORK** port of the product using a network cable.

Network Connection to Power

Connect the router or switching hub using a network cable that provide PoE to the **NETWORK** port of the product.

- ! For PoE, use equipment that supports the IEEE802.3af standard.
- If you connect to a PoE-supported switching hub, you can use the product without connecting a separate power source.
- To connect to the product's network, refer to "**starting**." (Page 12)

Connecting to Power

Connect the supplied power adapter's connector to the product's power input (DC 24V), and then connect the power cord to the power adapter.

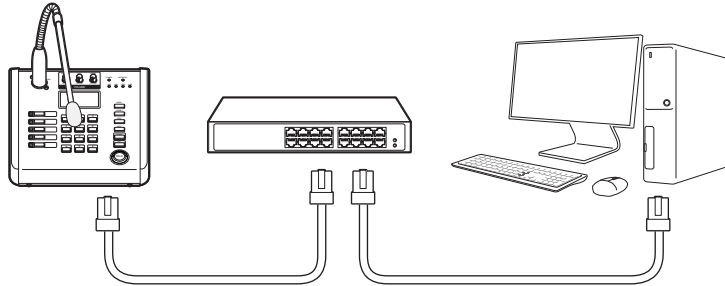
Network Cable Specifications

Item	Specifications	Remark
Connector	RJ45 (10/100BASE-T)	
Ethernet	10/100Base-T	
Cable	Category 5e	
Max Distance	100 m	DC resistance ≤ 0.125 Ω/m
PoE Support	IEEE 802.3af	

You can set the product's network environment according to the user's network connection configuration.
To change your product's network configuration settings, follow these instructions to access the product.

CONNECTING TO A PC

The PC should be connected to the same network as the product when accessing the product for the first time. Use a network cable to connect the product's **NETWORK** port to the switching hub that is connected with the PC.

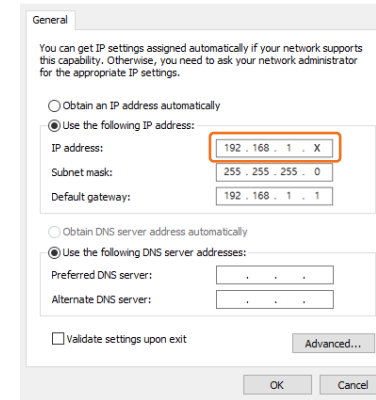


- Connect the supplied DC power cable to receive power, or connect a switching hub that supports PoE or PoE+

ACCESS PRODUCT

Various functions, including maintenance and environment settings, are available on the product website.

1. Set an IP address to 192.168.1.x, the same band as the product, in the network property of the PC.




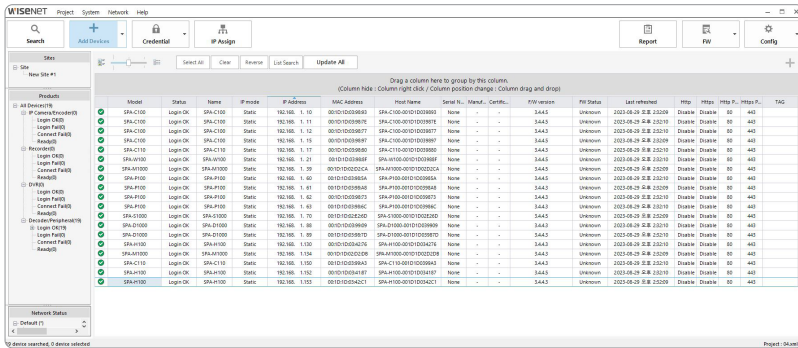
2. Run a web browser on the PC.

- An available web browser is Google Chrome (Version 99.0.4844.82 or higher). Google Chrome is available at www.google.com/chrome.
 - It can be used in Chrome as it is a supported web browser. For the computer OS, it can be used in Windows 10 or Mac 11.6 (Big Sur) or 12.2 (Monterey).
3. The initial IP address of all products is 192.168.1.100.
Before installing the product, it is recommended to set a static IP address for separate products.
- If multiple products are connected concurrently to the same switch hub with the initial IP addresses, the web page cannot distinguish the IP addresses, resulting in failing to set passwords.
 - Use Device Manager to set the initial password and IP address to use.

Registering using Device Manager

If the product is connected to a network which includes a computer where the device manager is installed, you can search products, set up passwords, change IP addresses, upgrade firmware, and access web pages. Please refer to the manual of the Device Manager Program for more information.

- The Device Manager Program () is available on the official Hanwha Vision website (<https://www.HanwhaVision.com>) by clicking <Support> - <Online Tool>.



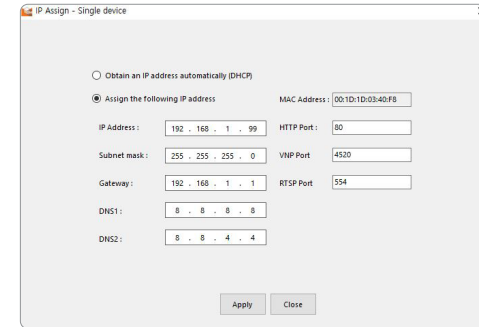
- When you connect the product to the switch hub, its IP address is 192.168.1.100, and its status information is queried as <Need PW>.
- Select one or multiple products and set a password to use for each product.
 - If they are not queried as <Need PW>, click <New Project> → <Search>, and set the passwords after they are queried as <Need PW>.
 - If you set a password in the [Credential] menu and press [Search] on the list screen, the status information is queried as <Connect Fail>.
 - If you press <New Project> → <Search>, the status information is queried as <Ready>. And if you press <Search> again, it is queried as <Connect Fail>.
- When the password is set, the <MAC Address> of each product is queried.
 - The <Host Name> and <Serial Number> are queried when you log in using the [Credential] menu after an IP address is assigned to each product.

- A password should contain 8 or more characters, and if it contains fewer than 9 characters, then a combination of 3 or more English uppercase/lowercase letters, numbers, or special characters must be used. If it includes 10 to 16 characters, a combination of 2 or more types must be used.
- It is recommended not to use the same character repeatedly or consecutive keyboard inputs as passwords for enhanced security.
- If the initial password setting in the [Credential] menu fails due to a <Timeout>, set the initial password again after assigning the IP addresses of other products with <Success> in password setting.

- Select a product to set its IP address, and enter the IP address to use (e.g., Set Static IP).

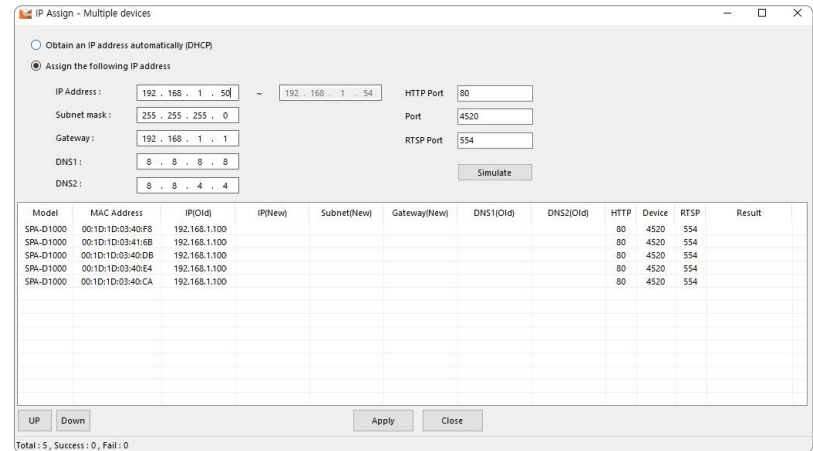
When you select products one by one

- Select <Assign the following IP address> from the [IP Assign] menu, then set its IP address.
- The DNS server address is automatically set as the product's initial DNS address (DNS1 8.8.8.8, DNS2 8.8.4.4).



When you select multiple products

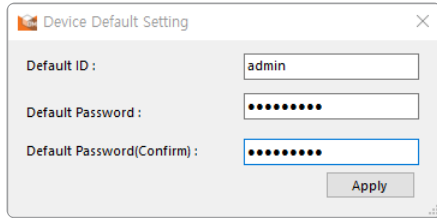
- Select <Assign the following IP address> from the [IP Assign] menu. Then apply the starting address in the range of IP addresses to be assigned.



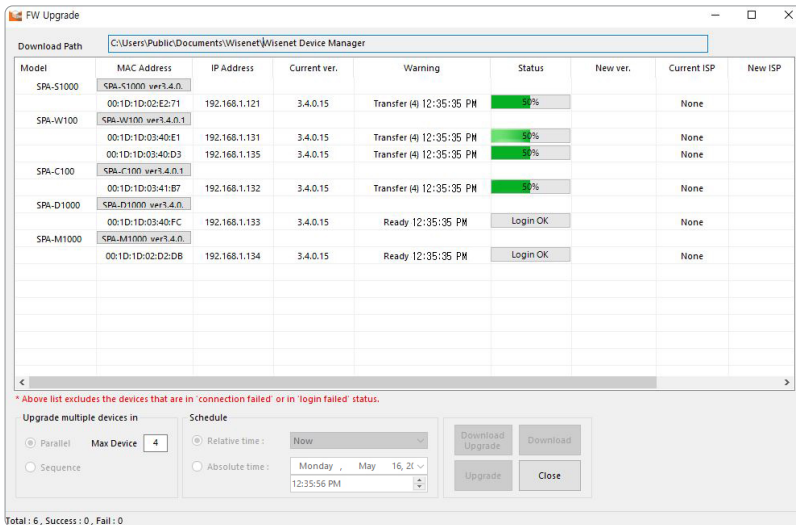
- When you select <Obtain an IP address automatically (DHCP)> from the [IP Assign] menu, the DHCP IP address is automatically assigned.
- The HTTP port supports only the number 80, and the VNP and RTSP ports are not used in the network audio product.

- Products with IP addresses must be logged in from the [Credential] menu to be queried as <Login OK>.
 - When you execute <New Project> → <Search>, authentication is canceled and the product is queried as <Login Fail>.

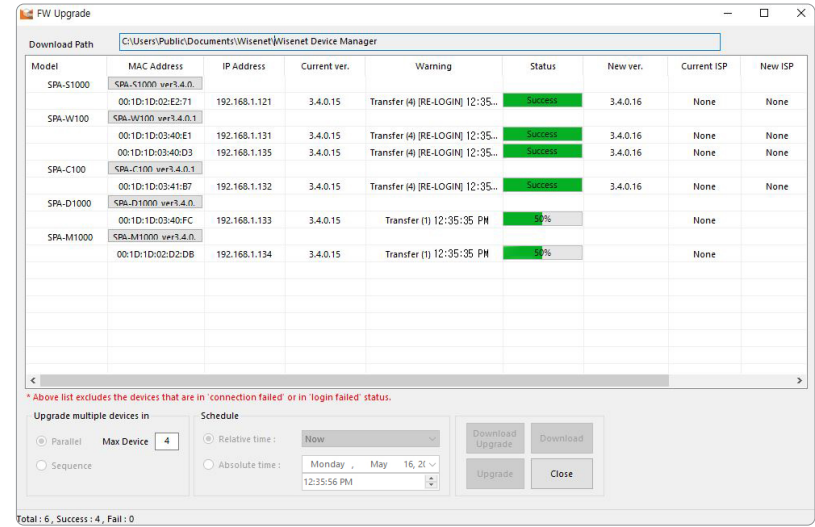
! ■ If you apply the product password in <System> → <Device Default Credential Setting> in the device manager, it is automatically queried as <Login OK> even when you search for it as a new project or re-execute the device manager.



- ✍ ■ You can update to the latest firmware for the product using the device manager. Select the searched product in the Device Manager and run <FW Status Check> in the [FW] menu to get the firmware status (the latest or previous version).
- Check the firmware distribution information for each product on the Hanwha Vision website (<https://www.HanwhaVision.com>) and download the latest firmware (modelname_version.imkp) to your PC. You can also download the latest firmware to your PC from Device Manager.
- When selecting firmware for each product and running [Upgrade], the status will change from <Login OK> to <Progress %>.



- When the firmware update and reboot are complete, <Progress %> is displayed until 100% and then <Success> is displayed.
- If you update multiple products at the same time, the update will proceed sequentially by four units at a time.

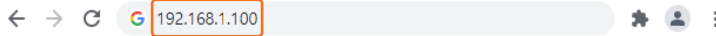


- ! ■ The speakers share firmware, while the microphones and servers have their own firmware. The update will fail if inappropriate firmware is selected for the product. In such cases, please check whether suitable firmware has been chosen for the product and restart the update.
- The update failure status is indicated as follows:
 Speaker: The status LED on the main body blinks rapidly.
 Microphone: The 'Upgrading Wait' notification is displayed on the screen of the main body.
 Server: The 'Upgrading Error' notification is displayed on the screen of the main body.

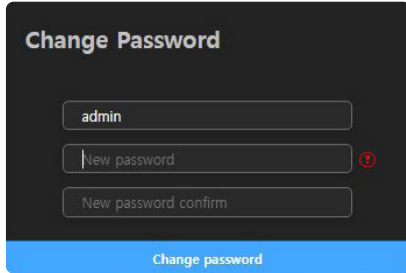
Registering with the product's initial IP address

If you connect only one product to the switch hub, it is possible to set up the password even on the web page.

1. Enter the product's initial IP address into the web browser's address bar.

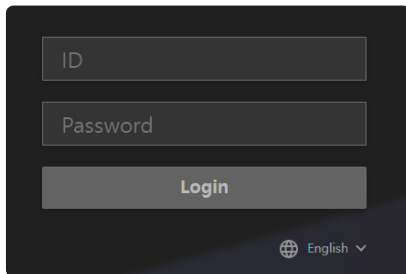


2. The admin account password must be registered when accessing the product for the first time. When the <Change Password> window appears, please enter a new password.



- ! A password should contain 8 or more characters, and if it contains fewer than 9 characters, then a combination of 3 or more English uppercase/lowercase letters, numbers, or special characters must be used. If it includes 10 to 16 characters, a combination of 2 or more types must be used.
- It is recommended not to use the same character repeatedly or consecutive keyboard inputs as passwords for enhanced security.

3. A product login screen appears after successfully setting the password.

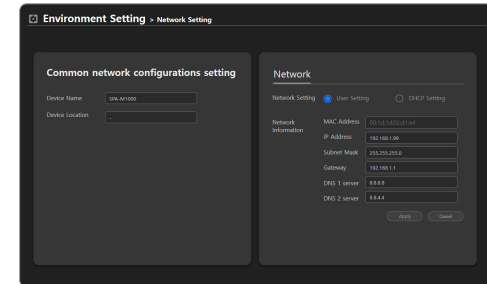


LOGGING IN

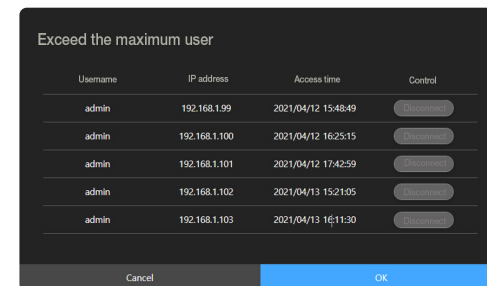
Use the password set for the admin account.

1. Enter "admin" in the <ID>field.
2. Enter a password in the <Password> field.
3. Click the [Login] button to move to the Home screen of the product. After 30 minutes of inactivity on the website, you will be automatically logged out.

- ! If you forget the password, the product has to be initialized by pressing the **RESET** button for about 12 seconds. Therefore, make sure to write your password down or remember it. If you have already logged in, the system can be initialized in the <Environment Setting> → <System Management> menu of the web page.
- Do not disconnect the power until the system initialization is complete after pressing the [RESET] button of the product or during product resetting. It will take up to 10 minutes to reboot the product after initializing it.
- To change the network settings according to the user's network connection configuration, use the <Network Setting> function in <Environment Setting>. (Page 20)



- Available accounts are divided into admin, setup, user, and guest by access authority level. Go to <Environment Setting> → <System Management> → <Change Password> to change the passwords of each account. (Page 17)
- A maximum of five users can log in to the product at the same time. The "Exceed the maximum user" screen will appear if there is an attempt to log in while the maximum number of users are logged in, and it will show the currently connected PC IP addresses.



HOME SCREEN CONFIGURATION

If you connect to the product using a web browser, you can check the system management, network settings, time settings, logs, etc.

Getting to Know the Home Screen



Name	Function Description
1 Home	Goes to the Home screen.
Maintenance	Logs generated in the product can be checked.
Environment Setting	You can set up the System Management, network, and time information.
2 Product Model Name	Displays the device's model name.
3 Product Information	The IP address, device name, device location, and firmware version are displayed.
4 Connected Account/Login	Shows a connected account and its login status.
5 Time Information	The connection time to the web page menu, product cumulative operating time, and product time will be displayed.
6 Language	Shows the language options supported on the website. (Korean, English supported)
7 Go to the Official Website	If you click <Hanwha>, the screen will move to the Hanwha Vision Official Website. Before using the product, please check the latest firmware version on the Hanwha Vision website (https://www.HanwhaVision.com). Download and update it if it is necessary.

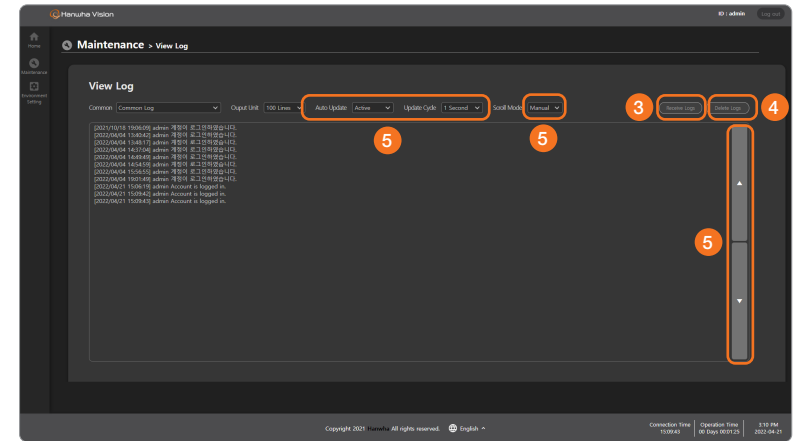
The optimal monitor resolution is 1920x1080.

MAINTENANCE

View Log

Logs generated in the product can be checked.

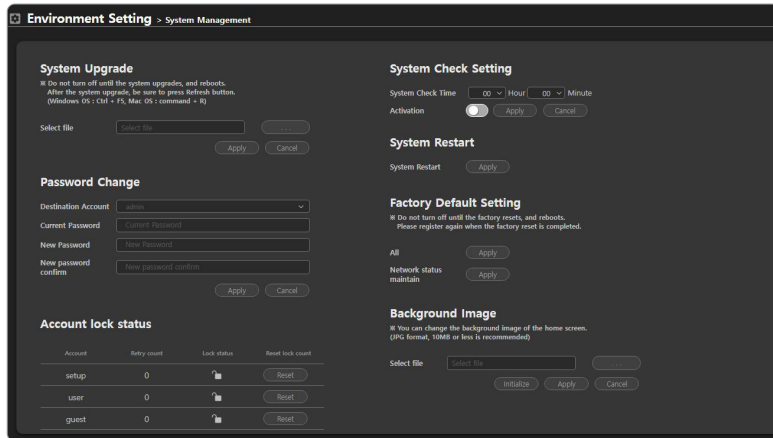
The log items are different for each product, and they are recorded when the log operation occurs.



1. Click <Maintenance> → <View Log> on the Home screen.
2. The action log history for the device is shown by item. The Log menu will appear on the View Log when its function is activated.
 - The logs of each menu are queried up to 1000 lines, and if they exceed 1000 lines, the oldest logs are deleted first.
3. If you click the [Receive Logs] button, the file can be downloaded in the HTML format. Check HTML files using Google Chrome.
 - As the log information will be deleted when the product's system is initialized, please download it in advance.
4. If you click the [Delete Logs] button, all logs displayed on the screen will be deleted.
5. The Output Unit, Auto Update, Update Cycle, and Scroll Mode can be set. If you activate <Auto Update>, logs will be displayed in accordance with the <Update Cycle> on the screen.
 - If you set <Scroll Mode> to automatic, the screen will be moved downward to show recent logs.
 - Press the [▲/▼] button to view the upper and lower logs.

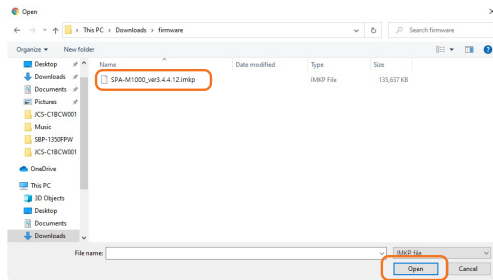
SYSTEM MANAGEMENT

Various functions are available, including System Upgrade, Change Password, System Check, Restart, and Reset.



Upgrading the System

1. Click <Environment Setting> → <System Management> on the Home screen.
2. Click the [**System Upgrade**] button in <System Upgrade>.
3. Select the upgrade file (model name_version.imkp) that you downloaded from the official Hanwha Vision website (<https://www.HanwhaVision.com>) in advance and click [Open].



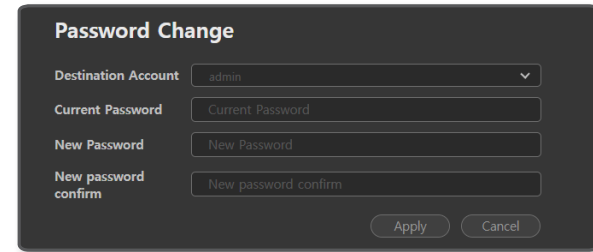
4. Click [Apply] to start System Upgrade. Click <OK> when the “System Restart” window appears after up to five minutes.

- ! If you close the web browser or move to another menu before the “Restart the Program” message pops up, it may not be updated.
- Do not disconnect the power in the middle of a system upgrade. Doing so may cause malfunctions.

5. It will take up to 10 minutes to upgrade the system and reboot the product.
The software version information of the product is available in the upper-right corner of the Home screen.

Changing the Password

You can change the passwords of each account.



1. On the Home screen, click <Environment Setting> → <System Management>.
2. By clicking <Destination Account> from <Change Password>, select the account you want to change and set the password.
3. Click the [Apply] button after entering a new password in the two input fields.
4. The admin account can be changed if you enter the previous password.
If you forgot the previous password, the product has to be initialized, and the passwords for all the accounts will be initialized during the process.
5. The password of the setup, user, and guest accounts can be set, changed, or reset from the admin account if they are forgotten.

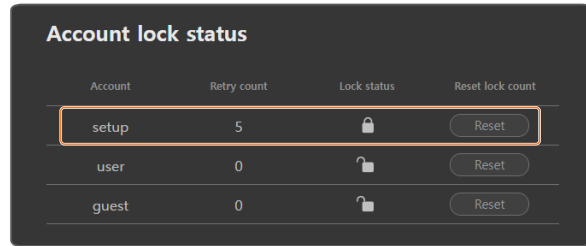
Viewing the supported menu by account

To prevent any confusion due to arbitrary changes to the settings and to continue stable maintenance of the system, access rights are differentiated by account, and all restricted features for each account are disabled on the screen.

- **admin**: The system management, network settings, time settings, and log history can be viewed.
- **setup, user**: The log history can be viewed.
- **guest**: The product information can be checked on the home screen.

Unlock Account

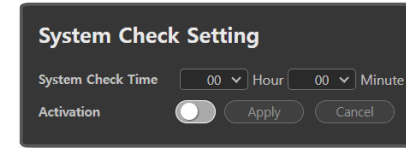
For all accounts except the admin account, if you enter the wrong password more than 5 times when logging in, the account will be locked for 30 seconds and you will not be able to log in. The admin account can reset the number of retries by checking the number of login retries for each account and whether the account is locked.



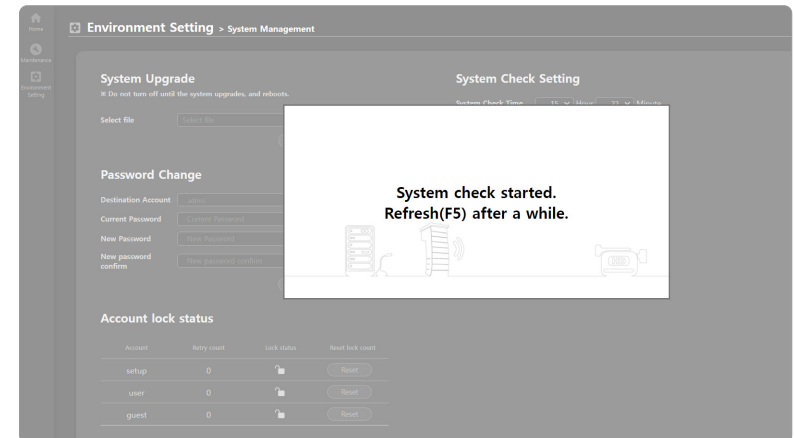
1. On the Home screen, click <Environment Setting> → <System Management>.
2. Click [Reset] after checking the locked account on <Account lock status>. The lock icon is changed to unlocked and the number of retries for the account is reset.

Setting the System Check Time

Sets the time for the system check. The system reboots automatically at the set time every day.

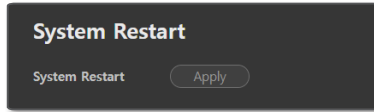


1. On the Home screen, click <Environment Setting> → <System Management>.
2. Set the time to start checking in <System Check Settings>.
3. Click [Apply] after clicking the [>] button of <Activation>.
4. The system will be checked and be rebooted at the set time; it will take approximately 5 minutes.



Restarting System

You can restart the system without disconnecting the power when a system reboot is needed.



1. On the Home screen, click <Environment Setting> → <System Management>.
2. Click the [Apply] button in <System Restart>.
3. Click <OK> when the system restarting window appears.
It will take approximately 5 minutes to reboot the system.

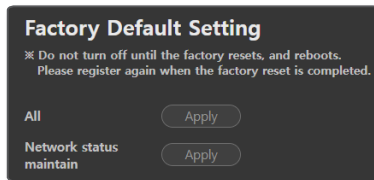
Resetting the System

Initializes every system setting to the factory default values.

An IP address of the product is also initialized to the initial status, which is 192.168.1.100.

Please re-open the web page and access 192.168.1.100.

1. On the Home screen, click <Environment Setting> → <System Management>.
2. If you click the [Apply] button of the <All> item on <Factory Default Setting>, all set values will be reset, and if you click the [Apply] button of the <Network status maintain> item, all set values except for network information will be reset.



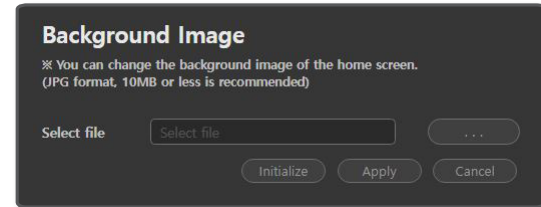
3. Click <OK> when the factory default window appears. Product initialization starts.
4. Click <OK> when the system start window appears on the web browser.

- ! Do not disconnect the power until the factory default settings are restored.
It will take up to 10 minutes to restart and complete the execution of the internal daemon program after product initialization.

- When the system initialization is completed, previously registered product information should be deleted from the controller mode speaker or audio server (SPA-S1000), and you must register if you wish to use the product.
- As the log information will be deleted when the product's system is initialized, please download it in advance.

Applying Background Images

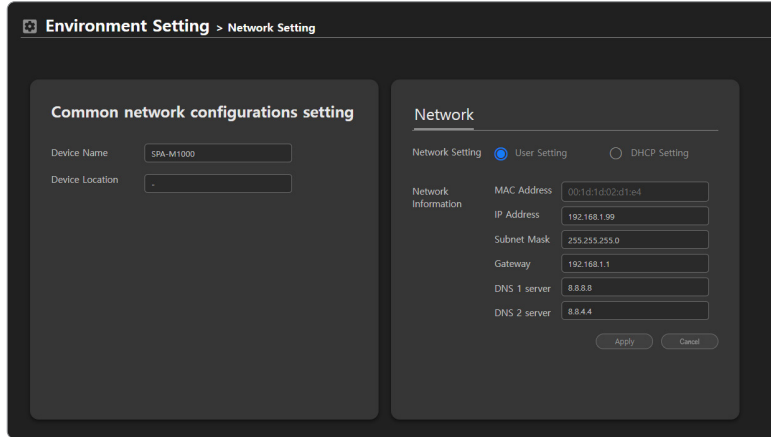
1. On the Home screen, click <Environment Setting> → <System Management>.
2. Under <Background Image>, press the [] button to select an image file, then click the [Apply] button.
3. Click the [Initialize] button to apply the initial image.



NETWORK SETTINGS

You can change the network settings according to the user's network connection configuration.

1. On the Home screen, click **<Environment Setting>** → **<Network Setting>**.

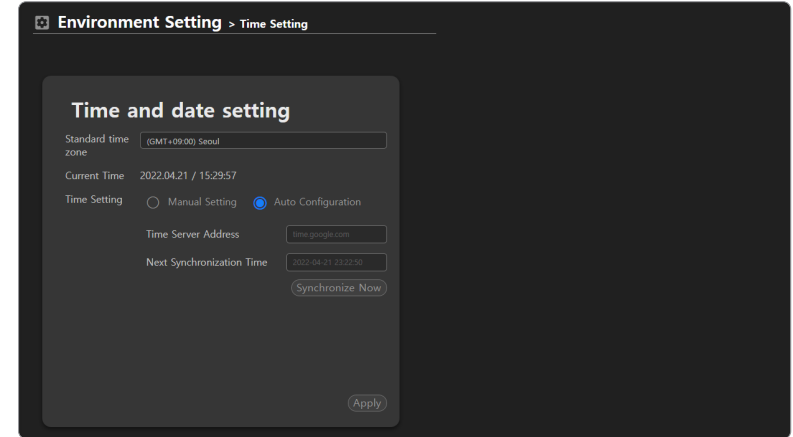


- On the **<Common network configurations setting>**, the **<Device Name>** is displayed as **<Name>** on the device manager's query list.
 - You can enter the location of installation in **<Device Location>** in **<Common network configurations setting>** (e.g. 6th floor, Main Building)
 - You can enter the IP address, subnet mask, gateway, DNS 1 and DNS 2 server addresses for the product by selecting **<User Setting>** in **<Network Setting>**.
 - MAC address: The unique physical address of the product. (e.g. Starts with 00:1d:1d.)
 - IP address: Enter the IP address available in your network band.
 - Subnet mask: The subnet mask of the set IP address is indicated.
 - Gateway: The gateway of the set IP address is indicated.
 - DNS 1 server, DNS 2 server: Enter the primary DNS address and secondary DNS address.
 - The IP, subnet mask, gateway, DNS 1 and DNS 2 server addresses for the product will be allocated automatically from the DHCP server by selecting **<DHCP Setting>** in **<Network Setting>**.
 - Click **[Apply]** to apply the set network information to the product.
 - Click **[Cancel]** to return to the most recent status before changing settings.
- !**
 - The system restarts automatically if the network settings are changed.

TIME SETTINGS

Set the time and date accurately or it may cause problems in operating the broadcast.

1. On the Home screen, click **<Environment Setting>** → **<Time Setting>**.



- The current time is set if you select GMT of your location on **<Standard Time Zone>**
- For the local network which is not connected to the external Internet, select **<User Setting>** in **<Time Setting>** and enter the time manually to use it.
- If it is connected to the external Internet, select **<Auto Configuration>** in **<Time Settings>** to synchronize the time to the standard time of the time server.
- For the domain address in the **<Time Server Address>** input field, use time.google.com / time.apple.com / pool.ntp.org / north-america.pool.ntp.org / time.bora.net / clock.isc.org. Please check if the domain address provides time information which reflects Daylight Saving Time.
- **<Next Synchronization Time>** automatically changes from the previously synced time every 8 hours.
- Click **[Synchronization Now]** to synchronize the time to the time server.

2. Click [Apply] to apply the set Time and Date information.

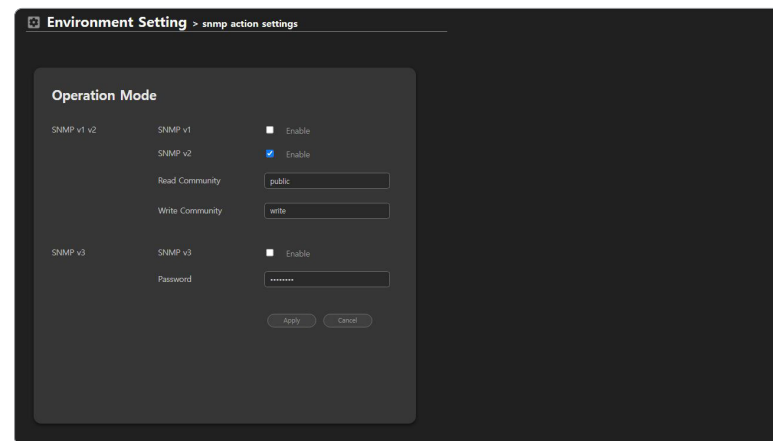
- ❗
 - If the product is used in a local network environment without an external Internet connection, the time information may become incorrect due to the product's accumulated time errors. To accurately schedule the broadcasting time, we recommend installing a separate time server device using GPS signals or enter the audio server IP (SPA-S1000) with high time accuracy into the <Time Server Address> field of other products to synchronize the time information with the audio server.
 - If there is a product connected to an external Internet, enter the IP address of the product in the <Time Server Address> field of other products before using them.
 - IP audio products are not synchronized with the OS time of the PC.

- ✍
 - If the product is used in a local network environment without the external Internet connection, Daylight Saving Time is not automatically reflected as it is not synchronized with an external time server.
 - In countries where Daylight Saving Time is applicable, it is recommended for the system administrator to use the product by changing the time manually for the start and end dates of the Daylight Saving Time.

SNMP ACTION SETTINGS

The SNMP protocol allows system or network administrators to remotely monitor and configure the network devices.

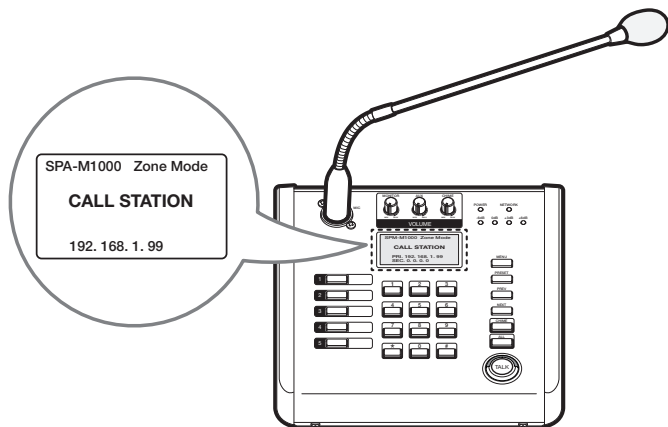
1. On the Home screen, click <Environment Setting> → <snmp action settings>.



- Use SNMP v1: SNMP v1 is used.
- Use SNMP v2: SNMP v2 is used.
 - Read Community: Enter the name of read-only community to access the SNMP information.
 - Write Community: Enter the name of write-only community to access the SNMP information.
- Use SNMP v3: SNMP v3 is used.
 - Password : Set the initial user password for SNMP v3. The initial password is insecure, so we recommend that you change it to a new password. The password must be between 8 and 16 characters long, and some special characters (\, |, <, >, ', ", /, ?) are not allowed.

using the microphone

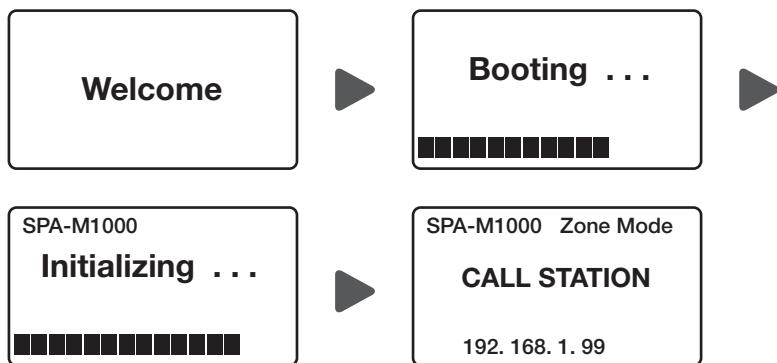
When using the microphone, you can check the input number and current status through the status indicator of the product.



POWER ON

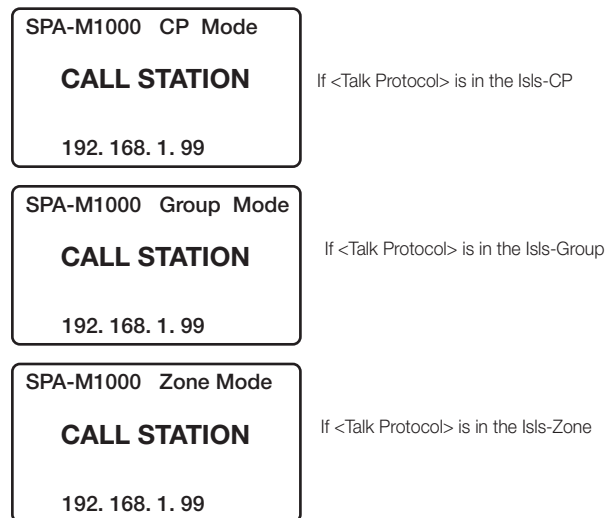
Initial Screen

1. When the product is powered on, a **<Welcome>** message will be displayed on the status indicator.
2. After about 5 seconds, the **<Booting ...>** message will be displayed, and then the **<Initializing ...>** message will appear.
3. When the product is booted up, the status indicator will be displayed as a standby screen.



Standby Screen

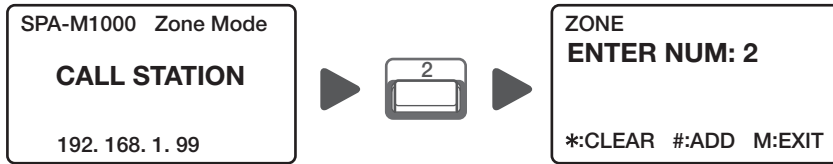
By pressing the **<MENU>** button on the main body of the product, it will be divided into three modes according to the **<3. Talk Protocol>** setting in the **<Talk type>** menu as follows. You can switch each mode with the **[PRESET]** button on the product body.



- If there is no button input for about 30 seconds on the standby screen, it will enter sleep mode and the status indicator will turn off. Press any button to switch from sleep mode to the standby screen.

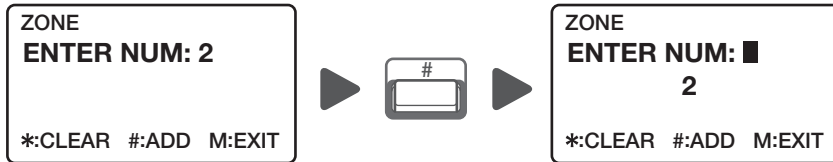
BROADCASTING

1. If you press any number button while on the standby screen, the broadcasting mode (Zone, Group, CP) set in **<Talk Protocol>** and the entered number will be displayed on the screen.

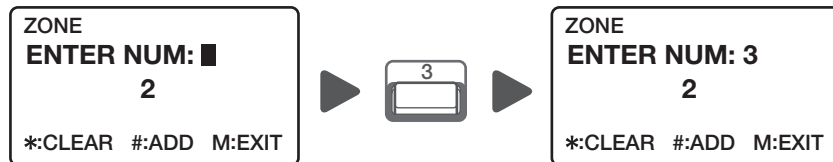


- The number specified in the zone registration and group setting menus of the controller device will be selected for Zone and Group mode. The VP number specified in the Event & Preset menu of the controller device will be selected for CP mode.
- While on the Number input screen, press the **[MENU]** button on the product body to end number input and switch to the standby screen.
- An incorrectly entered number can be deleted by pressing the **[*]** button. (Role of Backspace)

2. Press the **[#]** button to register the entered number.



3. If there are more numbers to broadcast, press the appropriate Number button and then press the **[#]** button.



- To cancel a registered number, press the button of the number and then press the **[*]** button to delete the number.

4. When the number registration is complete, press the **[TALK]** button on the product body.



5. When the **<Talking...>** screen is displayed, start broadcasting with the microphone.

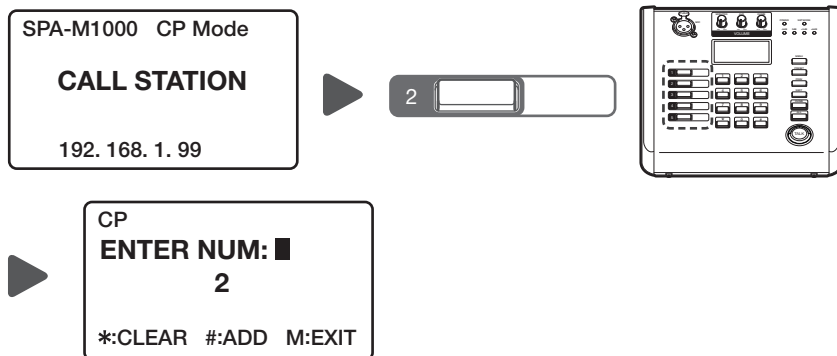
- If the product is not registered as an RM source in the controller device of the network audio system, the **<Request talk>** screen will display for about 10 seconds and then switch back to the standby screen.
- If the product is registered as a device and RM source and Event & Preset, Zone, and Group are normally set and operated in the controller device, the screen will switch to **<Talking...>**.
- Press the **[*]** button on the **<Talking...>** screen to mute the microphone volume, and press the **[#]** button to mute the external audio source (AUX) volume. You cannot mute the volume of the microphone and AUX at the same time.
- The way the **[TALK]** button is used depends on the product's **<Talk type>** settings. Refer to "Talk Type Settings" for details. (Page 25)

6. If you press the **[CHIME]** button in the **<Talking...>** state, the chime which is set in **[Start Chime Set]** will appear. If you press it once more, the chime which is set in **[End Chime Set]** will appear.

USING CP EVENT BUTTON

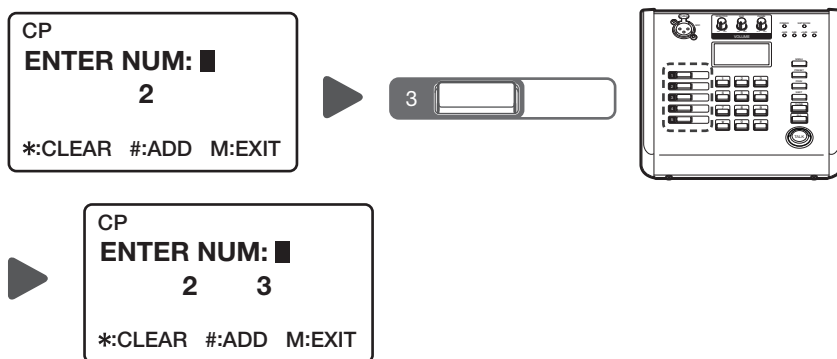
If the microphone event is set as <CP> in the <All Event & Preset List> of the controller mode speaker or audio server, you can generate the event by pressing the CP event button (5 key) on the left side of the microphone.

1. Press the desired CP event button on the standby screen.



- While on the Number input screen, press the [MENU] button on the product body to end number input and switch to the standby screen.

2. If there are more event numbers to add, press the corresponding CP event button.



- To cancel the registered CP event number, press the button once more to delete the number.

3. When the registration of the CP event number is completed, press the [TALK] button on the product body.



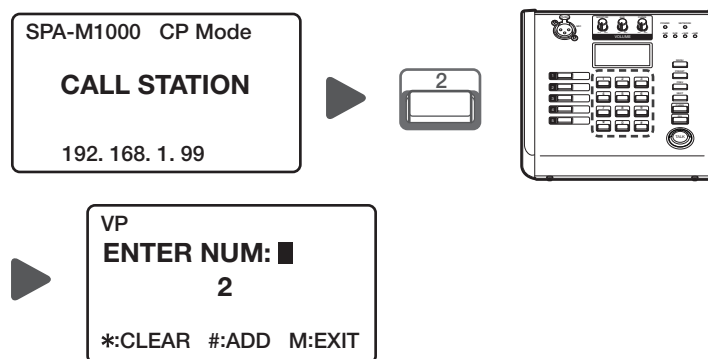
4. When the <Talking...>screen is displayed, the set event of the entered CP number will occur.

USING VP EVENT BUTTON

If the microphone event is set as <VP> in the <All Event & Preset List> of the controller mode speaker or audio server, you can generate the event by pressing the number button (10 key) in the middle of the microphone.

The microphone event can be set up as either <CP> or <VP>.

1. Press the desired VP event button on the standby screen.



2. If there are more event numbers to add, click the corresponding VP event button.
3. When the registration of the VP event number is completed, press the [TALK] button on the product body.
4. When the <Talking...>screen is displayed, the set event of the entered VP number occurs.

USING MENU

If you press the [MENU] button on the product body, you can change the <Chime> and <Talk type> settings, or you can check the network information and firmware version.

Each time the [MENU] button is pressed, <Start Chime Set>→<End Chime Set>→<Talk type>→ Network Information → the Firmware Information screen will switch sequentially.

Chime Settings

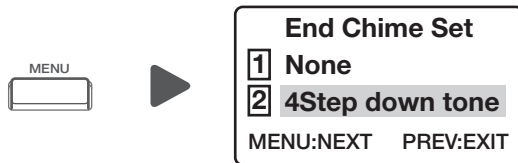
You can set the type of chime that indicates the start and end of a microphone broadcast.

1. Press the [MENU] button on the product body.
2. After selecting the <Start Chime Set> setting screen, press buttons 1-3 to select the desired chime output method.



- Before starting the microphone broadcast on the <Talking> screen, if you press the [CHIME] button, you will hear the chime you set at <Start Chime Set>.

3. Press the [MENU] button once more.
4. Press button 1 or 2 on the <End Chime Set> setting screen to select the desired chime output method.



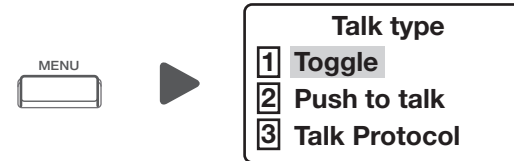
- Before ending the microphone broadcast on the <Talking> screen, if you press the [CHIME] button, you will hear the chime you set at <End Chime Set>.

5. Press the [PREV] button to exit the chime settings.

Talk Type Settings

You can set the [TALK] button usage method when making a microphone broadcast.

1. Press the [MENU] button on the product body.
2. After selecting the <Talk type> setting screen, press buttons 1 or 2 to select the desired method.
 - <Toggle>: If you press the [TALK] button, the <Request talk Waiting> screen will appear, and after a while, the screen will switch to the <Talking> screen and microphone broadcasting will be available.
 - <Push to talk>: If the <Request talk Waiting> screen appears while pressing the [TALK] button, <Talking> screen will appear after a while. Then, microphone broadcasting will be available.

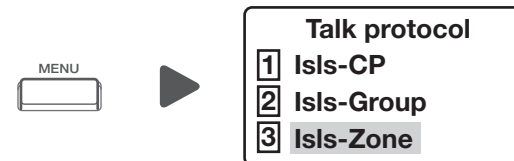


3. Press the [PREV] button to exit the <Talk type> settings.

Talk Protocol Settings

You can set the communication protocol method with the controller device the product is registered with.

1. Press the [MENU] button on the product body.
2. After selecting the <Talk type> setting screen, press button 3 to select <Talk Protocol>.
3. Select the desired protocol method.
 - <IsIs-CP>: It operates in CP Mode. If you enter the CP event button (5key) or 10key button on the microphone body and press the [TALK] button, the VP event set in the <Event & Preset> menu of the controller device will occur.
 - <IsIs-Group>: It operates in Group Mode. If you press the 10 key button on the microphone body and press the [TALK] button, it will broadcast to the group set in the <Group Settings> menu of the controller device.
 - <IsIs-Zone>: It operates in Zone Mode, and if you input the 10 key button on the microphone body and press the [TALK] button, it will broadcast to the zone set in the <Zone registration> menu of the controller device.



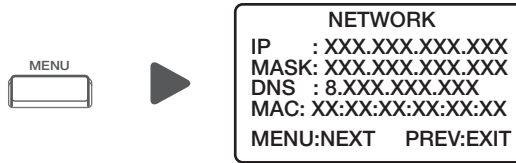
4. Press the [PREV] button to exit the <Talk Protocol> settings.

- On the standby screen, press the [PRESET] button on the microphone body to switch the <Talk Protocol> method.

Checking Network Information

You can check the network information set in the product.

1. Press the **[MENU]** button on the product body.
2. The **<NETWORK>** information screen will be displayed.

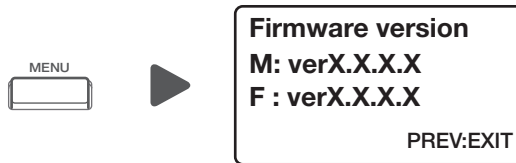


3. Press the **[PREV]** button to close the Network information screen.

Checking Firmware Version Information

You can check the current firmware version of the product.

1. Press the **[MENU]** button on the product body.
2. The **<Firmware version>** information screen will be displayed.



 (M : Main board firmware version, F : Front board firmware version)

3. Press the **[PREV]** button to close the Firmware information screen.



Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.



Hanwha Vision cares for the environment at all product manufacturing stages, and is taking measures to provide customers with more environmentally friendly products.

The Eco mark represents Hanwha Vision's devotion to creating environmentally friendly products, and indicates that the product satisfies the EU RoHS Directive.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

