

SIP MICROPHONE User Manual

SPA-M2000

CE

SIP Microphone

User Manual

Copyright

©2024 Hanwha Vision Co., Ltd. All rights reserved.

Trademark

Each of trademarks herein is registered. The name of this product and other trademarks mentioned in this manual are the registered trademark of their respective company.

Restriction

Copyright of this document is reserved. Under no circumstances, this document shall be reproduced, distributed or changed, partially or wholly, without formal authorization.

Disclaimer

Hanwha Vision makes the best to verify the integrity and correctness of the contents in this document, but no formal guarantee shall be provided. Use of this document and the subsequent results shall be entirely on the user's own responsibility. Hanwha Vision reserves the right to change the contents of this document without prior notice.

- ※ 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.

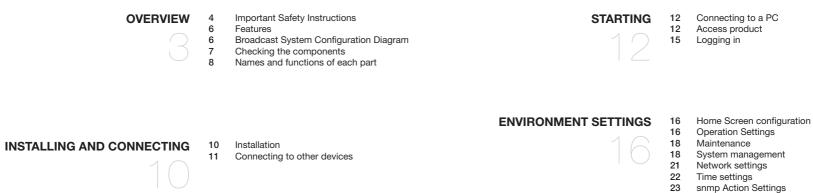
IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 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 lighting 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.
- This product is intended to be supplied by a Listed Power Supply Unit marked "Class 2" or "LPS" or "PS2" and rated from PoE(802.3af) : 48V (, kappa), max 250mA / DC 24V (, kappa), max 500mA.
- 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.



23 HTTPS Setting

USING THE MICROPHONE

- 25
- 24 Power on Broadcasting
- 26 Using CP event button
- 26 Using VP event button
- Using the SIP Shortcut keys 27
- Using menu 27

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.

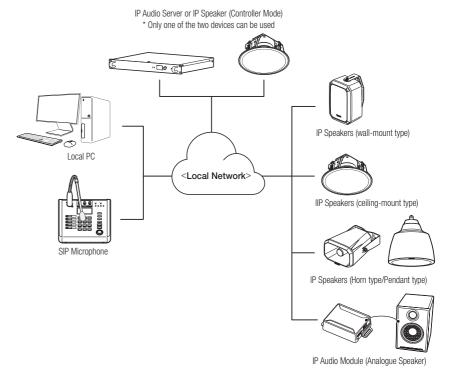
• Power over Ethernet (PoE)

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

BROADCAST SYSTEM CONFIGURATION DIAGRAM

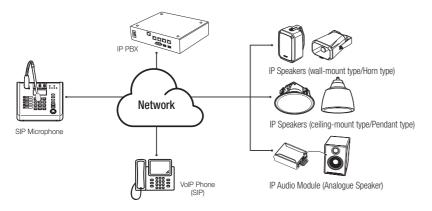
This product is a SIP microphone that is to be connected to the controller device (e.g., audio server, speaker/audio module set to controller mode) of the network audio system. To use the microphone, you must connect it to the network and register a device via a web-based integrated control software 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.



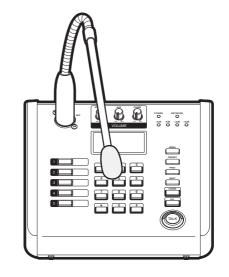
IP PBX Linkage Block Diagram

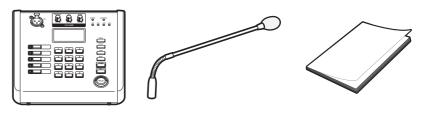
You can broadcast voice to each speaker with a VoIP phone which uses the SIP protocol by using the IP PBX server.

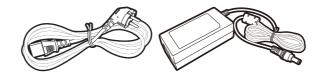


CHECKING THE COMPONENTS

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





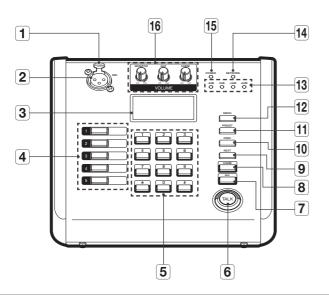




The images used in the product manual may differ from the actual product.

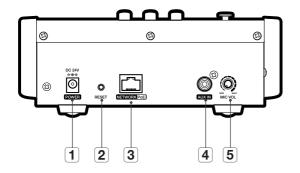
NAMES AND FUNCTIONS OF EACH PART

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. It is also used as the SIP shortcut key.
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="" list="" preset=""></all> 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 28)

Name	Function Description
7 ALL button	The button used to select all broadcast regions.
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 27)
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.</talk>
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.
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.



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

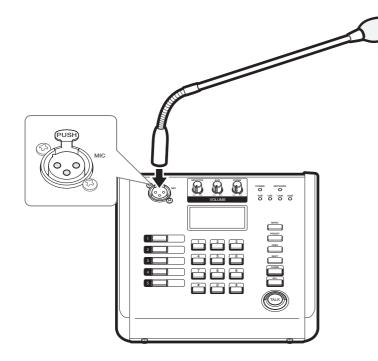
INSTALLATION

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.

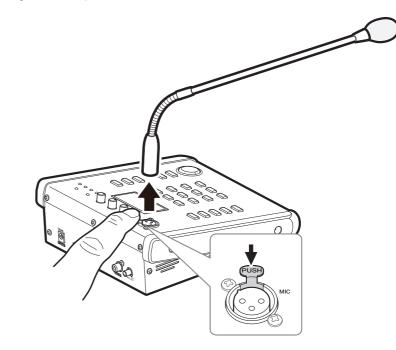
Connecting to the Gooseneck Microphone

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.

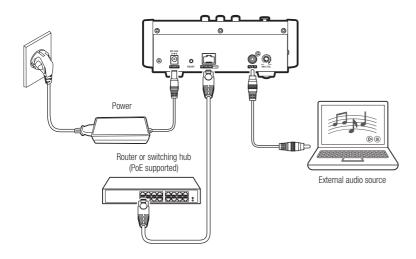


Disconnecting from the Gooseneck Microphone

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



CONNECTING TO OTHER DEVICES



Network Cable Specifications

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

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.

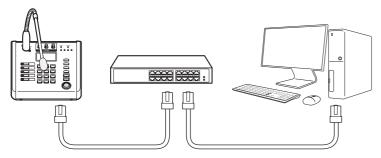
starting

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.

General	
You can get IP settings assigned autory this capability. Otherwise, you need for the appropriate IP settings.	
Obtain an IP address automatic	ally
Use the following IP address:	
IP address:	192.168.1.X
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.1.1
Obtain DNS server address auto	omatically
Use the following DNS server ad	dresses:
Preferred DNS server:	
Alternate DNS server:	
Validate settings upon exit	Advanced
	OK Cancel

- 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).
- 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.
- Image: 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.

Ø

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>.

	+ Devkes	- Greder	• tial	P Assign	,									E Report		RW	•		Ç⊱ ntig
Ster	85	· · · · ·	Select	All Clear	Reverse	List Search	Update All												
Site New Site #1								Drag a column here											
							(Column hide	: Column right click / Colu	mn posit	on char	ge : Colum	n drag and drop)							
Preducts All Devices(118)		Model	2sta	Name	Prode	P Address	MAC Address	Host Name	Seriel N.,	Nand.	Cettle.	E/W version	TH Satur	Last refreshed	Htp	Philas	Http P.	Https P.	TA
Devices(19)	0	SPA-C100	Login CK	SPA-C100	Static	182,160, 1, 10	001010039593	SPR-C100-001D1D028093	None			2445	Unknown	2023-08-29 5.8 2:3209	Disable	Disable	50	442	
Legin OE(0)	0	58A-C100	Login CK	584,0100	Static	192,168. 1. 11	001D1D039876	SFR-C100-001D1D03587E	None			3445	Linkanun.	2023-08-29 9-8 23239	Distale	Disable	80	441	
Legin Fail(0)	ō	SPA-C100	Login CK	SPA-C100	Static	192,165, 1, 12	00:10:10:03:98:77	SPR-C100-001D1D039077	None			2443	Unknown	2023-08-29 2.8 2:3210		Disable	00	443	
- Connect Fail(0) - Reade(0)	0	\$Pa.C100	Login CK	\$PA.C100	Static	192.168. 1.15	001010039697	SFA.C100-001D1D039997	None			3445	Linknown	P0585 # 2 95-10-5505	Digitite	Disable	50	443	
Recorder(3)	0	SPA-C110	Login CK	\$PA-C110	Static	192,165, 1, 17	001010039860	SPR-C110-001D1D029580	None			3443	Unknown	2025-08-29 8.8 2:52:10		Disable	80	443	
Legin OK(0)	0	SP8/W100	Logie CK	\$PA.W100	Static	182,168, 1, 21	001010038855	\$PA.W100.001D1D02888F	None			2445	Unknown	2023-06-29 5-8 23210	Disable	Disable	50	447	
- Legin Fail(0) - Connect Fail(0)	0	SPR-M1000	Login CK	\$7A-M1000	Zetic	192,165, 1, 59	0010100202CA	\$84-M1000-001D1D02D2CA	None			3445	Unknown	2023-08-29 9-8 2:5209	Disable	Disable	80	443	
Ready(2)	0	SPA-P100	Login CK	SPR-P100	Static	192.160. 1. 60	001D1D03985A	SPR-P100-001D1D00905A	None			2445	Unknown	2023-06-29 528 2:3210	Disable	Disable	60	442	
OVERN	0	594-8100	Login CK	SPR-P100	2MK	192,168. 1. 61	001010035548	5FA-P100-001010039848	None			3443	Unknown	2023-08-29 9-8 20209	Disable	Disable	80	443	
Login OK(0) Login Fail(0)	0	SPA-#100	Login CK	\$\$94-\$100	Static	192,165. 1. 62	001010039873	SPR-P100-001D1D009073	None			2443	Unknown	2023-08-29 5.8 2:5210	Disable	Disable	80	443	
- Connect Fail(0)	•	SP4-P100	Login CK	SP4-P100	Static	192.168. 1. 63	001D1D03586C	SPA.P100-00101009986C	None			3443	Unknown	2023-08-29 9-8 23210	Disable	Disable	80	443	
- Ready(2)	0	SFR-51000	Login CK	SFA-51000	Static	192,155. 1.70	001010426260	SPA-51000-00101D02826D	None			3445	Unknown	2025-08-29 9.8 2:52:09	Disable	Disable	80	445	
E Leon CK(19)	0	SPA-D1000	Login CK	SPA-D1000	Static	192.168. 1. 88	001010039909	SPA-D1000-001D1D039909	None			3.4.4.3	Unknown	2023-06-29 5-8 23210	Disable	Disable	50	443	
Login Fail(0)	•	SPA-01000	Login CK	SPA-D1000	Static	192,165. 1. 89	001010035910	SFA-D1000-001D1D05587D	None			3443	Unknown	2025-08-29 9.8 25210	Disable	Disable	80	443	
- Connect Fail(0) - Reads/0	•	SER-H1920	Login CK	SPA-H100	Static	192.160. 1.130	001010024276	SPA-H100-001D1D034276	None			2.4.4.3	Unknown	2023-06-29 2.8 2:32:10	Disable	Disable	80	443	
- xaadig	•	5PR-M1000	Login CK	5FA-M1000	Static	192,168. 1.134	001010020208	5FR-M1000-00101D02D2D8	None			3443	Unknown	2023-08-29 9-8 23209	Disable	Disable	80	443	
	0	SPA-C110	Login CK	SPA-C110	Static	192.160. 1.150	001D1D0399A3	SPA-C110-001D100099A3	None			2443	Unknown	2023-06-29 9.8 2:5210	Disable	Disable	00	443	
	•	SFA-H100	Login CK	5PA-H100	Static	192.168. 1.152	001010034187	SPA-H100-001D1D034187	None			3.4.4.5	Unknown	2023-06-29 年年 23210	Disable	Disable	80	443	
	0	SPA-H100	Login CK	SPA-H100	Static	192.165. 1.153	001010454201	SPA-H100-001D1D0342C1	None			3.443	Unknown	2023-08-29 9.8 2:52:09	Disable	Disable	80	443	

- 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>.
- 2. 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>.
- 3. 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.

4. 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, DNS2 8.8.4.4).

Assign - Single device						
Obtain an IP ac	Idress automatica	ily (DH	CP)			
Assign the follow	owing IP address			MAC Address :	00:1D:1D:03:40:F8	
IP Address :	192 . 168 .	1.	99	HTTP Port :	80	
Subnet mask :	255 . 255 .	255 .	0	VNP Port	4520	
Gateway :	192 . 168 .	1.	1	RTSP Port	554	
DNS1:	8.8.	8.	8			
DNS2 :	8.8.	4 -	4			
		Ap	ply	Close		

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.

O Obtain an P Address submaticity (DVC) # Asign the following IP address IP Address: 192, 166, 1, 1, 56 Submet mask: 252, 255, 255, .0 Gateway: 192, 166, 1, 1, 1 DNS: 8, 8, 0, 8, 8, 0 DNS: 8, 8, 0, 4, 4 Model MAC Address; IPRivery Submet(New) Sha Dioo 0010:100:534:06 192,168,1:00 IPRivery Submet(New) DNS1(DId DNS2(DId HTT Box ShaDioo 00 10:100:534:06 IPRivery Submet(New) DNS1(DId DNS2(DId HTT Box Box Box Box Box Box Box Box	🔮 IP Assign	- Multiple dev	ices										-		×
• Assign the following IP address IP Address: IP Address: IP Address: Subnet mask: 255, 255, 255, 0 Gateway: 192, 168, 1, 1 DK51: 8, 8, 1, 4, 4	Ochtain	an ID address a		in the Children											
IP Address: 192. 168. 1. 50 • 192. 168. 1. 54 HTTP Port 00 Subnet mask: 255. 255. 255. 0 • 192. 168. 1. 1 Pert 4520 Gateway: 192. 168. 1. 1 RTSP Port 554 DN51: 8. 8. 4. 4 • 1000000000000000000000000000000000000	Obtain	an ir address a	utoma	ically (Drice)											
Subnet mask: 255 255 0 0 Gateway: 192 166 1 1 RTSP Port 554 DNS1: 8	Assign	the following li	Paddre	55											
Gateway: 192. 168. 1. 1. 1 RTSP Port Stall DNS1: 8 . 8 . 8 . 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 9	IP Ac	ldress :	192	168 . 1 . 50	~ 192	. 168 . 1 . 54	HTTP Port	80]						
DNS1: 8 8 8 8 DMS2: 8 8 4 4 Model MAC Address IP(Old) IP(New) Subnet(New) DNS1(0ld) DNS1(0ld) DNS2(Old) HTP Device RTSP Result SPA-01000 00:1D:1D:03-466 192:168.1100 0 4320 554 00 4320 554 00 4320 554 980-0100 00:1D:1D:03-466 192:168.1100 00 4320 554 00 4320 554 980-0100 00:1D:1D:03-466 192:168.1100 00 4320 554 00 4320 554 980-0100 00:1D:1D:03-466 192:168.1100 00 4320 554 00 4320 554 980-0100 00:1D:1D:03-466 192:168.1100 00 4320 554 00 4320 554 980-0100 00:1D:1D:03-466 192:168.1100 00 4320 554 00 4320 554 980-0100 10:1D:03-026 192:168.1100 00 4320 </td <td>Subr</td> <td>net mask :</td> <td>255</td> <td>255 . 255 . 0</td> <td></td> <td></td> <td>Port</td> <td>4520</td> <td>]</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Subr	net mask :	255	255 . 255 . 0			Port	4520]						
DNS2: 8 8 4 4 Model MAC Address IP(Otid) IP(Otid) IP(New) Subnet/New) DNS1(Did) DNS2(Otid) HTP Device RTSP Result SR4-D1000 00:1D1:D03:468 192:168.11:00 Subnet/New) Gateway/New) DNS1(Did) DNS2(Otid) HTP Device RTSP Result SR4-D1000 00:1D1:D03:468 192:168.11:00 IP(New) Gateway/New) DNS1(Did) DNS2(Otid) HTP Device RTSP Result SR4-D1000 00:1D1:D03:466 192:168.11:00 IP(New) Gateway/New) DNS1(Did) DNS2(Otid) HTP Device RTSP Result SR4-D1000 00:1D1:D03:460: 192:168.11:00 IP(New) Gateway/New) DNS1(Did) IP(New) Gateway/New) IP(New) Gateway/New) IP(New) Gateway/New) IP(New) Gateway/New) IP(New) IP(New) Gateway/New) IP(New) Gateway/New) IP(New) Gateway/New) IP(New) Gateway/New) IP(New) <td>Gate</td> <td>way :</td> <td>192</td> <td>168 . 1 . 1</td> <td></td> <td></td> <td>RTSP Port</td> <td>554</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Gate	way :	192	168 . 1 . 1			RTSP Port	554	1						
DNS2: B B 4 4 Model MAC Address: PP(Old) PP(New) Submet(New) DNS1(Old) DNS2(Dld) HTTP Device REsult SPL-D1000 DID1D034/bit 192;168.11:00 Submet(New) DNS1(Old) DNS2(Dld) HTTP Device REsult SPL-D1000 DID1D034/bit 192;168.11:00 Submet(New) DNS1(Dld) DNS2(Dld) HTTP Device REsult SPL-D1000 DID1D034/bit 192;168.11:00 Submet(New) DNS1(Dld) B0 4530 554 SPL-D1000 DID1D1D034/bit 192;168.11:00 Submet(New) Submet(New) Submet(New) B0 4530 554 SPL-D1000 DID1D1D034/bit 192;168.11:00 Submet(New) Submet(New) </td <td>DNS</td> <td>1:</td> <td>8.</td> <td>8.8.8</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	DNS	1:	8.	8.8.8					1						
Model MAC Address IP(C161, 100 Subnet/Newl Gateway/Newl DNS1(D1d) DNS2(D1d) HTP Device RTSP Result SRN-D1000 00:10:10034/06 192:168.1.100 60 4520 554 60 4520 554 SRN-D1000 00:10:10034/06 192:168.1.100 60 4520 554 60 4520 554 SRN-D1000 00:10:10034/06 192:168.1.100 60 4520 554 60 4520 554 SRN-D1000 00:10:10:03:406 192:168.1.100 60 4520 554 60 4520 554 SRN-D1000 00:10:10:03:406 192:168.1.100 60 4520 554 60 4520 554 SRN-D1000 00:10:10:03:406 192:168.1.100 60 4520 554 60 4520 554	DNS	2:						Simulate]						
SPR-D1000 001D1D03340F8 192.168.1.100 80 4520 554 SPR-D1000 001D1D0340F8 192.168.1.100 80 4520 554 SPR-D1000 001D1D0340F8 192.168.1.100 80 4520 554 SPR-D1000 001D1D0340F8 192.168.1.100 80 4520 554 SPR-D1000 001D1D0340F4 192.168.1.100 80 4520 554 SPR-D1000 001D1D0340F4 192.168.1.100 80 4520 554															_
SR-D1000 001D1D:03438 192.168.1100 SR-D1000 001D:034026 192.168.1100 SR-D1000 001D:1D:034026 192.168.1100 BR-D1000 001D:1D:0340CA 192.168.1100 BR-D1000 0000 0000000000000000000000000000					IP(New)	Subnet(New)	Gateway(New)	DNS1(Old)	DNS2(Old)				R	asult	
SR4-D1000 001D1:D034064 192.168.1.100 80 4520 554 854 854 854 854 854 854 854 854 854															
SRA-D1000 00:1D:1D:03:40:CA 192.168.1.100 00:4520 554 00:4520 556 00:4520 550 00:4500 5500 556 00:4500 5500000000000000000000000000000	SPA-D1000	00:1D:1D:03:4	1:6B	192.168.1.100						80	4520	554			
SPR-D1000 00.1D:1D:03:40:CA 192.168.1.100 80 4520 554	SPA-D1000	00:1D:1D:03:4	0:DB	192.168.1.100						80	4520	554			
	SPA-D1000	00:1D:1D:03:4	0:E4	192.168.1.100						80	4520	554			
UP Down Apply Clost	SPA-D1000	00:1D:1D:03:4	0:CA	192.168.1.100						80	4520	554			
UP Down Apply Close															
UP Down Apply Close															
UP Down Apply Clost															
UP Down Apply Close															
UP Down Apply Close															
UP Down Apply Close															
rippy Close		100				Án	inhi Cli	se							-
	0.						- Cit								

- When you select <0btain 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.

starting

- 5. 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.

Device Default Setting	×
Default ID :	admin
Default Password :	•••••
Default Password(Confirm) :	•••••
	Apply
l	

- 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.
- 1. When selecting firmware for each product and running [Upgrade], the status will change from <Login OK> to <Progress %>.

ownload Path	C:\Users\Public\Doc	uments\Wisenet\Wi	enet Device Manag	ger					
Aodel	MAC Address	IP Address	Current ver.	Warning		Status	New ver.	Current ISP	New ISP
SPA-S1000	SPA-S1000 ver3.4.0.								
	00:1D:1D:02:E2:71	192.168.1.121	3.4.0.15	Transfer (4) 12:35:	35 PM	50%		None	
SPA-W100	SPA-W100 ver3.4.0.1								
	00:1D:1D:03:40:E1	192.168.1.131	3.4.0.15	Transfer (4) 12:35:	35 PN	50%		None	
	00:1D:1D:03:40:D3	192.168.1.135	3.4.0.15	Transfer (4) 12:35:	35 PN	50%		None	
SPA-C100	SPA-C100 ver3.4.0.1								
	00:1D:1D:03:41:B7	192.168.1.132	3.4.0.15	Transfer (4) 12:35:	35 PN	50%		None	
SPA-D1000	SPA-D1000 ver3.4.0.								
	00:1D:1D:03:40:FC	192.168.1.133	3.4.0.15	Ready 12:35:35	PM	Login OK		None	
SPA-M1000	SPA-M1000 ver3.4.0.								
	00:1D:1D:02:D2:DB	192.168.1.134	3.4.0.15	Ready 12:35:35	PM	Login OK		None	
								_	
pove list exclud	es the devices that are in e devices in	connection failed	or in Togin failed :	natus.					
Parallel	Max Device 4	Relative time :	Now	\checkmark					
Sequence		O Absolute time :	Monday , 12:35:56 PM	May 16, 2(~		c Close			

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

ownload Path	C:\Users\Public\Doc	uments\Wisenet\Wis	enet Device Man	ager					
Model	MAC Address	IP Address	Current ver.	Warning		Status	New ver.	Current ISP	New ISP
SPA-S1000	SPA-\$1000 ver3.4.0.								
	00:1D:1D:02:E2:71	192.168.1.121	3.4.0.15	Transfer (4) [RE-LOGI	NJ 12:35	Success	3.4.0.16	None	None
SPA-W100	SPA-W100 ver3.4.0.1								
	00:1D:1D:03:40:E1	192.168.1.131	3.4.0.15	Transfer (4) [RE-LOGI	NJ 12:35	Success	3.4.0.16	None	None
	00:1D:1D:03:40:D3	192.168.1.135	3.4.0.15	Transfer (4) [RE-LOGI	NJ 12:35	Success	3.4.0.16	None	None
SPA-C100	SPA-C100 ver3.4.0.1								
	00:1D:1D:03:41:B7	192.168.1.132	3.4.0.15	Transfer (4) [RE-LOGI	NJ 12:35	Success	3.4.0.16	None	None
SPA-D1000	SPA-D1000 ver3.4.0.								
	00:1D:1D:03:40:FC	192.168.1.133	3.4.0.15	Transfer (1) 12:3	5:35 PM	50%		None	
SPA-M1000	SPA-M1000 ver3.4.0.								
	00:1D:1D:02:D2:DB	192.168.1.134	3.4.0.15	Transfer (1) 12:3	5:35 PM	<mark>50</mark> %		None	
_									
	les the devices that are ir	connection failed	or in Todin failed	, status					
Upgrade multipl		Schedule	or in registratica	July.					
opgrade manip					Download				
Parallel	Max Device 4	Relative time :	Now	~					
O Sequence		O Absolute time :	Monday ,	May 16, 2(~					
			12:35:56 PM	*		Close			

 The speakers and audio bridges 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/Audio Bridge: 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.

STARTING

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.
 - ← → C G 192.168.1.100

F 😩 -

 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.

Ē	idmin	

- 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.

Password	
Login	
⊕ English ∨	

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.
- 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 21)

	Ģна	nuha Vision					
		Environme	nt Setting > Network:	Setting			
		Common r	network configuratio	ns setting	Network		
2 2 2							

- 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 19)
- 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.

Usemame	IP address	Access time	Control
admin	192.168.1.99	2021/04/12 15:48:49	Disconnect
admin	192.168.1.100	2021/04/12 16:25:15	Disconnect
admin	192.168.1.101	2021/04/12 17:42:59	Disconnect
admin	192.168.1.102	2021/04/13 15:21:05	Disconnect
admin	192.168.1.103	2021/04/13 16:11:30	Disconnect

environment settings

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
	Home	Goes to the Home screen.
	Operation Setting	You can configure the SIP operation settings.
	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)
		If you click < Hanwha >, the screen will move to the Hanwha Vision Official Website.
	Go to the 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.

OPERATION SETTINGS

SIP Management

When it is connected to the VoIP phone which uses the standard SIP protocol and IP PBX server, the voice on the VoIP phone can be played on the speaker.

If you turn on the microphone by setting the <**DSP Setting**> → <**Input Volume Setting**> of the speaker to <**CONDENSER MIC**>, 2-way Talk (Half Duplex) is supported between the VoIP phone and the speaker. The SIP function has been verified in an IP PBX server (Asterisk) and VoIP phone (Grandstream, Yealink, Cisco) environment.

The SIP function has been verified in an IP PBX server (Grandstream) and VoIP phone (Grandstream) environment.

SIP Account

SIP Accoun	SIP Set							
SIP Acc	ount List					SIP Account In	formation	
Use	r ID Name	SIP Address	Status	Status Detail	Default			
 local 		sip:136@192.168.1.136		ide				
			_					

- 1. Register the account and IP PBX information in <SIP Account Information>.
 - · User ID: ID of SIP users (account in the IP PBX).
 - · Name: Names that users enter for easy identification.
 - Transport Mode: UDP mode is provided using the VoIP packet transmission method.
 - · Media Encryption: No encryption is used.
 - Password: Enter the password provided by IP PBX.
 - Domain: Enter the address of IP PBX.
 - Authentication ID: Enter the authentication ID provided by IP PBX. (It may not be used depending on the type of the IP PBX.)
 - Display name : It is the name which can be displayed on the receiver side. (It may not be used depending on the type of the IP PBX.)
 - Registrar: Enter the Registrar Server address. If the account is properly registered with Registrar, authentication is attempted regularly.
- 2. When you [save] <SIP Account Information>, the registered <User ID> information is displayed on the <SIP Account List>.

On the <SIP Account list>, you can select and modify the account.

V

3. Set whether to use the account as the default account or not.

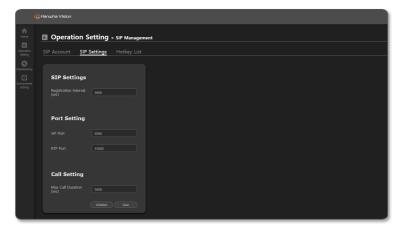
When you check the account's [Default] on the <SIP Account List>, it will be sent from/received to that account.

The account's [Status] is activated and [detailed information of the status] is also changed from Idle to Registered, and it is displayed as Online Devices in the IP PBX web page's Extensions menu. When you disable [Default], it is changed to Unregistered, and it is also displayed as Offline Devices in IP PBX.

- 4. If you dial <User ID> on your VoIP phone and speak, it will be received by and played on the speaker. The <Status Detail> of the <User ID> account will display as "Running, Conversation," and if you hang up the phone, it will change to "Disconnected." If you refresh the web screen, the status will be converted to "Registered" and maintained.
- <Local host> is provided as a default, and it can be used in both <speaker mode> and <Controller mode> speakers.

For <Local host>, playing audio is possible when the account linked with the IP PBX server is additionally registered or when there is only the VoIP phone without being linked to the IP PBX server. For example, if it is sent from the VoIP phone on the same network to <sip:99@192.168.1.99>, it is connected to the SIP of the local host.

SIP Settings



1. Enter <SIP Settings> items.

Registration Interval: Enter the SIP registration period. (Default: 3600)

2. Enter <Port Setting> items.

- SIP Port: Set up the port to operate SIP communication. (Default: 5060)
- RTP Port: Set the RTP port. (Default: 35000)
- 3. Enter <Call Setting> items.
 - Max Call Duration: Set the waiting time when a call ends abnormally.
- 4. <SIP Settings> information can be initialized/saved.

SIP shortcut key settings

No Call Number	Name	

1. Enter the SIP address for each shortcut key.

• ex) sip:2011@192.168.1.155

2. Enter the shortcut key name or short description.

- 3. If necessary, initialize or save the <Hotkey List>.
- The information may differ depending on the IP-PBX if linked to.
 - In case of SIP Local Call (using the IP's last digits), they must have been configured with LAN (dedicated network).
 - The 1:N mapping is not supported for SIP Local Call (using the IP's last digits) between the network microphones.

environment settings

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> \rightarrow <View Log> on the Home screen.
- 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 mapping are quoried up to 1000 lines, and if they exceed 1000 lines.
 - The logs of each menu are queried up to 1000 lines, and if they exceed 1000 lines, the oldest logs are deleted first.
- 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.

Environment S	etting > System	Managemen	t	
System Upgra				System Check Setting
After the system upg	the system upgrades, an rade, be sure to press Re	fresh button.		System Check Time 00 V Hour 00 V Minute
(Windows OS : Ctrl +				Activation Apply Cancel
Select file				
				System Restart
				System Restart Apply
Password Cha	ange			
Destination Account				Factory Default Setting
Current Password				# Do not turn off until the factory resets, and reboots. Please register again when the factory reset is completed.
New Password				
New password				
confirm				Network status Apply
				Background Image
Account lock	status			W You can change the background image of the home screen. (JPG format, 10MB or less is recommended)
				Select file Select file
		`		Select like Select like Apply Cancel
		^		
		`		

Upgrading the System

- 1. Click <Environment Setting> → <System Management> on the Home screen.
- 2. Click the [] button in <System Upgrade>.
- 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].

Organize • New folder				100 -	
Desktop # ^ Name ^	Date modified	Туре	Size		
Downloads # SPA-M2000_ver3.4.4.12.imkp		IM82 File	135,637 KB		
Documents #					
📰 Pictures 📌					
JCS-C18CW001					
Munic					
58P-1350FPW					
JCS-C18CW001					
OneDrive					
This PC					
10 Objects					
Desktop					
B Documents					
🕹 Downloads 🖕					
File name:			V IMKP Be		

- 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.

inge

- 1. On the Home screen, click <Environment Setting> → <System Management>.
- 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.
- 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: The SIP settings and log history can be viewed.
- 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.

Accou	nt lock statı	ıs		
				Reset lock count
set	up	5	Ê	Reset
us	er	0	۵	Reset
gu	est		۵	Reset

- 1. On the Home screen, click <Environment Setting> → <System Management>.
- 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> \rightarrow <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.

	ograde Funtil the system upgrades,				Check Setting	
* Do not turn off Select file Password		and reboots.		Suctors Cheele	Time IS v III	sur 77 e Minuto
Destination Acco				System check s		
			R	efresh(F5) after	' a while.	
		ntirm (
Account lo						

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>.
- If you click the [Apply] button of the <AII> 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

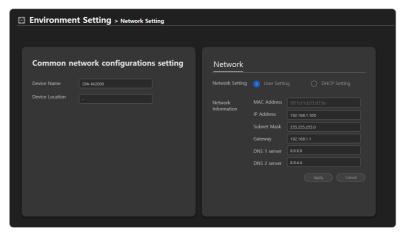
- 1. On the Home screen, click <Environment Setting> \rightarrow <System Management>.
- 2. Under <Background Image>, press the [] button to select an image file, then click the [Apply] button.
- 3. Click the [Initialize] button to apply the initial image.

Backgro	and image			
	nge the background image of th	e home scree	n.	
(JPG format, 10	OMB or less is recommended)			
Select file				
Select file				

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>.



ENVIRONMENT SETTINGS

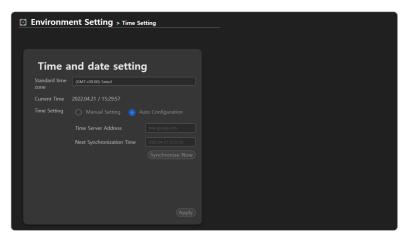
- On the <Common network configurations setting>, the <Device Name> is displayed as <Name> on the device manager's query list.
- You can enter the location of installation in <Device Location> in <Common network configurations setting> (e.g. 6th floor, Main Building)
- You can enter the IP address, subnet 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.

environment settings

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> \rightarrow <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> \rightarrow <snmp action settings>.

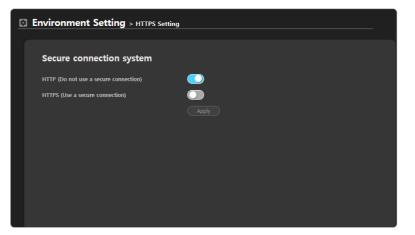
Environment Setting > snmp action settings				
Operation N	lode.			
operation	loue			
		Enable		
		public		
		write		
		Enable		

- 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 (\, I, <, >, ', ", /, ?) are not allowed.

HTTPS SETTING

Select a secure connection system. When you complete the configuration, click the [Apply] button.

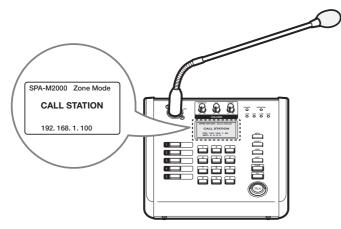
1. On the Home screen, click <Environment Setting> → <HTTPS Setting>.



- Secure connection system: Select a secure connection method according to the operation environment, considering the security level. HTTPS (HyperText Transfer Protocol over Secure Socket Layer) exchanges data through encryption and decryption for page requests from users in the SSL sublayer below the hypertext transfer protocol layer. Therefore, it may be more secure than the HTTP mode.
 - HTTP (Do not use a secure connection): Select when you want to transmit data over HTTP without encryption.
 - HTTPS (Use a secure connection): Select when you want to connect in HTTPS secure connection mode.

using the microphone

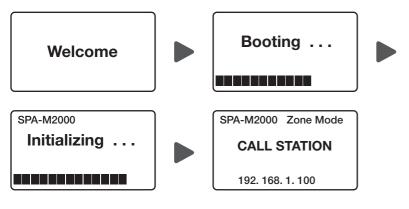
When using the microphone, you can check the input number and current status through the status indicator of the product.



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 4 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.

SPA-M2000 CP Mode	
CALL STATION	If <talk protocol=""> is in the Isls-CP</talk>
192. 168. 1. 100	
SPA-M2000 Group Mode	
CALL STATION	If <talk protocol=""> is in the Isls-Group</talk>
192. 168. 1. 100	
SPA-M2000 Zone Mode	
CALL STATION	If <talk protocol=""> is in the IsIs-Zone</talk>
192. 168. 1. 100	
SPA-M2000 SIP Mode	
CALL STATION	If <talk protocol=""> is in the SIP</talk>
192. 168. 1. 100	

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.

When receiving a SIP call on the standby screen, you can hear the other party's voice through the speaker of the main body.



BROADCASTING

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



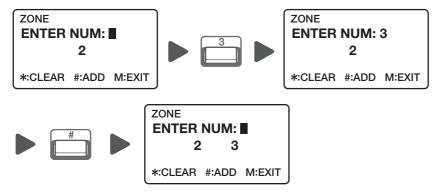
The number specified in the zone registration and group setting menus of the controller device will be selected for Zone and Group mode.

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.



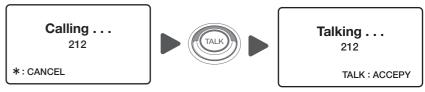
- = To cancel a registered number, press the button of the number and then press the [*] button to delete the number.
- For SIP, only one number can be registered.

Ø

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)
- 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.
- If <Talk Protocol> is in SIP mode, enter the last 3 octets of the target device's IP address and then press the [Talk] button.



8. When a SIP call is connected, it switches to the call screen. Listen to the other party's voice through the speaker of the main body.

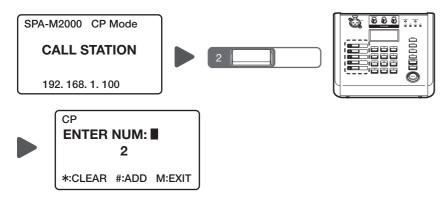
- In case of SIP Local Call (using the IP's last digits), they must have been configured with LAN (dedicated network).
 - The 1:N mapping is not supported for SIP Local Call (using the IP's last digits) between the remote microphones.

using the microphone

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.



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

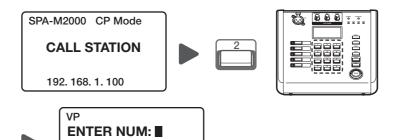


4. When the <Talking...>screen is displayed, the set event of the entered CP number will occur.

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.



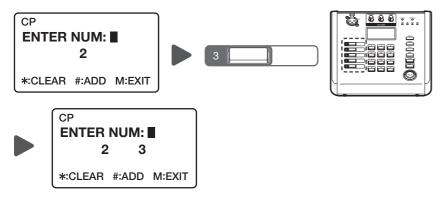
*:CLEAR #:ADD M:EXIT

2

- 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.

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.



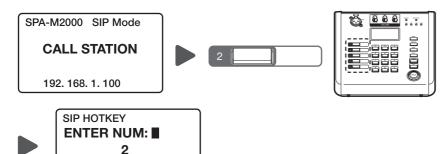
To cancel the registered CP event number, press the button once more to delete the number.

Ø

USING THE SIP SHORTCUT KEYS

You can call a device registered as a SIP shortcut key by pressing the button (5 key) on the left of the microphone.

1. Press the desired SIP shortcut key on the standby screen.



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

3. When <Calling...> appears, calling to the entered number begins.

*:CLEAR #:ADD M:EXIT

USING MENU

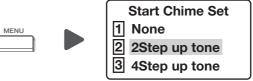
If you press the **[MENU]** button on the product body, you can change the **<Chime>** and **<Talk type>** settings, or you can check the network information and firmware version.

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.
- 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.



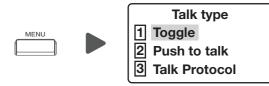
Before ending the microphone broadcast on the <Talking> screen, if you press the [CHIME] button, you will hear the chime you set at <End Chime Set>.

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.



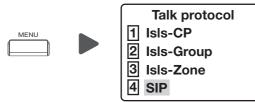
3. Press the [PREV] button to exit the <Talk type>settings.

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.

 - <SIP>: It operates in SIP Mode, and if you enter the CP event button (5key) or 10key button on the microphone body and then press the [TALK] button, the SIP call begins.



On the standby screen

• 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.

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

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

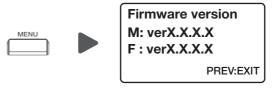


3. Press the [PREV] button to close the Network information screen.

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.

F© (€

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.



R

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.

