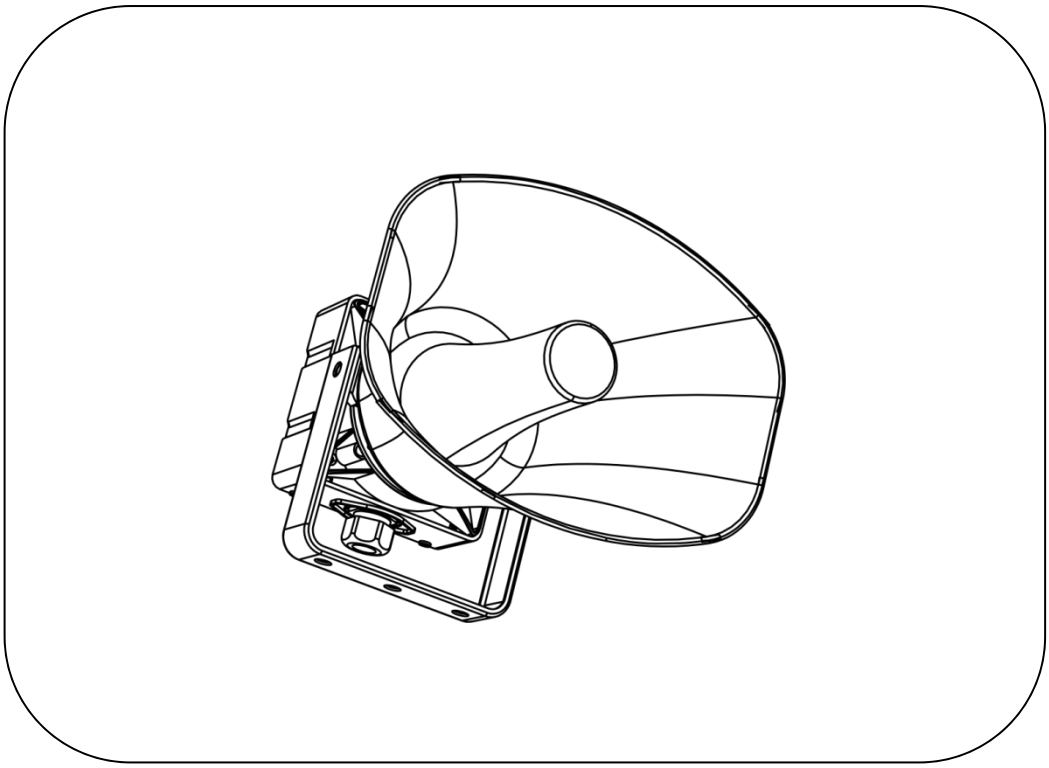
User's Manual

IP Horn Speaker

IP-SC15MC



Thank you very much for purchasing this TOA product.
Please read the instructions carefully to ensure long-term, and trouble-free operation of the unit.

TOA Corporation

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1. SAFETY PRECAUTIONS.

• Before installation or use, be sure to carefully read all the instructions in this section for correct and safe operation

• Be sure to follow all the precautionary instructions in this section, which contain important warnings and/or cautions regarding safety.

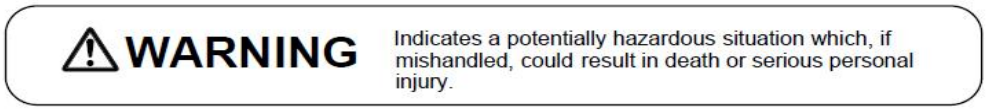
• After reading, keep this manual handy for future reference.

Safety Symbol and Message Conventions

Safety symbols and messages described below are used in this manual to prevent bodily injury and property damage which could result from mishandling. Before operating your product, read this manual first and understand the safety symbols and messages so you are thoroughly aware of the potential safety hazards.

WARNING

Indicates a potentially hazardous situation which, if mishandled, could result in death or serious personal injury.



When Installing the Unit

•Install the unit only in a location that can structurally support the weight of the unit and the mounting bracket. Doing otherwise may result in the unit falling down and causing personal injury and/or property damage.

•When installing the unit in the snowy area, take appropriate measures to prevent snow from lying on the unit. If the snow lies on the unit, the unit may fall, causing personal injuries.

•Do not use other methods than specified to mount the bracket. Extreme force is applied to the unit and the unit could fall off, possibly resulting in personal injuries.

•Use nuts and bolts that are appropriate for the ceiling's or wall's structure and composition. Failure to do so may cause the speaker to fall, resulting in material damage and possible personal injury.

•Tighten each nut and bolt securely. Ensure that the bracket has no loose joints after installation to prevent accidents that could result in personal injury.

•Use the specified mounting bracket in combination. Doing otherwise may cause the unit or component to fall off, resulting in personal injury.

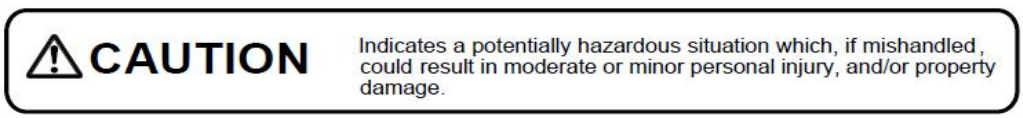
•Do not mount the unit in locations exposed to constant vibration. The mounting bracket can be damaged by excessive vibration, potentially causing the unit to fall, which could result in personal injury.

•Do not use anti-rust lubricant. If it contacts resin or rubber parts, they could deteriorate and cause the unit to fall, possibly resulting in personal injury.

•Avoid installing the speaker in locations close to the seashore or in indoor swimming facilities that are not well ventilated. In such locations, the bracket may be vulnerable to corrosion, eventually allowing the speaker to fall resulting in personal injury.

CAUTION

Indicates a potentially hazardous situation which, if mishandled, could result in moderate or minor personal injury, and/or property damage.



When Installing the Unit

•Avoid touching the speaker's sharp metal edge to prevent injury.

When the Unit is in Use

•Do not place heavy objects on the unit as this may cause it to fall or break which may result in personal injury and/or property damage. In addition, the object itself may fall off and cause injury and/or damage.

•Do not operate the unit for an extended period of time with the sound distorting. Doing

so may cause the connected speakers to heat, resulting in a fire.
- Use the dedicated AC adapter or its equivalent for the unit. Note that the use of other adapter may cause a fire.
- Do not stand or sit on, nor hang down from the unit as this may cause it to fall down or drop, resulting in personal injury and/or property damage.
- Have the unit checked periodically by the shop from where it was purchased. Failure to do so may result in corrosion or damage to the speaker or its mounting bracket that could cause the unit to fall, possibly causing personal injury.

IMPORTANT NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

2. PRODUCT DESCRIPTION

2.1 Overview

IP-SC15MC is an IP Horn Speaker, which can receive broadcasts initiated by other units or servers, and supports unit configuration through a browser. With loop fault detection function, unit can provide regular updates on its operation status. Other features are as follows:

(1) Receive broadcast
The IP-SC15MC can receive broadcasts initiated by servers or other units.

(2) Internal Audio File broadcast
Audio files can be uploaded and triggered remotely (via server), or local contact control.

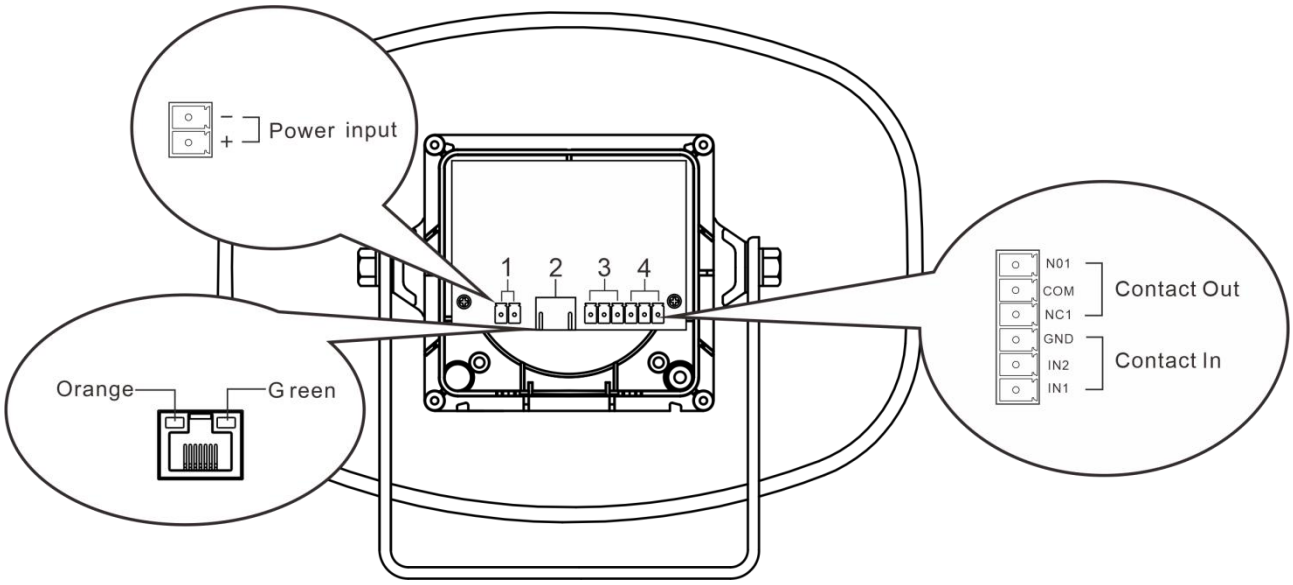
(3) Web Browser Configuration
Users can configure IP-SC15MC ' s network, and audio parameters, modify login passwords, etc. through the browser for custom setup and configuration.

(4) Audio Check
IP-SC15MC has Audio Check function, which checks the working status of the speaker through its microphone loop.

(5) Working status LED
IP-SC15MC has a working status LED which indicates its working status via the flashing of the LED.

2.2 Interface Description

Unit connections (Note: you will need to remove the waterproof cover to access these):

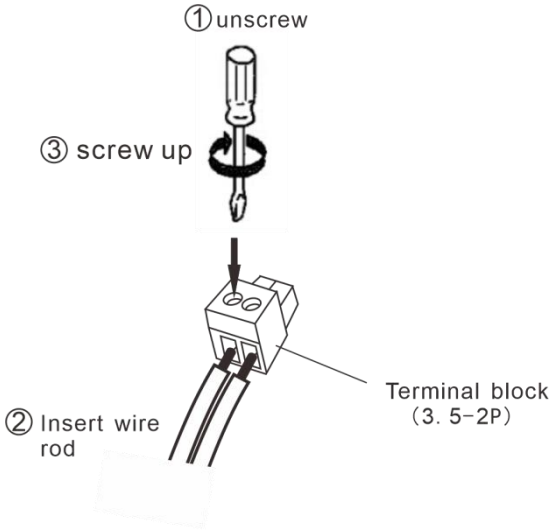


1. **Power Input:** Requires a DC24V/2.7A power input. (Note: this Unit supports POE, if connected to a POE switch there is no need to connect to a power supply)
2. **Network Interface:** RJ-45 CAT5e or higher. The network interface comes with two-color (green, orange) LED, which indicates network connectivity and power status. (Note: this Unit supports IEEE802.3af.)

Status	LED indication
Powered on	The orange LED is solid
Plugged in the Internet cable	The green LED is solid
Receiving broadcast	The green LED is flashing

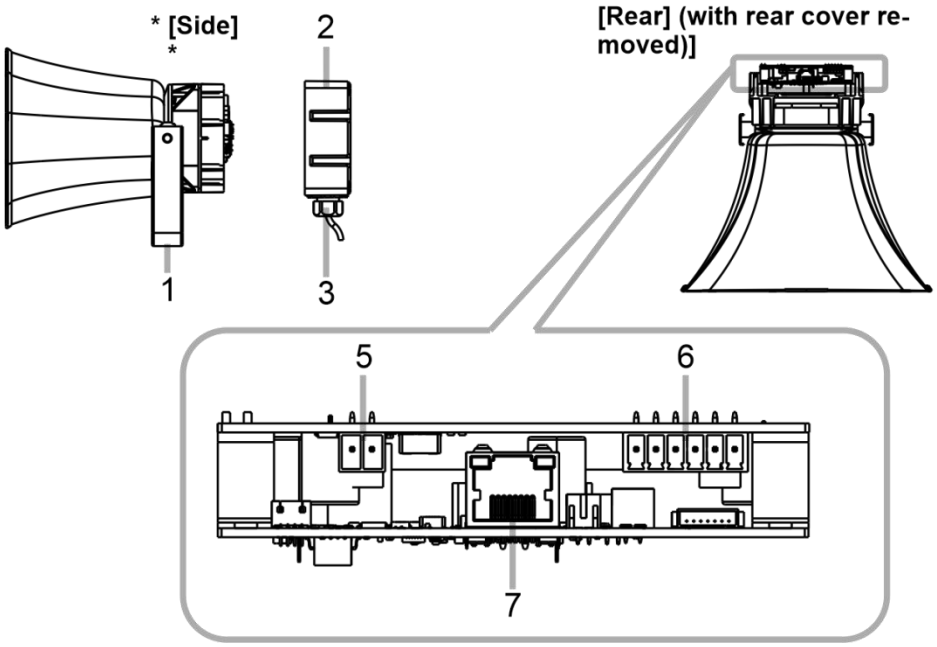
3. **Contact Out:** Allows the unit to send a dry contact output used for external devices.
4. **Contact In:** Allows the unit to receive a dry contact input used to trigger playback and other events.

Note: The power Input is wired through the 3.5-4P terminal, and the wiring steps are as follows:



3. WIRING AND INSTALLATION

3.1 Nomenclature and Functions

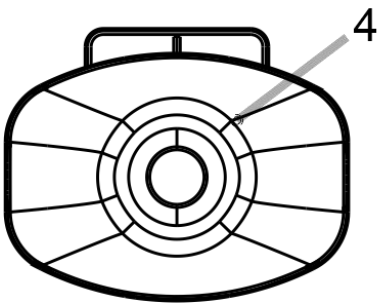


1. *Mounting bracket
   Used to securely mount the speaker to a wall or ceiling.

2. *Rear cover (accessory)
   This weatherproof cover protects the cable connection parts from the elements.

3. *Sealing nut
   Functions as a weatherproof cable inlet.

4. *Microphone
   An electret microphone element is installed at this position.



5. *Power Input
   Connect a DC24V, 2.7A power supply.

6. *Contact In/Out
   Connection terminals for wiring Contact In/Out.

7. *LAN port
   Connect to a PoE+/PoE switching hub using a LAN cable. Depending on the POE power supplied. The Amplifier Rated Output is as follows.
   .*15 W at PoE+ (IEEE802.3at) powered
   .*8 W at PoE (IEEE802.3af) powered

3.2 Handling Precautions

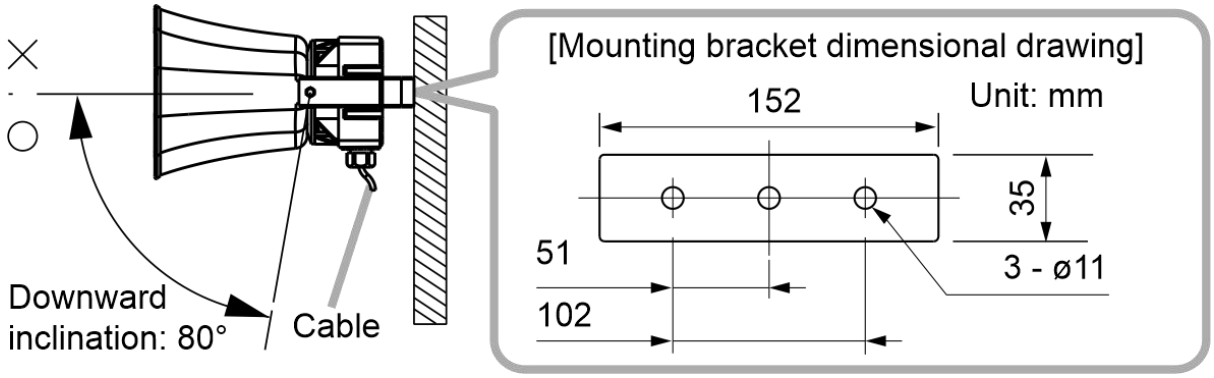
.*Please apply the latest firmware version to this product. The latest version is available at the TOA DATA Library (https://www.toa-products.com/international/).
.*As this product is IP-based, there is a slight time lag between transmission and broadcast.
.*Broadcast audio may sometimes break up due to packet loss or network failure.
.*Periodic inspection and manual rebooting are needed to extend the product life.
.*This product may reboot automatically in some occasions to refresh operation.

3.3 Installation Precautions

CAUTION

Observe the following instructions when attaching the safety wire. Failure to do so could result in the speaker falling, potentially resulting in personal injury.
.*Select a safety wire that is strong enough to withstand the total weight of the speaker being mounted.
.*Use a metal wire with a diameter larger than 1.5 mm or 0.06".
.*Attach the safety wire with minimal slack.

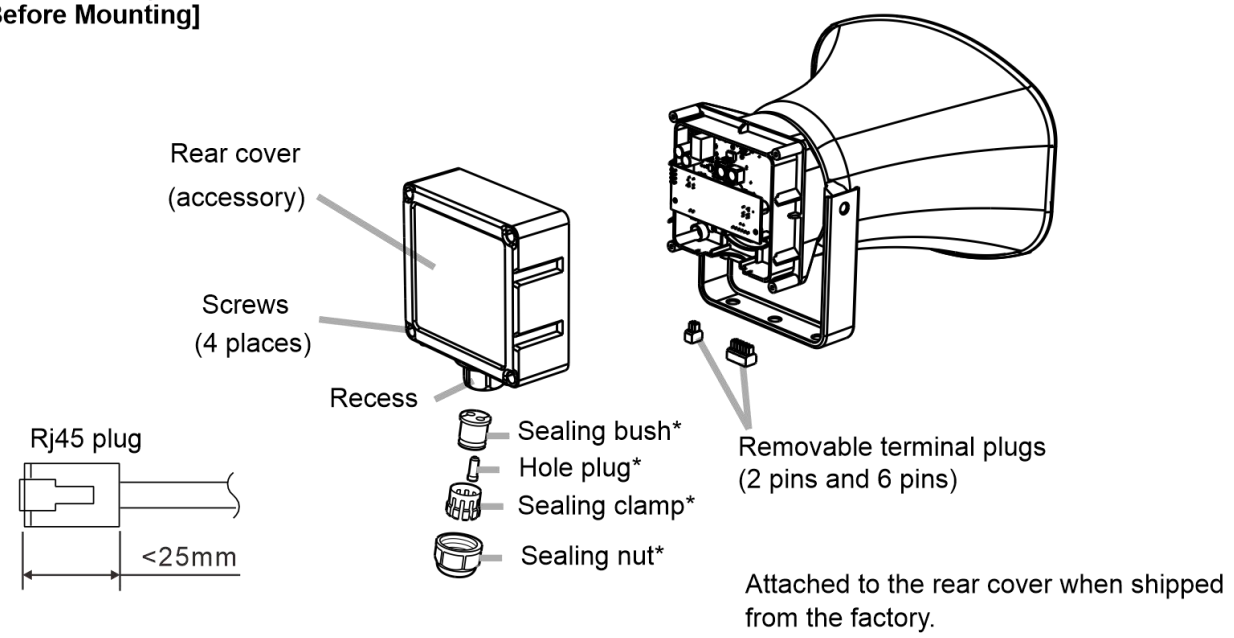
Mount the speaker so that its downward inclination is within 80° of horizontal, and the cable inlet is facing downward, as shown in the figure below.



3.4 Installation

3.4.1 Attaching the Rear Cover

[Before Mounting]



Notes

*To ensure complete weatherproofing, be sure that the following specifications of cable are used for both the LAN cable and the control input and output cable:

* Cable diameter: ϕ4.5 to 5.2 mm or ϕ0.18" to 0.2"
* Cable type: Round (not compatible with flat or spiral type cables.)

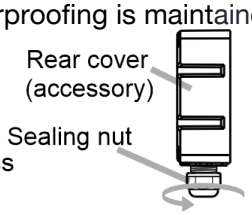
*The recess is 14.5mm or 0.57" in diameter. Use a LAN cable with an RJ45 plug that can pass through this recess.

*The length of the RJ45 plug must not exceed 25mm. Otherwise, it cannot be installed properly.

[Installation procedure]

The rear cover is designed to meet specific weatherproofing regulations (IP66 enclosure standards). During installation, follow the procedure outlined below to ensure that weatherproofing is maintained.

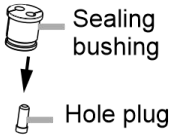
Step 1. Turn the sealing nut counterclockwise to detach it from the rear cover.

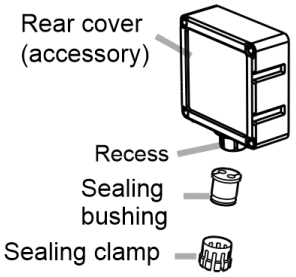


Step 2. Remove both the sealing clamp and the sealing bushing from the recess in the cover.

Tip

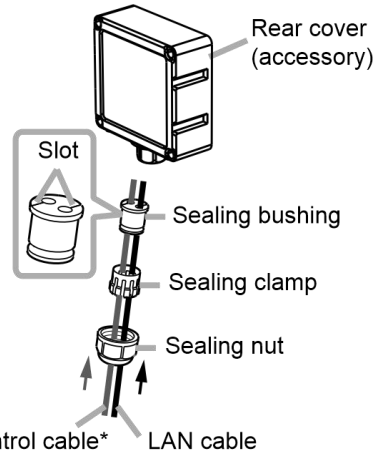
Use the hole plug with the sealing bushing as follows:

If using the control cable in **Step 3**	If NOT using the control cable in **Step 3**
Remove the plug from the sealing bushing.  	Leave the plug inserted in the sealing bushing.



Step 3. Slide each part over the ends of the LAN cable and control cable in the order shown in the figure at right.

Tip
Feed the cable ends through the sealing bushing can be more easily done by pressing the cable into the slots in the sealing bush.



*Only when using the control functions

Step 4. Feed the ends of both the LAN cable and the control cable through the recessed hole in the rear cover to connect them to the LAN port and terminals on the rear panel.
For connection method, see "Network Connection" mentioned below and "Connections to Control Input and Output Terminals" on the next page.

Step 5. Confirm that the ring gasket installed in the perimeter of the rear panel fits snugly in its groove.

Step 6. Attach the rear cover to the speaker using the 3 rear cover screws.

Step 7. Slide the sealing bushing and sealing clamp up the cable(s) and reinsert them into the recess in the rear cover.

Step 8. Slide the sealing nut up the cable(s) and screw it securely into position.
After tightening the nut firmly by hand, secure it by rotating another 90° (1/4 rotation) using a wrench.

Note
Take care not to overtighten the nut, as it could be damaged.

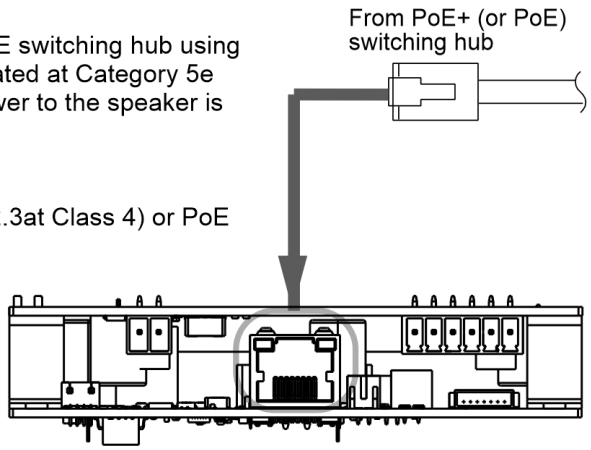
3.5 Connections

3.5.1 Network Connection

Connect the IP horn speaker to the PoE+ or PoE switching hub using a LAN cable (straight UTP or STP cable, both rated at Category 5e or greater and fitted with RJ45 connectors). Power to the speaker is supplied by the PoE+ or PoE switching hub.

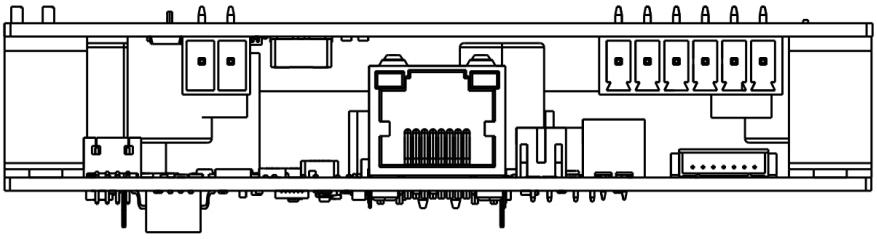
Compatible switching hubs:

* Switching hubs conforming to PoE+ (IEEE802.3at Class 4) or PoE (IEEE802.3at Class 3) specifications.



3.5.2 Connections to Control Input and Output Terminals

Use the supplied removable terminal plugs (6 pins) for connection. Connect a control line from the external control device to the speaker's control input or control output terminal. For connection of the removable terminal plugs, see "2.2 Interface Description"

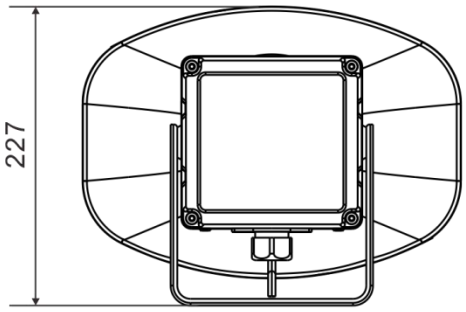


The following functions can be assigned to the control input and control output terminals by browser settings:

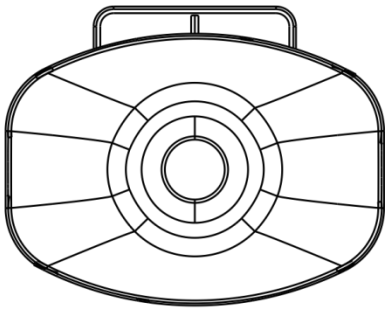
Terminals	Assignable Functions
Control input terminals	. SIP Unit calls . Internal sound source broadcasts
Control output terminals	. SIP broadcast in progress output . VMS broadcast in progress output . Multicast broadcast in progress output . Internal sound source broadcast in progress output

For settings, please refer to “4. WEB BROWSER SETUP”.

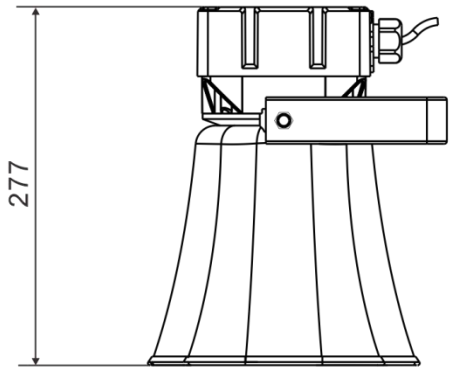
3.6 Reference dimension (unit: mm)



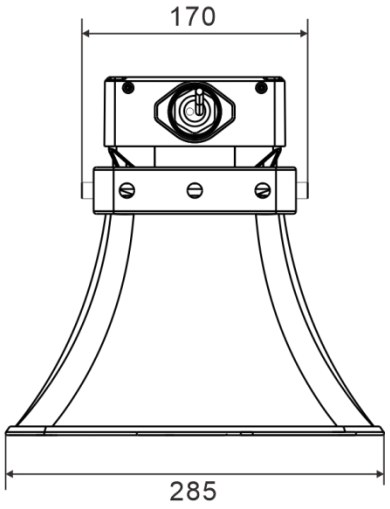
Rear View



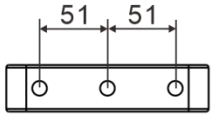
Front View



Side View A



Side View B



Mounting hole position

4. WEB BROWSER SETUP

4.1 Accessing the web page

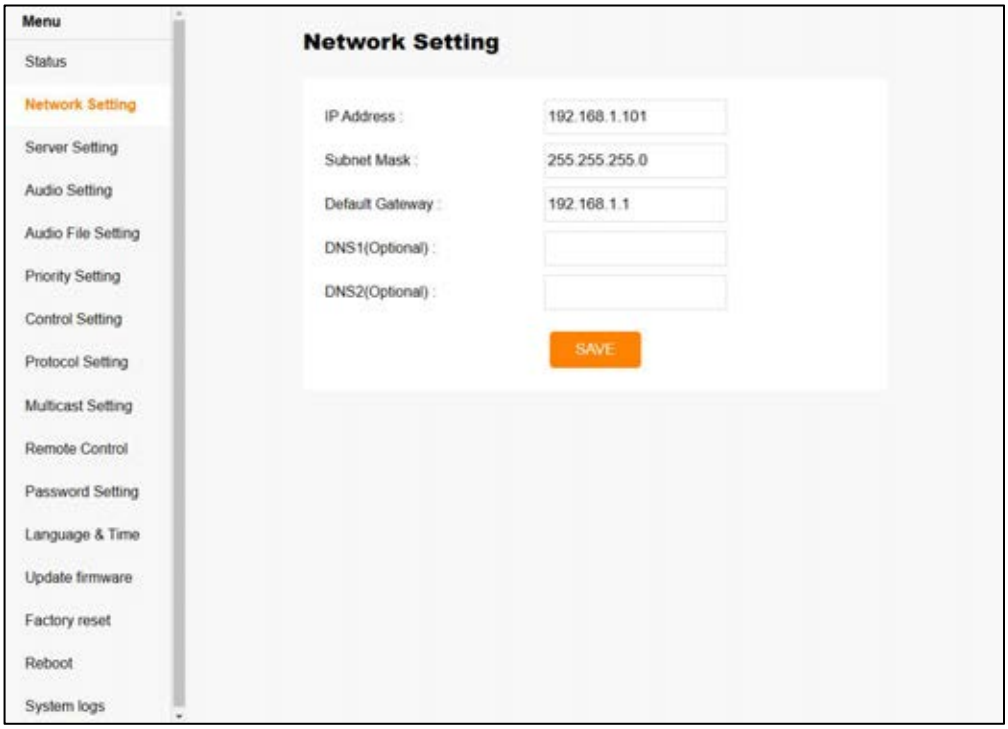
Step 1. Enter the IP address of IP Horn Speaker in the address bar of the Web Browser and press Enter. (The factory default IP is 192.168.1.101)
Note: If issues are encountered using Google Chrome, please use another browser.

Step 2. Enter the username and password in the login window of the Web page. Both Username and Password are “admin” by default.

Note: Usernames and passwords are case sensitive.

Step 3. Press OK, the home page shows the running status. The running status shows the current User/SIP ID, IP address, subnet mask and other network parameters of the Unit. It also shows the Unit status (Online, Offline), task status (Idle, Broadcasting), noise level, real-time volume and system time.

4.2 Network Setting

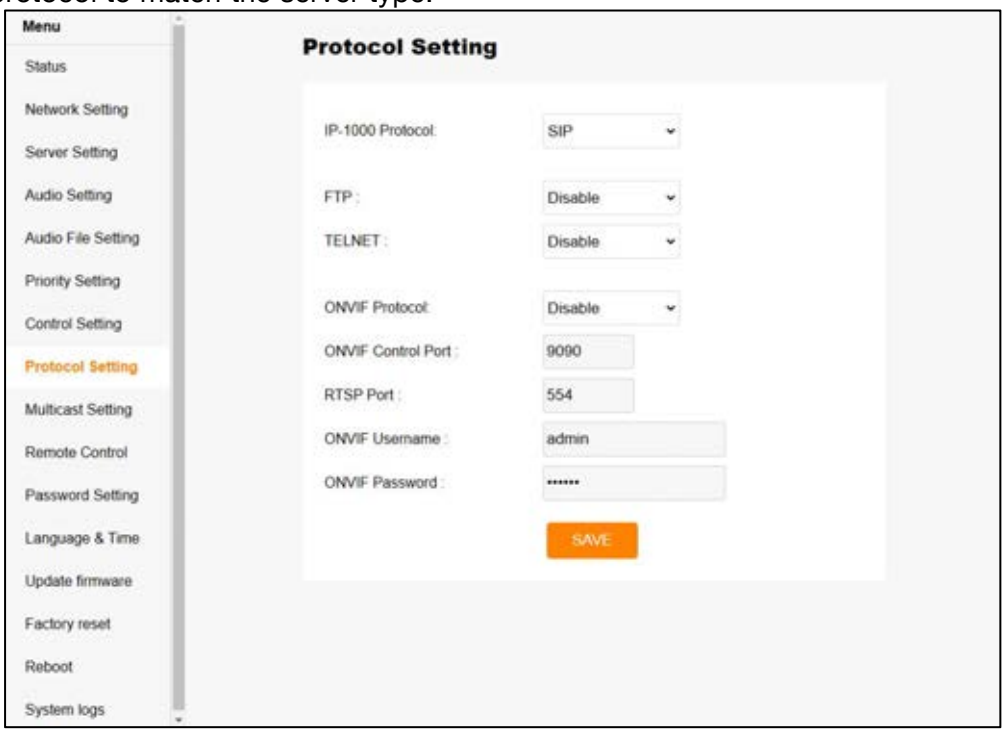


Description:

IP Address	The IP address of the Unit. The factory default IP address of the Unit is 192.168.1.101.
Subnet mask	The subnet mask to the network on which the Unit is located.
Default gateway	The default gateway to the network on which the Unit is located.
DNS1	The IP address of the preferred domain name resolver for the network on which the Unit is located.
DNS2	The IP address of the alternate domain name resolver for the network on which the Unit is located.

4.3 Protocol Setting

This Unit supports SIP protocol and NAS protocol (default is SIP). You can choose the transport protocol to match the server type.



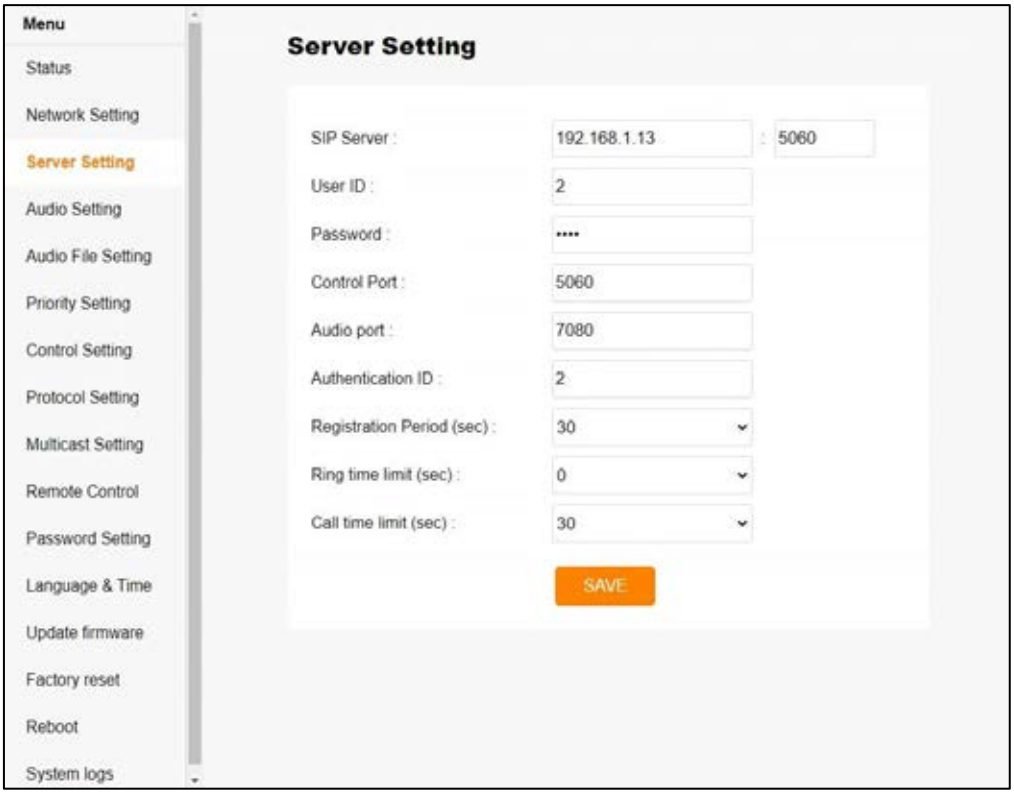
Description:

FTP	Set whether to enable FTP remote file transfer function. It is disabled by default.
TELNET	Set whether to enable the TELNET remote login terminal function. It is disabled by default.
ONVIF Protocol	Set whether to enable ONVIF video streaming function.
ONVIF Control Port	Set the ONVIF control port.
RTSP Port	Set the RTSP port video streaming.
ONVIF Username	Set the ONVIF username for ONVIF secure authentication.
ONVIF Password	Set the ONVIF password for ONVIF secure authentication.

4.4 Server Setting (SIP Protocol)

Configure the SIP information on this page to register the Unit with a SIP server. Set the required parameters directly in the "Server Setting" page. After setting, click [Save], and restart the Unit.

Note: If a NAS server is being used, it is necessary to set the protocol to NAS in the Web page "Protocol Setting", before setting the server parameters.

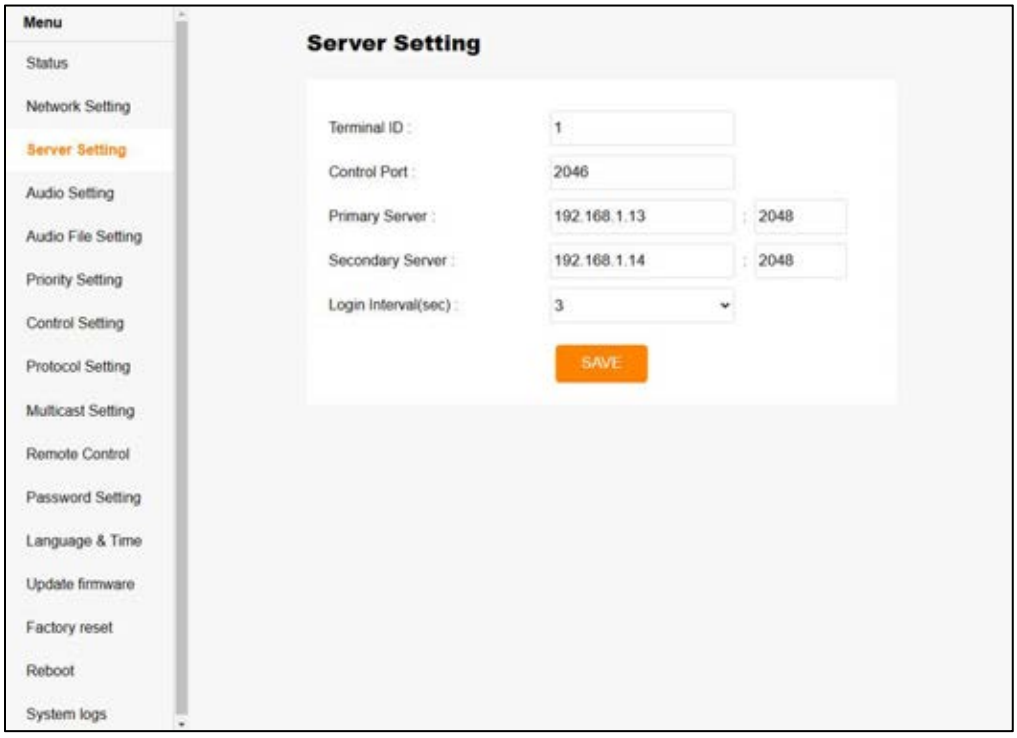


Description:

SIP server IP and port	The SIP server address, please fill in the SIP server IP address or domain name and specify the port number. (the default is 5060).
User ID	The SIP account name or extension.
Password	The SIP account password.
Control port	The default is 5060.
Audio port	Configure the local audio port according to the actual situation, the default is 7080.
Authentication ID	Set the authentication ID to register SIP server.
Registration Period (sec)	Set the registration period, the default is 30.
Ring time limit(sec)	Set the ring time limit, the default is 0.
Call time limit(sec)	Set the call time limit, the default is 30.

4.5 Server Setting (NAS Protocol)

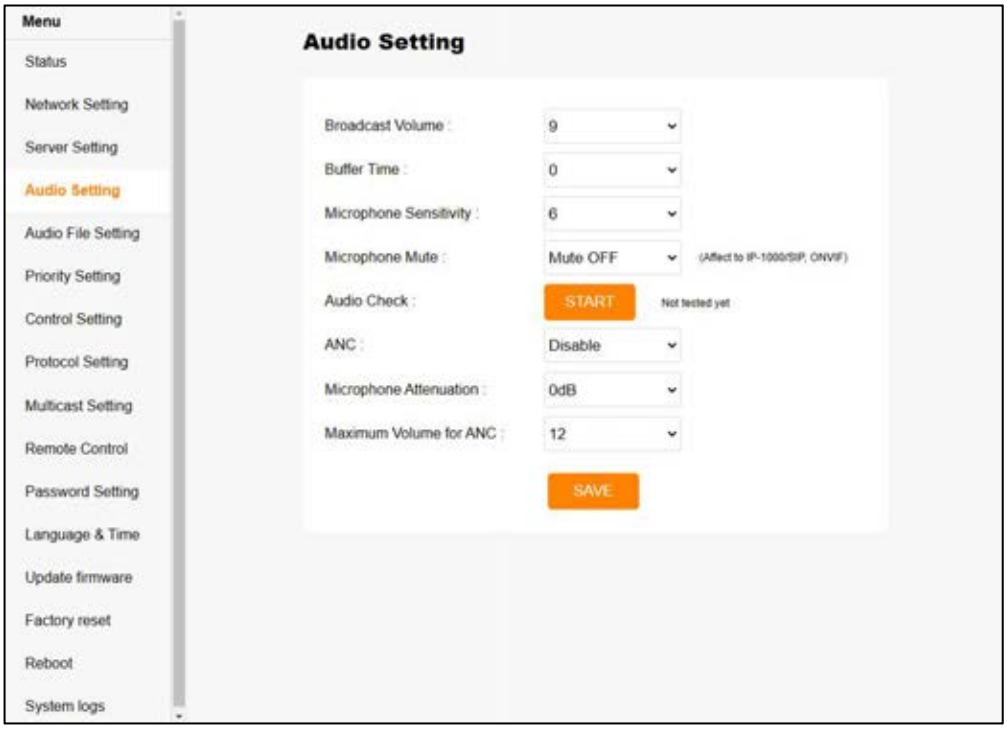
If the server that the Unit registers to is the NAS server, it is necessary to switch the protocol to the NAS in the web page "Protocol Setting". After switching and saving, restart the Unit and clear the browser cache. This refreshes the Web page and it will indicate the NAS protocol requirements shown below. After setting, click [Save], restart the Unit to for the changes to take effect.



Description:

Terminal ID	Unique number to identify the Unit. The factory default is 1.
Control Port	Configure the local port. The default is 2046.
Primary Server	Please fill in the IP address of the primary NAS server. The default is 192.168.1.13:2048.
Secondary server	The IP address and port of the standby NAS server. The default is 192.168.1.14:2048.
Login interval(sec)	The interval between requests to log on to the server when the Unit is offline.

4.6 Audio Setting

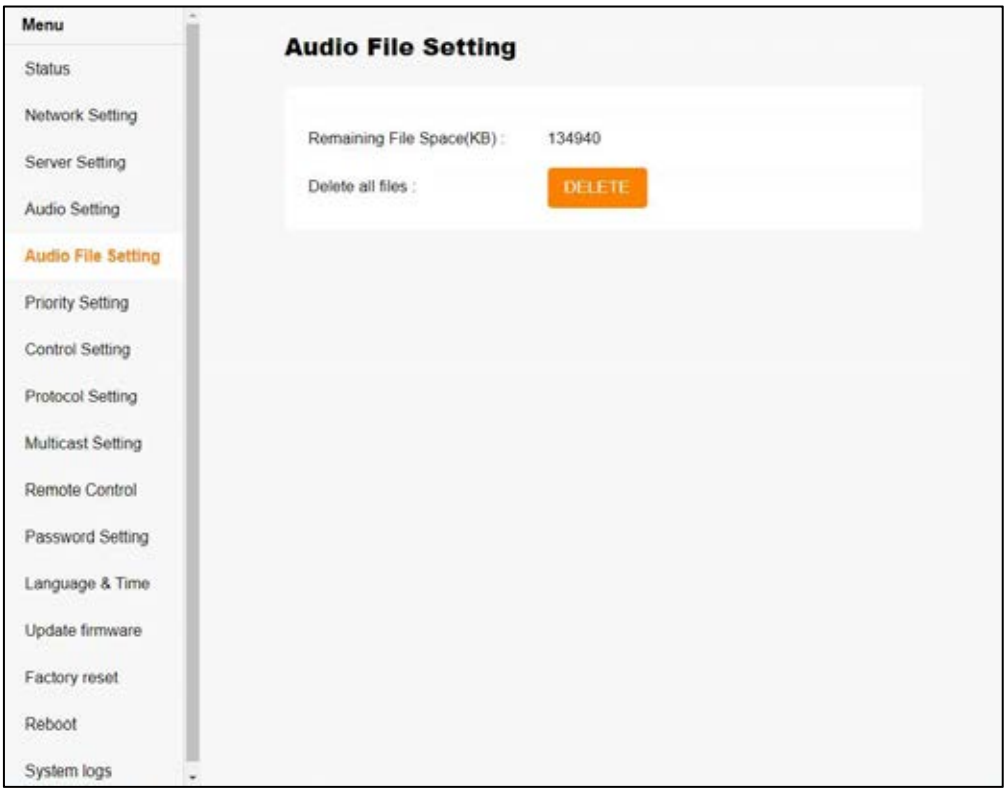


Description:

Broadcast Volume	The broadcast output volume can be modified. **Note: The broadcast output volume is only available when the Unit is offline. When the Unit is online, the broadcast input and output volume is controlled by the server (NAS only).**
Buffer Time	Set the buffer time of broadcast. Increase if there is high network latency.
Microphone Sensitivity	Set the microphone sensitivity. The higher the value, the higher the microphone pickup sensitivity.
Microphone Mute	Set whether to mute the microphone.
Audio Check	The Unit will play back a preset tone to test the speaker and the microphone.
ANC	Enable or disable the Ambient Noise Controller (ANC) feature. The Unit will adjust the output volume according to the ambient noise level.
Microphone Attenuation	Set the microphone attenuation.
Maximum Volume for ANC	Set the maximum volume for ANC.

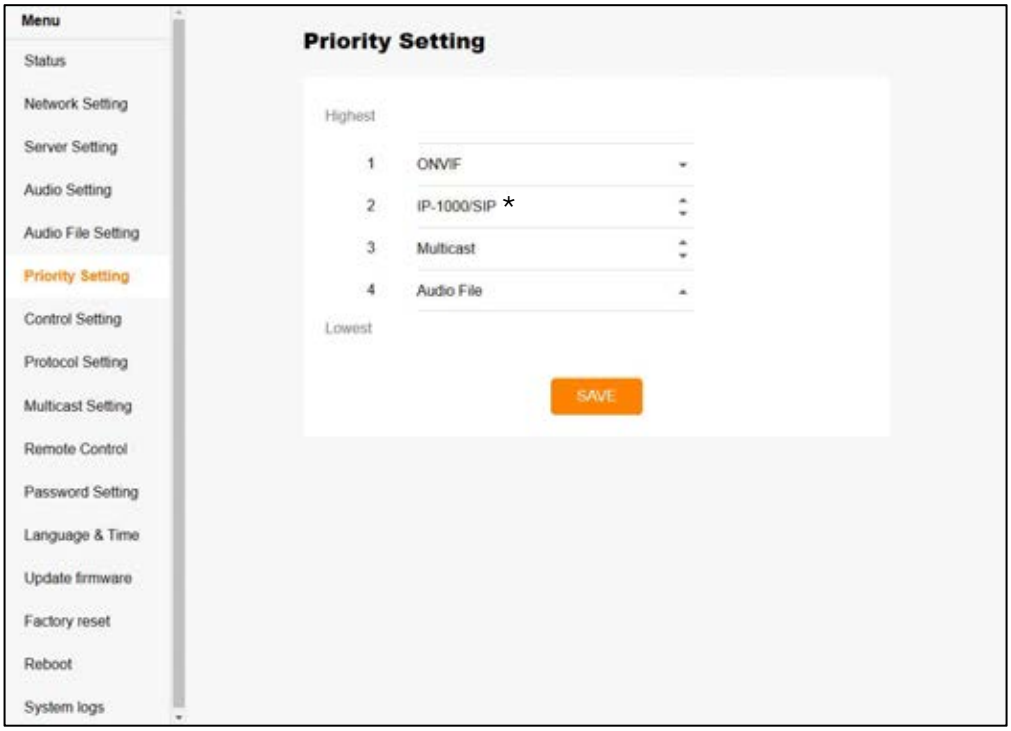
4.7 Audio File Setting

This page indicates the remaining available file space. “DELETE” button will delete all the files stored. Files can be uploaded using the Audio File Upload Tool (see Section 5).



4.8 Priority Setting

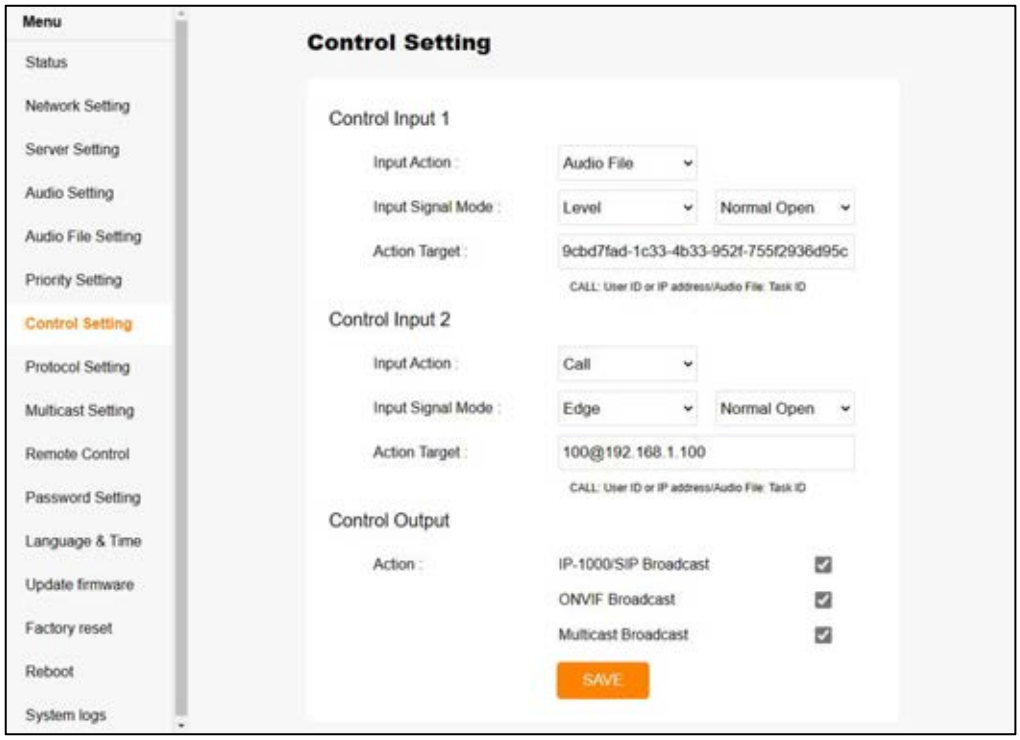
Set the task priority. The default priority is ONVIF > IP-1000/SIP > Multicast > Audio File.



*Note: The IP-1000 is not applicable in North America

4.9 Control Setting

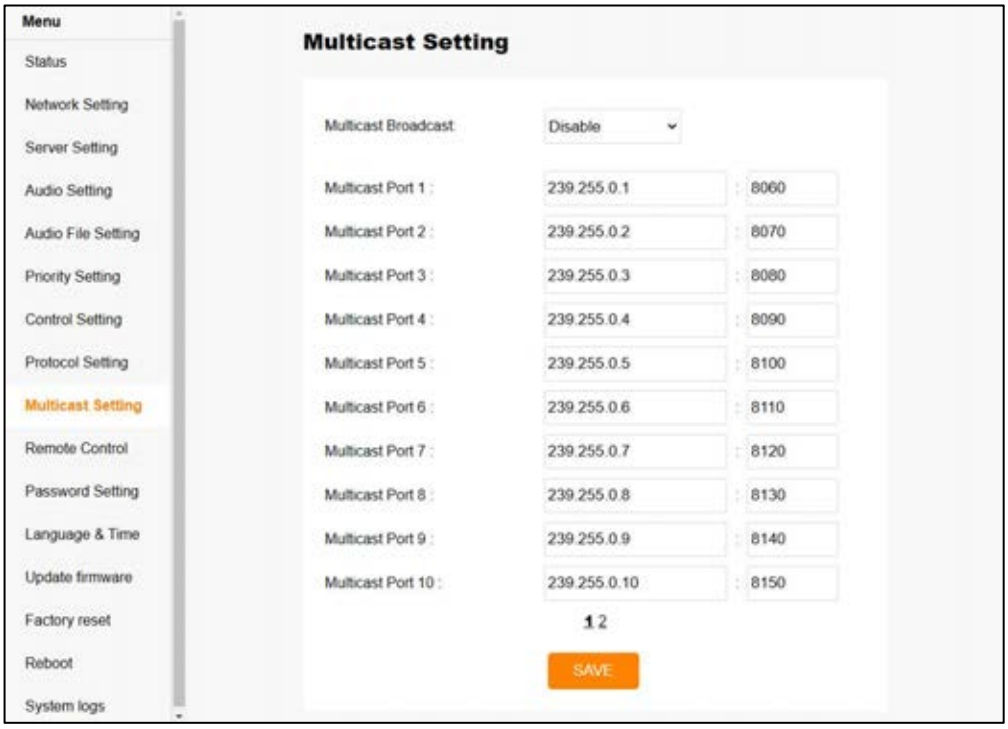
Configuration of the dry contact input and output:



Description:

Input Action	Audio File: Trigger playback of selected file (Task ID). Call: Trigger a call to prescribed call target.
Input Signal Mode	Select the trigger signal mode and trigger mode.
Action Target	Audio File: Indicate Task ID configured using the Audio File Upload Tool. Call: Indicate SIP call target (SIP ID or IP address).
Control Output	Control Output is triggered if the respective check box is selected, ONVIF Broadcast; Multicast broadcast.

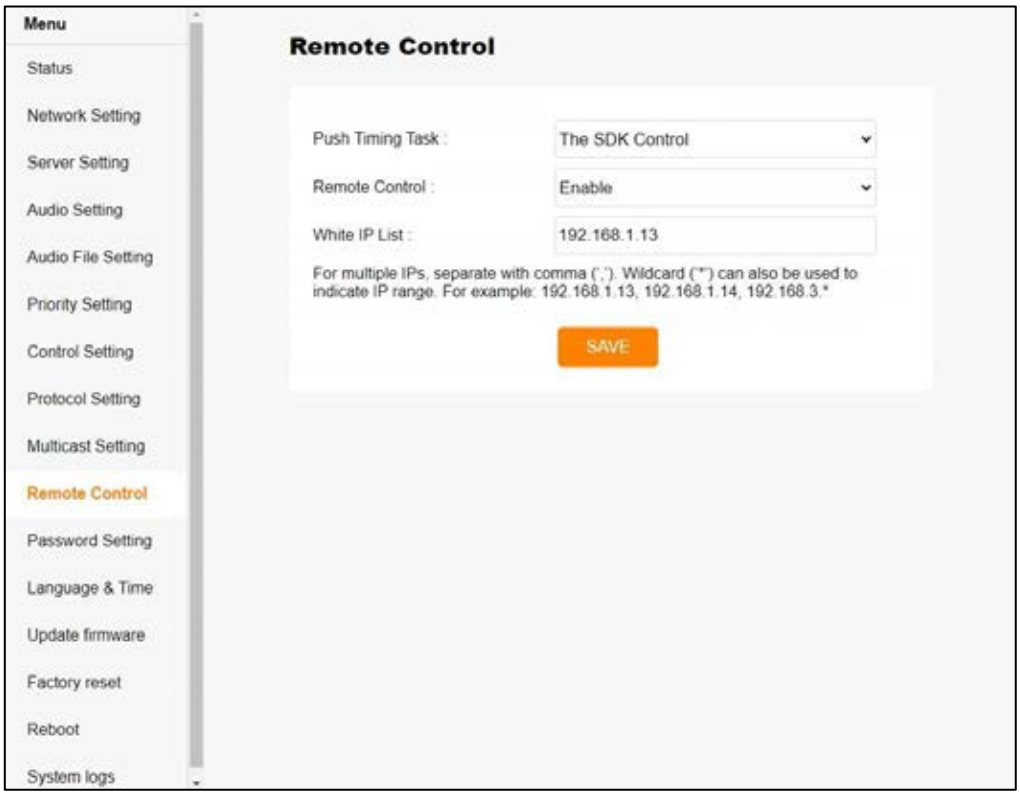
4.10 Multicast Setting



Description:

Multicast Broadcast	Set whether to enable multicast broadcast function.
Multicast Address	Set the multicast IP address and port. In the list of Multicast port, the smaller port has the higher priority. For example, if there are Muticast port 3 and port 9 are received at the same time, the unit playback with port 3.

4.11 Remote Control

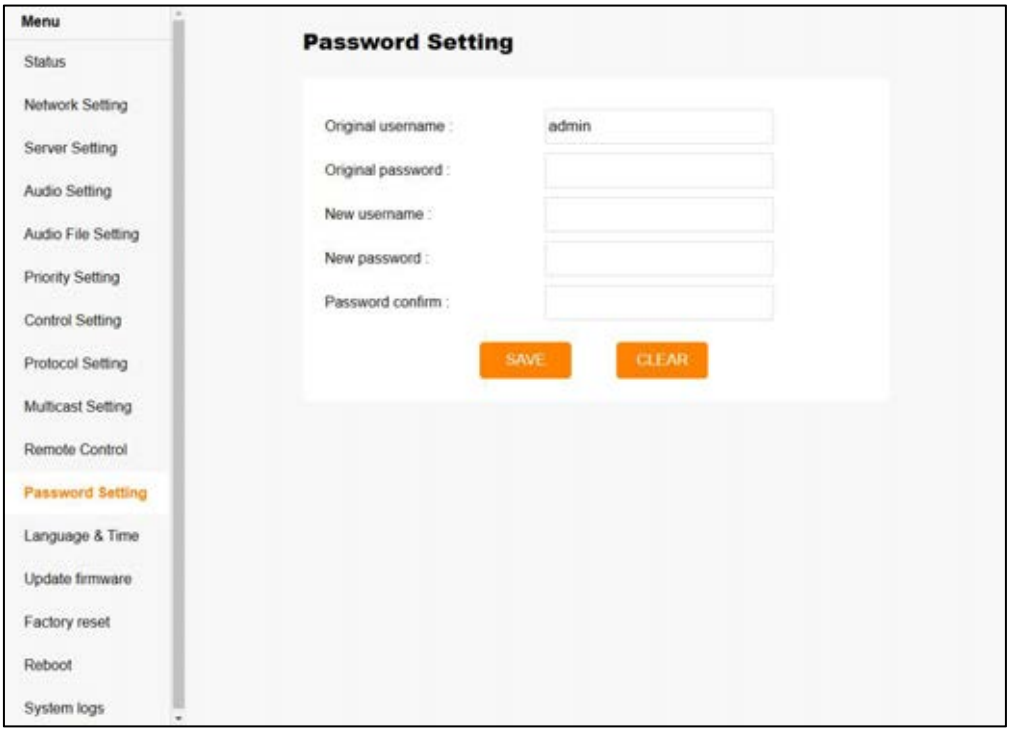


Description:

Push Timing Task	The SDK Control: Push by the audio file upload tool. It pushes the task ID on the audio file upload tool to the Unit through http, and it can be used in serverless situations.
Remote Control	Set whether to enable the function of "The SDK Control" to push timed tasks.
White IP List	Set the host IP whitelist for pushing timed tasks using the Audio File Upload tool. Only whitelisted host IP can use the Audio File Upload tool to push timed tasks to the Unit. You can also use ',' (comma) and '*' (wildcard) for multiple IPs.

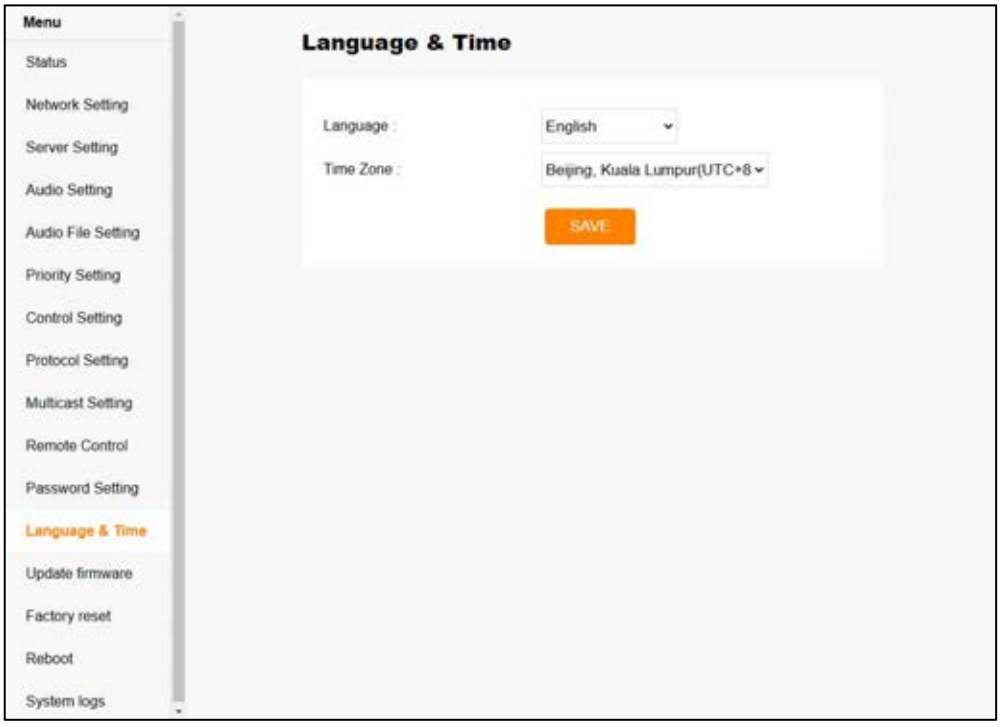
4.12 Password Setting

On the password Settings page, you can change the username and password for logging in the web page.



4.13 Language & Time

Language: Set the language. Supports English and Chinese.
Time Zone: Select the time zone.



4.14 Update firmware

On the Update firmware page, click "UPDATE," and then enter “http://” and then the IP address of the Unit in the address bar of the browser.

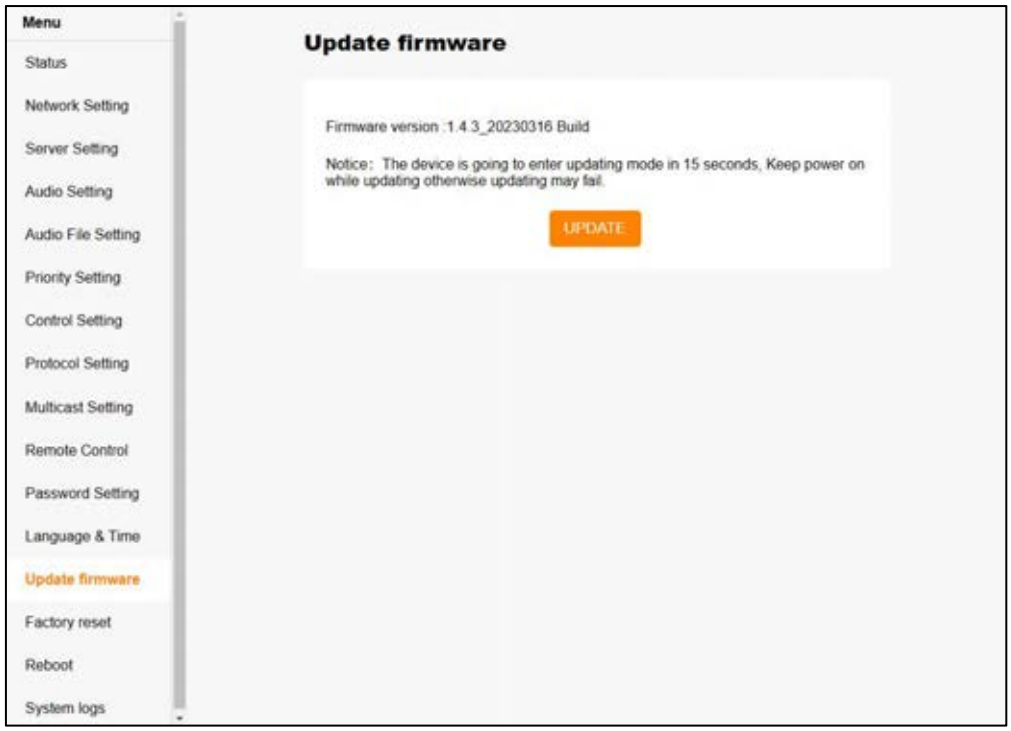
(Note: Do not update the firmware unless needed.)

New firmware update web interface will load, click “Select File”, navigate to the file location of your update file, and click the "UPDATE".

Note:

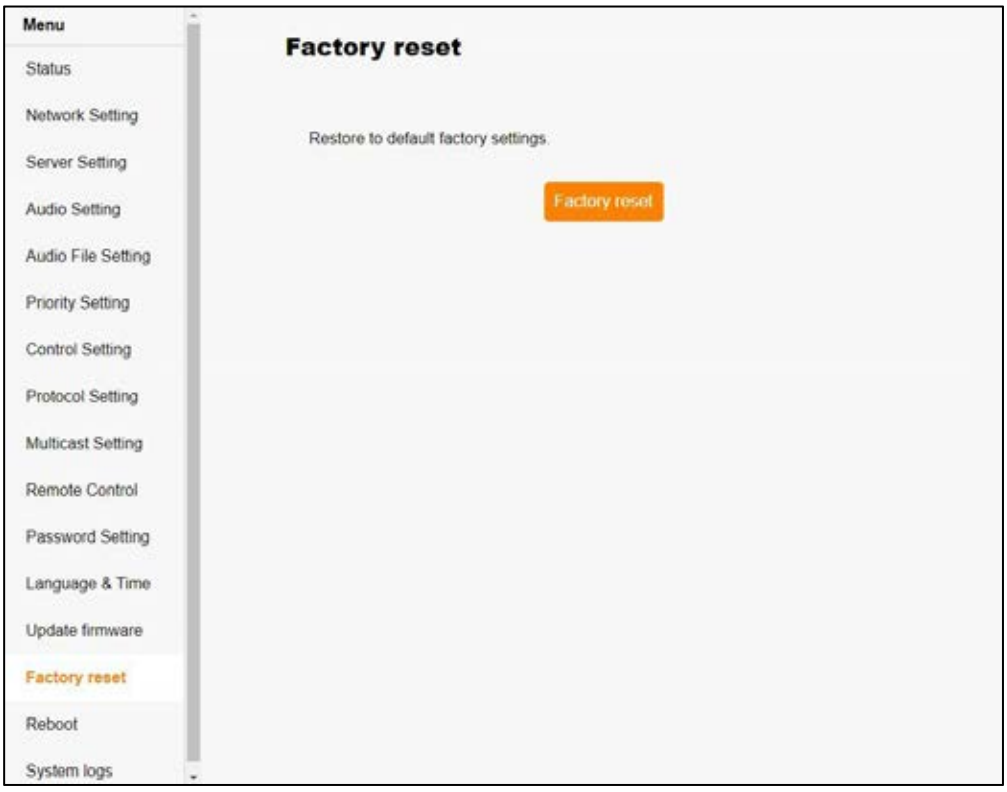
1. If the new firmware update Web interface does not automatically load, please clear the browser cache and re-enter “http://” and IP address.

2. Do not power off during the update process. This leads to the failure of the update and render the Unit unusable.



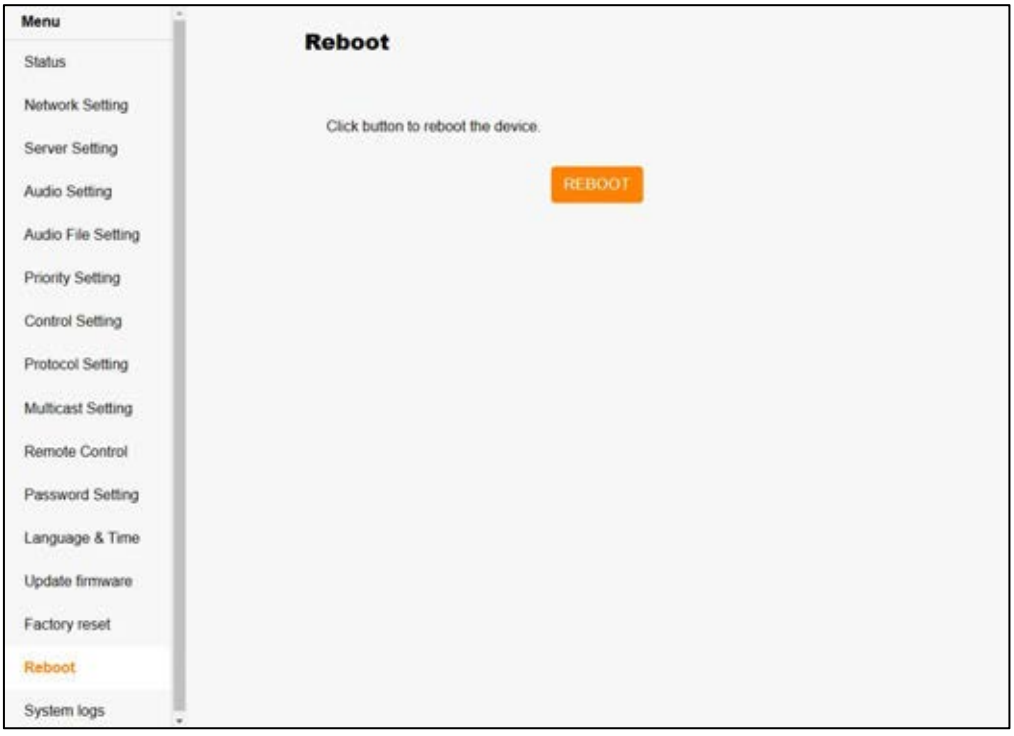
4.15 Factory Reset

Click the "Factory reset" button to restore the Unit to factory Settings. (please use with caution)



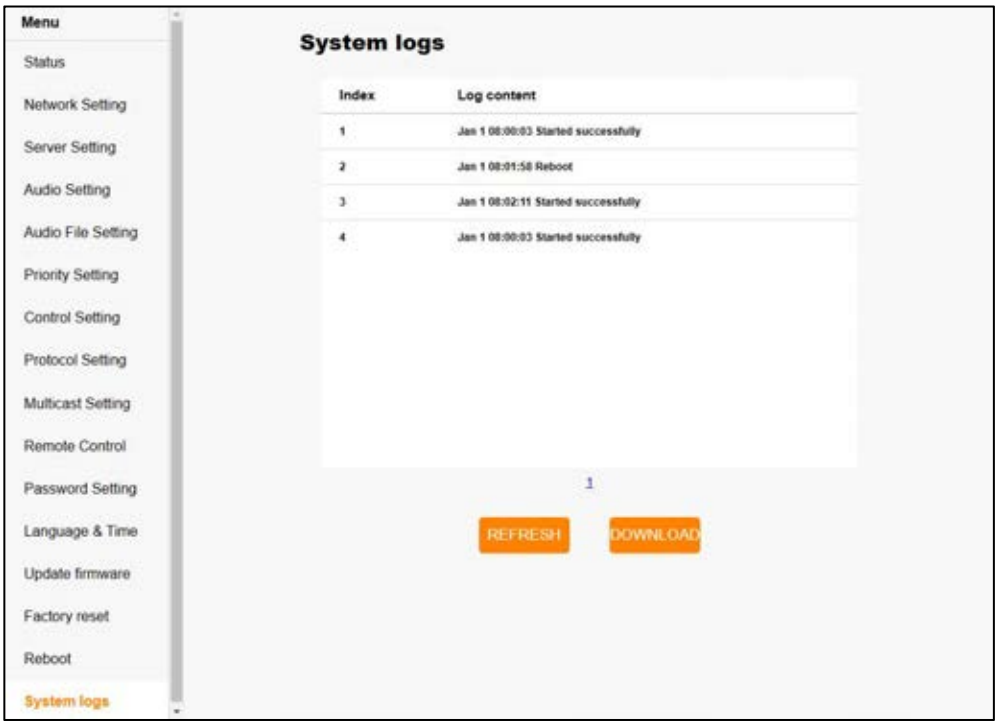
4.16 Reboot

Click on “Reboot” button to restart the Unit. Reboot is also required to refresh changes made to certain Unit settings.



4.17 System Logs

You can view the system log here.



5. AUDIO FILE UPLOAD TOOL OPERATING INSTRUCTIONS

5.1 Software Installation

Double-click the audio file Upload Tool installer, press "Next" to install, and select "Run as Administrator" after installation to run the tool.

5.2 Settings

Click the "Settings" button in the upper right corner of the software main interface to enter the setting interface

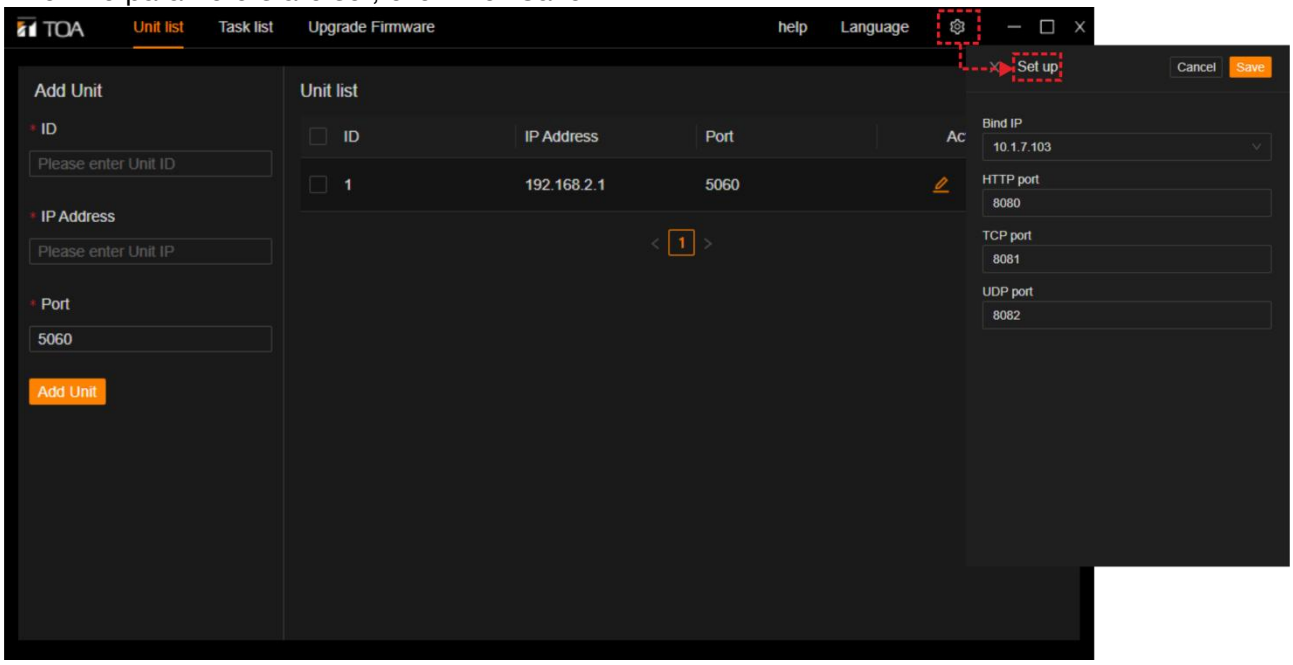
Binding IP: Fill in the IP address of the computer where the audio file upload tool is installed (When there are multiple network cards, bind one of them for audio file uploading tool)

HTTP Port: Default is 8080, no need to change unless specified.

TCP Port: Default is 8081, no need to change unless specified.

UDP Port: Default is 8082, no need to change unless specified.

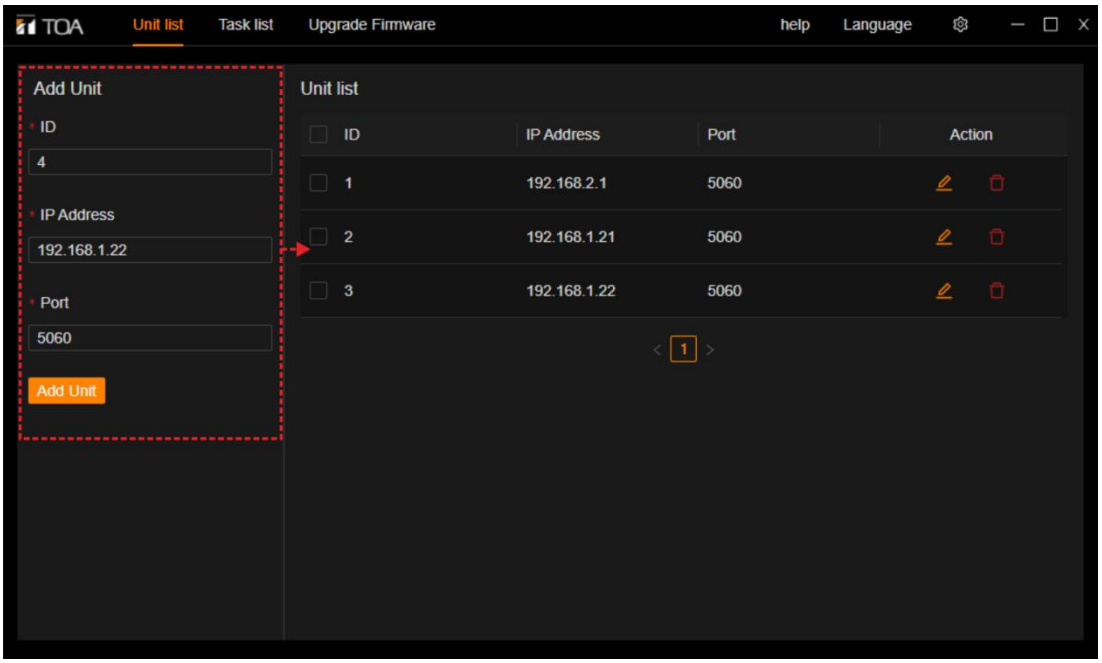
After the parameters are set, click the "Save".



5.3 Unit List

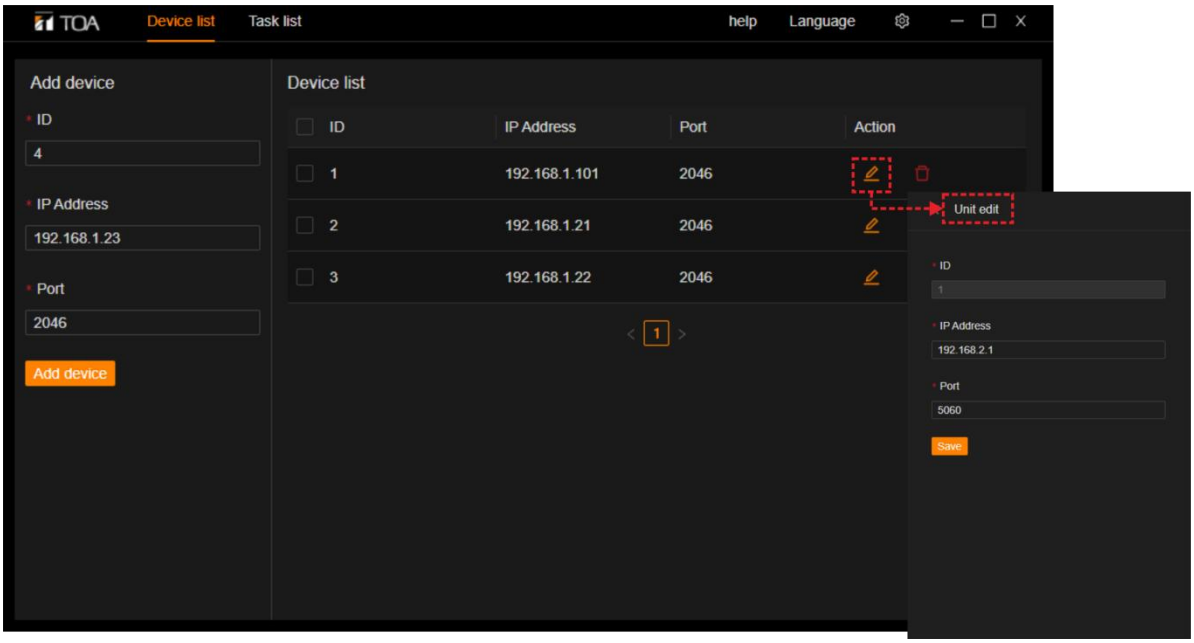
(1) Add Units

In the Add Unit module, fill in the ID, IP, port and other information of the target Unit and click "Add Unit" Add Unit . If successful, the added Unit will be displayed in the list of Units.



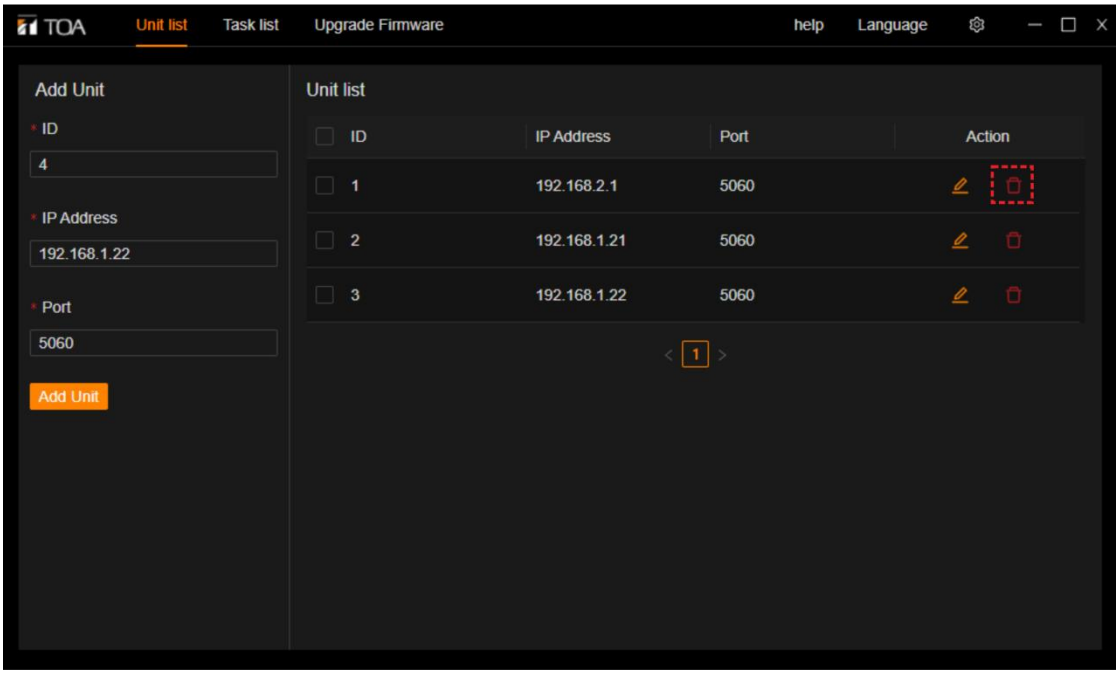
(2) Modify Units

In the Unit List, click the "Edit" button next to the Unit to modify the IP port and other information of the Unit. Click the "Save" button to save the changes after the modification is completed.



(3) Delete Unit

In the Unit List, click the "Delete" Unit icon next to the Unit to remove the from the Unit List.



5.4 Task List

(1) Add tasks

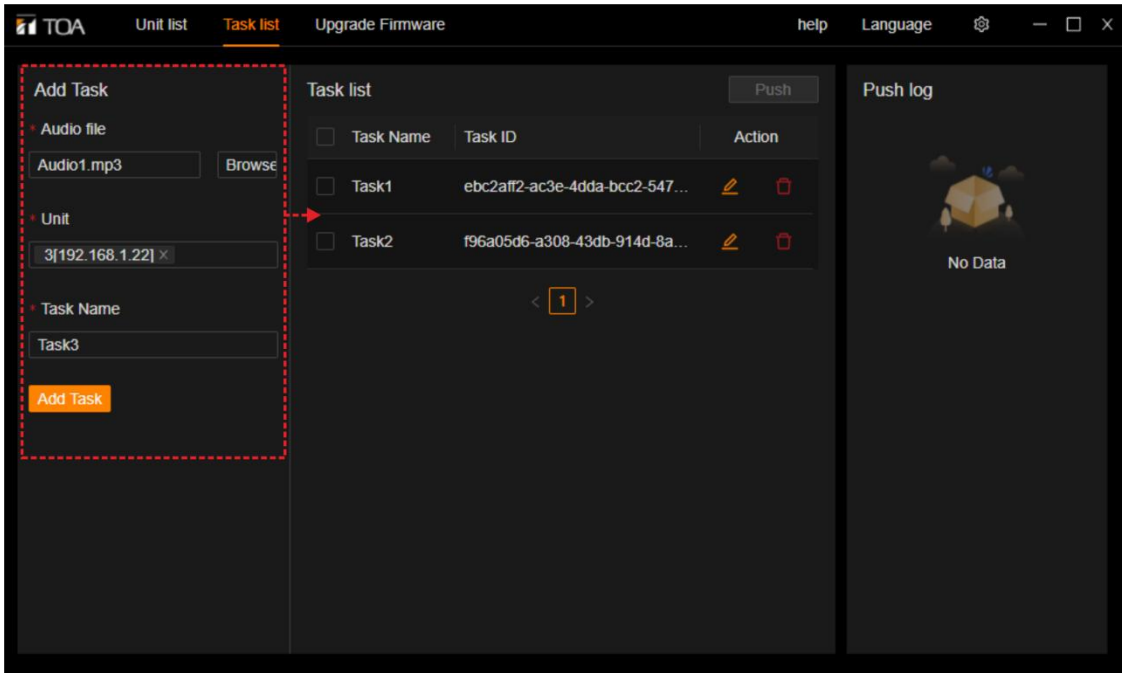
In the Add Task module, you can add tasks.

Audio file: Select the local audio file as the audio played by the task.

Unit: Select the Unit to perform the task.

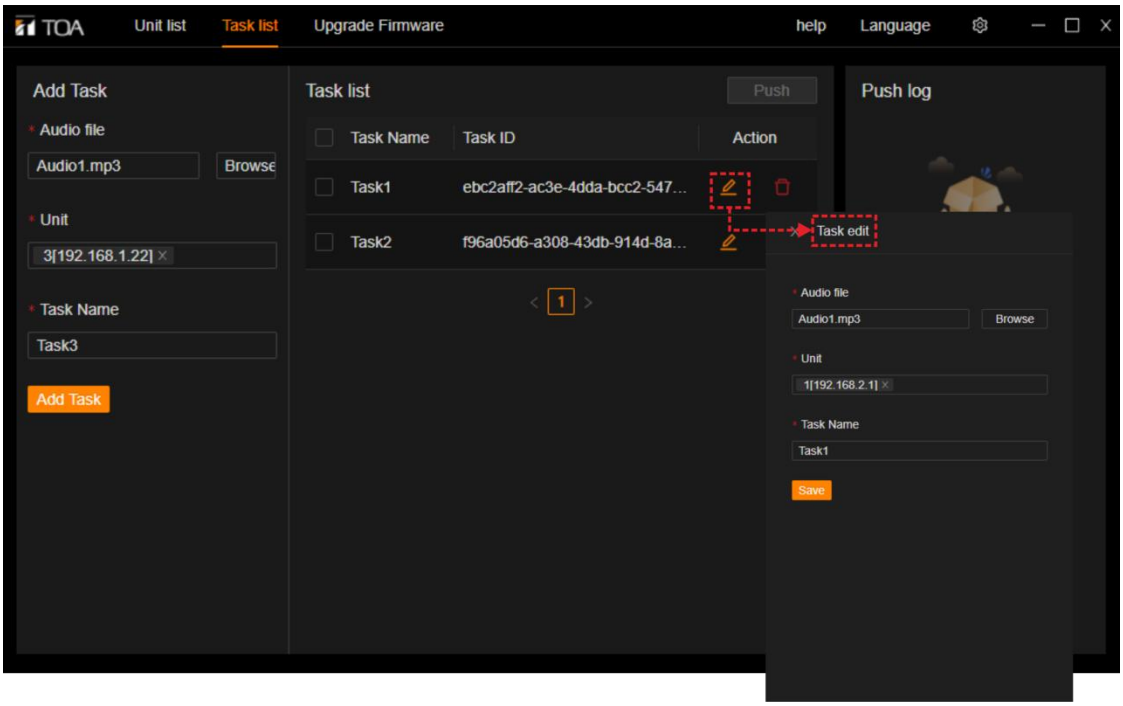
Task name: Edit task name.

Once the task is set, click the "Add Task" button to save the settings. The Added task will be displayed in the task list.



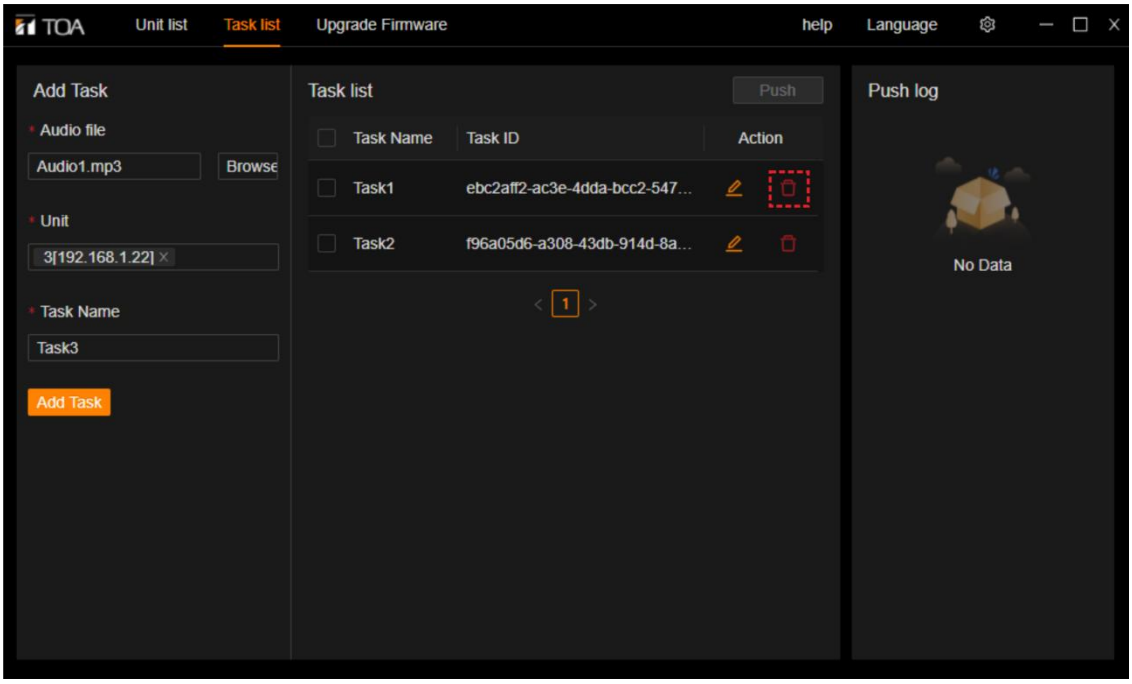
(2) Modify tasks

In the Task List, Click the "Edit" button next to the task in the task list to modify the audio file, the target execution Unit, and the task name. Click the "Save" button to save the changes.



(3) Delete tasks

In the Task List, click the "Delete" icon next to the task to delete the task.

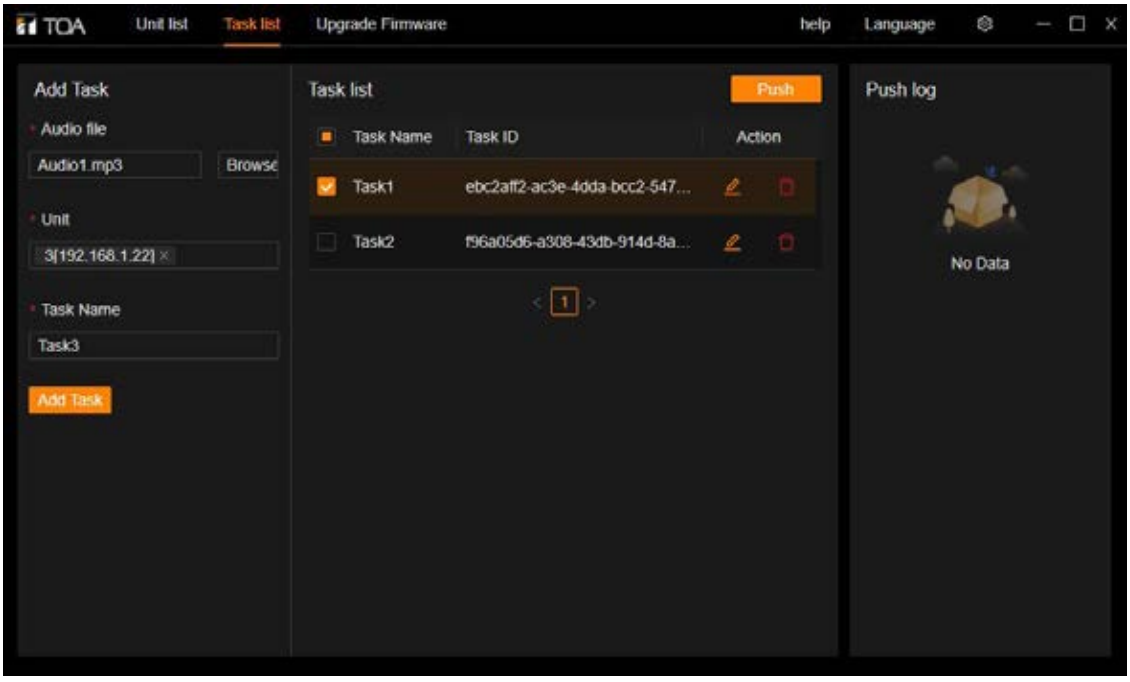


(4) Push tasks

Check the task to be pushed in the task list and click the "Push" button to push the task to the selected target Unit. After pushing task to Unit, tasks can be initiated remotely via an HTTPS URI as follows:

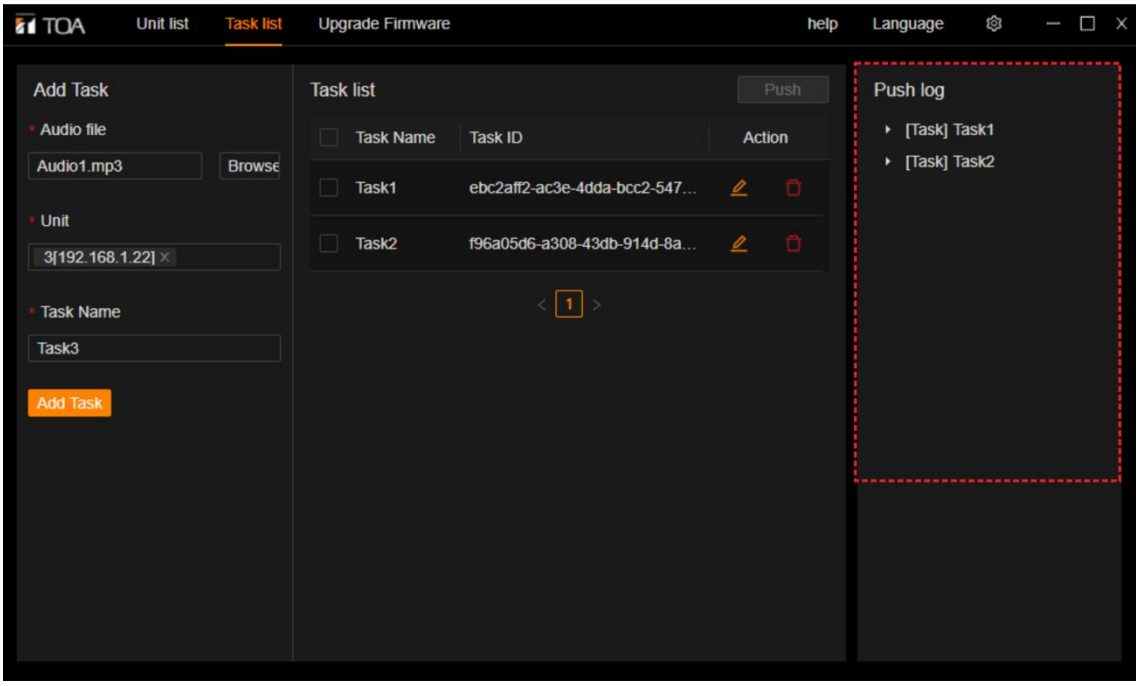
a. Play audio files uploaded from the tool. Insert task ID, Unit IP address and playback command	https://< IP address >/cgi-bin/command.cgi? Action=playback & number= < task ID >
b. Modify the output volume of the Unit (Enter the Unit IP address and volume value (0-15))	https://< IP address >/cgi-bin/command.cgi? Action=volume & number= < volume value >
c. Stop playback (Enter the Unit IP and the play-stop command)	https://< IP address >/cgi-bin/command.cgi? Action=playstop
d. Reboot the Unit (Enter the Unit IP and the reboot command)	https://< IP address >/cgi-bin/command.cgi? Action=reboot

(Note: The Unit must turn on the "Remote Control" function at the "Remote Control" of the WEB interface and select "SDK Control" as the way to push timed tasks. The HTTPS URI Source must also be whitelisted)



(5) Push logs

In the Push log module, you can view the push task record.

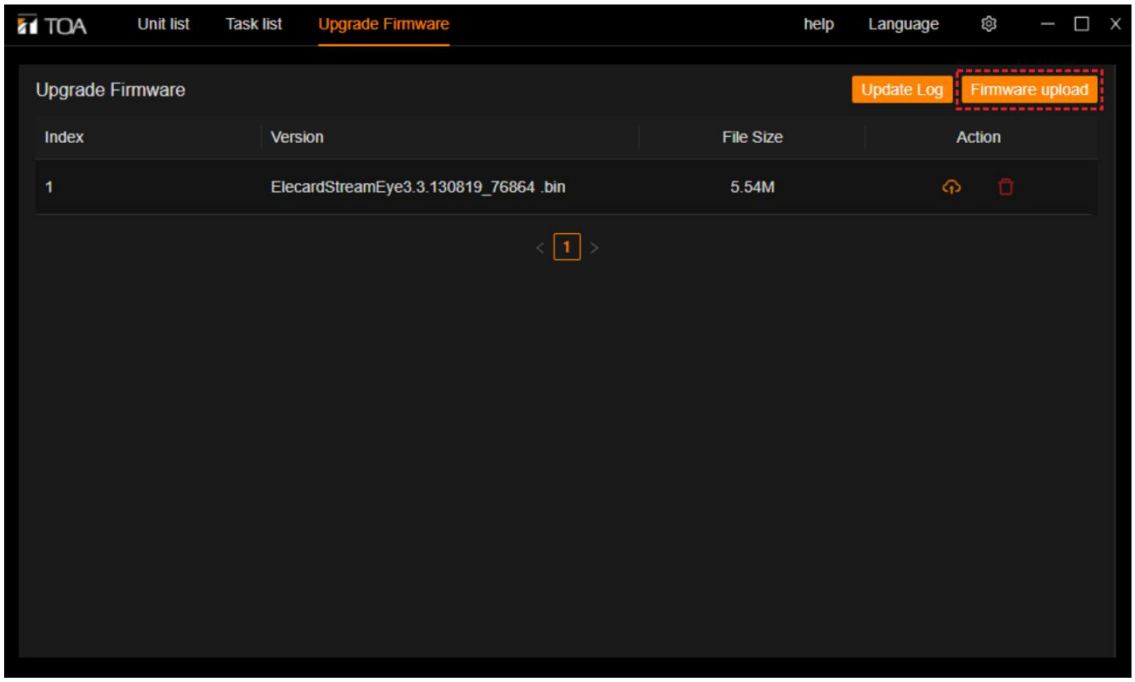


5.5 Update Firmware

You can update the firmware version of devices and view update logs here.

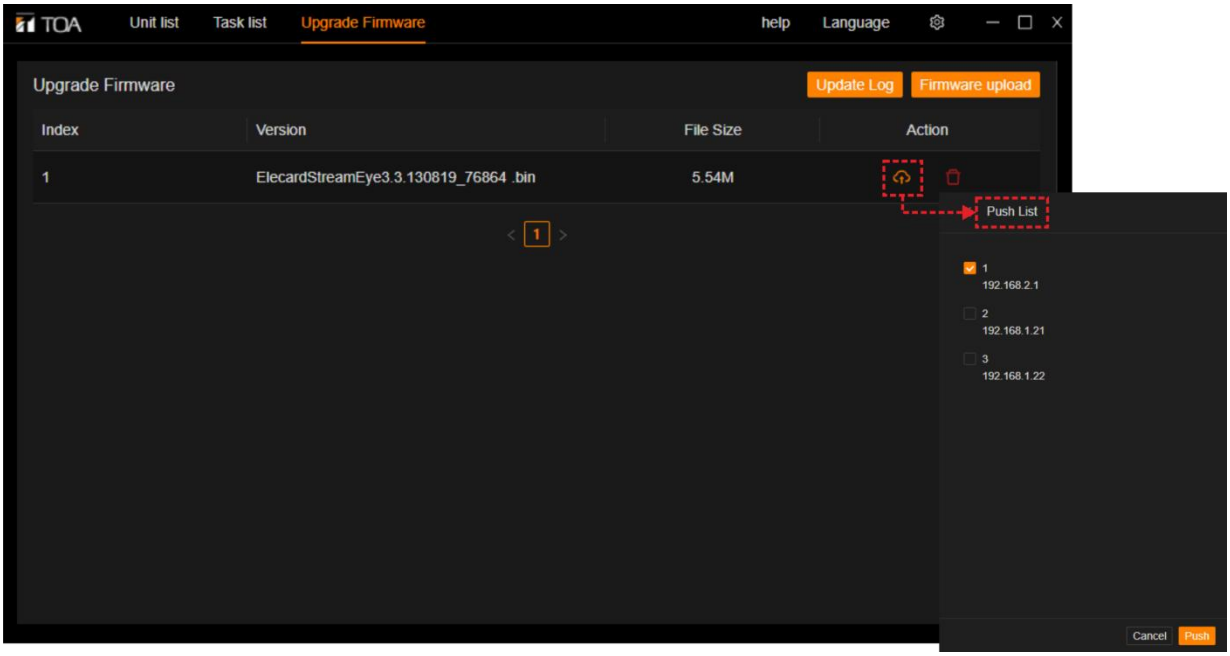
(1) Upload firmware

Click on the “firmware upload” Firmware upload button to upload the firmware provided by manufacturer.



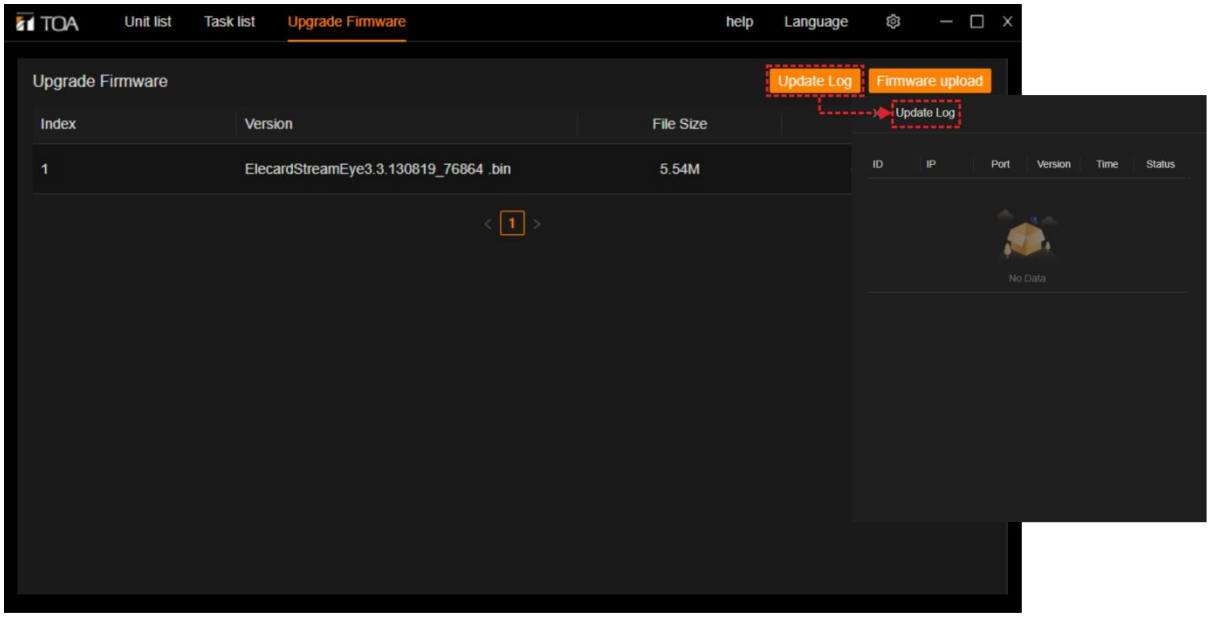
(2) Select Unit

Click  to select the unit to update firmware.



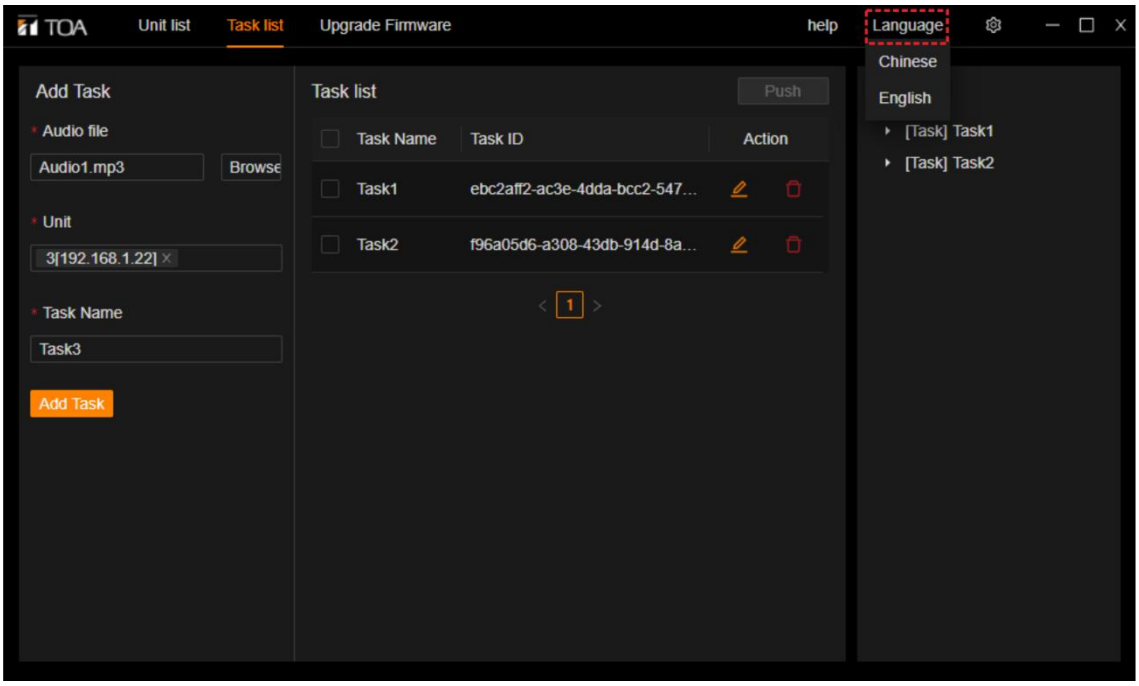
(3) View Update Logs

Click on the “Update Log” button to view device firmware update logs.



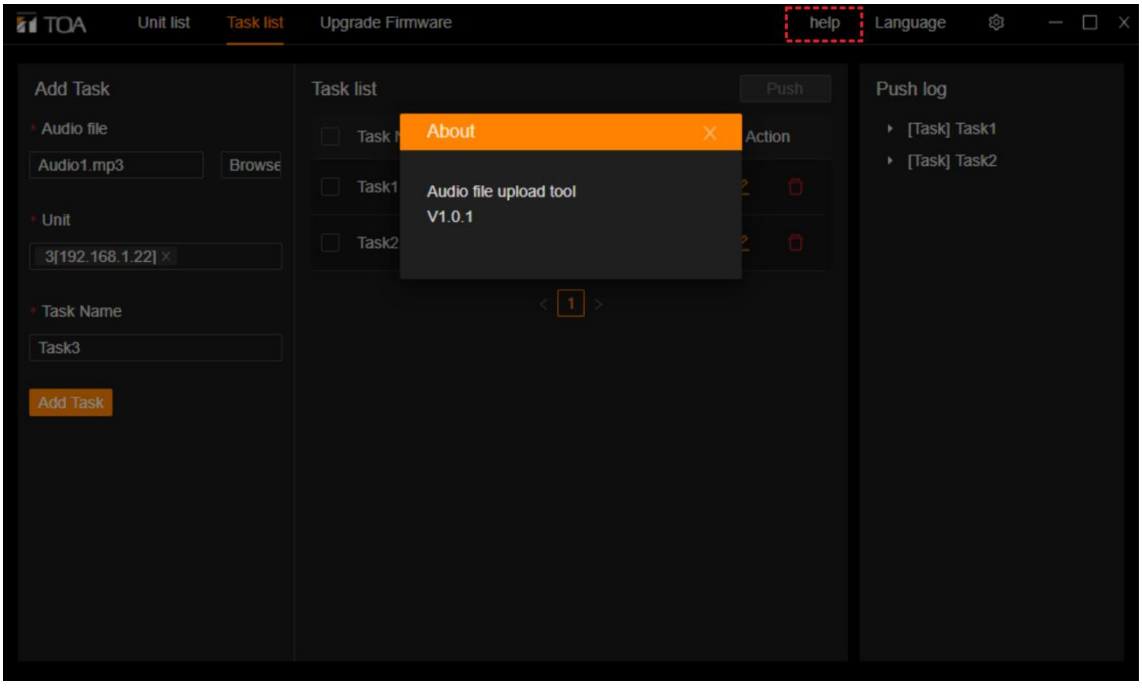
5.6 Language

In the main interface of the software, click "Language" in the upper right corner to switch the display language of the software, which supports Chinese and English.



5.7 Help

In the main interface of the software, click "Help" in the upper right corner to view the current version of the software.



6. APPENDIX
6.1 Specifications

IP-SC15MC IP Horn Speaker

Power supply	DC24V / 2.7A, Removable terminal block (2 pins) or PoE/PoE+ (IEEE 802.3af/at)
Power consumption	Upto 15W(±10%)
Amplifier Rated Output	Upto 15W(±10%)
Speaker sensitivity	113dB (1W, 1m at 500 Hz to 2.5 kHz peak level)
Frequency response	250 ～10 kHz
Microphone	Omni-directional electret condenser microphone
Microphone functions	ANC (Ambient Noise Controller), Audio check, Audio Surveillance with VMS software, SIP bi-directional communication
Audio sampling frequency	32kHz
Broadcasting mode	-SIP Broadcasting mode: MP3, LPCM, G711A, G711U, G722, G729 -Multicast Broadcasting Mode: G711A, G711U, G722, IMA-ADPCM -VMS Broadcasting Mode: Audio Backchannel, PCMU -Internal Message Broadcasting Mode Note: Each broadcast mode can be assigned an order of priority using the Priority Setting function.
Internal messages	Maximum 128MB. Supported file formats: MP3 file, 32kHz sampling frequency, 128 kbps Trigger: Control Input or Remote API (HTTPS)
Network I/F	100BASE-TX, MDI/MDI-X, RJ45
Network protocol	TCP/IP, UDP, HTTP, RTP, ARP, ICMP, IGMP, SIP
Control input/output	-2 channels inputs, no-voltage make dry contact inputs (IN1/IN2/GND), open voltage: 5V DC, short-circuit current: 2mA or less -1 channel output, Relay Output (COM /NO (normal open) /NC (normal close)), withstand voltage:30V DC, control current: Max. 50mA -Removable terminal block (6 pins: IN1/IN2/GND/NC/COM/NO)
LED	Power (orange), Network Status (green)
Dust/Water protection	IP66
Operating temperature	-45°C~ +55°C
Operating humidity	90%RH or less (no condensation)
Finish	Horn flare: Aluminum, Off-white, powder coating Reflector horn and rear cover: ABS resin, off-white Cable Grant: Nickel plated copper Brackets, screws, and bolts: Stainless steel
Dimensions	285 (W) x 227 (H) x 277 (D) mm (11.22" x 8.93" x 10.90")
Weight	1.95kg
Accessories	6P Terminal-block (1 pcs), 2P Terminal-block (1 pcs) ST4 × 16 Installation screw (4 pcs)

Traceability Information for Canada

Authorized representative:

TOA Canada Corporation

3670 Odyssey Drive, Unit #1, Mississauga, ON L5M 0Y9, Canada

TOA Corporation Canada: https://www.toacanada.com

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