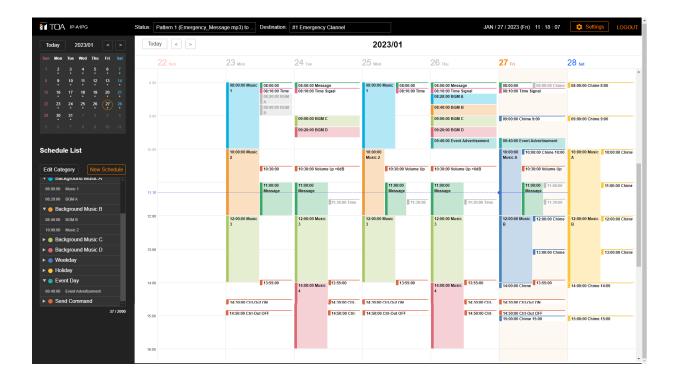


TRANSMITTING DEVICE SETUP MANUAL

IP AUDIO SERIES



This manual provides the following explanations:

- Setup and operation of the IP-A1 Device using a web browser.
- Setting up the Device's detection and network settings using the IP Setting Tool.

For instructions on installation, please refer to the Instruction Manual supplied with the product.

- Device covered by this manual:
 IP-A1PG
 IP Paging Gateway
- The explanations in this manual only apply to firmware versions 2.2.0 or later.

Thank you for purchasing TOA's IP Audio Series.

Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

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1. INTRODUCTION

1.1. About This Manual

This manual is the setup manual for the IP-A1PG IP Paging Gateway. The explanation in this manual only apply to firmware versions 2.2.0 or later.

1.2. System Requirements

Recommended PC operational environments are as follows:

Display	Recommended resolution: 1920 x 1080
OS	Windows 10 Pro (64bit)
	Windows 10 Home (64bit)
	Windows 11 Pro
	Windows 11 Home
Browser	Microsoft Edge
	Google Chrome

Notes

- Microsoft Edge is the registered trademark of Microsoft Corporation in the United States and other countries.
- Google Chrome is the trademark of Google LLC in the United States and other countries.

1.3. Security Measures

- · Ensure that sufficient security measures are taken on the customer's own responsibility.
- TOA Corporation takes no responsibility for damage or loss caused by security-related problems, such as illegal access.
- To help prevent illegal access to the device, be sure to change the user ID and password from those used for initial setup. For setting methods and other details, please refer to the User Settings Screen on p. 49.
- Take utmost care in the management of the device's communications password.

2. ABOUT THE BROADCAST SYSTEM AND ITS SETUP

Broadcast systems can be assembled based on various combinations of "Broadcast System Models". This manual provides explanations of the setup method used for each broadcast model.

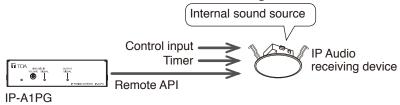
2.1. Broadcast System Models

Broadcast system models are classified by (1) the sound source to be broadcast and (2) the form of the broadcast made to each destination. Performing settings can be greatly facilitated by first knowing which model is being used.

2.1.1. Scheduled Broadcasts of Sound Source Files

Example 1-1. Broadcasting from the Internal Sound Source of individual receiving devices

When broadcasting to several individual IP Audio receiving devices, often under varying broadcast conditions, broadcasting from each device's internal sound source can be accomplished by creating patterns using the sound source files pre-loaded into every IP speaker.



Example 1-2. Group Broadcasting from an Internal Sound Source

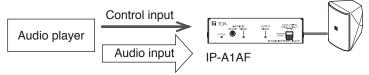
When broadcasting simultaneously to multiple IP audio receiving devices using the same sound source file, create a pattern using the sound source file(s) loaded in the IP Paging Gateway and transmit them by multicast broadcasting. This function is also useful for collectively managing scheduled broadcasts using the Scheduler.



2.1.2. Broadcasting from Analog Sound Sources, Such as audio players

Example 2-1. Local Broadcasting from the IP Audio Interface

When performing BGM broadcasting using the IP Audio Interface, set up local broadcasting from the audio player that is directly connected to the IP Audio Interface.



Example 2-2. Group Broadcasting from Analog Sound Sources

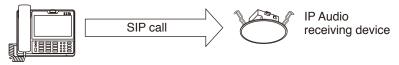
When simultaneously broadcasting from an analog sound source to multiple IP audio receiving devices, enable multicast broadcasting from the audio player connected to the IP Paging Gateway.



2.1.3. Real Time PA (Public Address) Broadcasting from a microphone

Example 3-1. Individual SIP Broadcasting to IP Audio receiving devices

When transmitting individual real time PA broadcasts from a device such as a SIP phone to each of the system's IP Audio receiving devices, enable SIP broadcasting by establishing a direct SIP connection to each intended IP Audio receiving device.



Example 3-2. PA (Public Address) Broadcasting from a SIP phone

When simultaneously transmitting PA broadcasts from such devices as a SIP phone to multiple IP Audio receiving devices, perform multicast broadcasting using the IP Paging Gateway. When broadcasting from the SIP phone, the intended multicast channels can be changed by designating the DTMF number to allow the broadcast destination groups to be switched.



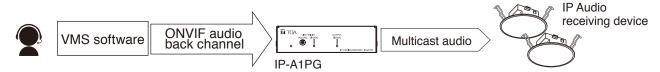
Example 3-3. Individual VMS Broadcasting to IP Audio receiving devices

When transmitting individual real time PA broadcasts from the VMS (Video Management System) software or a network recorder to each of the system's IP Audio receiving devices, enable VMS broadcasting by making a direct ONVIF connection to each IP Audio receiving device.



Example 3-4. PA (Public Address) Broadcasting from VMS software

When simultaneously transmitting PA broadcasts from the VMS software or a network recorder to multiple IP Audio receiving devices, enable multicast broadcasting using the IP Paging Gateway. When broadcasting from the VMS software, the intended multicast channels can be changed by designating the audio channel number to allow the broadcast destination groups to be switched.



Example 3-5. PA (Public Address) Broadcasting from a microphone

When simultaneously broadcasting to multiple IP Audio receiving devices, enable PA broadcasting from a microphone connected to the IP Paging Gateway.



Note: ONVIF is the trademark of ONVIF Inc.

The broadcast system models can be summarized as follows:

		Forms of Broadcasts to Selected Broadcast Destinations	
Broadcast Type	Sound Source	Individual Broadcasting	Group Broadcasting
Scheduled broadcast	Sound source file	Example 1.1. Broadcasting from the Internal Sound Source of individual receiving devices	Example 1-2. Group Broadcasting from an Internal Sound Source
BGM broadcast	Analog audio	Example 2-1. Local Broadcasting from the IP Audio Interface	Example 2-2. Group Broadcasting from Analog Sound Sources
	SIP phone	Example 3-1. Individual SIP Broadcasting to IP Audio receiving devices	Example 3-2. PA (Public Address) Broadcasting from a SIP phone
Real time PA (public address) broadcast	VMS software	Example 3-3. Individual VMS Broadcasting to IP Audio receiving devices	Example 3-4. PA (Public Address) Broadcasting from VMS software
	Microphone	Example 2-1. Local Broadcasting from the IP Audio Interface	Example 3-5. PA (Public Address) Broadcasting from a microphone



In the models shown here, the receiving devices are used individually. Please refer to the following manual for the setting method:

< Receiving Device Setup Manual > How to use the Broadcast Function



These models provide illustrations of the combined use of both transmitting and receiving devices. Please refer to the following manuals for the setting method:

<Transmitting Device Setup Manual> Settings Flow by Model

<Receiving Device Setup Manual> How to use the Broadcast Functions (Performing Multicast Broadcasting)

3. SETTINGS FLOW BY MODEL

3.1. Example 1-2. Group Broadcasting from an Internal Sound Source

To execute the Internal Sound Source Group Broadcasting, which transmits the sound of the sound source file registered with the transmitting device in the form of multicast audio, please perform the following settings:

Step 1. Upload sound source files to the device.

See p. 34.

↓

· Upload the desired sound source files to the Media List on the Media Settings screen.

Step 2. Create a broadcast pattern.

See p. 37.

• On the Pattern Registration screen, select a sound source file and set the repetition method, playback interval, volume, etc. individually for each pattern.

Step 3. Check the audio of the broadcast pattern.

See p. 40.

• The contents of the audio broadcast can be checked using the PLAY and STOP buttons on the Pattern registration screen. Audio can then be heard from the monitor output.

Step 4. Set the multicast transmission channel(s) that will be the broadcast destination. See p. 27

• On the Destination Settings screen, set the Multicast Address and Port number (even number) of all the multicast channels the audio will be broadcast to. Setting the name of the broadcast area to "Group Name" will make it easier to understand the setting contents.

Reboot

· Reboot to reflect the setting changes made so far.

See p. 18.

Step 5. Set the event trigger that will cause the broadcast pattern to play.

See p. 41.

• For broadcasts to be synchronized with sensors, switches or the like, on the Event Settings screen select the created broadcast pattern as an action to be triggered by the control input. For the broadcast destination, select the multicast transmission channel in the Destination field.

Tip

This setting procedure can be skipped when performing a broadcast that will be synchronized with the date and time set using Scheduler.

Step 6. Set the broadcast priority.

See p. 44.

• Select or change the priority of the pattern created on the Priority Settings screen.

Reboot

Reboot to reflect the setting changes made so far.

See p. 18.

Step 7. Create the broadcast schedule.

See p. 62.

 To perform date and time-synchronized broadcasting, create the schedule that will execute the broadcast on the Scheduler screen.

Step 8. Check the audio to be transmitted.

- Execute the previously set Event Trigger or Scheduler, and confirm the audio coming from the transmitting device's monitor output.
- Additionally, confirm that the audio is being provided by the receiving devices assigned to the multicast reception channel.
- To balance the sound output with that of other sound sources, adjust the Input Volume on the Pattern Registration screen. (See P. 37.)

Tip

3.2. Example 2-2. Group Broadcasting from Analog Sound Sources and Example 3-5. Public Address Broadcasting from a microphone

To perform group broadcasting from an analog sound source, or PA broadcasting from a microphone—which means transmitting the sound from these devices connected to the Transmitting Device in the form of multicast audio—please perform the following settings:

Step 1. Set the multicast transmission channel(s) that will be the broadcast destination. See p. 27.

• On the Destination Settings screen, set the Multicast Address and Port number (even number) of all the multicast channels the audio will be broadcast to. Setting the name of the broadcast area to "Group Name" will make it easier to understand the setting contents.

Reboot

· Reboot to reflect the setting changes made so far.

See p. 18.

Step 2. Set the Event Trigger for starting and ending the broadcast.

See p. 41.

• If LINE/MIC IN is selected as the action of the control input on the Event Settings screen, broadcasting from the audio device connected to the LINE/MIC IN terminal can be performed in synchronization with the control input. For the broadcast destination, select the multicast transmission channel in the Destination field.

Tip

This setting procedure can be skipped when performing a broadcast that will be synchronized with the date and time set using Scheduler.

Step 3. Set the broadcast priority.

See p. 44.

· Select or change the transmission priority for LINE MIC IN on the Priority Settings screen.

Reboot

Reboot to reflect the setting changes made so far.

See p. 18.

Step 4. Create the broadcast schedule.

See p. 62.

 To perform date and time-synchronized broadcasting, create the schedule that will execute the broadcast on the Scheduler screen.

Step 5. Check the audio to be transmitted.

- Execute the previously set Event Trigger or Scheduler, and confirm the audio coming from the transmitting device's monitor output.
- Additionally, confirm that the audio is being provided by the receiving devices assigned to the multicast reception channel.

Tip

3.3. Example 3-2. PA (Public Address) Broadcasting from a SIP phone

PA broadcasting from a SIP phone, a type of broadcast in which spoken voice is transmitted in the form of multicast audio, can be carried out by calling the Transmitting Device from the SIP phone or SIP intercom. Please perform the following settings:

3.3.1. Performing SIP broadcasting via a SIP server

Step 1. Register with the SIP server.

See p. 24.

- Turn ON the SIP Account Active on the SIP Settings screen.
- Set the SIP Server Address, SIP Server Port, User ID, Password, and Authentication ID to connect to the SIP server.

Step 2. Set the multicast transmission channel(s) that will be the broadcast destination.

See p. 27.

• On the Destination Settings screen, set the Multicast Address and Port number (even number) of all the multicast channels the audio will be broadcast to. Setting the name of the broadcast area to "Group Name" will make it easier to understand the setting contents.

Reboot

· Reboot to reflect the setting changes made so far.

See p. 18.

Step 3. Assign the DTMF number to the multicast transmission channel.

See p. 29.

 Open the SIP tab on the Conversion Settings screen, and assign the DTMF number to the multicast channel that will become the broadcast destination. If the DTMF number is recognized after receiving a signal from the SIP phone, the received audio will be converted and transmitted as the corresponding multicast channel.

Step 4. Set the broadcast priority.

See p. 44.

• Select or change the SIP Priority on the Priority Settings screen.

Reboot

· Reboot to reflect the setting changes made so far.

See p. 18.

Step 5. Check the registration status on the SIP server.

See p. 21, p. 24.

 The broadcast is registered with the SIP server if the indication "Registered" is displayed in the SIP Registration Status field on the Status screen or in the SIP Account Active field on the SIP Settings screen.

Step 6. Check the audio to be transmitted.

- Start the broadcast by calling the transmitting device from a SIP phone or similar device using User ID, and confirm that audio is being output from the device's monitor.
- Additionally, confirm that the audio is being provided by the receiving devices assigned to the multicast reception channel.

Tip

3.3.2. SIP Broadcasting via P2P

Step 1. Set the multicast transmission channel(s) that will be the broadcast destination.

See p. 27.

• On the Destination Settings screen, set the Multicast Address and Port number (even number) of all the multicast channels the audio will be broadcast to. Setting the name of the broadcast area to "Group Name" will make it easier to understand the setting contents.

Reboot

· Reboot to reflect the setting changes made so far.

See p. 18.

Step 2. Assign the DTMF number to the multicast transmission channel.

See p. 29.

 Open the SIP tab on the Conversion Settings screen, and assign the DTMF number to the multicast channel that will become the broadcast destination. If the DTMF number is recognized after receiving a signal from the SIP phone, the received audio will be converted and transmitted as the corresponding multicast channel.

Step 3. Set the broadcast priority.

See p. 44.

• Select or change the SIP Priority on the Priority Settings screen.

Reboot

Reboot to reflect the setting changes made so far.

See p. 18.

Step 4. Check the audio to be transmitted.

- Start the broadcast by calling the transmitting device from a SIP phone or similar device using IP Address, and confirm that audio is being output from the device's monitor.
- Additionally, confirm that the audio is being provided by the receiving devices assigned to the multicast reception channel.

Tip

3.3.3. Example 3-4. PA (Public Address) Broadcasting from VMS software

If the Transmitting Device is registered with or connected to a network recorder (NVR) or video management system (VMS), "PA Broadcasting from VMS Software" can be enabled so as to transmit audio from the microphone connected to the NVR or VMS clients as multicast audio. Please perform the following settings:

Step 1. Enable Detection, Registration & Connection of the device using the ONVIF protocol.

See p. 26.

- Turn ON the VMS Connection on the VMS Broadcasting Settings screen.
- Set the Control Port, RTSP Port, Username and Password to allow detection by or registration with the NVR or VMS clients.

Step 2. Set the multicast transmission channel(s) that will be the broadcast destination.

See p. 27.

• On the Destination settings screen, set the Multicast Address and Port number (even number) of all the multicast channels the audio will be broadcast to. Setting the name of the broadcast area to "Group Name" will make it easier to understand the setting contents.

Reboot

· Reboot to reflect the setting changes made so far.

See p. 18.

Step 3. Assign the audio channel to the multicast transmission channel.

See p. 29.

 Open the [VMS Broadcasting] tab on the Conversion Settings screen to assign an Audio Channel number to the multicast channel that will be designated as the broadcast destination. This allows the audio to be converted and transmitted to the corresponding multicast channel, depending on which Audio Channel the VMS software selects to output the broadcast.

Step 4. Set the broadcast priority.

See p. 44.

• Select or change the priority of the VMS Broadcasts on the Priority Settings screen.

Reboot

Reboot to reflect the setting changes made so far.

See p. 18.

Step 5. Register the device with or connect it to NVR or VMS as an ONVIF device.

 Refer to the NVR or VMS instruction manual for more details on detecting, registering or connecting the ONVIF device.

Step 6. Adjust the broadcast volume.

- Operate the NVR or VMS client to start the broadcast using a microphone, and confirm that audio is being output from the transmitting device's monitor.
- Additionally, confirm that the audio is being provided by the receiving devices assigned to the multicast reception channel.

Tip

4. CONNECTION WITH BROWSER

4.1. Connection Presets

The device is factory-preset as follows:

Username: admin
Password: guest
IP address: 192.168.14.1
Subnet mask: 255.255.255.0
Default gateway: 0.0.0.0

Before connecting a PC to the device and changing its setting, it will be necessary to set the PC's network settings so that it can operate on the same network as the device. Take care that no IP addresses are duplicated in the same network. For example, if the device's IP address is 192.168.14.1, set the PC's IP address to 192.168.14.10 or the like.

4.2. Making Connection

Notes

- · Avoid simultaneously connecting to the device from multiple PCs.
- · Avoid simultaneously connecting to the device from a single PC using multiple browsers.
- Step 1. Connect both the device and the PC to be used for setup to the network.

Step 2. Start the PC's browser and enter the device's IP address in the address field.

Example: 192.168.14.1

The Login screen will be displayed.

Tip

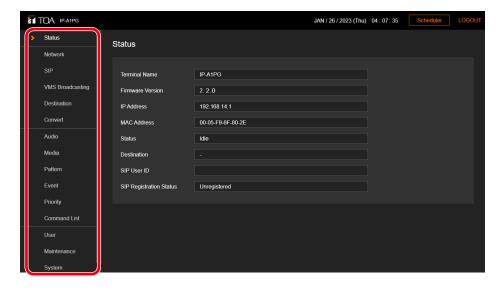
Default IP address: 192.168.14.1

Step 3. Enter both the username and the password, and click on the LOGIN button.

The Status screen will be displayed.

Click on the individual function names arranged on the left side of the browser screen to switch screens and perform the required settings for each selected screen.





5. CURRENT DATE AND TIME SETTINGS

Before beginning to use the device, be sure that the current date and time are correctly set. This initial setting is required in order to accurately set and operate the device's Scheduler or confirm its logs. First go to the System settings screen to perform these settings (p. 59).

Note

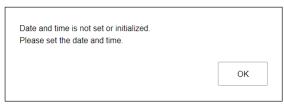
When the device is used for the first time or has not been powered for long periods of time, the message below is displayed.

Date and Time

NTP Server 1

NTP Server 2

NTP

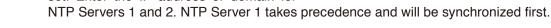


In such cases, set the current date and time using one of the following procedures.

5.1. Automatic Date and Time Synchronization with the NTP Server

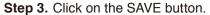
Step 1. Switch ON NTP and designate the NTP server to be used to synchronize the date and time.

> Up to two different NTP servers can be set. Enter the IP address or domain for

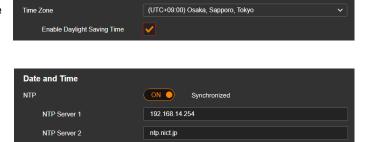


Step 2. Select the Time Zone.

Select the Time Zone of the location where the device is installed.



Any changes to the settings are saved while the date and time are simultaneously synchronized with the NTP server. If synchronization is successful, the indication "Synchronized" is displayed.



ON 🔵

ntp.nict.jp

192.168.14.254

Tip

This device can be synchronized with an NTP server when NTP is switched ON and...

- The SAVE button is clicked.
- · The device is restarted.
- The device's clock is synchronized everyday at 00:01.

However, no synchronization is possible if the receiving device is currently broadcasting.

5.2. Synchronization with a Connected PC's Clock (Date and Time)

Step 1. Switch ON Sync with PC.

Settings can be changed when the NTP function is switched OFF.



Step 2. Select the Time Zone.

Select the Time Zone of the location where the device is installed.

Step 3. Click on the SAVE button.

Any changes to the settings are saved while the date and time are simultaneously synchronized with the PC displaying the setting screen. Note that synchronization is only performed once, and not on a regular basis.

Note

If the SAVE button is clicked on while a broadcast is taking place, the time setting will take precedence, causing the current broadcast to stop.

5.3. Manual Date and Time Settings

Step 1. Enter the current date and time in the Manual Setting box.

When both NTP and Sync with PC are set to OFF, the date and time can be entered manually.



Step 2. Select the Time Zone.

Select the Time Zone of the location where the device is installed.

Step 3. Click on the SAVE button.

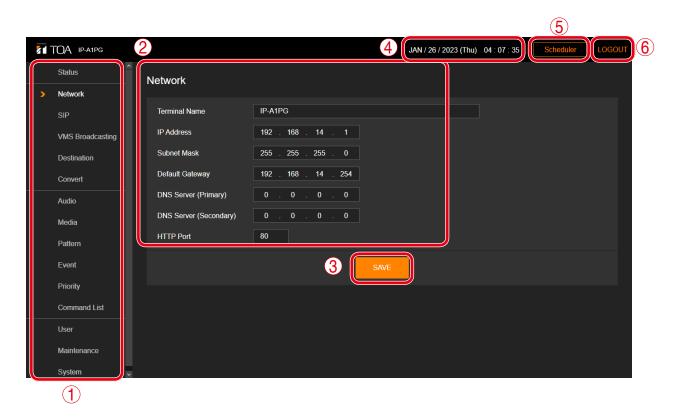
The entered date and time are saved.

Note

If the SAVE button is clicked on while a broadcast is taking place, the time setting will take precedence, causing the current broadcast to stop.

6. OPERATIONS COMMON TO EACH SCREEN

6.1. Screen Layout



	Name	Description
(1)	Settings Menu	Clicking on the Settings menu automatically switches the screen to the Setting Items window. If a setting item is changed, click on the SAVE button to save the changed contents before switching from the Setting Items window.
(2)	Setting Items Window	Displays the setting items for each Settings menu. If a setting item is changed, click on the SAVE button to save the changed contents before switching from the Setting Items window.
(3)	SAVE Button	Saves the changed setting contents.
(4)	Current Time Display	Displays the built-in clock's current time.
(5)	Scheduler button	Switches the screen over to the Scheduler screen. Schedules of broadcasts or actions can be set here.
(6)	LOGOUT Button	Click this button to log out only after confirming completion of setting contents entry or changes. The Logout screen is displayed after logging out.

6.2. Saving Settings or Changed Contents

If any setting items are changed, these changes need to be saved. Note that there may be cases where settings or changes are applied immediately or only after restarting the device.

6.2.1. Cases in which settings or changes are immediately applied

Step 1. Click on the SAVE button.

The message at right appears, notifying the user that the setting or change has been immediately applied:





Step 2. Click on the OK button.

6.2.2. Cases in which settings or changes are only applied after device restart

Step 1. Click on the SAVE button.

The message at right appears, notifying the user that the changed contents will only be applied after device restart.

Step 2. Click on the OK button.



Step 3. Move to the Maintenance screen and click on REBOOT.



Note

Attempting to switch screens without clicking on the SAVE button after changes are made to the settings or contents of each screen (Status screen, Media Settings screen and Maintenance screen excepted) will cause the screen at right to appear:

- If saving changes made to the setting contents of a screen, first click on the NO button, then the SAVE button, before switching screens.
- If not saving changes made to the setting contents, click on the YES button. The display will switch to another screen without saving the contents.



6.3. Restarting the Device

The procedure for restarting (or rebooting) the device is as follows:

Step 1. Move to the Maintenance screen.



- **Step 2.** Click on the REBOOT button.
 A confirmation dialog box is displayed.
- Step 3. Click on the YES button.

The network connection with the device is disconnected, causing the device to automatically restart.



6.4. Logging Out



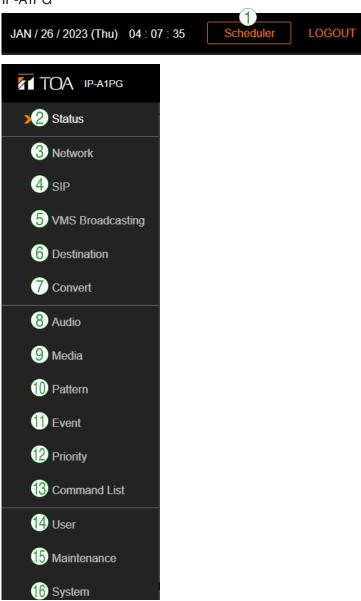
To terminate the network connection after completing confirmation or changes to the device's settings, click on the LOGOUT button.

When logged out, the Login screen will be displayed.

7. SETTINGS

7.1. The Setting Menu Composition

IP-A1PG

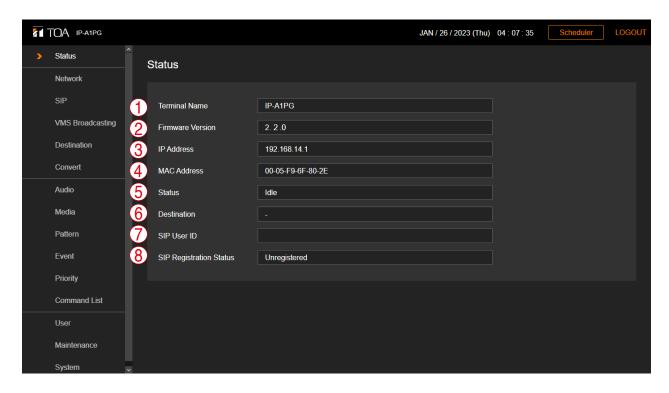


			Application	
	Setting Name	Setting Item	of setting changes	Page
(1)	Scheduler	Registration, editing, and deletion of programed repeat broadcast schedule and event execution, display of schedules for one week, check the annual schedule	Immediately	p. 62
(2)	Status screen	Confirmation of current firmware version, network settings, volume setting		p. 21
(3)	Network Settings screen	Network settings such as the IP address	After restart	p. 23
(4)	SIP Settings screen	Settings of SIP connection enable/disable, SIP server address, authentication information, and audio codec	After restart	p. 24
(5)	VMS Broadcasting Settings screen	Settings of VMS connection enable/disable and authentication information, connection port settings	After restart	p. 26
(6)	Destination Settings screen	Settings of multicast destination group name, multicast address and port number	After restart	p. 27
(7)	Conversion Settings screen	Sets the multicast audio stream group destination for converted SIP, and ONVIF backchannel audio streams	After restart	p. 29
(8)	Audio Settings screen	Settings of Line/Mic input sensitivity and mute	Immediately	p. 32
(9)	Media Settings screen	Uploading/downloading or deletion of sound source files such as messages to or from the internal memory	_	p. 34
(10)	Pattern Registration screen	Registration of sound source playback to be associated with events as patterns	Immediately	p. 37
(11)	Event Settings screen	Settings of operations to be synchronized with the control input and control output	After restart	p. 41
(12)	Priority Settings screen	Settings of priority order for each broadcast mode; SIP broadcast, VMS broadcast, multicast broadcast and internal sound source broadcast	After restart	p. 44
(13)	Command List screen	Settings of HTTP commands in command sets	Immediately	p. 47
(14)	User Settings screen	Changing username and password	Immediately	p. 49
(15)	Maintenance screen	Download and upload the configuration file, initialization, firmware update, hardware reboot, and downloading action logs	_	p. 50
(16)	System Settings screen	Date and time settings, NTP server settings, Time zone settings	Immediately	p. 59

8. STATUS SCREEN DISPLAY

This screen displays the device's state.

Since this page only displays the current settings, the contents cannot be changed on this page.



	Item	Contents	
(1)	Terminal Name	Displays the device name set on the Network settings screen (p. 23).	
(2)	Firmware Version	Displays the device's current firmware version. (See "Firmware Update" on p. 55)	
(3)	IP Address	Displays the device's IP address set on the Network settings screen (p. 23).	
(4)	MAC Address	Displays the device's MAC address.	
(5)	Status	Displays the device's MAC address. Displays the device's operating status. Idle: Standby state SIP DTMF Waiting: Waiting for SIP DTMF input SIP to Multicast: SIP multicast broadcast in progress VMS to Multicast: VMS multicast broadcast in progress Pattern ## (sound source filename) to Multicast: Multicast broadcast of preset sound source pattern in progress (## is the pattern number.) LINE/MIC IN to Multicast: Input audio multicast broadcast in progress Broadcast Disable: Transmitting device broadcasting suspended System Mute: System Mute enabled*	
(6)	Destination	Indicates which multicast transmission channel is currently being broadcast. The group name of each multicast transmission channel set on the Destination screen is displayed. —: The operating state when no broadcasting is being performed. Group Name: Audio currently transmitting to the displayed broadcast destination(s).	

^{* &}quot;System mute" represents the state that the broadcast audio sent out from the transmitting device is suspended and at the same time, IP speakers in the same network are muted by the signal from transmitting device. "System mute" is activated by mute terminal or control input terminal.

	Item		Contents
(7)	SIP User ID	Displays the device's name when registering the device on the SIP server. (See "SIP SETTINGS SCREEN" on p. 24.)	
(8)	SIP Registration Status	Displays the device's real (See "SIP SETTINGS of Registered: Registration Failed: Registering: Unregistered:	Registration successful.

8.1. Status Screen and Status Indicators

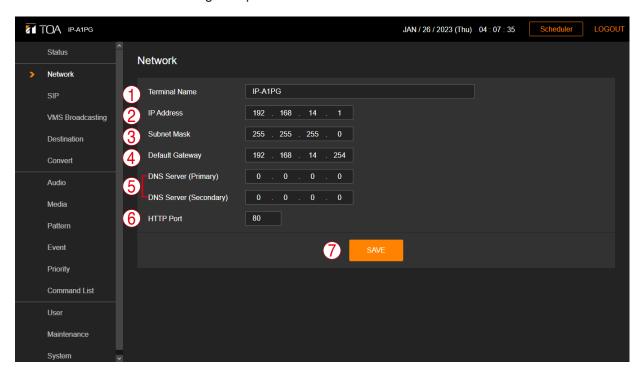
Display of Status items on the Status screen and status indicators (Status LED) have the following relationship:

		Status indicator (Status LED)
Device operation	Status display on the Status screen	IP-A1PG
		(Green, Blue, Yellow, Red)
System startup		Flashing green
	_	17 17
		0.5 - 0.5 - 1sec
Broadcast standby	Idla	Continuously lit green
	Idle	•
Broadcasting	SIP DTMF waiting	Continuously lit blue
	SIP to Multicast VMS to Multicast	•
	Pattern ## (sound source filename) to	
	Multicast	
	LINE/MIC IN to Multicast	
System mute*		Flashing red
	System Mute	'
		0.5 - 0.5sec
Initialization or		Continuously lit yellow
firmware updating	_	•

^{* &}quot;System mute" represents the state that the broadcast audio sent out from the transmitting device is suspended and at the same time, IP speakers in the same network are muted by the signal from transmitting device. "System mute" is activated by mute terminal or control input terminal.

9. NETWORK SETTINGS SCREEN

The device's network-related settings are performed on this screen.



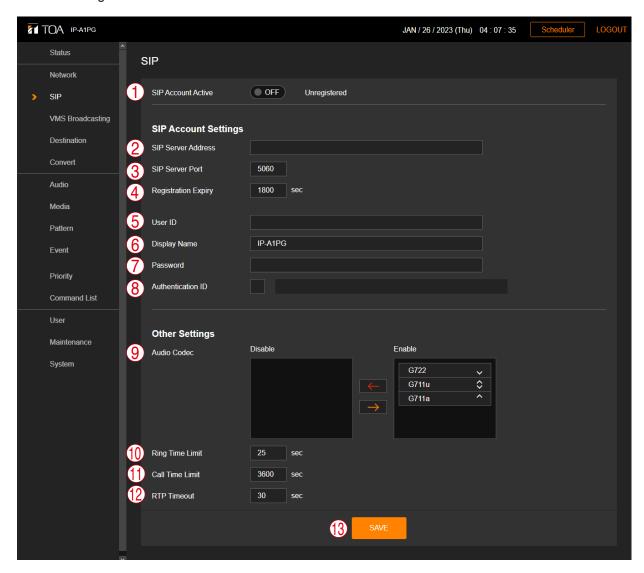
	Item	Contents
(1)	Terminal Name*1,*2	Set the device's terminal name.
		Initial setting: (Product Number)
(2)	IP Address*2	Set the device's IP address.
		Only private addresses can be entered.
		Initial setting: 192.168.14.1
(3)	Subnet Mask*2	Set the device's subnet mask.
		Initial setting: 255.255.255.0
(4)	Default Gateway*2	Set the device's default gateway.
		Initial setting: 0.0.0.0
(5)	DNS Server	Set the primary and secondary DNS server addresses.
		Initial setting: 0.0.0.0 (Invalid)
(6)	HTTP Port	Set the HTTP server support numbers. Normally, this port is used as found in
		the initial settings.
		Setting Range: 80 or 10000 – 40000
		Initial setting: 80
(7)	SAVE button	Click to save the settings and changes. (See p. 17.)

^{*1} For more information on the characters or number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

^{*2} This item causes the original setting values to be maintained without changing when the settings file is uploaded.

10. SIP SETTINGS SCREEN

Perform all settings related to SIP connections.



	Item	Contents		
(1)	SIP Account Active	Click on the button to enable or disable the SIP account.		
		ON: The SIP account is enabled and registered with the SIP server.		
		OFF: The SIP account is disabled and will not be registered with the SIP		
		server.		
		The registration status with the SIP server is displayed at right.		
		Registered: Registration successful.		
		Registration Failed: Registration failed.		
		Registering: Registration in progress.		
		Unregistered: Registration invalid.		
(2)	SIP Server Address*	Set the address of the SIP server. The address can be an IP address or a		
		domain name.		
		Initial setting: Blank		
(3)	SIP Server Port	Set the remote SIP server port number.		
		Setting range: 1024 – 65532		
		Initial setting: 5060		

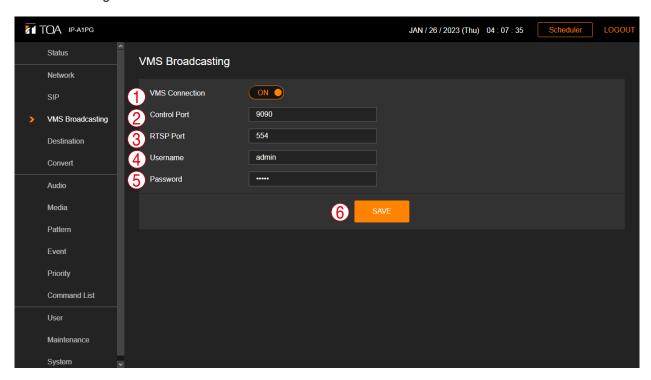
^{*} For more information on the characters or number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

	Item	Contents	
(4)	Registration Expiry	Set the device's SIP server registration expiry period. Set an appropriate value according to the registration authentication expiry preset for the SIP server (unit: sec). Setting range: 60 – 7200 Initial setting: 1800	
(5)	User ID*	Set the device's SIP account user ID needed when registering the device on the SIP server. Often, this user ID is used when calling up the receiving device. Initial setting: Blank	
(6)	Display Name*	Set the names of the SIP phone or other SIP devices. The name may be identical to the User ID. Initial setting: Product number	
(7)	Password*	Set the SIP account password needed to register the device on the SIP server. Initial setting: Blank	
(8)	Authentication ID*	Enter the authentication ID needed when registering the device on a SIP server. Place a checkmark in the checkbox when using. Initial settings: Checkbox: Authentication ID: Blank	
(9)	Audio Codec	Move the codecs to be used in SIP broadcasts to the Enable frame at right, and unused codecs to the Disable frame at left. Select the desired codec name button (G722, G711u or G711a) and click on the [←] or [→] button to move the name to the desired frame. When multiple codecs are selected in the Enable frame, the priority of each codec can be set by clicking on the [∨] or [∧] buttons to change their order. (Higher codecs have priority over lower codecs.)	
(10)	Ring Time Limit	Set the Max. duration for SIP-connected ringing tones. (Unit: sec.) Setting range: 25 – 60 Initial setting: 25	
(11)	Call Time Limit	Set the Max. duration for SIP-connected conversations. (Unit: sec) Setting range: 1 – 18000 Initial setting: 3600	
(12)		When the device receives no RTP packet during a preset duration, the connection times out and is cut off. Setting Range: 5 – 3600 sec. Initial setting: 30 sec.	
(13)	SAVE button	Click to save the settings and changes. (See p. 17.)	

^{*} For more information on the characters or number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

11. VMS BROADCASTING SETTINGS SCREEN

Perform all settings related to VMS connections.



	Item	Contents		
(1)	VMS Connection	Click on the switch to select whether or not to use the VMS broadcast function. ON: The Onvif server is enabled, allowing VMS broadcasting. OFF: The Onvif server is disabled, rendering VMS broadcasting inoperable. Initial setting: ON		
(2)	Control Port	Set the control port of the device to which VMS software connects. Setting range: 9090 or 10000 – 40000 Initial setting: 9090		
(3)	RTSP Port	Set the RTSP port for streaming video from this device to VMS client. Tip If you want to set the port forwarding on the router, set the same port number on the LAN side and WAN side. Setting range: 554 or 10000 – 40000 Initial setting: 554		
(4)	Username*	Enter the device's VMS username, which will be needed for other equipment to make a VMS connection to the device. Initial setting: admin		
(5)	Password*	Set the password needed for other equipment to make a VMS connection to the device. Default: guest		
(6)	SAVE button	Click to save the settings and changes. (See p. 17.)		

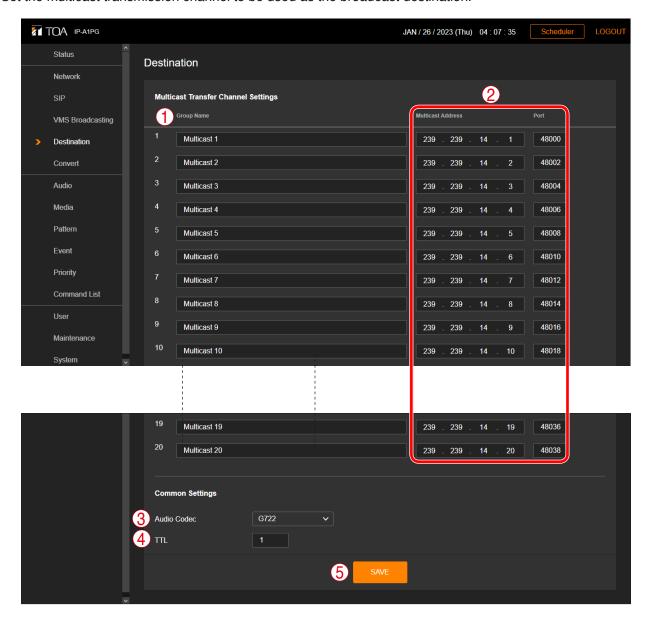
^{*} For more information on the characters or number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

Note

When performing VMS broadcasting from VMS software in a WAN environment, the VMS software must support RTP/RTSP/TCP (Video/Audio/Audio Backchannel). Please check the manual of the VMS software.

12. DESTINATION SETTING SCREEN

Set the multicast transmission channel to be used as the broadcast destination.



Multicast Transmission Channel Settings

	Item	Contents			
(1)	Group Name*	The name of the multicast transmission channel can be set. By matching this name with the names of the receiving devices, it can also be used as the name of the broadcast group. Initial setting: Multicast 1 – 20			
(2)	Multicast Address/Port	Set the transmission address and port number for multicast audio transmissions. Enter a Class D address for the multicast address, and an even number for the port number. <multicast address=""> Setting range: Class D address Initial setting: 239.239.14.1 – 239.239.14.20 <port number=""> Setting range: 1024 – 65532 Initial setting: 48000 – 48038 (even numbers only)</port></multicast>			

^{*} For more information on the characters or number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

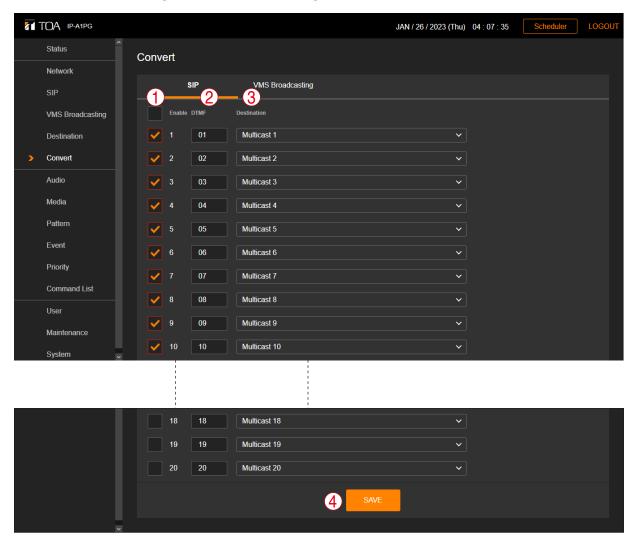
Common Settings

	Item	Contents			
(3)	Audio Codec	Set the codec of the multicast audio to be transmitted.			
		G711u: Audio codec is PCMU (G.711u).			
		G711a: Audio codec is PCMA (G.711a).			
		G722: Audio codec is G.722.			
		Initial setting: G722			
(4)	TTL	Set the TTL value of the multicast audio to be transmitted.			
		Set an appropriate value for the required multicast routing environment.			
		Setting range: 1 – 255			
		Initial setting: 1			
(5)	SAVE button	Click to save the settings and changes. (See p. 17.)			

13. CONVERSION SETTINGS SCREEN

Set the transfer relationship between the DTMF number and the broadcast destination when SIP broadcasts are received, and the transfer relationship between the audio channel and the broadcast destination when the Transmitting Device is connected to the VMS software.

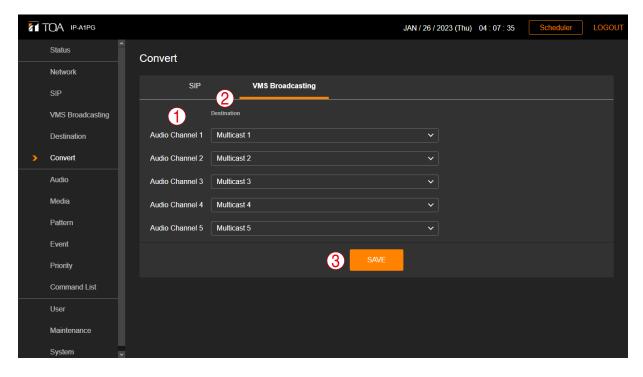
13.1. SIP Broadcasting Conversion Setting



	Item	Contents			
(1)	Enable	Check-mark the numbers to be validated as conversion settings.			
		Initial setting: 1 – 10 (checked) and 11 – 20 (unchecked)			
(2)	DTMF	Set which destination the broadcast will be transferred to via multicast by recognizing the DTMF number to be input from the SIP phone after the SIP phone and the transmitting device are put in communication mode. The DTMF setting is a 2-digit number. The same DTMF number cannot be assigned to two different conversion settings. Setting range: 0 – 9, *, #, A, B, C, D Initial setting: 01 – 20 Note The transmitting device's signaling system is compatible with the following protocols, but is not compatible with the inbound system: • DTMF over RTP (RFC2833) • SIP INFO message			

	Item	Contents			
(3)	Destination	Select the multicast transmission channel to which the SIP phone audio will			
		be transferred. The Group Name set in the Destination settings is displayed.			
		Setting range: Multicast 1 – 20			
		Initial setting: Multicast 1 – 20			
(4)	SAVE button	Click to save the settings and changes. (See p. 17.)			

13.2. VMS Broadcast Conversion Settings



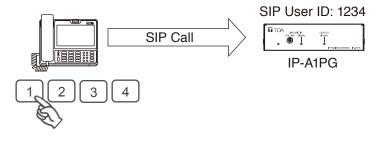
	Item	Contents		
(1)	Audio Channel 1 – 5	When the Transmitting Device is connected to the VMS software via ONVIF, it is recognized as having 5 audio channels. Set the transfer relationships for each of the 5 channels and their broadcast destination (multicast transmission channel).		
(2)	Destination	Select the multicast transmission channel to which the VMS audio will be transferred. The Group Name set in the Destination settings is displayed. Setting range: Multicast 1 – 20 Initial setting: Multicast 1 – 5		
(3)	SAVE button	Click to save the settings and changes. (See p. 17.)		

13.3. Regarding Destination Selection for Broadcasts Initiated by SIP phone

This section explains the method used to select the SIP device broadcast Destination by calling the IP Paging Gateway.

Step 1. Use the SIP phone to call the IP Paging Gateway.

Make a call from the SIP phone using the IP Paging Gateway's SIP user ID or IP address. If the IP Paging Gateway automatically receives the call, it is placed in the DTMF number input standby mode, and continuous sounds like those described below are heard:

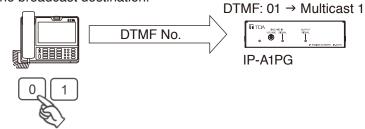


"Tirorin, tirorin, tirorin, tirorin"

The DTMF number input standby mode continues for 30 seconds, and the above sound is heard for the duration of the standby mode interval.

Step 2. Enter the DTMF number assigned to the broadcast destination.

While in DTMF number input standby mode (30 seconds), enter the DTMF number assigned to the desired Destination, which was set on the Conversion settings screen. If a valid DTMF number is entered, a sound like the one described below is heard, allowing the broadcast to be initiated.



"Popopinponpan"

If the duration of the DTMF number input standby mode exceeds 30 seconds, or the wrong DTMF number is entered, a sound like the one described below is heard, followed by the automatic termination of communications.

"Popon – popon"

Note

The transmitting device's DTMF signal system is compatible with the following protocols. However, it is not compatible with the inbound system. Some SIP phones allow the DTMF signal system to be changed.

- DTMF over RTP (RFC2833)
- SIP INFO message

Step 3. Initiate the broadcast.

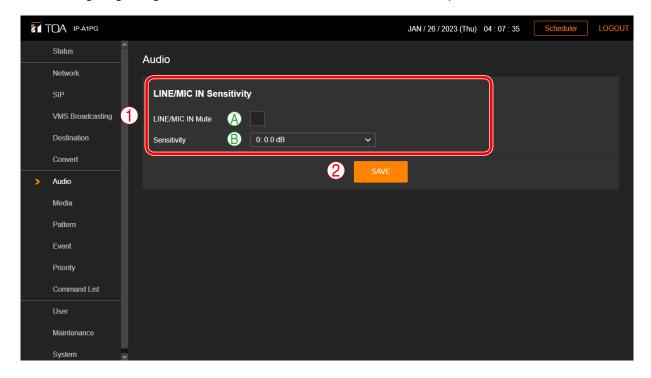
Voice input from the handset is broadcast to the selected broadcast destinations.

Step 4. Terminate the SIP phone broadcast.

Replacing the handset to finish the call terminates the broadcast.

14. AUDIO SETTINGS SCREEN

Perform settings regarding an audio to be transmitted from the LINE/MIC input to the network.



(1) LINE/MIC IN Sensitivity

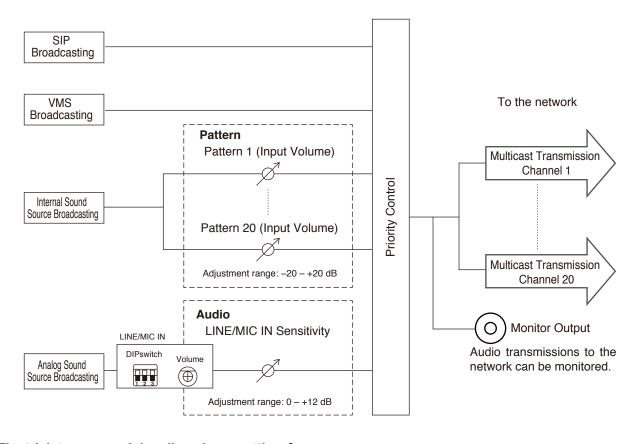
	Item	Contents		
Α	LINE/MIC IN Mute	Checking the box mutes the audio from the LINE/MIC input. The LINE/MIC input mute is reflected immediately after the Save button is clicked. Initial setting: Unchecked (unmute)		
В	Sensitivity	Set the sensitivity of the LINE/MIC input. Changes in the sensitivity setting are reflected immediately after the Save button is clicked. Setting range: 0 (0.0 dB) – 8 (+12.0 dB) Initial setting: 0 (0.0 dB)		

(2) SAVE

Click to save the settings and changes. (See p. 17.)

14.1. Conceptual Diagram of the Sound Volume Settings Function

Please refer to the following diagram for information regarding which volume settings are enabled for each broadcast sound source:

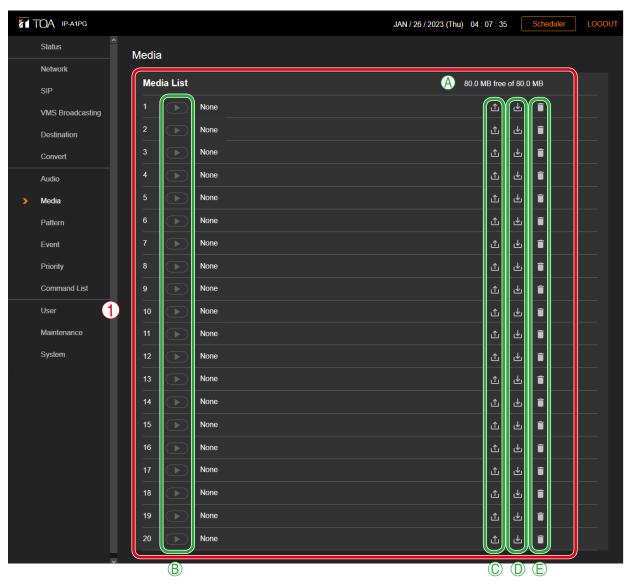


[The trick to successful audio volume settings]

- Take care not to increase the sound source's volume level too much at input. (If the sound source is distorted at this point, distortion cannot be eliminated by subsequent audio settings.)
- In order to balance the sound volume of the internal sound sources of all connected receiving devices, adjust each individual Input Volume setting.
- To change the sound volume of individual speakers, adjust the master volume control of each receiving device.
- In order to set different sound volumes for the same sound source, so that it can be used in two types of broadcast (i.e. normal volume and emergency volume), set the transmitting device to use two different multicast channels, which will then be received as different sound sources by the receiving devices, thus effectively realizing two volume settings for the same sound source.

15. MEDIA SETTING SCREEN

This screen is used to upload, download or delete the internal sound source files.



(1) Internal Sound Source List (Media List)

This list shows the names of the sound source files currently stored in the device. Sound source files can be registered to media numbers 1-20. Either MP3 or WAV files can be uploaded to the device.

	Item	Contents			
Α	Available capacity for internal sound source files	Displays max. device capacity (80 MB) and currently available sound source file upload capacity.			
В	Sound Source File Playback Button	All sound source files currently registered on the Internal Sound Source list can be played back by way of a PC, and confirmed as audio. If no sound files are registered, the playback button will not be enabled.			
С	Upload Icon	Uploads PC-saved sound source files to the device and adds them to the Internal Sound Source list. (See "Uploading Sound Source Files" on p. 35.)			
D	Download Icon	Downloads sound source files from the device and saves them to the PC. (See "Downloading Sound Source Files" on p. 35.)			
Е	Delete Icon	Deletes sound source files from the device. (See "Deleting Sound Source Files" on p. 36.)			

15.1. Uploading Sound Source Files

Follow the procedure below to upload sound source files to the device:

Max. sound source file storage capacity is 30 MB per file and 80 MB total.

Supported file formats are as follows:

WAV file: 8/16/44.1/48 kHz sampling frequency, 8/16 bit, monaural/stereo

MP3 file: 32/44.1/48 kHz sampling frequency, 64 to 320 kbps, CBR/VBR, monaural/stereo

Notes

- There are restrictions on the types of characters that can be used for filenames. Files that do not meet these conditions cannot be uploaded. Upload the file after changing the filename to one that consists of only usable characters, referring to "USABLE CHARACTERS" on p. 60.
- If sound source files are uploaded while an internal sound source broadcast is in progress, the broadcast will stop.

TipSound source file format and file size are roughly indicated as follows:

Sound source file format	File size per minute	Approximate sound source length for 30MB file.	Total saveable time (for 80 MB)
WAV (monaural, 48 kHz, 16 bit)	5.8 MB	About 5 minutes	About 14 minutes
WAV (monaural, 44.1 kHz, 16 bit)	5.3 MB	About 5 minutes	About 15 minutes
WAV (monaural, 44.1 kHz, 8 bit)	2.6 MB	About 11 minutes	About 30 minutes
MP3 (monaural, 320 kbps)	2.4 MB	About 12 minutes	About 33 minutes
MP3 (monaural, 256 kbps)	1.9 MB	About 16 minutes	About 42 minutes
MP3 (monaural, 192 kbps)	1.4 MB	About 21 minutes	About 56 minutes
MP3 (monaural, 128 kbps)	1.0 MB	About 32 minutes	About 83 minutes

Note that the above times are only provided as a guide. Total times may be shorter than those indicated, depending on the recording device or the data creation method.

Step 1. Click on the Upload icon to the right of the media number to be saved. The file explorer opens.

Step 2. Select the sound source file to be uploaded to the device.

Step 3. Click on the OK button.

Upload begins.

Following upload completion, the new sound source filename is added to the displayed Internal Sound Source list.

15.2. Downloading Sound Source Files

Follow the procedure below to download sound source files:

Step 1. Click on the Download icon to the right of the media number to be saved to the PC. The file explorer opens.

Step 2. Select the folder where the file will be saved.

Step 3. Click on the OK button.

The selected sound source file is downloaded.

15.3. Deleting Sound Source Files

Follow the procedure below to delete sound source files:

Note

If sound source files are deleted while an internal sound source broadcast is in progress, the broadcast will stop.

Step 1. Click on the Delete icon to the right of the media number to be deleted. The dialog box is displayed.

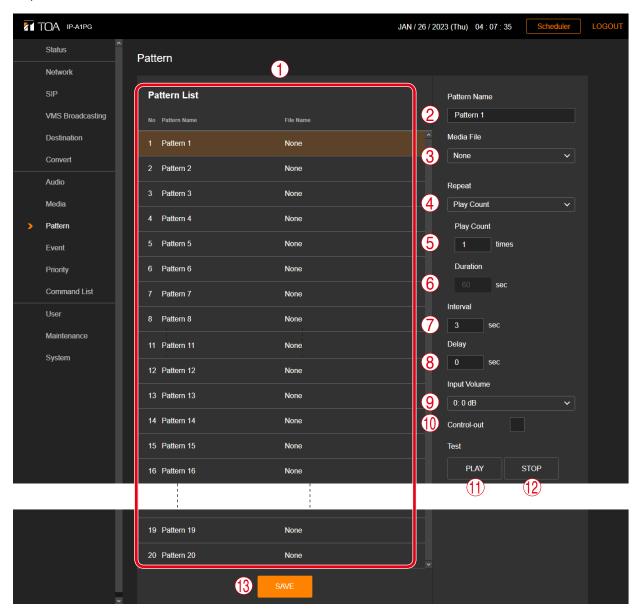


Step 2. Click on the YES button.

The selected sound source file is deleted.

16. PATTERN REGISTRATION SCREEN

Up to 20 internal sound source files can be registered as a broadcast pattern for broadcast in synchronization with specific events.



	Item	Contents
(1)	Pattern List	Up to 20 internal sound source files can be registered to each broadcast pattern. If a pattern to be registered is clicked on to activate, sound sources or broadcast patterns such as repeated broadcasts can be assigned to that pattern.
(2)	Pattern Name*	Assigns a name to each pattern. Initial setting: Pattern 1 – 20
(3)	Media Files (Internal sound source files)	Select the internal sound source files to be broadcast in each pattern. Initial setting: None

^{*} For more information on the characters or number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

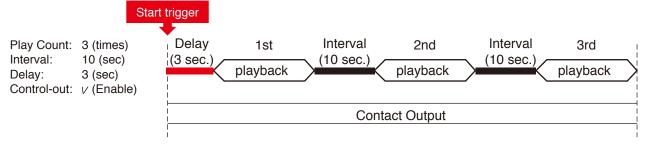
	Item	Contents
(4)	Repeat	Select the type of broadcast repetition from among the following two patterns: Play Count: Designate the number of times the broadcast is repeated. Duration: Designate the length of time that the broadcast is repeated. Initial setting: Play Count
(5)	Play Count	This function's settings are enabled if Play Count is selected in the Repeat setting. Set the number of broadcast repetitions to be executed following input of the Event Trigger. Setting range: 1 – 10 (times) Initial setting: 1 (time)
(6)	Duration	This function is enabled if Duration is selected in the Repeat setting. Set the length of time the broadcast will be repeated following input of the Event Trigger. Setting range: 5 – 3600 (sec.) Initial setting: 6 (sec.)
(7)	Interval	Set the sound source's play interval (the interval from the end of play to the start of the next repetition) when performing repeated broadcasting. Setting range: 0 – 60 (sec.) Initial setting: 3 (sec.)
(8)	Delay	Set the delay time from the input of the Event Trigger to the start of play. This can be used if the beginning of a broadcast is cut off or in similar situations. Setting range: 0 – 30 (sec.) Initial setting: 0 (sec.)
(9)	Input Volume	The input volume can be set to equalize the sound output of individual patterns or change the output level for each pattern. Changes to the input volume settings are enabled from the next broadcast after such changes are saved. Setting range: -20 to +20 dB Initial setting: 0 dB
(10)	Control-out (Control output button)	Connected external equipment can be controlled by transmitting a signal from the control output during broadcasts of internal sound source files. If the checkbox at right is marked, the external control output turns ON when the device begins broadcasting internal sound source files, and turns OFF when the broadcast is stopped. Initial setting: Unchecked
(11)	PLAY button	Test broadcasts can be run to check how the set patterns will be broadcast. Click PLAY button, and audio will be output from the MONITOR OUT terminals.
(12)	STOP button	The test broadcast can be stopped by clicking this button.
(13)	SAVE button	Click to save the settings and changes. (See p. 17.)

The broadcast repetition method can be selected from between the following two variations: Play Count, or the number of times that a broadcast is repeated, the total Duration of the broadcast.

Each of these functions can be enabled as follows, depending on the combination with other setting items:

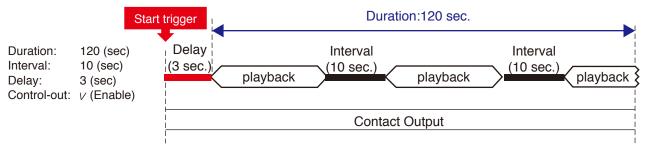
[If Play Count is selected]

Designate the number of times the sound source playback will be repeated. The following operation is performed when Edge is selected as the Signal Mode and the start trigger is a control input, or if the receiving device is externally controlled by remote API.



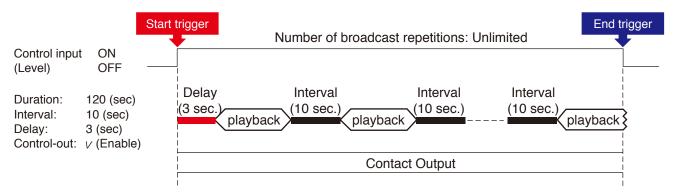
[If broadcast duration is selected]

Designate the duration of repeated play. The following operation is performed when Edge is selected as the Signal Mode and the start trigger is a control input, or if the receiving device is externally controlled by remote API.



[Controlling Start-to-Finish Duration When the Control Input Signal Mode is Set to Level]

Broadcasts are repeatedly played back with no limit to the number of repetitions when Level is selected as the Signal mode, even if the Repeat pattern setting is set to "Play Count" or "Duration," for the entire period of time between the initial start trigger and the end trigger. The Interval time setting is applied as the duration between different sound sources.

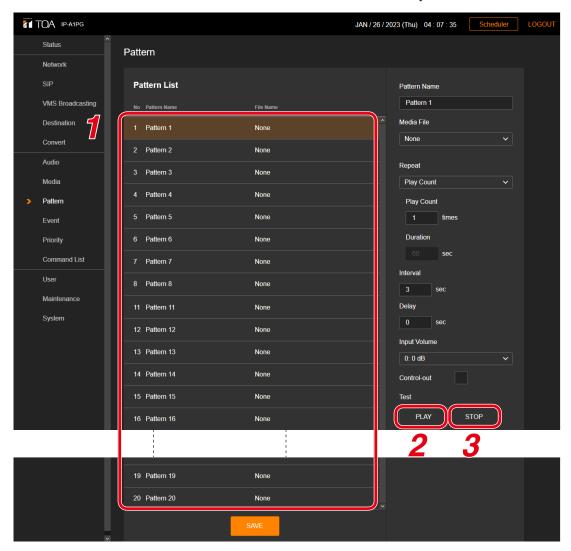


16.1. Performing Tests of Pattern Broadcast

Follow the procedure below to conduct broadcast tests for selected broadcast patterns:

Note

Neither the PLAY nor STOP buttons can be used if the set contents have not yet been saved.



Step 1. Click and select the broadcast pattern to be tested.

Step 2. Click on the PLAY button.

A test broadcast of the selected broadcast pattern will begin.

Tip

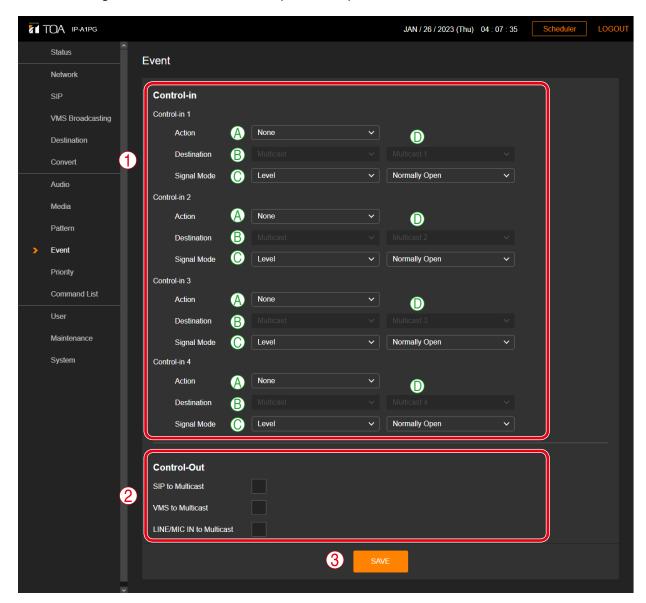
Audio is provided from the monitor output, and not as multicast audio to the network.

Step 3. Click on the STOP button to stop the test.

The test broadcast stops.

17. EVENT SETTINGS SCREEN

Perform all settings related to contact control input and output.



(1) Control-in

Various event actions can be set for each control input, and can be executed by the input of a control signal from connected external equipment.

	Item	Contents
A	Action	Select the action to be executed when a control signal is received. Combinations of selectable actions and individual signal modes are shown in the following table. Initial setting: None Tip Actions other than LINE/MIC IN cannot be set for multiple control inputs (Control-in 1 – 4). When LINE/MIC IN is set for multiple control inputs, broadcasts to the different Destinations can be activated by each control inputs.
В	Destination	When a broadcast Action (Patterns 1 – 20, LINE/MIC IN) is selected, be sure to select the multicast transmission channel that will function as the broadcast Destination. The Group Name that was entered in the Destination settings will be displayed. Setting range: Multicast 1 – 20 Initial setting: Multicast 1 – 4

	Item	Contents
С	Signal Mode	Set the signal mode of the control signal. Level: The designated action is only executed while the control signal is ON. The action is terminated when the control
		signal is OFF.
		Edge: Only the start trigger (that switches ON the control signal) is detected.
		Initial setting: Level
D	Control Condition	Set the control signal's control conditions. Normally Open: The circuit is normally disconnected (open), and turns ON when shorted. (Make contact)
		Normally Closed: The circuit is normally shorted (closed), and turns ON when opened. (Break contact)
		Initial setting: Normally Open

Configurable actions are as follows;

Tip

Actions other than LINE/MIC IN cannot be set for multiple control inputs (Control-in 1-4). When LINE/MIC IN is set for multiple control inputs, broadcasts to the different Destinations can be activated by each control inputs.

Configurable actions	Contents	Level	Edge
None	No action set.	_	_
Pattern 1 – 20	Initiates pattern broadcasting with internal sound source.	√ *	✓
LINE/MIC IN	Starts and ends LINE/MIC IN input broadcasts.	✓	_
Command Set 0 – 9	Executes the Command Set to be registered on the Command List screen.	_	✓
Broadcast Disable	Disables the current broadcast while the control signal input is in progress, and stops transmitting audio broadcasts from the transmitting device, switching the device to Idle mode.	✓	_
System Mute	Switches the transmitting device to System Mute mode during control signal input, and stops audio broadcasts from the transmitting device. Simultaneously, it mutes all receiving devices in the same network as the multicast audio stream, including any devices that may be broadcasting individually, making it possible to switch the entire system to mute mode.	√	_

^{*} Broadcasts are repeatedly played back with no limit to the number of repetitions when Level is selected as the Signal mode, even if the Repeat pattern setting is set to "Play Count" or "Duration," for the entire period of time between the initial start trigger and the end trigger. The Interval time setting is applied as the duration between different sound sources.

(2) Control-out

Connected external equipment can be operated by trigger signals transmitted from the control output during device broadcasts.

Set which control output the transmitting device should turn ON during individual broadcasts.

SIP to Multicast: The control output turns ON during SIP audio multicast broadcasts, and turns OFF

again when the broadcast is complete.

VMS to Multicast: The control output turns ON during VMS audio multicast broadcasts, and turns OFF

again when the broadcast is complete.

LINE/MIC to Multicast: The control output turns ON during the LINE/MIC input multicast broadcasts, and

turns OFF again when the broadcast is complete.

Initial setting: Unchecked

qiT

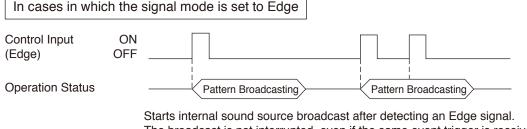
Regarding control output settings when broadcasting internal sound source files, refer to "Control output (7)" in the preceding Pattern Registration screen (p. 37).

(3) SAVE Button

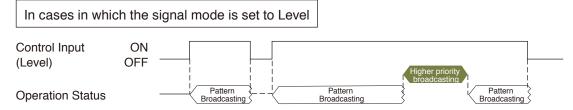
[Broadcasting from the internal sound source (when selecting Patterns 1-20)]

Tip

Pattern Broadcasting, as described below, refers to broadcasts made by playing a pattern list previously set on the Pattern Registration screen. The pattern list can include combinations of selections and repeated play of sound sources, as well as delay, interval, input volume, enabling or disabling of control outputs, etc.



The broadcast is not interrupted, even if the same event trigger is received.

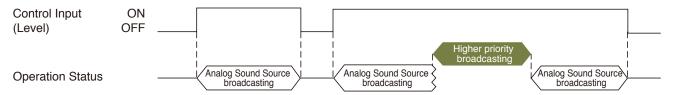


Broadcast continues while the Level signal is received, automatically repeating the broadcast pattern, regardless of the length of the played sound source. If the broadcast is interrupted by a higher priority broadcast, and the Level signal continues to be maintained when the higher priority broadcast ends, the broadcast pattern starts again from the beginning.

Tip

Broadcasts are repeatedly played back with no limit to the number of repetitions when Level is selected as the Signal mode, even if the Repeat pattern setting is set to "Play Count" or "Duration," for the entire period of time between the initial start trigger and the end trigger. The Interval time setting is applied as the duration between different sound sources.

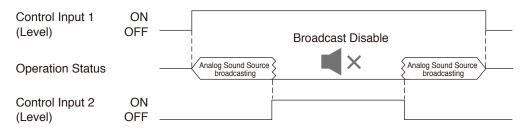
[Broadcasting Analog Sound Sources (When LINE/MIC IN is selected)]



Local broadcasting continues during Level signal input. When the broadcast is interrupted by a higher priority broadcast, it will be restored if the Level signal is still present when the higher priority broadcast is complete.

[Stopping the Broadcast (When Broadcast Disable or System Mute is enabled)]

Audio broadcasts from the transmitting device can be stopped by selecting Broadcast Disable or System Mute as the control input event.

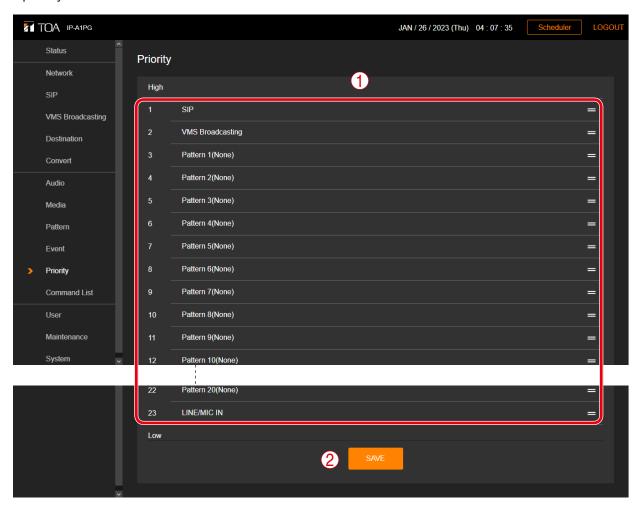


[Broadcast Disable] stops audio broadcasting from the transmitting device during Level signal input, and switches the system to Broadcast Disable mode.

[System Mute] stops audio broadcasting from the transmitting device during Level signal input. Simultaneously, it mutes all network receiving devices receiving the multicast audio stream, including any devices that may be broadcasting individually, making it possible to switch the entire system to mute mode.

18. PRIORITY SETTINGS SCREEN

The priority order of each broadcast function can be set or modified.



	Item	Contents
(1)	Priority Broadcast	Broadcast priorities can be changed by swapping places in the displayed order. The broadcast priority rises as its displayed position in the list moves upward, while the priority level lowers as the displayed position moves downward. The display order can be changed by drag & drop. For operation, please refer to "About broadcast switching due to broadcast priority settings" on the next page. Initial Priority settings: [High] SIP VMS broadcasting Pattern 1 – 20 [Low] LINE/MIC IN
(2)	SAVE button	Click to save the settings and changes. (See p. 17.)

[About broadcast switching due to broadcast priority settings]

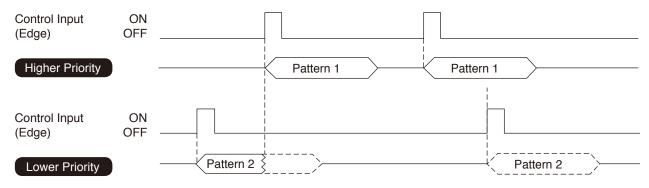
By assigning a higher priority to a broadcast sound source, it can be set to interrupt other broadcasts. Shown below are some representative examples:

Tip

The Patterns described below represent broadcasts made by executing the pattern list set on the Pattern Registration screen. The pattern list includes the combinations of selections and repeated play of sound sources, as well as delay, interval, input volume, enabling or disabling of control outputs, etc.

Internal sound source broadcast switching operations

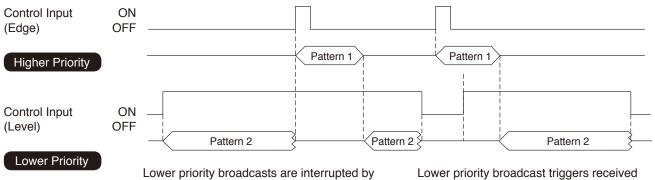
Example 1. When the signal mode is set to Edge:



Lower priority broadcasts will be interrupted by higher priority broadcasts.

Lower priority broadcast triggers received during higher priority broadcasts will not be executed.

Example 2. When the signal mode is set to Level:



Lower priority broadcasts are interrupted by higher priority broadcasts. If the Level signal input is maintained, the interrupted broadcast will be restored after the higher priority broadcast ends.

Lower priority broadcast triggers received during higher priority broadcasts will not be executed. If the Level signal input is maintained after the higher priority broadcast ends, the lower priority broadcast will be enabled after the higher priority broadcast ends.

Switching operation of Analog Sound Source Broadcasting (LINE/MIC IN) Control Input ON (Edge) **OFF** Higher Priority Pattern 1 Pattern 1 Control Input ON OFF (Level) Analog Sound Source Analog Sound Source Analog Sound Source **Lower Priority** Broadcasting Broadcasting Broadcasting Analog Sound Source Broadcasting, which The trigger for lower priority Analog Sound is low in priority, can be interrupted by Source Broadcasting is not executed if initiated during a higher priority higher priority broadcasts. It will resume after the higher priority broadcasts is broadcasting. The lower priority Analog complete, provided the Level signal is still Sound Source Broadcast will resume If the present. Level signal is still present after completion of the higher priority broadcast. SIP and VMS broadcast switching operations Control Input ON (Edge) OFF **Higher Priority** Pattern 1 Pattern 1 SIP Broadcasting SIP Broadcasting Lower Priority SIP broadcasts are If a SIP broadcast is attempted while a interrupted by higher higher priority broadcast is in progress, priority broadcasts and the SIP broadcast will not be connected their connection is cut off. and not allowed to go through. Lower Priority VMS Broadcasting VMS Broadcasting

If a VMS broadcast is attempted while a

higher priority broadcast is in progress, the

VMS broadcast will not be connected and

not allowed to go through.

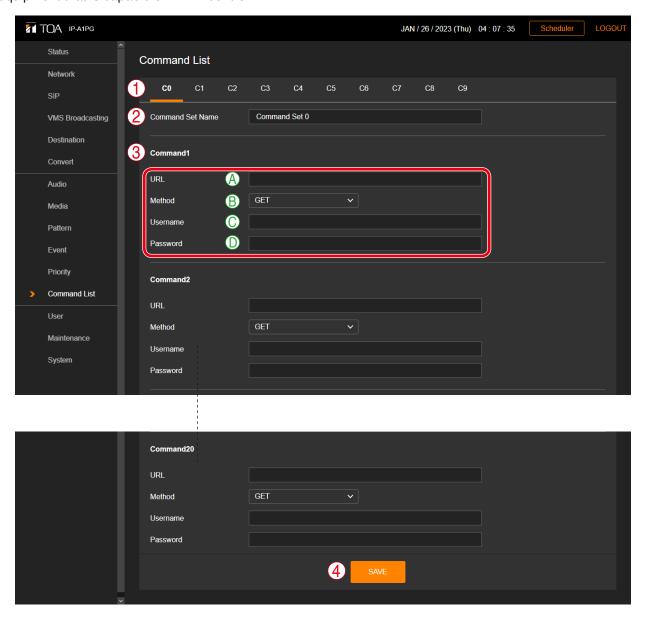
VMS broadcasts are stopped by higher

cut off.

priority broadcasts and their connection is

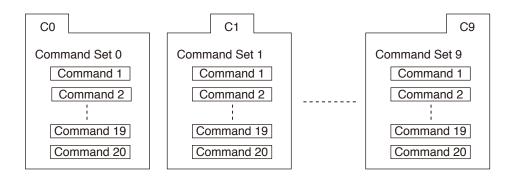
19. COMMAND LIST SCREEN

The registration of HTTP commands allows the transmitting device to work in close coordination with any equipment that is capable of HTTP control.



19.1. Command List Makeup

The makeup of each command and command set from the Command List are as follows. Commands can be preset in command set units to execute actions in the Event settings or the Scheduler.



(1) Command set tabs (C0 – C9)

Ten separate Command sets (C0 - C9) are made available. The Command set screen changes as the tabs are selected. Up to 20 commands can be registered for each Command set tab.

(2) Command Set Name

Names can be assigned to each set commands. The full selection of commands is displayed on the Event (and other related) Settings screen(s) using these assigned names.

(3) Command

	Item	Contents
Α	URL*	Enter the HTTP command to be registered. Initial setting: Blank
В	Method	Designate "GET" as the HTTP command method.
С	Username*	Enter the user name to be used for authentication of the HTTP command's transmission destination. Initial setting: Blank
D	Password*	Enter the password to be used for authentication of the HTTP command's transmission destination. Initial setting: Blank

^{*} For more information on the characters or number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

(4) SAVE button

Click to save the settings and changes. (See p. 17.)

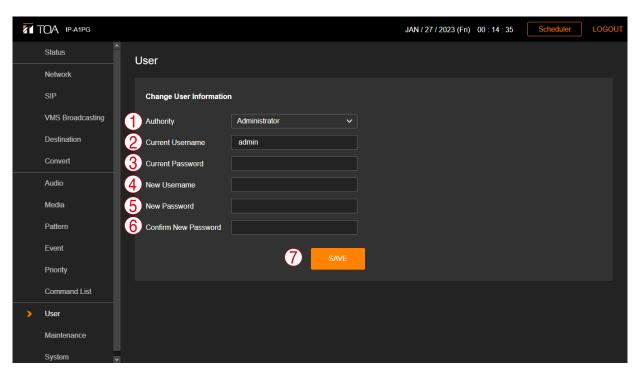
20. USER SETTINGS SCREEN

The username and password required to make a connection to the device from a PC can be set on this screen.

Tip

Administrator privileges allow one to edit all settings and Scheduler functions.

With User privileges, only Scheduler functions can be edited after logging in to the Scheduler screen.



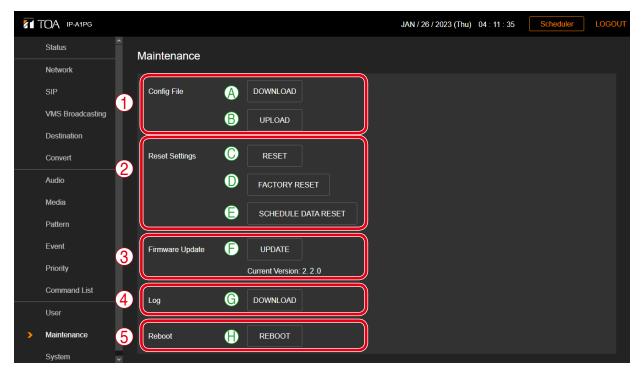
	Item	Contents
(1)	Authority	Selects the level of authority required for making changes to user information, including user names and passwords. Administrator: Changes the user information to enable Administrator privileges. User: Changes the user information to enable User privileges.
(2)	Current Username*1, *2	Enter the current user account name. Initial setting: admin
(3)	Current Password*1, *2	Enter the current user account password. Initial setting: guest
(4)	New Username*1	Enter the new user account name.
(5)	New Password*1	Enter the new user account password.
(6)	Password Confirmation*1	Enter the new user account password once again.
(7)	SAVE button	Click to save the settings and changes. (See p. 17.)

^{*1} For more information on the characters or number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

^{*2}This item causes the original setting values to be maintained without changing when the settings file is uploaded.

21. MAINTENANCE SCREEN

Backup and restoration of device settings data, reset setting, firmware update and hardware reboot can all be performed on this screen.



(1) Config File

	Item	Contents
Α	DOWNLOAD	The device's settings and sound source files can be downloaded to a connected PC as a single setting file.
В	UPLOAD	By uploading the previously downloaded setting file from the PC, the settings and sound source files can be restored to their previous state.
		 Notes User and network settings are not applied to setting file uploads. All settings prior to upload are maintained. With the exception of Schedule data, any and all configuration data can be selected when uploading the Configuration file. For details, please refer to "Uploading Setting File" on p. 52.

(2) Reset Setting

	Item	Contents
С	RESET	Resets all of the device's settings to their initial setting status. However, sound source files saved within the device are retained on the Media Settings screen without being deleted.
D	FACTORY RESET	Resets all of the device's settings to their initial status as shipped from the factory. Internally saved sound source files will also be deleted.
Е	SCHEDULE DATA RESET	Only resets the device's Schedule data. Other settings are not changed.

(3) Firmware Update

	Item	Contents
F	UPDATE	The device's firmware can be updated by running the firmware-updater previously saved to the connected PC. The device's current firmware version is displayed in the Current Version box.

(4) Log

	Item	Contents
G	DOWNLOAD	The device's operation logs can be downloaded to a PC.

(5) Reboot

Item Contents			
Η	REBOOT	Restarts the device. Use this button when applying setting changes or performing other operations that require restart.	

21.1. Downloading Setting File

Follow the procedure below to save the device's setting contents and sound source files to the PC as setting files:

Step 1. Click on the DOWNLOAD button. The file explorer opens.

Step 2. Select the folder into which the setting file is to be saved.

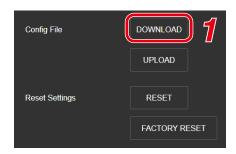
Step 3. Enter the filename and click on the SAVE button.

Tip

The setting file extension is ".spconf".

The following filename is automatically assigned when downloading:

<IP address>_<device name>.spconf



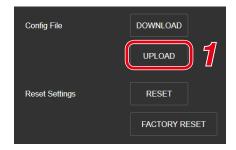
21.2. Uploading Setting File

Follow the procedure below to restore setting contents and sound source files to the device from the setting files saved on the PC.

Note

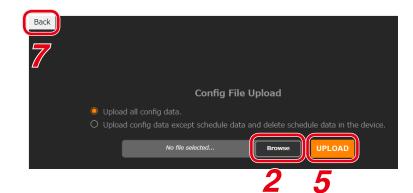
Performing uploads during a broadcast will stop all current broadcasts.

Step 1. Click on the UPLOAD button.



The settings upload screen opens.

Step 2. Click on the Browse button.



The file explorer opens.

Step 3. Select the setting file.

Tips

- · The setting file extension is ".spconf".
- For valid characters that can be used in the file name, please refer to "USABLE CHARACTERS" on p. 60.
- Step 4. Click on the OPEN button.
- **Step 5.** Confirm the setting filename displayed on the screen, then click on the UPLOAD button. Upload begins, followed by an automatic restart. A popup window showing the operating status is displayed during upload or restart. During this process, a confirmation dialog is temporarily displayed when upload of the setting file is complete.

Note

The receiving device's settings file cannot be uploaded to the transmitting device.

Tips

The application range of the Configuration file can be selected before uploading.

- · Upload all config data (default value):
 - Applies all configuration data to the Configuration file to be uploaded.
- Upload config data except schedule data and delete schedule data in the device:

With the exception of the Schedule data, applies the selected configuration data to the Configuration files to be uploaded. If Schedule data has already been registered to the device, the device's Schedule data will be deleted.

Step 6. Click on the OK button.

After restart is complete, the popup window showing the operating status turns off, returning the display to the Settings Upload screen.

Step 7. Click on the Back button located at the upper left of the Settings upload screen. The display then reverts to the Login screen.

21.3. Initialization of Settings

Follow the procedure below to return all the device's setting contents to their initial settings.

Notes

- Unlike the factory default settings procedure described on the following page, the device's saved sound source files are not deleted.
- The firmware version does not revert to the factory-preset version. The version that existed before settings
 initialization is maintained.

Step 1. Click on the RESET button.



The dialog box opens.

Step 2. Click on the YES button.

The initialization of all the device's settings begins.

The dialog box is displayed when initialization is completed.



Step 3. Click on the OK button.

Step 4. Restart the device.

If Restart is executed, all of the device's new settings will be initialized after the device is restarted. For the restart method, please refer to "Restarting the Device" on p. 18.

Tip

Settings can also be initialized by using the device's Reset key. For detailed setting procedure, please refer to the instruction manual supplied with the device.

21.4. Factory Default Settings

Follow the procedure below to return all the device's settings to their factory-preset condition.

Notes

- · If returned to factory default settings, all of the sound source files saved in the device will also be deleted.
- The firmware version does not revert to the factory-preset version. The version that existed before settings initialization is maintained.

Step 1. Click on the FACTORY RESET button.



The dialog box opens.

Step 2. Click on the YES button.
Initialization to factory default setting begins.
The dialog box is displayed once initialization is complete.



Step 3. Click on the OK button.

Step 4. Restart the device.

If Restart is executed, the device will revert to its initial factory-shipped state after being restarted. For the restart procedure, please refer to "Restarting the Device" on p. 18.

21.5. Firmware Update

The procedure for updating the device's firmware is as follows:

Tip

Download the latest firmware-updater after performing a search of the TOA DATA Library (https://www.toa-products.com/international/) for the product number.

Note

Do not change the filename of the downloaded firmware-updater.

Step 1. Click on the UPDATE button.



The Update screen opens.

Step 2. Click on the Browse button. The file explorer opens.



Step 3. Select the new firmware-updater file.

Tip

The firmware-updater's extension is ".bin".

- Step 4. Click on the OPEN button.
- **Step 5.** Confirm the firmware-updater's name displayed on the screen, then click on the UPLOAD button. The dialog box is displayed.
- Step 6. Click on the OK button.

Upload of the new firmware-updater begins.

After upload is completed, the device's Status indicator changes to indicate that the firmware update is in progress, and the device is restarted.

After restart is completed, the display reverts to the Update screen.

Note

Do not restart the device or turn off its power during firmware update, as doing so could result in corrupted firmware, potentially making it impossible to start the device.

- **Step 7.** Click on the Back button located at the upper left of the Update screen. The display reverts to the Login screen.
- **Step 8.** After logging in again, confirm that the new firmware version is displayed in the Firmware Version field on the Status screen.

Tip

After firmware update, all settings and sound source files are maintained without being initialized.

21.6. Downloading the Log File

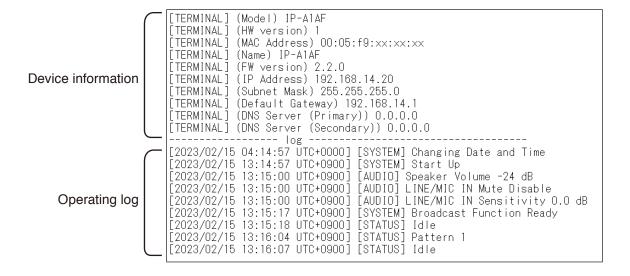
21.6.1. About the Log File

Clicking on the DOWNLOAD button in the Log field allows the log file to be downloaded. The file name extension is [.log]. The log can be browsed using a text editor like Notepad. The following filename is automatically assigned when downloading: <IP address>_<device name>.log



Data saved to the log file includes device information and operating log. Logs are kept for 30 days.

File size can be up to about 15MB.



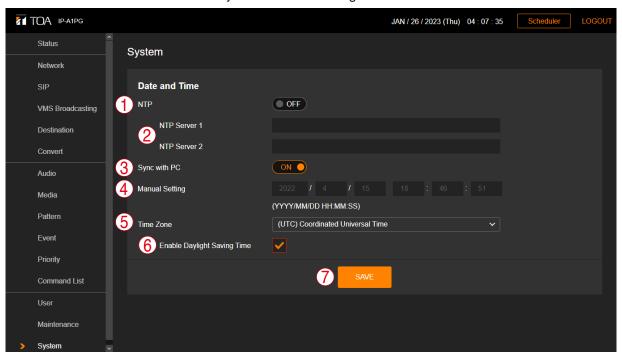
21.6.2. Log Table

Transmitting Device Log	Variable	Log Contents
[SYSTEM]		
Start Up		Transmitting device started
Broadcast Function Ready		Broadcast ready
Reboot		Restarted
Change Date and Time		Date and time settings changed
NTP Synchronization Start		NTP time synchronization ON
NTP Synchronized (NTP Server #)	NTP server number (1, 2)	NTP time synchronization successful
NTP Synchronization is skipped (The		NTP time synchronization skipped — Device
status is not Idle)		not in Standby mode
[ERROR] NTP Synchronization Failed		NTP time synchronization failed
[STATUS]		
Idle		Standby mode ON
SIP DTMF Waiting		DTMF number input waiting mode started
SIP to Multicast ##	Multicast channel number (1 – 20)	SIP audio multicast transmission started
VMS to Multicast ##	Multicast channel number (1 - 20)	VMS audio multicast transmission started
LINE/MIC IN to Multicast ##	Multicast channel number (1 - 20)	-
Pattern ## to Multicast ##	Pattern number (1 – 20) Multicast channel number (1 – 20)	Pattern audio multicast transmission started
Broadcast Disable		Broadcast suspension mode started
System Mute		System mute ON
[AUDIO]		
LINE/MIC IN Sensitivity ## dB	Sensitivity setting value (0.0 – 12.0)	Audio input sensitivity settings changed
LINE/MIC IN Mute Enable		Audio input mute ON
LINE/MIC IN Mute Disable		Audio input mute OFF
[EVENT]		
Control In # ON (Edge)	Control-in number (1 – 4)	Control input turned ON as Edge signal
Control In # ON (Level)	Control-in number (1 – 4)	Control input turned ON as Level signal
Control In # OFF (Level)	Control-in number (1 – 4)	Control input turned OFF as Level signal
[ACTION]		
No Action		Action to be executed not set
Pattern ## Start	Pattern number (1 – 20)	Internal sound source broadcasting ON
Pattern ## End	Pattern number (1 – 20)	Internal sound source broadcasting OFF (only if Level signal)
LINE/MIC IN Start		Analog audio broadcasting started
LINE/MIC IN End		Analog audio broadcasting completed
Command Set #	Command set number (0 – 9)	Command set transmission executed
Broadcast Disable Start		Broadcast suspension mode started
Broadcast Disable End		Broadcast suspension mode ended
System Mute Start		System mute ON
System Mute End		System mute OFF
[MAINTENANCE]		
Download Config		Setting file download ON
Upload Config		Setting file upload ON
Reset Settings		Setting reset executed
Reset Schedules		Schedule reset executed
Download Log		Log download ON
Firmware Update (xxx => yyy)	xxx: Version before updating yyy: Updated version	Firmware update ON

Transmitting Device Log	Variable	Log Contents					
[SCHEDULE]							
Pattern ## to Multicast ## Start	Pattern number (1 – 20) Multicast channel number (1 – 20)	Internal sound source broadcasting started, using the Schedule as a trigger.					
Pattern ## End	Pattern number (1 – 20)	Internal sound source broadcasting stopped, using the Schedule as a trigger (only when the End Time has been set).					
LINE/MIC IN to Multicast ## Start	Multicast channel number (1 – 20)	Analog audio broadcasting started, using the Schedule as a trigger.					
LINE/MIC IN End		Analog audio broadcasting stopped, using the Schedule as a trigger.					
Command Set #	Command set number (0 – 9)	Execution of command set transmission.					
Control Out ON		Control output ON					
Control Out OFF		Control output OFF					
New Schedule		New Schedule creation					
Edit Schedule		Schedule editing enabled					
Remove Schedule		Schedule deleted					
Edit Categories		Category editing enabled					
Edit Schedules (category)		Batch editing of category Repeat settings					

22. SYSTEM SETTINGS SCREEN

Perform date and time and NTP server synchronization settings.



	Item	Contents				
(1)	NTP	Setting NTP to ON enables the NTP client function. If a synchronous operation to the NTP server begins, the following contents are displayed: Synchronizing: NTP synchronization in progress. Synchronized: NTP synchronization succeeded. Synchronization Failed: NTP synchronization failed. Initial setting: OFF Note No synchronization is possible if the receiving device is currently broadcasting.				
(2)	NTP Server 1, 2*	Enter the NTP server's IP address or domain to select the server to be synchronized. Initial setting: Blank space				
(3)	Sync with PC	If this function is set to ON and the SAVE button is clicked, the device's clock will synchronize with that of the connected PC. This setting is enabled when NTP is set to OFF. Initial setting: ON				
(4)	Manual Setting	Set the current time manually. The time is set when the SAVE button is clicked. This setting is enabled when both NTP and Sync with PC are set to OFF.				
(5)	Time Zone	Select the time zone of the location where the device is installed. This location will be set when the SAVE button is clicked. Initial setting: (UTC) Coordinated Universal Time				
(6)	Enable Daylight Saving Time	Checking this box enables daylight saving time correction in time zones where daylight saving time (DST) is applicable. In time zones where daylight saving time is not used, this time correction is not enabled, regardless of whether the box is checked or not. Initial setting: Checked				
(7)	SAVE button	Click to save the settings and changes. (See p. 17.)				

^{*} For more information on the characters or number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

For the setting method, please refer to "CURRENT DATE AND TIME SETTINGS" on p. 14.

Note

By powering the device for a period of 24 hours or more, the time can be retained for approximately 24 hours in an unpowered state. The current time is not retained in such cases as immediately after the device was purchased or if the device has not been powered for long periods of time. Please make sure to set the current time immediately after purchasing and switching ON the device.

23. USABLE CHARACTERS

23.1. Characters That Can Be Used for Names, Authentication ID and Passwords

Target		Max. number of characters	Alphabetical A - Z a - z	Numerical 0 – 9	Allowable symbols	
Login screen	Username	15	✓	✓	×	
	Password	15	~	✓	Symbols cannot be used.	
Network settings screen	Terminal Name	31	✓	~	"-" hyphen "%" percent "_" underscore "@" at sign "~" tilde "A" hat "!" exclamation "[" "]" square bracket "#" hash "{" "}" curly bracket	
SIP settings screen	SIP Server Address	253*	~	✓	"-" hyphen "." dot	
	User ID	31	✓	✓	"-" hyphen	
	Display Name	31	~	✓	"_" underscore	
	Password	31	~	✓	"-" hyphen "%" percent "_" underscore "+" plus "~" tilde "=" equal "," comma "@" at sign "." dot "^" hat "!" exclamation "[" "]" square bracket "#" hash "{" "}" curly bracket	
	Authentication ID	31	~	✓	"-" hyphen "_" underscore	
VMS	Username	15	✓	✓	×	
Broadcasting settings screen	Password	15	✓	✓	Symbols cannot be used.	
Destination settings screen	Group Name	31	~	~	"-" hyphen "%" percent "_" underscore "@" at sign "~" tilde "^" hat "!" exclamation "[" "]" square bracket "#" hash "{" "}" curly bracket "" space	
Pattern settings screen	Pattern Name	15	✓	~	"-" hyphen "_" underscore	
Command List	Command Set Name	31	~	~	"-" hyphen "_" underscore "~" tilde "!" exclamation "#" hash "%" percent "(@" at sign "^" at sign "^" pat sign "^" yat sign	
	URL	2048*	✓	~	"-" hyphen "#" hash "_" underscore "*" asterisk "~" tilde "\$" dollar "," comma "%" percent "." dot "&" ampersand "." colon "+" plus "," semicolon "=" equal "/" slash "@" at sign "" apostrophe "[" "]" square bracket "!" exclamation "{" "}" curly bracket	
	Username	15	✓	✓	×	
	Password	15	✓	✓	Symbols cannot be used.	

Target		Max. number of characters	Alphabetical A – Z a – z	Numerical 0 – 9	Allowable symbols	
User settings screen	Current Username	15	~	✓		
	Current Password	15	~	✓		
	New Username	15	~	✓	× Symbols cannot be used.	
	New Password	15	✓	✓		
	Confirm New Password	15	~	✓		
System settings	NTP Server 1	253*	✓	✓	"-" hyphen	
screen	NTP Server 1	253*	✓	✓	"." dot	
Scheduler	Schedule Settings/Name	31	~	✓	"-" hyphen "_" underscore	
	Category Settings/ Category Name	31	✓	~	"~" tilde "!" exclamation "#" hash "%" percent "@" at sign "^" hat "[" "]" square bracket "(" "}" curly bracket "" space	

^{*} Please note that a maximum of 63 characters can be used for the label.

Tip

Characters that can be used when entering the "Name (Terminal Name)" with the IP settings tool are the same as those used for the [Terminal Name] on the Network Settings screen shown above.

23.2. Characters That Can Be Used for Filenames

Target		Max. number of characters	Alphabetical A – Z a – z	Numerical 0 – 9	Allowe	ed Symbols
Media settings screen	Media file name (*.wav*.mp3)	32*	~	~	"-" hyphen "_" underscore "~" tilde	"%" percent "+" plus "=" equal
Maintenance screen	Config file name (*.spconf)	128*	~	~	"," comma "." dot "!" exclamation "#" hash	<pre>"@" at sign "^" hat "[" "]" square bracket "{" "}" curly bracket</pre>

^{*} File extensions are also included in the total number of characters.

Note

Do not use "space" for all filenames.

Tip

Characters that can be used for filenames when performing "Setting Upload" by means of the IP settings tool are the same as those used for the "Config filename" on the Maintenance screen shown above.

24. THE SCHEDULER

24.1. About the Scheduler Function

24.1.1. Overview

The Scheduler makes possible automatic broadcasts by simply specifying the date and time. It also implements such controls as control output and command transmission. Employing an easy-to-understand user interface, even inexperienced users can operate it intuitively. Additionally, the Scheduler offers a wide variety of editing methods that correspond to various usage conditions, such as batch editing based on schedules, tasks or categories.

24.1.2. Opening the Scheduler Screen

[With Administrator privileges]

Logging in with Administrator privileges displays the settings screen. Click on the Scheduler button at the upper right to display the Scheduler screen.

[With User privileges]

With the Login screen displayed, log in with User privileges to display the Scheduler screen.

Tip

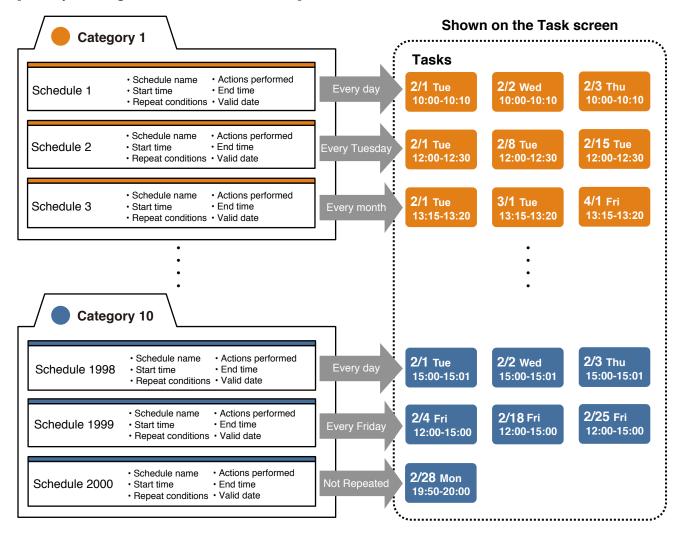
With User privileges, new schedules can be created or schedules edited on the Scheduler screen. However, since changes cannot be made using the Settings screen, such operations as replacing sound source files or changing pattern configurations are not possible. These settings can only be changed with Administrator privileges.





24.1.3. Scheduler Conceptualization and Description of Terms

[Conceptual diagram of Scheduler functions]



[Description of Terms] Schedules:

The schedule includes setting information related to actions to be executed, as well as the date and time of the execution or repeat conditions.

Schedules are created based on the actions to be performed, with the schedule name, start/end times and similar parameters set using the Edit Schedule screen. In a schedule, programs for each day/week/month can be enabled on a regular basis, or specific days can be enabled for Repeat settings. Conversely, some of regularly enabled days can also be disabled.

Up to 2,000 schedules can be created. Schedules set to "Endless" in the Repeat settings are continuously retained. However, data for executed schedules (i.e., schedules not set to repeat or those that have passed their last date) is only retained until the end of the month following the last day, and then automatically deleted.

Tasks

Tasks are composed of executable data and contain all pertinent date information that is automatically created by the schedule. Tasks are created for valid dates set in the schedule's Repeat settings, and are displayed on the Task display screen in the colors set for the category. If a task is deleted, the task day is made invalid from the original schedule, and if a task is reedited, a new schedule, separate from the original schedule on which it is based, is created.

If a higher priority task is simultaneously enabled, or a task overlaps others with the same sound source, such unexecuted tasks are shown in gray. Data for completed tasks are kept until the end of the next day, after which they are automatically deleted.

Categories

Categories are used to classify schedules. Each of the Scheduler's 10 categories can be assigned a name and color on the Edit Category screen. Repeat settings for all category-classified schedules can also be batchedited using the Edit Category Repeat screen. Categories can be utilized by classifying them as follows:

- Collect all of a day's schedules into a single category (e.g., weekday schedule or holiday schedule, etc.)
- Collect all schedules linked by the same Repeat conditions into a single category (e.g., contact output ON/ OFF, command start or end, etc.).
- Classify categories by sound source or associated action (e.g., chime, background music, command transmission, etc.).
- Classify categories by broadcast destination (e.g., indoor or outdoor areas, elementary, middle or high school, etc.)

24.2. Scheduler Screen



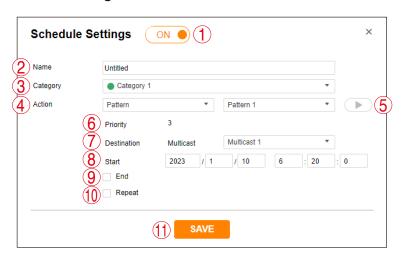
	Item	Contents
(1)	Calendar	Clicking on a date switches the Task screen to a display of the week that includes the date. A date with a circle () at the bottom indicates that the task has been registered, notifying that actions will automatically be executed on that date. The monthly camera display can be switched by clicking on the [Today] [<] [>] buttons.
(2)	Schedule List	Displays a list of all registered schedules. All schedules are classified by category and registered. When a category is clicked on and opened, all of the schedules assigned to it can be viewed. Schedules are listed from top to bottom in chronological order. The total number of registered schedules is displayed at the bottom of the list. Selected schedules are visible in orange, and disabled (OFF) schedules are shown in gray. No tasks can be initiated by disabled schedules. Clicking on a schedule displays its Schedule Details screen.
(3)	Edit Category Button	Displays the Edit Category screen, which allows the name and color to be set for each category. Repeat settings can also be batch-edited for all schedules registered in a category.
(4)	New Schedule Button	Creates a new schedule. Click on this button to display the Edit Schedule screen.
(5)	Task Screen	Displays all the scheduled tasks to be initiated on each date. All tasks for the week are displayed in the colors of their classified category. The weekly display can be changed by clicking on the [Today] [<] [>] buttons. Clicking on an area where no task is visible will display the Edit Schedule screen, where a new schedule can be created. Clicking on a task displays the Task Details screen, which permits confirmation of the tasks to be executed, editing or deleting of selected tasks, and editing or deleting of entire schedules, including the selected task. Tasks shown in gray indicate inoperative tasks.

	Item	Contents
(6)	Status/Destination Display	Displays the device's operating status. During broadcasts, the current sound source is shown in the "Status" area, while all broadcast destinations are displayed in the "Destination" area.
(7)	Current Date and Time Display	Provides an indication of the device's current date and time.
(8)	Settings Button	Pressing this button switches the current screen to the Settings screen. This screen is used to change sound source patterns or select scheduled broadcast destinations.
(9)	LOGOUT Button	Click this button to log out after schedule confirmation or registration is completed. After logging out, the Log In screen is again displayed.

24.3. Creating a New Schedule

New schedules can be created on the Schedule Settings screen by either clicking on the "New Schedule" button or clicking on a blank area on the Task screen.

Schedule Settings screen



	Item	Contents				
(1)	ON/OFF Button	ON: The schedule is enabled. The task will be created when the schedule is saved. OFF: The schedule is disabled. When saved, the schedule will appear grayed out in the Schedule list and no tasks can be created. Default Setting: ON				
(2)	Schedule Name*	Set the schedule name. The same schedule name can also be assigned to multiple schedules. Each schedule is displayed with the preset name appearing in the Schedule List or on the Task screen. Default Setting: Untitled				
(3)	Category	Select the category into which the schedule will be classified. Setting Range: Category 1 – 10 Default Setting: Category 1				
(4)	Actions	Set the actions to be executed in the schedule. The available setting parameters change for each selected action. Pattern: Executes pattern broadcasting using the internal sound source. The pattern name set on the Pattern Registration screen will be displayed. Setting Range: Pattern: 1 – 20				
		LINE/MIC IN: Executes broadcasts of the audio received through the LINE/MIC input. Control Out: Turns the control output ON or OFF.				
		Setting Range: ON / OFF Command: Executes the command set on the Command List screen. The command set name will be displayed. Setting range: Command Set: 0 – 9 Default Setting: Pattern / Pattern 1				
(5)	Sound Source Playback Button	Appears when Pattern is set as the Action. This is used to play back the sound source assigned to the pattern on a PC, thus allowing its confirmation as an audio output. Tip This is not the button for executing broadcasts.				

^{*} For the type and number of characters that can be used in the settings, please refer to "USABLE CHARACTERS" on p. 60.

	Item	Contents
(6)	Priority	If either Pattern or LINE/MIC input is set for the Action, the priority number for the broadcast source set on the Broadcast Priority Setting screen is displayed. The highest priority is Number 1, and the higher the number, the lower the priority. If multiple tasks are registered for the same time frame, the task with the highest priority will be executed according to the priority number.
(7)	Broadcast Destination	Setting either Pattern or LINE/MIC input for the Action further enables the setting of the broadcast destination. The group name of the multicast transmission channel set on the Broadcast Destination Setting screen will be displayed. Setting Range: Multicast 1 – 20 Default Setting: Multicast 1
(8)	Start Time	Set the start date and time for execution of the schedule. Schedules that only have the start time set are enabled by the edge trigger*. If Pattern is selected for the Action, the pattern broadcast is only executed once. If a higher priority broadcast is enabled during this pattern broadcast, the pattern broadcast will not be resumed. If Control Out or Command is selected as the Action, only the start time can be set.
(9)	End Time	Set the time for the schedule to end. A start-to-end duration can be set with the range of less than 24 hours. If the end time is set to precede the start time, the broadcast will continue until the registered end time comes around again on the following day. Schedules with set end times are initiated by the level trigger*. When Pattern is selected as the Action, the pattern broadcast is continuously repeated from the preset start time to the preset end time. If another broadcast with a higher priority is enabled during this period, the pattern broadcast will resume after the higher priority broadcast is finished. When LINE/MIC input is selected as the Action, the audio from the LINE/MIC input will be continuously broadcast during the preset start-to-end time period. If another broadcast with a higher priority is made during this period, the LINE/MIC audio broadcast will resume after the higher priority broadcast is finished.
(10)	Repeat Settings	Checking this box will display the Edit button, allowing the setting of repeat conditions of the schedule. If the Edit button is clicked, the Repeat Settings screen is displayed (see p. 69). For single operation schedules, be sure this box is unchecked. Default Setting: Unchecked (Repeat setting disabled)
(11)	Save Button	Saves the edited contents of the schedule and closes the Edit Schedule screen.

^{*} For details regarding Edge- and Level-triggered operations, please refer to the description of the operating sequence in "EVENT SETTINGS SCREEN" on p. 41 and "PRIORITY SETTINGS SCREEN" on p. 44.

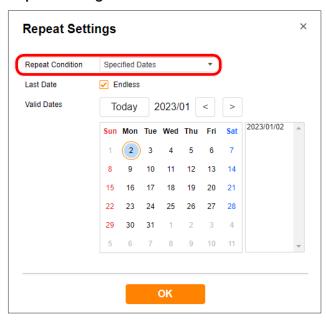
The setting items for each action are as follows:

Action	Pattern	LINE/MIC input	Control output	Command	
Option for action	Pattern 1 –	_	OFF	Command Set 0 -	
Option for action	Pattern 20	_	ON	Command Set 9	
	,	/			
Priority	Display of the priority	y number of the	_	_	
	Priority screen				
Broadcast	Multicast 1 _	· Multicast 20	_	_	
destination	ividiticast i –	Wallicast 20	_		
Start time	✓				
End time	✓				
End time	Arbitrary setting	•			
Repeat setting	✓				
nepeat setting	Arbitrary setting				

24.3.1. About the Repeat Settings Screen

Checking the Repeat box displays the Edit button. Clicking the Edit button displays the Repeat Settings screen, and the type of schedule repetition can be set according to Repeat conditions.

Repeat Settings screen



The following 4 options can be used for Repeat conditions. The default setting is "Specified Date."

Note

The valid date setting is reset if repeat conditions are changed and saved.

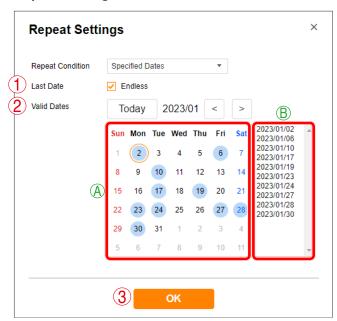
Item	Contents
Specified Date	Select this option when repeating schedules on an irregular basis. Set any valid date from the calendar to execute the schedule.
Every Day	Select this option to execute the schedule every day. Every day on the calendar will be displayed as a valid date. Furthermore, clicking on a valid day will disable it, also making it possible to select specific days not to run the schedule.
Every Week	Select this option when executing the schedule every week by specifying the day of the week. The day (or days) of the week checked in the Day of the Week setting is displayed as a valid day (the days that the Task is enabled when saved). Furthermore, any day can be set as a valid or invalid day by clicking on a day on the calendar.
Every Month	Select this option when executing the schedule on the same date of every month. The date checked in the Date setting will appear as the valid date (the date that the Task is enabled when saved). Furthermore, any date can be set as a valid or invalid date by clicking on a date on the calendar.

The setting contents for each selected Repeat Condition are as follows:

[When set to "Specified Date"]

Any valid date can be specified for a Repeating schedule.

Repeat Settings screen

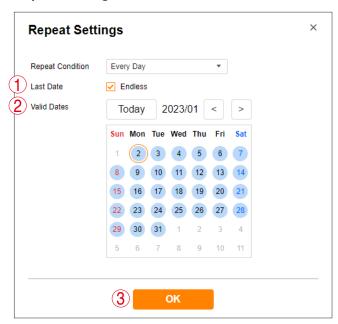


	Item	Contents
(1)	Last Repeat Date	If the last date is not to be specified, click the "Endless" checkbox. When "Endless" is enabled, the schedule will continuously initiate tasks without being automatically deleted. The last day of a Repeat schedule can be set by unchecking the Endless checkbox. Data is then retained until the end of the month following the last day, after which it is automatically deleted. Default Setting: Endless (Checked)
(2)	Valid Date	(A) Calendar Clicking on a calendar date makes it possible to select a valid date to execute the schedule (the date that the task will be initiated when saved), as well as the date(s) when the schedule will not be executed. Dates set for schedule execution are marked with a circle (). Dates following a Repeat cycle's Last Date cannot be set as valid dates. The monthly calendar display can be changed by clicking on the [Today] [<] [>] buttons. (B) Valid Date List Clicking on a calendar date displays it with a circle (), and adds it to the valid date list. The maximum number of selectable valid dates is 400.
(3)	OK Button	Click to confirm all changes made in the Repeat settings and return the display to the Edit Schedule screen.

[When set to "Every Day"]

Schedules can be repeated daily.

Repeat Settings screen

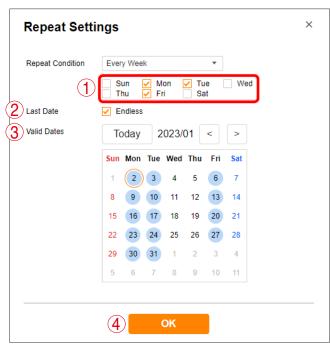


	Item	Contents
(1)	Last Repeat Date	If the last date is not to be specified, click the "Endless" checkbox. When "Endless" is enabled, the schedule will continuously initiate tasks without being automatically deleted. The last day of a Repeat schedule can be set by unchecking the Endless checkbox. Data is then retained until the end of the month following the last day, after which it is automatically deleted. Default Setting: Endless (Checked)
(2)	Valid Date	Calendar All the dates on the calendar are displayed as valid dates (dates that tasks can be initiated when saved). Selected valid dates for schedule execution are marked with a circle (). Also, any date can be made Valid or Invalid by simply clicking its date on the calendar. Dates following a Repeat cycle's Last Day cannot be set as valid dates. The monthly calendar display can be changed by clicking on the [Today] [<] [>] buttons.
(3)	OK Button	Click to confirm all changes made in the Repeat settings and return the display to the Edit Schedule screen.

[When set to "Every Week"]

Schedules can be repeated weekly on selected days of the week.

Repeat Settings screen

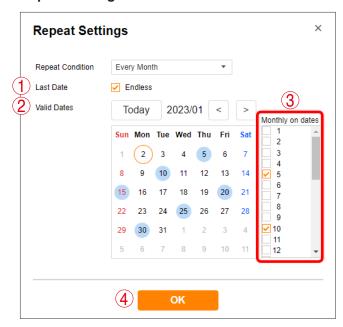


	Item	Contents
(1)	Day of the Week Settings	Checked days of the week can be set as valid days.
(2)	Last Repeat Date	If the last day is not to be specified, click the "Endless" checkbox. When "Endless" is enabled, the schedule will continuously create tasks without being automatically deleted. The last day of a Repeat schedule can be set by unchecking the Endless checkbox. Data is then retained until the end of the month following the last day, after which it is automatically deleted. Default Setting: Endless (Checked)
(3)	Valid Date	Calendar The days checked in the Day of the Week settings are displayed as valid dates (dates that tasks can be initiated when saved). Selected valid dates for schedule execution are marked with a circle (). Also, any day can be made Valid or Invalid by simply clicking its date on the calendar. Dates following a Repeat cycle's Last Date cannot be set as valid dates. The monthly calendar display can be changed by clicking on the [Today] [<] [>] buttons.
(4)	OK Button	Click to confirm all changes made in the Repeat settings and return the display to the Edit Schedule screen.

[When set to "Every Month"]

Schedules can be repeated monthly on selected dates.

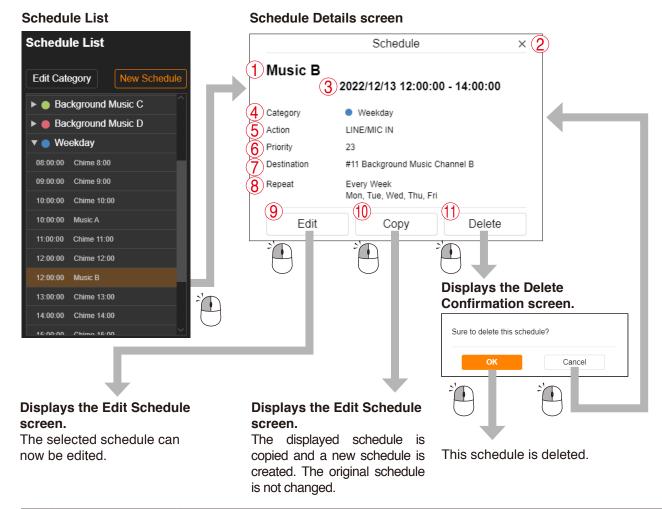
Repeat Settings screen



	Item	Contents
(1)	Last Repeat Date	If the last date is not to be specified, click the "Endless" checkbox. When "Endless" is enabled, the schedule will continuously create tasks without being automatically deleted. The last day of a Repeat schedule can be set by unchecking the Endless checkbox. Data is then retained until the end of the month following the last day, after which it is automatically deleted. Default Setting: Endless (Checked)
(2)	Valid Date	Calendar The dates checked in the Date Settings are displayed as valid dates (dates that tasks can be initiated when saved). Selected valid dates for schedule execution are marked with a circle (). Also, any date can be made Valid or Invalid by simply clicking its date on the calendar. Dates following a Repeat cycle's Last Date cannot be set as valid dates. The monthly calendar display can be changed by clicking on the [Today] [<] [>] buttons.
(3)	Date Settings	Checked dates can be selected as valid dates for monthly Schedule repetition.
(4)	OK Button	Click to confirm all changes made in the Repeat settings and return the display to the Edit Schedule screen.

24.4. Check/Edit/Delete Schedules

Details of all registered schedules can be confirmed on the Schedule list. Display the Schedule Details screen to edit or delete a schedule.



	Item	Contents
(1)	Schedule Name	The selected schedule name is displayed.
(2)	× Button	Closes the Schedule Details screen. The screen can also be closed by clicking anywhere outside it.
(3)	Set Date and Time	Displays the Schedule's start date and its start and end times. Only the start time is displayed for Schedules that only have the start time set. For Schedules that extend over a period of 2 days, the end time is displayed along with the date of the following day.
(4)	Category	Displays the name and color of the category into which the schedule is classified.
(5)	Actions	Displays the action to be executed in the schedule. Pattern (Pattern Name) LINE/MIC IN Control Out (ON or OFF) Command (Command Set Name)
(6)	Priority	When a pattern or LINE/MIC input is set for schedule action, the priority number is displayed for the broadcast source, which was set on the Broadcast Priority Setting screen. The highest priority is Number 1, and the higher the number, the lower the priority. If multiple tasks are registered for the same time frame, the task with the highest priority will be executed according to the priority number.

	Item	Contents	
(7)	Broadcast Destination	Displays the broadcast destination when either Pattern or LINE/MIC input is set for schedule action. The group name of the multicast transmission channel set on the Broadcast Destination Settings screen will be displayed.	
(8)	Repeat Setting	Displays the status of the schedule's Repeat setting. Disable: Repeat setting is invalid. Specified Date: Refers to a state during which Repeat schedule dates have been arbitrarily set. The last valid date is displayed. Every Day: Schedules are set to be repeated daily. The last valid date is displayed. Every Week: Schedules are set to be repeated weekly. The valid days of the week are displayed. Every Month: Schedules are set to be repeated monthly. The valid dates are displayed.	
(9)	Edit Schedule Button	Clicking on this button displays the Edit Schedule screen, allowing the schedule's settings to be edited.	
(10)	Copy Schedule Button	Clicking on this button copies the currently displayed schedule and creates a new schedule. The copied source schedule remains unchanged.	
(11)	Delete Schedule Button	Clicking this button displays the Delete Confirmation screen, with which the selected schedule can be deleted.	

24.5. Task Display and Operation

By editing and saving schedules, tasks can be created and placed on the Task screen. Shown below are descriptions of the task display status and Action operations that can be executed:

24.5.1. Display of an Edge-Triggered Task

The term edge-triggered task refers to tasks with only start times set.

	Valid Tasks	Invalid Tasks
	Tasks to be executed at start time. Displayed in classified category colors.	Tasks not executed. Displayed in gray.
	08:00:00 Message	08:00:00 Chime
Pattern	Broadcasts based on preset patterns are initiated at start time. Pattern broadcasts are only executed once, in accordance with the presets (sound source, number of times, interval, delay time, etc.), which are selected on the Pattern Settings screen. If the current pattern broadcast is interrupted by a higher priority broadcast (initiated by manual operation or remote API), the lower priority pattern broadcast will stop, and not resume when the higher priority broadcast ends.	Conditions that may cause tasks to be grayed out are: (1) Cases where the task is not executed due to conflicting broadcast priorities A higher priority broadcast may supersede a lower-priority task, which is then grayed out. (2) Cases where multiple tasks of the same priority are simultaneously initiated When two or more tasks simultaneously execute the same pattern (same sound source/priority), both tasks are displayed in gray.
Control Output	The control output is turned ON (or OFF) at start time.	When two or more tasks simultaneously execute the same control output, both tasks are displayed in gray.
Command	Preset commands are transmitted at start time.	When two or more tasks simultaneously execute the same command, both tasks are displayed in gray. Even if multiple tasks execute different command sets, they are grayed out if they are simultaneously enabled.

24.5.2. Level-Triggered Task Display

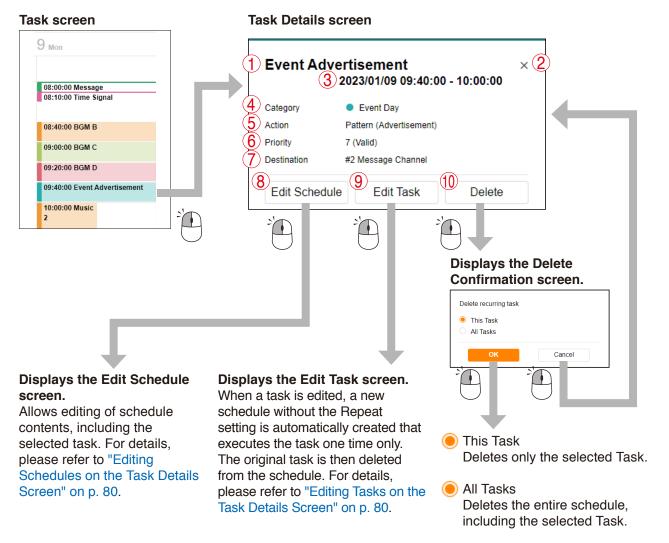
The term level-triggered task refers to tasks that continuously broadcast during the entire start-to-end time period.

	Valid Tasks	Invalid Tasks
	Tasks that are executed during the start-to- end time period. Displayed in classified category colors.	Tasks not executed. Displayed in gray.
	09:00:00 BGM C	A
Pattern	Broadcasts based on preset patterns are continuously transmitted during the entire start-to-end time period. During this period, pattern broadcasts are played back repeatedly in accordance with the pattern's presets (sound source, interval, delay time, etc.), which are selected on the Pattern Settings screen. If the current pattern broadcast is interrupted by a higher priority broadcast (initiated by manual operation or remote API), the pattern broadcast stops, then resumes when the higher priority broadcast ends (during the pattern's preset period).	Conditions that may cause tasks to be grayed out include: (1) Cases where the task is not executed due to broadcast priority When another task with a higher priority is initiated during the entire start-to-end time period and no time is left for broadcasting*, the task with the lower priority is displayed in gray. (2) Cases where a task of the same priority is executed first When a task with the same priority (same sound source) is executed first, priority is given to the first-initiated task
LINE/MIC Input	Analog audio connected to the LINE/MIC input can be continuously broadcast during the start-to-end time period. If the broadcast is interrupted by a higher priority broadcast (initiated by manual operation or remote API), the broadcast from the LINE/MIC input stops, then resumes when the higher priority broadcast ends (during the preset period).	while the later-initiated task is displayed in gray. (3) Cases where tasks of the same priority are simultaneously initiated When broadcasting tasks of the same priority (same sound source) are simultaneously initiated, both tasks are displayed in gray. * If even a minimal amount of time is left available for broadcasting, the task is not grayed out.

24.6. Confirm/Edit/Delete Tasks

Clicking on a task on the Task screen displays the Task Details screen, which allows the details of the task to be confirmed.

Tasks and schedules can also be deleted or edited whenever the Task Details screen is displayed.



	Item	Contents
(1)	Schedule Name	The selected task name, which is the same as the schedule name, is displayed.
(2)	× Button	Closes the Task Details screen. The screen can also be closed by clicking anywhere outside it.
(3)	Set Date and Time	Displays the task's start date and its start and end times. Only the start time is displayed for tasks that only have the start time set. For tasks that extend over a period of 2 days, the end time is displayed along with the date of the following day.
(4)	Category	Displays the name and color of the category into which the schedule is classified.
(5)	Actions	Displays the action to be executed in the task. Pattern (Pattern Name) LINE/MIC IN Control Out (ON or OFF) Command (Command Set Name)

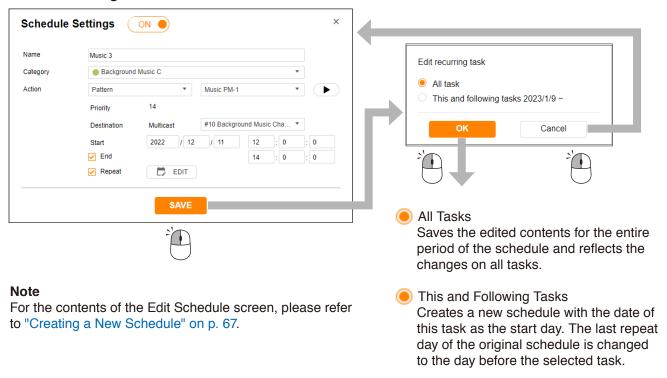
	Item	Contents
(6)	Priority	When a pattern or the LINE/MIC input is set for task action, the priority number of the broadcast sound source (selected on the Broadcast Priority Settings screen) is displayed. The highest priority is Number 1, and the higher the number, the lower the priority. If multiple tasks simultaneously conflict with each other, only the broadcast with the highest priority is allowed to transmit, as determined by its priority number. The task's current status and other information can be seen next to the priority number. Valid: The highest priority task (among conflicting tasks) that is permitted to broadcast for its entire duration. Partially Valid: Tasks that are interrupted by other broadcasts but are resumed for the remaining period of time. Invalid: Lower priority tasks (among the conflicting tasks) that are not permitted to broadcast in its entire duration (and are displayed in gray).
(7)	Broadcast Destination	Displays the broadcast destination when either Pattern or LINE/MIC input is set for schedule action. The group name of the multicast transmission channel set on the Broadcast Destination Settings screen will be displayed.
(8)	Edit Schedule Button	Clicking on this button displays the Edit Schedule screen, which allows the entire schedule to be edited, including the selected task.
(9)	Edit Task Button	Clicking on this button displays the Edit Task screen, allowing only the one selected task to be edited. When a task is edited, a new schedule without the Repeat setting is automatically created that executes the task one time only. The original task is then deleted from the schedule.
(10)	Delete Button	Clicking on this button displays the Delete Confirmation screen, with which the task or schedule can be deleted. Select whether to delete only the selected task or the entire schedule (all tasks) including the selected task, then delete.

24.6.1. Editing Schedules on the Task Details Screen

Click on the Edit Schedule button located on the Task Details screen to edit all schedules that contain this task. The following can be selected for editing:

- (1) Edit the schedule for an entire operating period.
- (2) Edit subsequent schedules with the selected task as the start date.

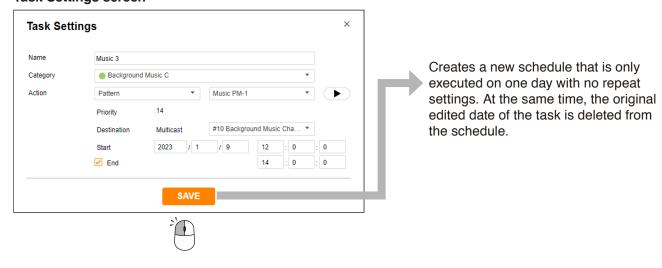
Schedule Settings screen



24.6.2. Editing Tasks on the Task Details Screen

The selected task can be edited by clicking the Edit Task button on the Task Details screen. This only edits the task for the selected day. A new schedule is created, which is only executed on one day with no repeat settings.

Task Settings screen



24.7. Editing the Category

Clicking the Edit Category button displays the Edit Category screen, allowing the following edits:

- (1) Change of the category display color.
- (2) Change of category name
- (3) Batch change of repeated settings for all schedules classified into each category.

Tip

Batch editing of Repeat settings is only applicable to schedules that have been set to ON (enabled), with the "Repeat" setting enabled (checked).

Category Settings screen Repeat Settings for Multiple Schedules screen **Category Settings** Repeat Settings for Multiple Schedules Repeat Condition Repeat Settings No Change Valid Dates Message 🛱 Edit < > Today 2023/01 🛱 Edit Time Signal Sun Mon Tue Wed Thu Fri 🛱 Edit Background Music A Background Music B 🛱 Edit 11 12 13 14 Background Music C 🛱 Edit (17) 19 20 21 🛱 Edit Background Music D (23) 25 26 27 28 🛱 Edit 30 31 🛱 Edit Holiday 🛱 Edit Event Day 🛱 Edit Send Command SAVE

	Item	Contents
(1)	Category Color	Select the display color of all the schedules and tasks that belong to a category. The color can be selected from among 10 different colors, and the same color can also be set for different categories.
(2)	Category Name*	Set the displayed name of the category. The same name can also be assigned to multiple categories. The category is displayed in the schedule list or for any task with the set name. Default Setting: Category 1 – Category 10
(3)	Repeat Settings Batch Edit Button	Pressing this button opens the Repeat Settings screen, making it possible to batch-edit the repeat settings of all the schedules in a category. Note Only those schedules set to ON (enabled) that have the Repeat Settings box checked can be batch-edited.

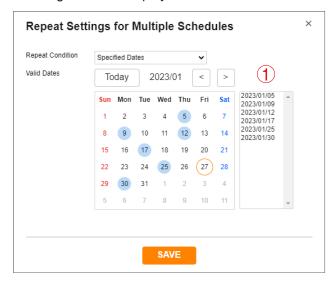
^{*} For the types of characters and number of characters that can be set, please refer to "USABLE CHARACTERS" on p. 60.

	Item		Contents
(4)	Repeat Conditions (Repeat Condition)		Repeat conditions of all schedules that belong to a category. ch schedule's Repeat conditions without change, select "No : No Change
		If the Repeat conditions are changed and saved, the Valid Date settings for all schedules in the same category will be reset. For schedules in which the Valid Dates aren't to be changed by batch editing, please move these schedules to another category in advance.	
		No Change:	Maintains the original Repeat conditions for each schedule without changing them. Valid Dates can only be added or deleted by Calendar operation.
		Specific Date:	·
		Every Day:	Changes all schedules to daily operation. All the days in the calendar become Valid Dates. Furthermore, any day can be made Valid or Invalid by Calendar operation.
		Every Week:	Changes all schedules so that they are executed on the specific days each week. The days checked in the Day of the Week settings then become Valid Dates. Furthermore, any day can be made Valid or Invalid by Calendar operation.
		Every Month:	Changes all schedules so that they are executed on the same date(s) every month. The dates checked in the Date settings then become Valid Dates. Furthermore, any date can be made Valid or Invalid by Calendar operation.
(5)	Valid Date		s displayed with the following marks to show the status of all
		: Da ca	belong to a category: ays when tasks are enabled by all of the schedules in the tegory (complete match) ays when tasks are enabled by some of the schedules in the
		Unmarked: Da	tegory (partial match) lys when no tasks are enabled by any schedule in the
		By clicking on batch-set for a	tegory (complete match) a date on the calendar, Valid and Invalid Dates can be ill schedules that belong to a category. The monthly calendar changed by clicking on [Today][<][>].
		For schedules	where the last Repeat day (Last Date) is set, no dates after repetition can be selected as Valid Dates.

24.7.1. About Category Editing Using the Repeat Settings for Multiple Schedules

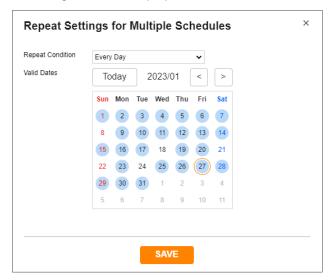
<When arbitrarily selecting Valid Dates to repeat>

If the Repeat condition is set to "Specified Dates," the following screen is displayed:



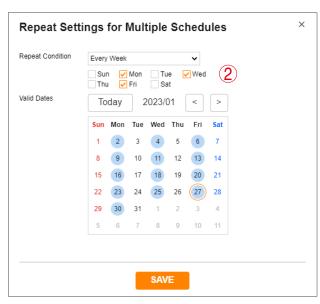
<For Daily Repeats>

If the Repeat condition is set to "Every Day," the following screen is displayed:



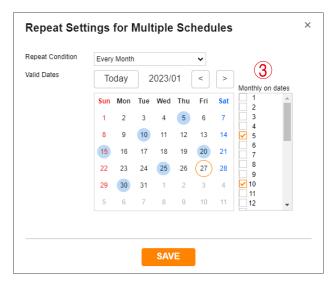
<When specifying the day of the week and repeating every week>

If the Repeat condition is set to "Every Week," the following screen is displayed:



<When specifying the date and repeating every month>

If the Repeat condition is set to "Every Month," the following screen is displayed:



	Item	Contents
(1)	Valid Date List	This list is displayed if "Specified Date" is selected. If a date on the calendar is clicked, the calendar date is shown marked with , and it is added to the Valid Date list. The maximum number of Valid Dates that can be specified is 400 days.
(2)	Day of the Week Settings (Sun – Sat)	This screen is displayed if the Repeat conditions are set to "Every Week." The checked days of the week can be selected as Valid Dates.
(3)	Date Settings (Monthly on Dates)	This screen is displayed if the Repeat conditions are set to "Every Month." The checked dates can be selected as the Valid Dates of every month.

24.8. Schedule Setting Error Messages

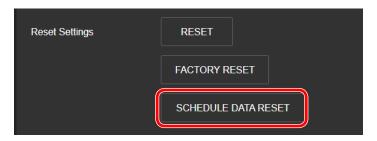
The following error messages may be displayed during Schedule editing. Please refer to What to Do to correct the errors.

Error Message	Error Contents	What to Do
The number of schedules exceeds 2000. Please delete old schedules.	Schedule data volume exceeds 2,000 entries.	Delete old schedules in order to reduce total volume to under 2,000 entries.
The number of days you have entered on the 'Valid Date' calendar has exceeded 400 days. Please create new schedule.	Except for regular valid dates, a total of up to 400 days can be set for each Schedule, including individually designated valid dates and regular valid dates that have individually been made invalid. The total number of individually set days exceeds 400.	Reselect no more than 400 dates from the Repeat settings calendar.
Please set Last Date later than the date of Start.	The last repeat date has been set to sometime before the start date of the schedule.	Change the last repeat date of the schedule to a valid date.
Failed to change schedule data. This schedule data has already been deleted. Please refresh this page.	The schedule data being edited may have been deleted for some reason.	Click OK button and refresh the screen.

24.9. Schedule Data Reset

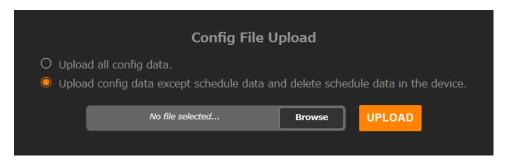
The SCHEDULE DATA RESET button located on the Maintenance screen resets only the Schedule data. No other settings are reset or initialized.

For details, please refer to "MAINTENANCE SCREEN" on p. 50.



24.10. Uploading the Configuration File (minus Schedule data)

All configuration file data except Schedule data can be uploaded. For details, please refer to "Uploading Setting File" on p. 52.



If [Upload config data except schedule data and delete Schedule data in the device.] is selected and the Configuration file is uploaded, all configuration data except the Schedule data is applied to the uploaded Configuration file. If Schedule data has already been registered to the device, the device's Schedule data will be deleted.

25. IP SETTING TOOL

The IP Setting Tool allows multiple devices to be efficiently set up. It also makes it possible to save the setting contents to the PC or upload to the device settings contents stored on the PC. Using this function, the same settings can also be duplicated onto multiple devices. Only use the IP Setting Tool while both the PC and the device are connected to the same network segment. (See "CONNECTION WITH BROWSER" on p. 13.)

25.1. Before Using:

On the TOA DATA Library (https://www.toa-products.com/international/), perform a search for the product number of the device and download the "IPSettingTool.exe" IP Setting Tool. The following shortcut icon appears on the desktop:



25.2. Starting the IP Setting Tool

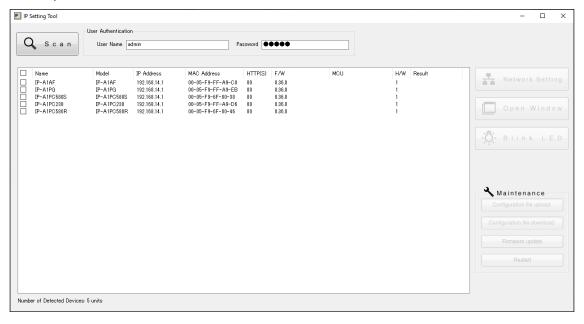
Double-click on the "IPSettingTool.exe" icon.

Notes

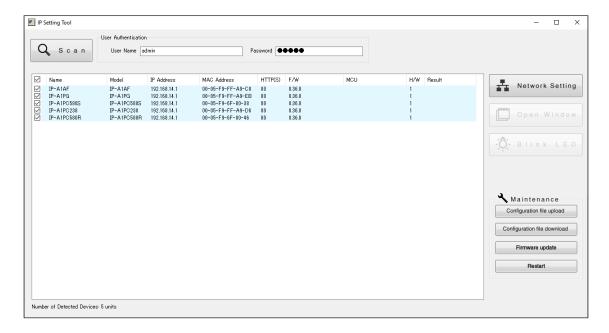
 When the PC has access to multiple network adapters, the confirmation screen as shown at right is displayed. Select the network adapter that can be connected to the device and click on the OK button.



 When the IP Setting Tool is enabled and all connected IP Audio devices are automatically detected and displayed in the list, as shown in the following screen, the right-side buttons appear grayed-out and are rendered inoperative.



Selecting any device in the list by marking its corresponding checkbox activates its right-side button, thus making it possible to click on.

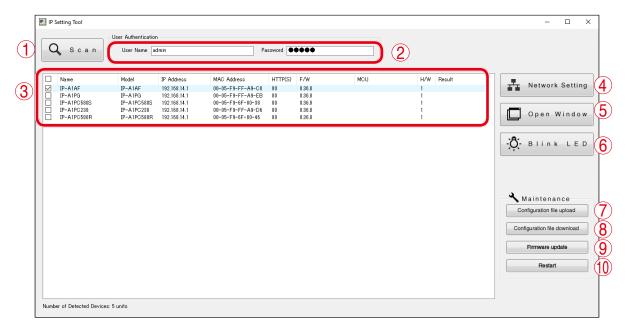


25.3. Setting Method

25.3.1. Display Contents

Notes

- Perform Items (4) and (10) after selecting the device by marking the checkbox in the Detection Results list.
- The operation results for Items (4), (6) to (10) are displayed in the Results field of the Detection Results list.
- · Devices currently in Restart mode are not displayed.



(1) Scan button

Click on this button to detect all IP Audio devices connected to the network. All connected devices are individually detected each time the button is clicked.

(2) Username and Password

Enter the username and password of the device to be operated. When the IP Setting Tool starts up, the device's default values (Username: admin; Password: guest) are entered.

Note

Login to the device cannot be authenticated with the user name or password entered for User privileges.

(3) Detection Results list

Displays a list of detected devices.

(4) Network Setting button

Clicking on this button displays the Network Settings screen. (See "Network Settings" on p. 89.)

(5) Open Window button

Clicking on this button causes the browser to start up, displaying the Login screen for the selected device. (See "CONNECTION WITH BROWSER" on p. 13.)

(6) Blink LED button

When clicked, the status indicator for the selected device flashes 3 times.

(7) Configuration file upload button

Click on this button to upload the settings file from the PC. The same settings file can also be simultaneously uploaded to multiple devices. For details, please refer to "Uploading Settings Files" on p. 92.

(8) Configuration file download button

Click on this button to download the settings file to the PC. The downloaded settings file can be used as the original file when uploading the same settings file to multiple devices. For details, please refer to "Downloading Settings Files" on p. 93.

(9) Firmware Update button

Click on this button to update the device's firmware. The same firmware update can also be simultaneously carried out on multiple devices. For details, please refer to "Firmware Update" on p. 94.

(10) Restart button

Click on this button to restart the selected device(s).

25.4. User Authentication

Step 1. Enter the username and password.



Enter the username and password set for the detected device.

When setting up an unconfigured or initialized device, enter the following username and password:

Username: admin Password: guest

Tip

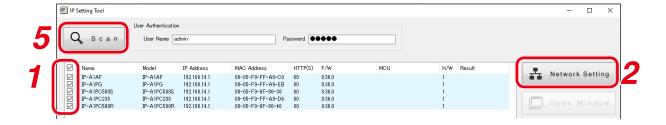
To change the setting contents of the device(s) detected by the IP Setting Tool, the user authentication requirements of each device must be met.

Step 2. Click on the Scan button.

All detected devices are displayed on the Detection Results list, enabling the operation of buttons (4) to (10).

25.5. Network Settings

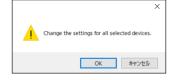
Perform all network settings, including the IP address, etc.



- **Step 1.** Select the device(s) for which network settings will be performed by marking the corresponding checkbox in the Detection Results list.
- Step 2. Click on the Network Setting button.

When only one device is selected, the Network settings screen for Single Setting is displayed.

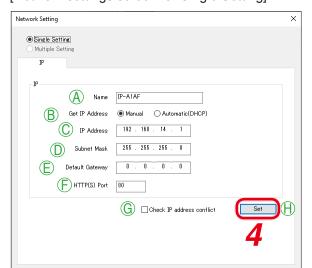
When multiple devices are selected, the following confirmation dialog box is displayed. Clicking on the OK button displays the Network settings screen for Multiple Setting.



Step 3. Perform network settings.

Set the necessary items on the Single Setting or Multiple Setting screen.

[Network settings screen for Single Setting]



[Network settings screen for Multiple Setting]



	Item	Contents	
A	Name	Set the terminal name. Initial setting: (Product number) Note Names cannot be set in Multiple Setting. After all other Multiple Setting items have been set, go back and set only the name individually. Tips • For usable characters, please refer to "USABLE CHARACTERS" on p. 60. • Max: 31 characters	
В	IP Address Acquisition	Set the method for acquiring the IP address. Initial setting: Manual Note The device is not compatible with DHCP. Always select Manual, and manually enter the device's network address.	
С	IP Address	Set the device's IP address. In the case of Multiple Setting, since the IP addresses have consecutive numbers, these are automatically set for all devices. Therefore, enter the smallest numerical value in the left-side field. The IP address of the last consecutive number is displayed in the field at right. Initial setting: 192.168.14.1	
D	Subnet Mask	Set the subnet mask. Initial setting: 255.255.25.0	
Е	Default Gateway	Set the default gateway. Initial setting: 0.0.0.0	
F	HTTP port	Set the device's HTTP server port number. Usually, this port is used in its initial setting state. Setting range: 80 and 10000 – 40000 Initial setting: 80	

	Item	Contents
G	Confirm IP address conflict	Mark the checkbox to confirm whether there are any conflicting IP addresses. Tips • Even if the checkbox for the item "Confirm IP address conflict" is marked, certain conflicts related to network IP addresses that are different from the network adapter in use cannot be confirmed. • When an IP address conflict is detected, the indication "IP address conflict" appears in the display screen's Results field.
Н	Set	Click on this button to finalize the set contents.

Step 4. Click on the Set button.

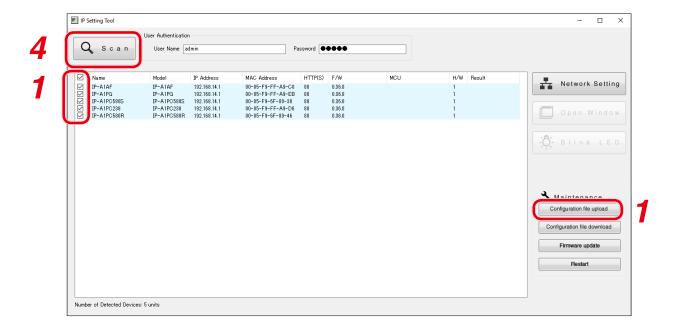
This completes the network settings.

The Network settings screen closes and the device automatically restarts.

Step 5. Click on the Scan button.

The display screen is updated.

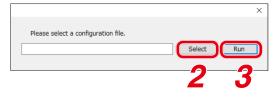
25.6. Uploading Settings Files



Notes

- · Performing uploads during a broadcast will stop current broadcasts.
- The Configuration file (excluding Schedule data) cannot be applied using the IP setting tool.
- **Step 1.** Select the devices and click on the Configuration file upload button. The file selection screen is displayed.
- **Step 2.** Click on the Select button and select the settings file (extension ".spconf") to be uploaded.
- Step 3. Click on the Run button.

Settings file upload begins. After upload is complete, the indication "OK" is displayed in the Results field, followed by automatic restart.



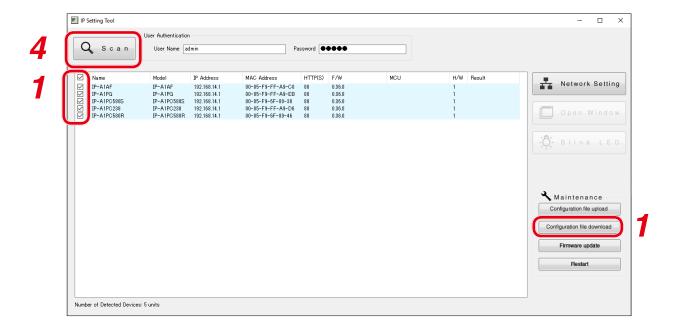
Step 4. Click on the Scan button.

The display screen is updated.

Notes

- Do not restart the device or turn off power during settings file upload.
- If the device is restarted or power is turned off during upload, the settings file could become corrupted, potentially making it impossible to start the device.
- Under circumstances in which the load on the network is high, the indication "No response" may be displayed in the Results field of the Detection Results list. In such cases, simply wait for a while. However, if the Result field is not updated, click on the Scan button again.
- When uploading the settings file, the sound source files are also copied to the device. The user and network settings are not applied to the device even if the settings file is uploaded, and their preupload states are maintained.

25.7. Downloading Settings Files



Step 1. Select the devices and click on the Configuration file download button.

The screen for selecting the download destination folder is displayed.

Step 2. Click on the Select button to select the download destination folder.



Step 3. Click on the Run button.

Settings file download begins.

After the download is completed, the OK indication appears in the Detection results list's Results field. The extension of the saved settings file is ".spconf."

Notes

- Do not restart the device or turn off power during settings file download.
 If the device is restarted or power is turned off during download, the settings file could become corrupted, potentially making it impossible to save the file.
- Downloading the settings file causes the setting data, including sound source files, to be downloaded.
 New network and user settings are not applied when the settings are restored or replicated by means of download and upload.

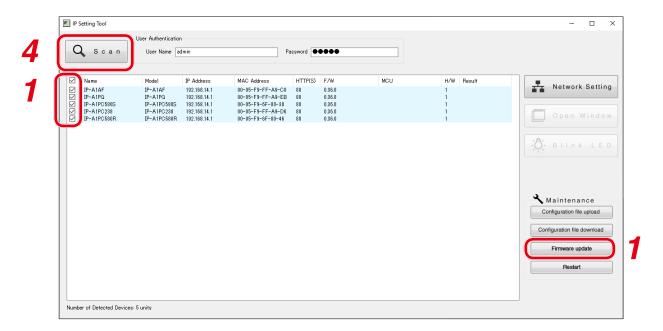
25.8. Firmware Update

Tip

Download the latest firmware after searching the TOA DATA Library (https://www.toa-products.com/international/) for the product number.

Note

Do not change the filename of the downloaded firmware.



- **Step 1.** Select the devices that will have its firmware updated, and click on the Firmware update button. The file selection screen is displayed.
- **Step 2.** Click on the Select button to select the firmware file to be updated.

Tip

The firmware-updater's extension is ".bin."

Step 3. Click on the Run button to begin the firmware update.

If the firmware update is complete after restart is finished, the OK indication is displayed in the Results field.

Please select a firmware

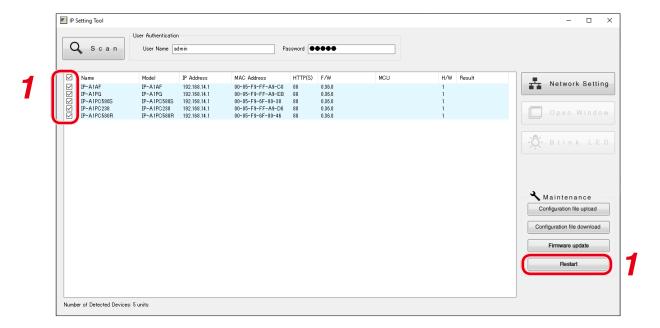
Step 4. Click on the Scan button.

The display screen is updated.

Notes

- Do not restart the device or turn off power during firmware update. If the device is restarted or power
 is turned off during update, the firmware could become corrupted, potentially making it impossible to
 start the device.
- Under circumstances in which the load on the network is high, the indication "No response" may be displayed in the Results field of the display screen. In such cases, simply wait for a while. However, if the Result field is not updated, click on the Scan button again.

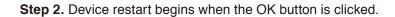
25.9. Restarting the Device



Step 1. Select the devices to be restarted and click on the Restart button. The confirmation screen is displayed.

Tip

Multiple devices can also be selected for restart.





26. TROUBLESHOOTING

If a problem concerning the operation of this device is found, we recommend that you follow the procedure below to isolate the problem before requesting repair.

Step 1. Check the Power Supply.

		Check
	Is the Status indicator on the device lit or blinking? If it is off, power is not being supplied. Connect the device to a PoE switching hub to supply power.	
Is power being supplied?	Is the device connected to a PoE switching hub? This device operates on power supplied from a PoE switching hub. Make sure that the device is properly connected to a PoE switching hub that provides adequate power.	
	Does the connected equipment exceed the PoE switching hub's maximum power supply capacity? Check the PoE switching hub's instruction manual. If the total electrical load exceeds the capacity of the hub, replace it with a PoE hub that provides ample power supply capacity.	
	Is there a faulty contact connection due to a broken tab on the LAN connector? Poor contact between cable and connectors will interfere with both communications and power supply.	
Are there ony I AN eable	Is a Cat5 or higher grade LAN cable being used? Cables of a lower grade than Cat5 may interfere with power supply and communications. Change to a Cat5 or higher grade cable.	
Are there any LAN cable problems?	Are the pin layout and wiring of the RJ-45 LAN connector correct? If the pin layout or wiring is incorrect, communications and power supply may be impaired. Use the correct cable.	
	Is the LAN cable over 100m in length? If cable lengths exceed this limit, communications and power supply may be affected. Correct the wiring to ensure that all lengths are less than 100m by installing switching hubs wherever long lengths are found.	

Step 2. Check Network Communications.

		Check
	Is the LINK/ACT indicator on the device lit or blinking? If it is not lit or blinking, network communications may not be fully established.	
Are network communications established?	Can the device's IP address be accessed with a computer's browser to display the webpage Authentication screen? If the webpage Authentication screen cannot be displayed, network communications may not be established.	
	Does the device respond to a Ping command sent from the computer to its IP address? If there is no response, network communications may not be established.	
Is the webpage displayed correctly?	Is a compatible browser being used? Please access using Microsoft Edge or Google Chrome.	

		Check
	Is the latest version of the IP Setting Tool being used? If an older version is being used, the device may not be correctly detected. Please download the latest version of the tool from the TOA DATA Library (https://www.toa-products.com/international/).	
Can the device be detected by the IP Setting Tool?	Are the device and the computer installed with the IP Setting Tool connected to the same network segment? If the network segments are different, the device may not be detected. Change the computer's IP address to that of the shared network segment.	
	Is the computer's firewall or antivirus software enabled? The influence of a firewall or antivirus software may cause the device to not be detected. Temporarily disable these security functions.	

Step 3. Check the Operating Status and Settings.

		Check
Does the Status indicator switch to broadcasting status?	When broadcasting begins, the Status indicator lights up in blue. If there is no change in the Status indicator, even after broadcasting has begun, it may be possible that the system has not switched to broadcast status. If a signal is received by the control input terminal while it is set to Broadcast Disable (on the Event Settings screen), the indicator will not switch to Broadcast status.	
Is System Mute enabled?	If the STATUS indicator is flashing red, this indicates that System Mute mode is enabled. An emergency cutoff signal was input to the mute (24 V CUT) terminal or a signal was input to the control input terminal set for System Mute on the Event settings screen.	
Does the Status item change on the webpage Status screen?	When shifting to Broadcast status, the Status item changes from the Idle display to the display showing the status of each broadcast in conjunction with the broadcast start operation. If the display does not show the broadcast status, it's possible that the broadcast start operation has not been accepted.	
[SIP – Multicast Broadcasting] Is the SIP Registration Status set to "Registered"?	In order to perform SIP broadcasting via the SIP server, the device must be registered on the SIP server. If the device has not been registered, check the following settings on the SIP Settings screen. • Is SIP Account Active turned ON? • Is the SIP Server Address/Port setting correct? • Are the User ID, Password, and Authentication ID settings correct?	
[VMS – Multicast Broadcasting] Can a VMS server/client or network recorder be used to detect/connect to the device?	To perform VMS broadcasting, it is necessary to detect/connect the device with the broadcasting source or its software. If the device cannot be detected/connected to, check the following settings on the VMS Broadcasting Settings screen. • Is VMS Connection turned ON? • Are the Control Port settings for both the device and the broadcasting source the same? • Is the RTSP Port set to an appropriate value according to the network environment? (If connected via LAN, there is no need to change the initial settings.) • Are the Username and Password settings correct?	
Do the settings of the multicast channel used by the sending and receiving terminals match?	The multicast channel settings for the transmitting device's Destination settings and the receiving device's Multicast settings must match. Check to confirm the following settings: • Do the multicast addresses and port numbers for the transmitting and receiving devices match? • Are even numbers being used for the port numbers? • Are the settings for the multicast channel to be used for transmission enabled in the Convert settings? • Is the multicast channel to be used for transmission set as the Destination in the "Event" settings?	

Step 4. Check the Event Trigger.

			Check
Is a control signal being input?	Is the control signal being input to the control input terminal? Input a no-voltage signal. Since the device can be either Normally Open or Normally Closed, both make and break contacts are supported. Also, because the device is compatible with both Edge and Level detections, these can be set on the Signal Mode line of the Event Settings screen's Control-In settings.		
Is the control signal input long enough (in ms)?	The minimum duration for the control input to initiate a short is 200 ms. Be sure that the signal is input for at least 200 ms.		
Are the Event settings correctly set?	settings? When a control signal operation selected in Ad Patterns 1 – 20: LINE/MIC IN:	is received at the control input terminal, the ction will be enabled. The internal sound source selected in the Pattern settings is used for broadcasts. The sound source connected to LINE/MIC IN is used for broadcasts. Commands selected from the Command List are transmitted. Terminates the transmission/output of audio broadcasts from the device. Stops the device's transmission/output of broadcast audio while also muting audio from the IP Audio receiving device connected to the network.	
Are Schedule settings performed correctly?	To execute an action by Schedule, the task must first appear at the given date and time on the Scheduler screen. If the task is not displayed, there may be a problem with the Schedule settings. Please check that the given date and time are registered as a valid date.		
Is the current time set correctly?	The current time must be set correctly to execute actions using the Schedule. Please check to be sure that the current time display on the Settings or Scheduler screen is correct. If the time zone is not set correctly, the current time may be displayed in UTC (Coordinated Universal Time).		
Is the correct remote API command being transmitted?	Check that the URI of the transmitted command is correct. Check for the correct command based on the Remote API Specifications. For more information on Remote API Specifications, please contact your nearest TOA subsidiary.		
When using Remote API, has Digest Authentication been performed in advance?	In order to control commands by Remote API, Digest Authentication by way of ID & Password is first required. Since commands will only be accepted after Authentication is complete, first check for completed Authentication.		

Step 5. Check the Sound.

		Check
Is the device's gain appropriately set for the equipment connected to the LINE/MIC IN terminals?	Set the device's gain with the DIP switch, depending on the type of equipment connected to the LINE/MIC IN terminals. • Line output equipment: LINE / [PAD] 0 dB / [PHANTOM] OFF • Dynamic microphone: MIC / [PAD] 0 dB / [PHANTOM] OFF • Condenser microphone: MIC / [PAD] –20 dB / [PHANTOM] ON Also, make sure that the output level of the connected equipment is correctly set.	
Is the LINE/MIC input volume control turned fully counter-clockwise?	Audio input volume can be adjusted using the LINE/MIC input volume control. Adjust the input sound volume while monitoring the LINE/MIC signal indicator so that it remains constantly lit green and only rarely lights red.	
[SIP – Multicast Broadcasting] Is the SIP phone (or SIP terminal) set to the correct volume?	If the source SIP phone (or SIP device) sound output seems too quiet or too loud, the speaker output may not be set to the correct volume and sound quality. Audio output from the paging gateway can be checked by way of the monitor output. If the volume or sound quality of the monitor output is not correctly set, adjust the audio being transmitted from the SIP phone (or SIP device). If the monitor's output volume or sound quality is correctly set, the volume setting of the receiving device, such as an IP speaker, may not be correct.	
[VMS – Multicast Broadcasting] Is the volume of the microphone connected to the VMS server/client or network recorder correct?	If the sound volume transmitted from the source VMS server/client or network recorder is either too quiet or too loud, it may be possible that the volume and/or sound quality are not correctly adjusted. Audio output from the paging gateway can be confirmed by way of the monitor output. If the volume or sound quality of the monitor output is not correctly set, adjust the audio coming from the VMS server/client or network recorder. If the volume or sound quality of the monitor output is correct, then the volume settings for the IP speakers or other receiving devices may not be optimal.	
[Multicast Broadcasting] Is the volume of each multicast channel correct?	In Multicast broadcasting, the volume of each multicast channel used can be set for each receiving terminal. By adjusting the Audio Settings screen's Input Volume (Multicast $1-20$), the appropriate volume can be set for each multicast channel.	
[Internal Sound Source Broadcasting] Can sound source files be uploaded to the Media Settings screen?	 There may be some restrictions on the sound sources that can be uploaded to the Media Settings screen. Please check to see if any of these restrictions are applicable and try uploading again. Only WAV and MP3 sound source files can be uploaded. The usable file formats for both WAV and MP3 are fixed. Before use, please check the details (see p. 35). Sound source files of over 30 MB in size cannot be uploaded. (see p. 35.) Total Media file size cannot exceed 80 MB. (see p. 35.) Does the filename contain spaces or characters/symbols that cannot be used? (see p. 61.) 	
[Internal Sound Source Broadcasting] Is the sound file being played using PLAY button on the Pattern Registration screen set to an appropriate volume?	Depending on the set pattern conditions, by selecting PLAY button on the Pattern Registration screen, the sound source can be played through the monitor output in order to confirm the appropriate audio output and volume. If the output volume is not correct, check that the sound source itself is not breaking up and that the pattern-set Input Volume is not too loud.	

27. WHAT TO DO WHEN IN TROUBLE

IP address unknown.	If the IP address of the device is unknown, use the following procedure to connect: 1. Detect the device with the IP setting tool. 2. Initialize the system settings with the reset key, and reconnect using the default IP address.
Invalid user name or password.	[If the user information for Administrator privileges is unknown] The default user name and password can be used to log in by first using the reset key to reinitialize. Note Be sure to download the configuration data in advance, as the setting contents will also be erased in the initialization. [If the user information for User privileges is unknown] Log in with Administrator privileges and reset the user name and password on the User Settings screen.

URL: https://www.toa.jp/