

## **Read this first**

In order to use the complete and customizable ADECIA communications solutions, it is necessary to update the firmware of the devices. Please download the latest firmware from the website below and update accordingly.

U.S.A. and Canada: <https://uc.yamaha.com/support/>

Other countries: <https://download.yamaha.com/>



SIGNAL PROCESSOR

# RM-CR

Reference Manual

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## INTRODUCTION

Thank you for purchasing the Yamaha RM-CR signal processor. This document provides detailed information on the product setup, functions and specifications as well as the Web GUI. For correct and safe use of this product, be sure to first read this manual carefully together with the RM-CR Installation Manual (included with the product).

### Notice

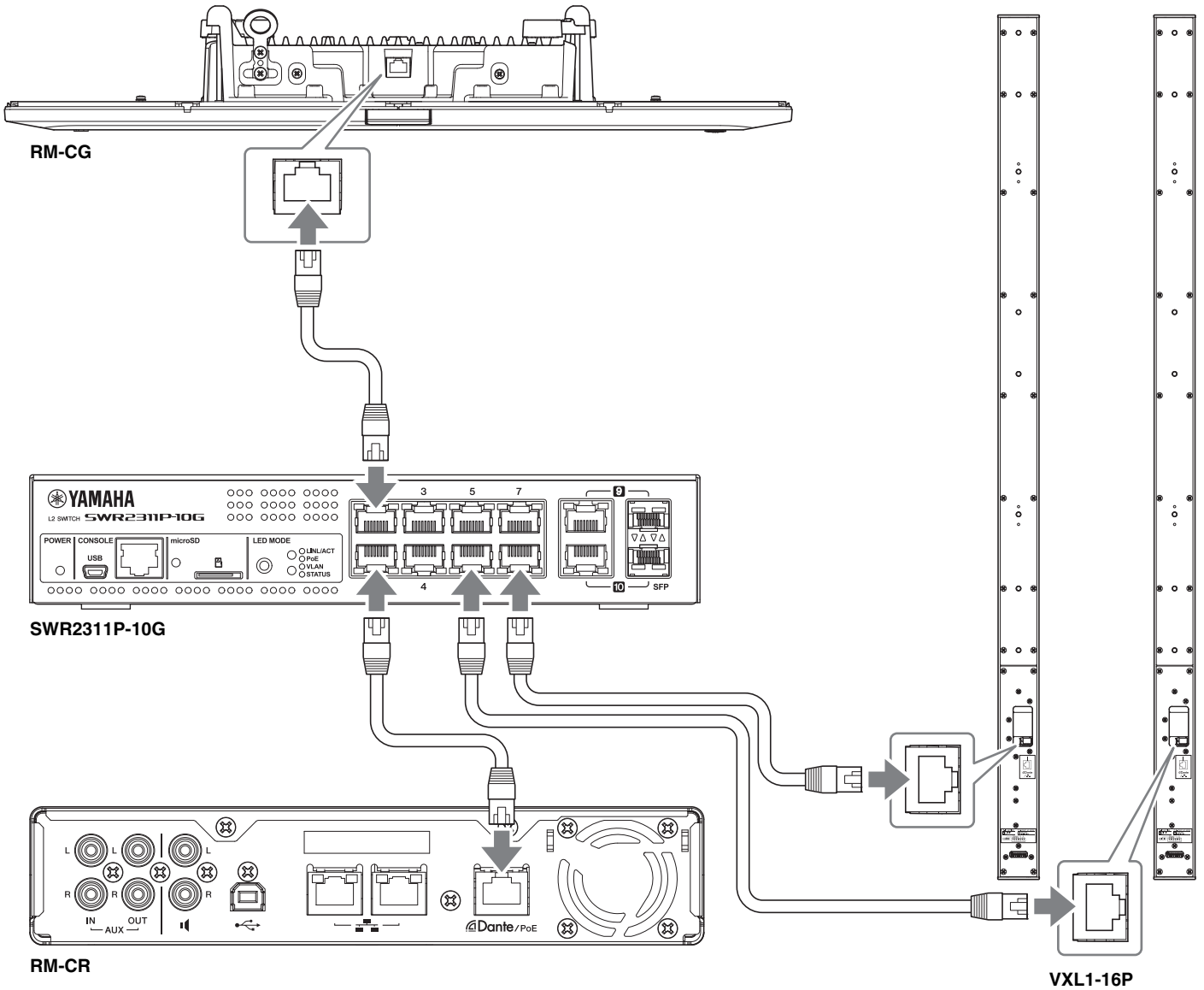
- The illustrations and images shown in this manual are for instructional purposes only.
- The company names and product names in this manual are trademarks or registered trademarks of their respective companies.
- We are continuously improving the software for our products. The latest version can be downloaded from the Yamaha website.
- This document is based on the latest specifications at the time of publication. The latest version can be downloaded from the Yamaha website.
- Reproduction of this manual in whole or in part without permission is prohibited.

# SETUP

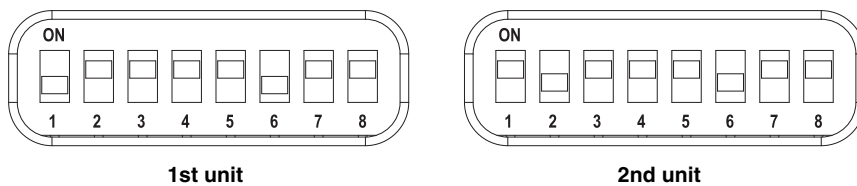
In order to use this unit, setup is required. First, connect this unit to peripheral devices, and then perform setup using the Web GUI.

## Connecting to peripheral devices

This unit is one of the components of the complete and customizable ADECIA communications solution. Refer to the diagram below to connect this unit to peripheral devices with LAN cables.



**IMPORTANT:** There is a DIP switch for specifying settings on the back of each VXL1-16P. Before plugging in LAN cables, set the DIP switches as shown below. The DIP switch settings on the two units must not be the same.



The ADECIA uses PoE or PoE+ as the system for supplying/receiving power. In addition, Dante is used as the connection format.

- CAUTION** : When disconnecting the LAN cable from the Dante/PoE port, wait at least five seconds before reconnecting the cable. Otherwise, damage or malfunctions may result.
- : With a Dante network, do not use the EEE function\* of the network switch. Although mutual power consumption settings are automatically adjusted between switches that support the EEE function, some switches do not perform that properly. As a result, the switch's EEE function may be enabled inappropriately in the Dante network, possibly degrading clock synchronization performance and interrupting audio. Therefore, please note the following.
- When using managed switches, turn off the EEE function on all ports used for Dante. Do not use a switch that does not allow the EEE function to be turned off.
  - When using unmanaged switches, do not use switches that support the EEE function. In such switches, the EEE function cannot be turned off.
- \* EEE (Energy-Efficient Ethernet) function: Technology that reduces the power consumption of Ethernet devices during periods of low network traffic; also known as Green Ethernet or IEEE802.3az.

## Setting up using the Web GUI

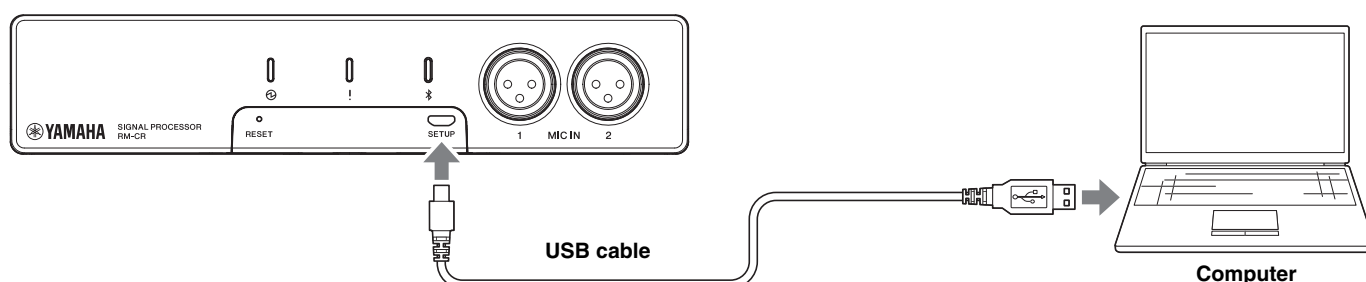
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After connecting this unit to peripheral devices, set it up using the Web GUI "RM-CR Device Manager".

Prepare the following.

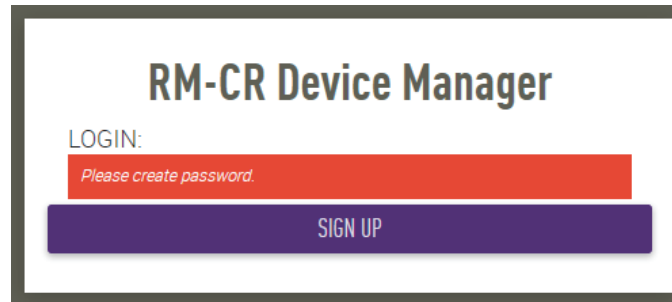
- Computer
- A-micro B type USB cable (included with the unit)

- 1. Make sure that this unit and all peripheral devices have been turned on.**
- 2. Connect this unit and the computer with an A-micro B type USB cable.**



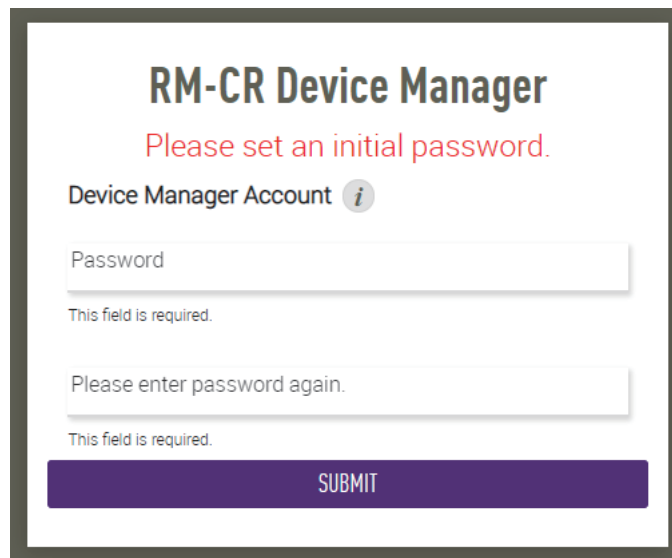
- 3. Start a browser (Google Chrome or Safari) on the computer and type "172.16.0.1" in the address bar.**  
The first login window of RM-CR Device Manager appears.

**4.** Click the [SIGN UP] button in the first login window.



The screenshot shows the 'RM-CR Device Manager' login window. At the top, the title 'RM-CR Device Manager' is displayed in a large, bold, dark font. Below the title, the word 'LOGIN:' is followed by a red rectangular input field containing the text 'Please create password.' Below this field is a purple button with the text 'SIGN UP' in white, centered on the button.

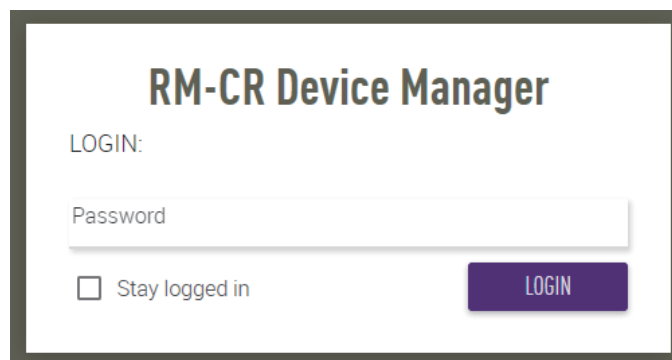
**5.** Specify a password in the password settings window, and then click the [SUBMIT] button.



The screenshot shows the 'RM-CR Device Manager' password settings window. At the top, the title 'RM-CR Device Manager' is displayed in a large, bold, dark font. Below the title, the text 'Please set an initial password.' is shown in red. Underneath, the text 'Device Manager Account' is followed by an information icon (a lowercase 'i' in a circle). There are two white input fields: the first is labeled 'Password' and has the text 'This field is required.' below it; the second is labeled 'Please enter password again.' and also has 'This field is required.' below it. At the bottom, there is a purple button with the text 'SUBMIT' in white, centered on the button.

**6.** Type the password into the login window, and then click the [LOGIN] button.

The wizard starts up.



The screenshot shows the 'RM-CR Device Manager' login window. At the top, the title 'RM-CR Device Manager' is displayed in a large, bold, dark font. Below the title, the word 'LOGIN:' is followed by a white input field labeled 'Password'. Below the input field, there is a checkbox labeled 'Stay logged in'. To the right of the checkbox is a purple button with the text 'LOGIN' in white, centered on the button.


## 7. Follow the wizard's instructions to continue the setup.

### [1. WELCOME]

Click the [NEXT] button.

1.WELCOME PAGE 1 OF 5

This wizard will assist you in setting up your devices.  
Through this setup, setup for device configuration and audio optimization adjustment will be done.  
When it is completed, device will be ready to use for USB and Bluetooth conferencing.  
Additional settings are available in detail settings.



Do not show on next login

CLOSE ● ○ ○ ○ ○ NEXT

### [2. REGISTER YOUR PERIPHERAL DEVICE]

#### ① Click the [SEARCH] button.

Peripheral devices are detected and displayed in the list.

**NOTE** : If no peripheral devices are detected, recheck the LAN cable connections. For VXL1-16P units, recheck the DIP switch settings. (Refer to page 2.)

2.REGISTER YOUR PERIPHERAL DEVICES PAGE 2 OF 5

For system configuration of IP control and audio devices, forming a device group can be set in this page.  
Devices in the same network as RM-CR will be found and registered automatically.  
All devices in the network will join the group and number of devices should be less than 8.  
For registration of a single device, please refer to setting page.

REGISTRATION SETTINGS **ENABLED**

Hostname	Model	IP Address	Status
No device have been added. Click 'SEARCH' button to add devices.			




BACK ● ○ ○ ○ ○ SKIP SEARCH

② Check that [connected] appears below [Status] for all peripheral devices, and then click the [NEXT] button.

2. REGISTER YOUR PERIPHERAL DEVICES PAGE 2 OF 5

For system configuration of IP control and audio devices, forming a device group can be set in this page. Devices in the same network as RM-CR will be found and registered automatically. All devices in the network will join the group and number of devices should be less than 8. For registration of a single device, please refer to setting page.


REGISTRATION SETTINGS SEARCHING

Hostname	Model	IP Address	Status
Y001-Yamaha-RM-CG-3004DE	 RM-CG	169.254.232.225	connected
Y065	 VXL1-16P	169.254.133.49	connected
Y066	 VXL1-16P	169.254.140.31	connected

BACK ● ○ ○ ○ ○ SKIP NEXT



### [3. LOCATE PERIPHERAL DANTE SPEAKERS]

Set [Position] for each speaker to [Left] or [Right] according to the actual mounting position, and then click the [NEXT] button.

NOTE :If  (Identify button) on the right below [Hostname] is clicked, the indicator on the corresponding speaker flashes, allowing you to confirm the mounting position.

3. LOCATE PERIPHERAL DANTE SPEAKERS PAGE 3 OF 5

Depending on position of the speakers, choose output source type from RM-CR to Dante speaker. NOTE: For mono use only, choose Left for all devices.

Hostname	Model	Position
Y065	 VXL1-16P	Left
Y066	 VXL1-16P	Right

BACK ○ ○ ● ○ ○ SKIP NEXT

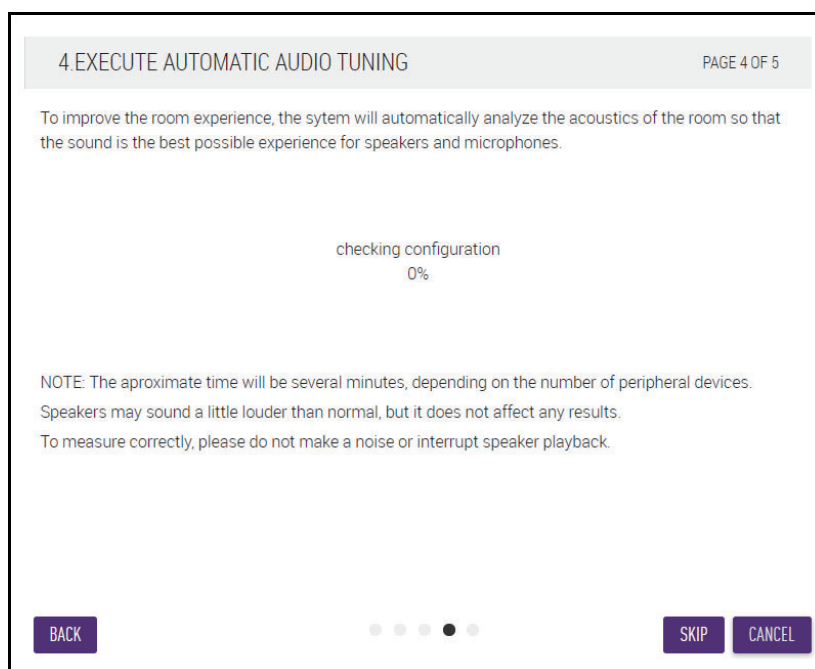
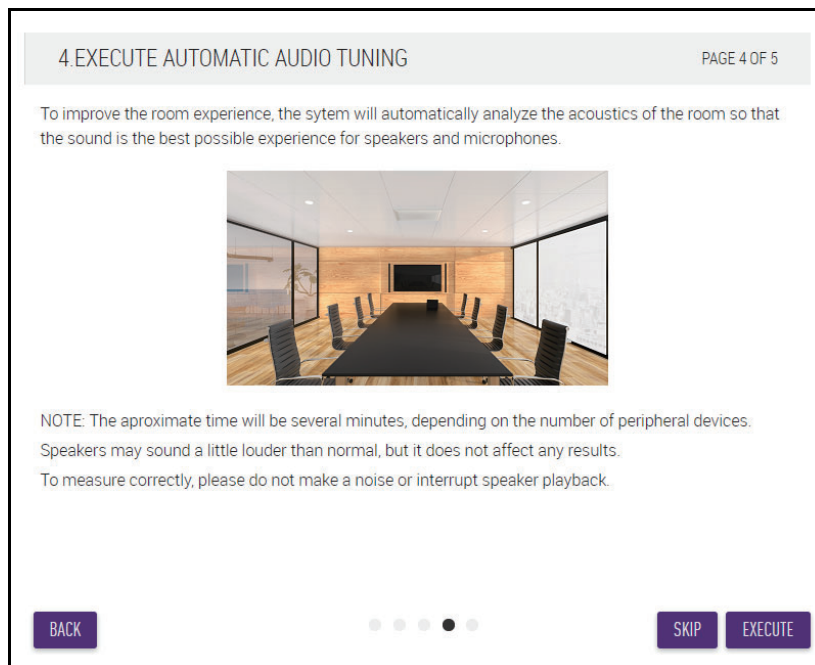
#### [4. EXECUTE AUTOMATIC AUDIO TUNING]

① Click the [EXECUTE] button.

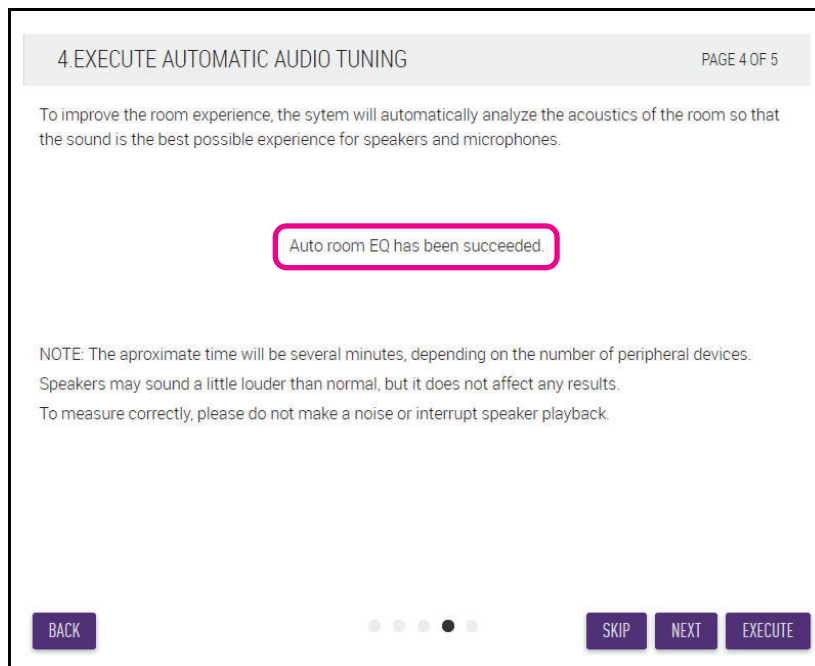
The window changes, and automatic audio tuning begins.

**IMPORTANT:** For better accuracy, as much as possible, avoid making noise during tuning.

**NOTE** : Sound is output from the speakers during tuning.

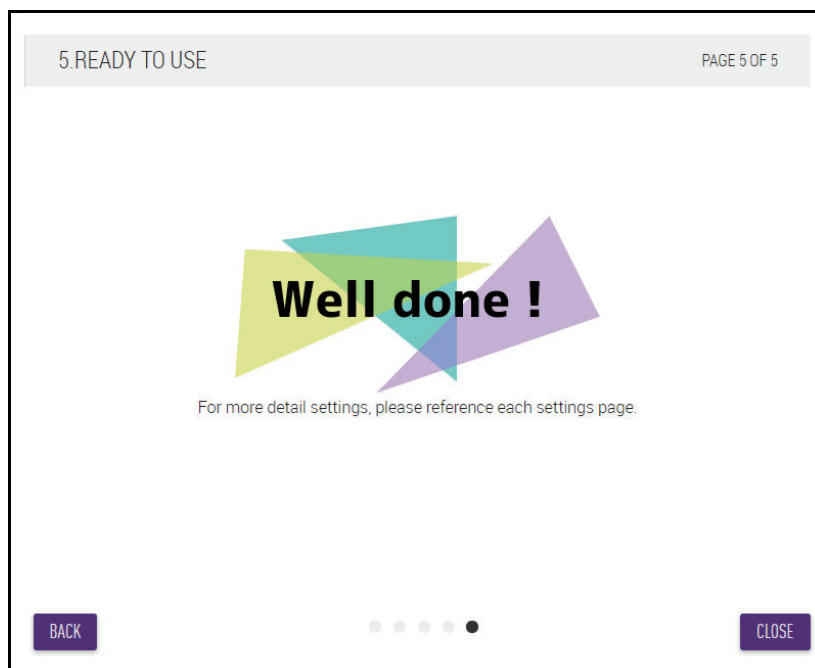


② Confirm that tuning has completed, and then click the [NEXT] button.



[5. READY TO USE]

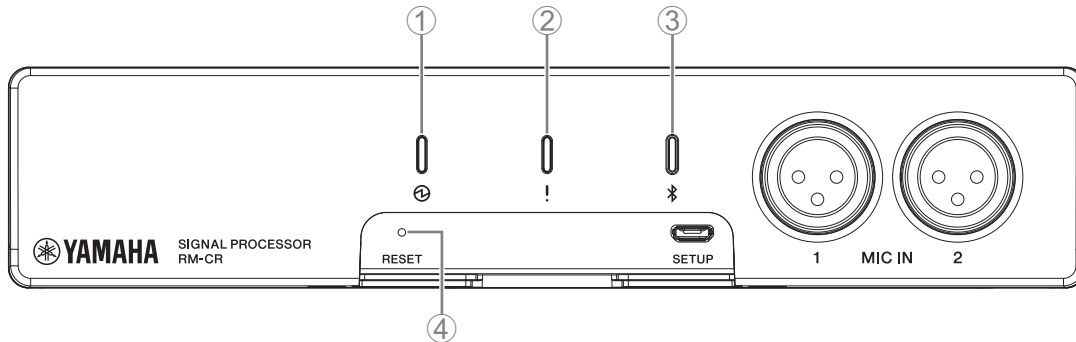
Click the [CLOSE] button.



This completes the setup.

# CONTROLS AND FUNCTIONS

## Front panel



### ① (Power) indicator

Condition	Power indicator	Unit status
LAN cable plugged into Dante/PoE port	Lit green	Operating
LAN cable plugged into Dante/PoE port	Flashes green	Starting up
–	Flashes green quickly	Supplied power insufficient

### ② ! (Status) indicator

Condition	Status indicator	Unit status
Identify button in Web GUI clicked	Flashes white	Responding (to Identify function)
Updating firmware	Flashes white quickly	Firmware being updated
–	Flashes red	Error occurring
–	Flashes red quickly	Severe error occurring

**NOTE:**Occurrences of errors and severe errors are recorded in the alert log. For details, refer to page 43.

### ③ (Bluetooth®) button/indicator

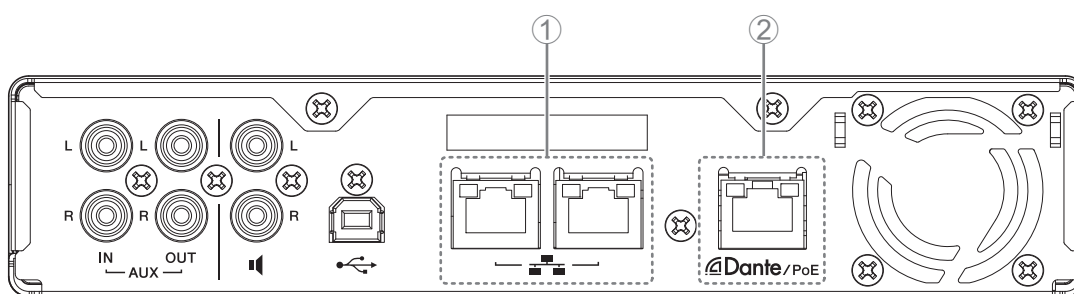
Condition	Bluetooth indicator	Unit status
Making Bluetooth connection	Brightly lit blue	Bluetooth connection being made
Bluetooth in Web GUI enabled	Dimly lit blue	Not connected (although Bluetooth can be used)
Long-pressing the Bluetooth button/indicator (with Bluetooth enabled) for 4 seconds or more	Flashes blue quickly	Waiting for pairing/Pairing
Bluetooth in Web GUI not enabled	Unlit	Bluetooth cannot be used

### ④ RESET button

Condition	Status indicator	Unit status
RESET button long-pressed for 4 seconds to less than 8 seconds, then released	Flashes blue twice per second (during long-pressing/resetting)	Network-related settings Waiting for resetting/Resetting
RESET button long-pressed for 8 seconds to less than 12 seconds, then released	Flashes blue three times per second (during long-pressing/resetting)	All settings Waiting for resetting/Resetting

**NOTE:**Use a fine-tipped object such as an ejector pin to press the RESET button.

## Rear panel



### ① Network port indicators (Network port)

Network port indicator	Unit status
Left indicator lit green	Link up
Left indicator flashes green	Transferring data
Left indicator unlit	Link down
Right indicator lit green	Connection speed: 1000M Link
Right indicator unlit	Connection speed: 10M Link/100M Link

### ② Network port indicators (Dante/PoE port)

Network port indicator	Unit status
Left indicator lit green	Link up
Left indicator flashes green	Transferring data
Left indicator unlit	Link down
Right indicator lit green	Operating on word clock of peripheral device (master)
Right indicator flashes green	Acting as word-clock master
Right indicator flashes orange	Word clock unlocked

# CONNECTING COMMUNICATION DEVICES

The following are examples of a connection with a communication device.

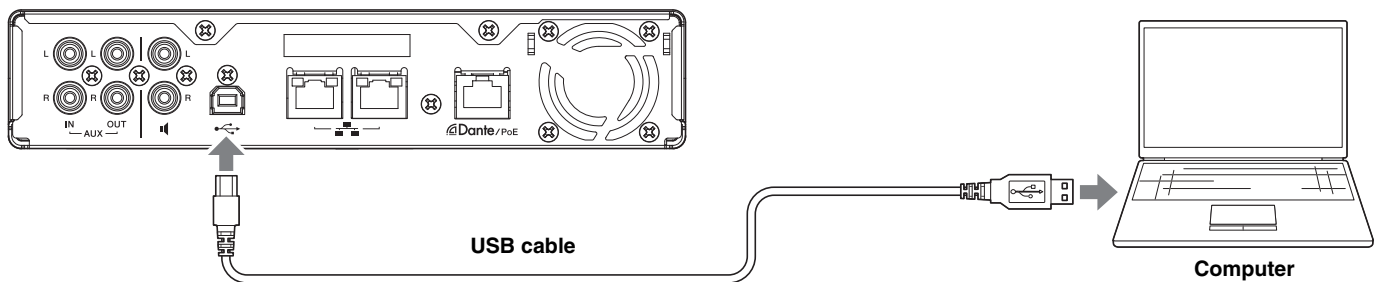
## Connecting a computer

Prepare the following.

- Computer
- A-B type USB cable (included with the unit)

**NOTE:** No installation of a USB driver is necessary.

### 1. Connect this unit and the computer with a USB cable.

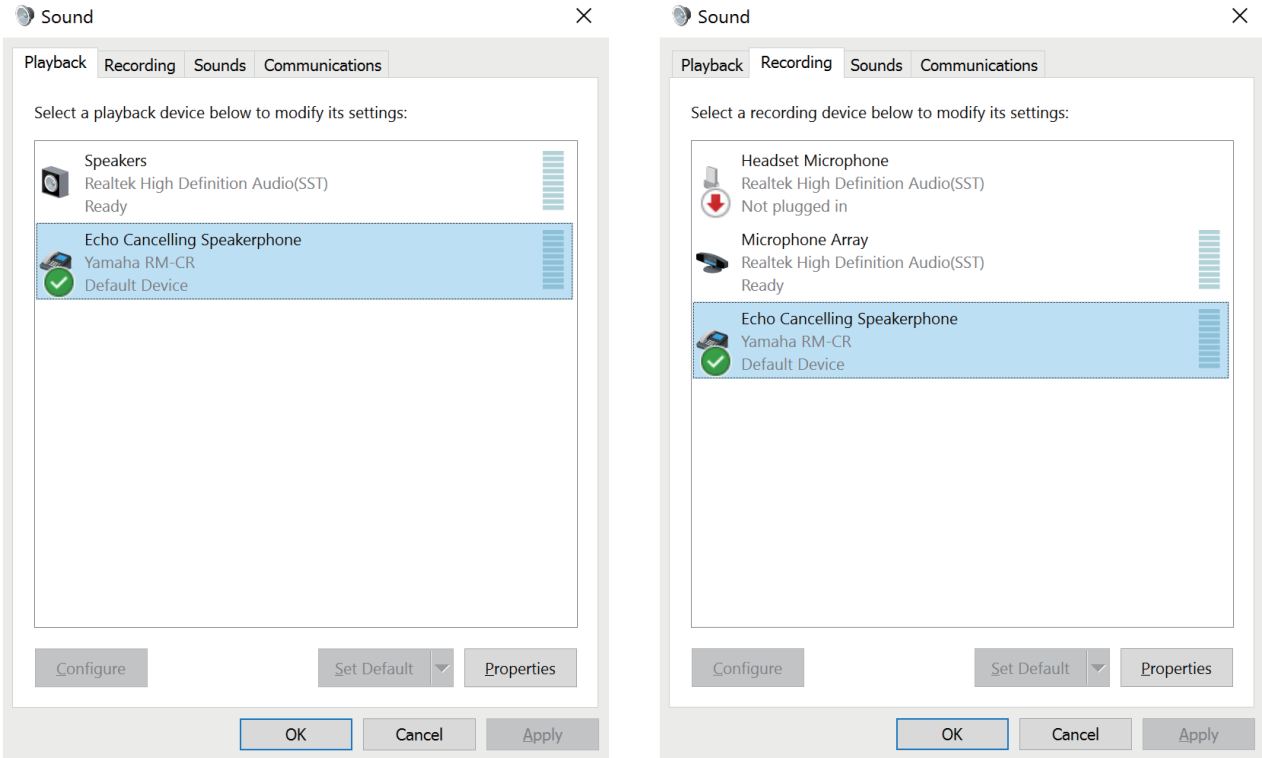


This completes the connection. Referring to the following pages, confirm that a proper connection can be made.

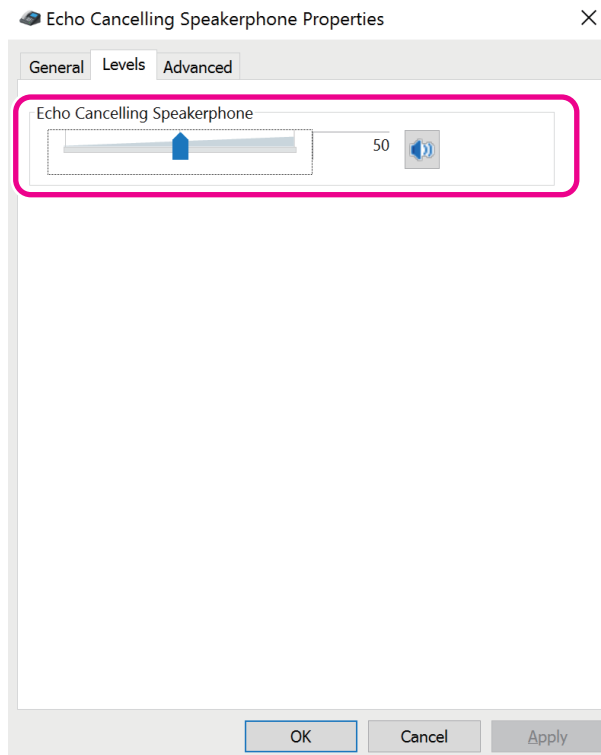
**NOTE:** The windows may differ depending on the computer.

## [For Windows]

Open the Sound Control Panel, and then confirm that [Yamaha RM-CR] is set to [Default Device] on the [Playback] and [Recording] tabs. Otherwise, select [Yamaha RM-CR], click [Set Default], and then click [OK].



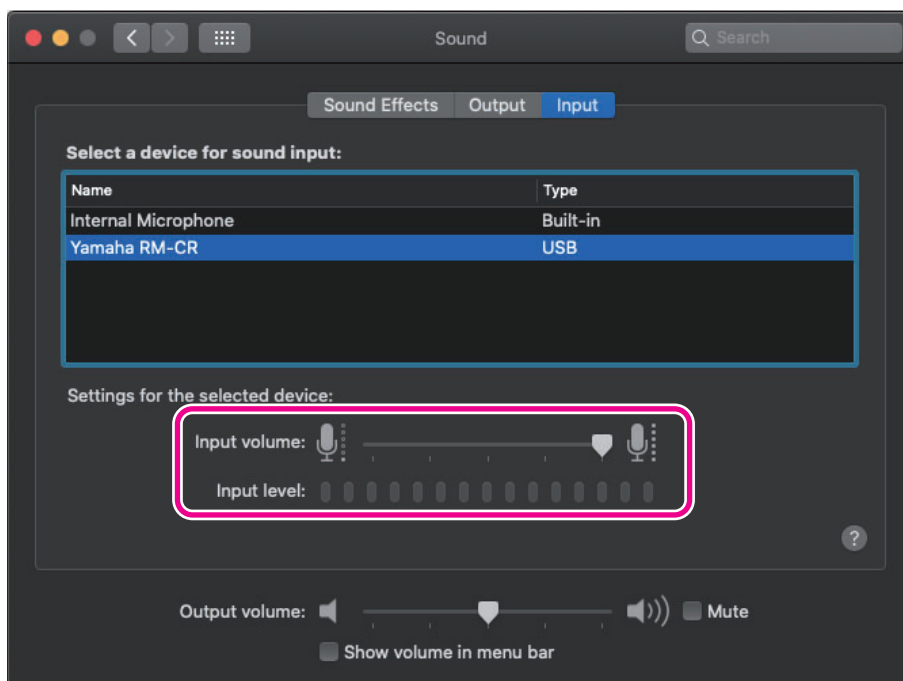
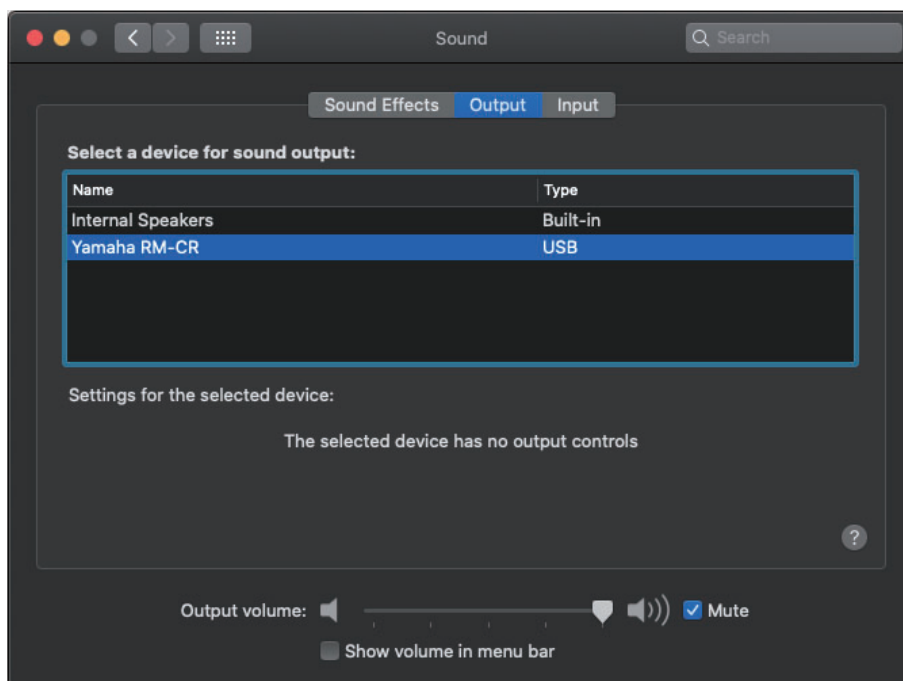
**NOTE:** Adjust the microphone sensitivity (input volume) as necessary. Select [Yamaha RM-CR] on the [Recording] tab, and then click [Properties] to open the [Echo Cancelling Speakerphone Properties] window. Click the [Levels] tab to display the adjuster.



## [For macOS]

Open the [Sound] preferences, and then confirm that [Yamaha RM-CR] is selected on the [Output] and [Input] tabs. Otherwise, click [Yamaha RM-CR].

**NOTE:** Adjust the microphone sensitivity (input volume). The adjuster is available on the [Input] tab.



## Connecting a smartphone

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Prepare the following.

- Smartphone

**IMPORTANT** : Bluetooth must first be enabled in the Web GUI. For details, refer to page 23.

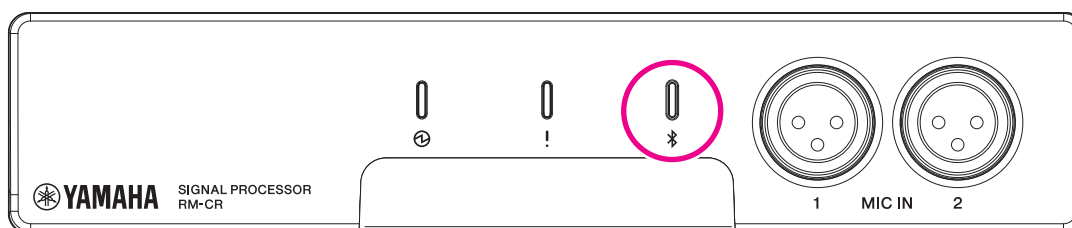
: This unit cannot be connected with multiple smartphones at the same time via Bluetooth.

### [Connecting for the first time]

#### 1. Long-press the Bluetooth button/indicator on the front panel of the unit for four seconds or more.

The unit enters the pairing standby mode, and the indicator flashes blue quickly.

**NOTE** : Pairing means that the unit and the smartphone register each other with the information required for a Bluetooth connection.

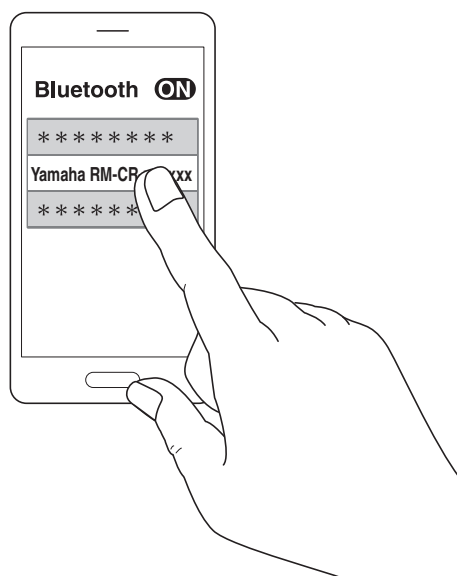


#### 2. Enable Bluetooth on the smartphone, and select [Yamaha RM-CR-XXXXXX] (where “XXXXXX” is the MAC address of this unit).

The connection is completed as soon as pairing is finished. Check the completion of the connection from the screen of the smartphone.

**IMPORTANT:** As a factory default, the passkey is set to “0000” (numbers). This can be changed in the Web GUI.

**NOTE** : If 60 seconds have elapsed without completing pairing, the pairing standby mode of this unit will be canceled.  
: To cancel the pairing standby mode, press the Bluetooth button/indicator while the indicator is flashing.  
: This unit can be paired with up to eight smartphones. When pairing with the ninth device has completed, the pairing with the oldest date and time of the nine smartphones will be canceled.



## [Connecting a paired smartphone]

1. Enable Bluetooth on the smartphone, and select [Yamaha RM-CR-XXXXXX] (where “XXXXXX” is the MAC address of this unit).

This completes the connection. Check the completion of the connection from the screen of the smartphone.

## [Disconnecting]

The Bluetooth connection can be cut by using any of the following methods.

- Press the Bluetooth button/indicator on the unit.
- Turn off Bluetooth from the smartphone.
- Turn off the unit or smartphone.

**NOTE** : Bluetooth operation of this unit can also be performed using the Web GUI.

## Connecting a video conferencing system

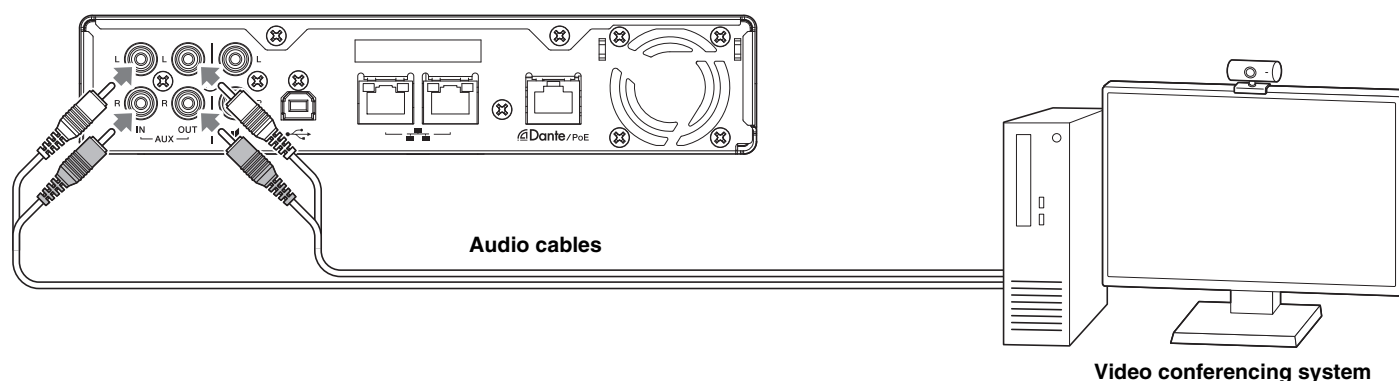
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Prepare the following.

- Video conferencing system
- Audio cable with stereo RCA jacks on one end or both ends x2

**NOTE** : The audio cable jacks that connect to the video conferencing system do not necessarily have to be stereo RCA jacks. Prepare cables that meet the specifications of the video conferencing system.

1. Connect this unit to the video conferencing system with the audio cables.



2. Check/change the audio input/output settings of the video conferencing system.

**IMPORTANT:** Turn off the video conferencing system microphone and speakers.

# CONNECTING EXPANSION DEVICES

The following are examples of a connection to an expansion device.

## Connecting a handheld microphone

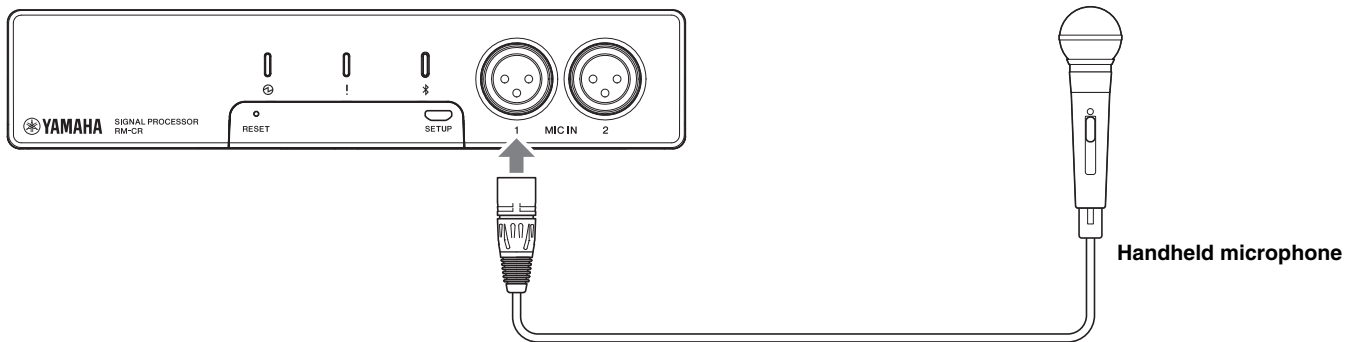
Connect this unit to a handheld microphone to talk with the other party and amplify your voice at your location.

Prepare the following.

- Handheld microphone

### 1. Connect this unit and the handheld microphone.

**NOTE** : Two handheld microphones can be connected at the same time.



## Connecting a speaker with built-in amplifier

Connect this unit to a speaker with built-in amplifier to expand the playback range at your location.

Prepare the following.

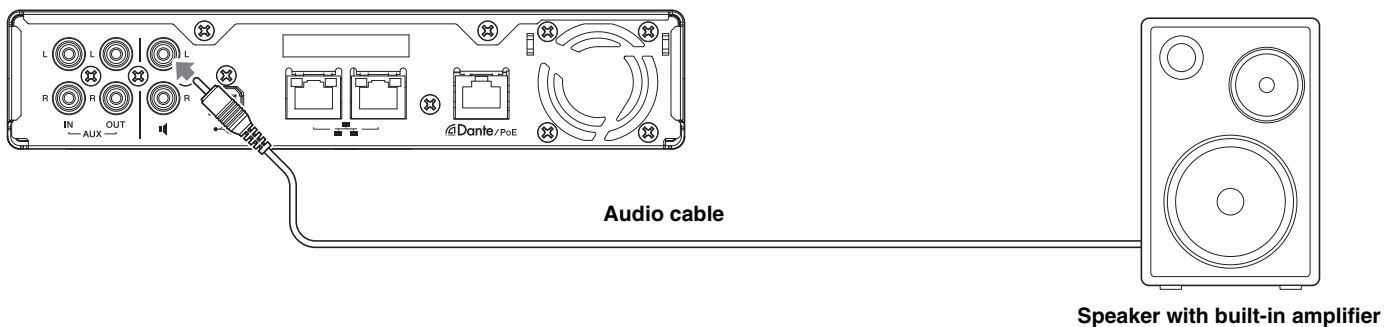
- Speaker with built-in amplifier
- Audio cable with RCA jack on one end or both ends

**CAUTION** : Use a speaker with built-in amplifier that has little delay and distortion. Using a speaker with a lot of delay or distortion may cause echoing for the other party.

**NOTE** : The audio cable jack that connects to the speaker with built-in amplifier does not necessarily have to be an RCA jack. Prepare a cable that meets the specifications of the speaker with built-in amplifier.

### 1. Connect this unit and the speaker.

**NOTE** : Two speakers with built-in amplifiers can be connected at the same time.

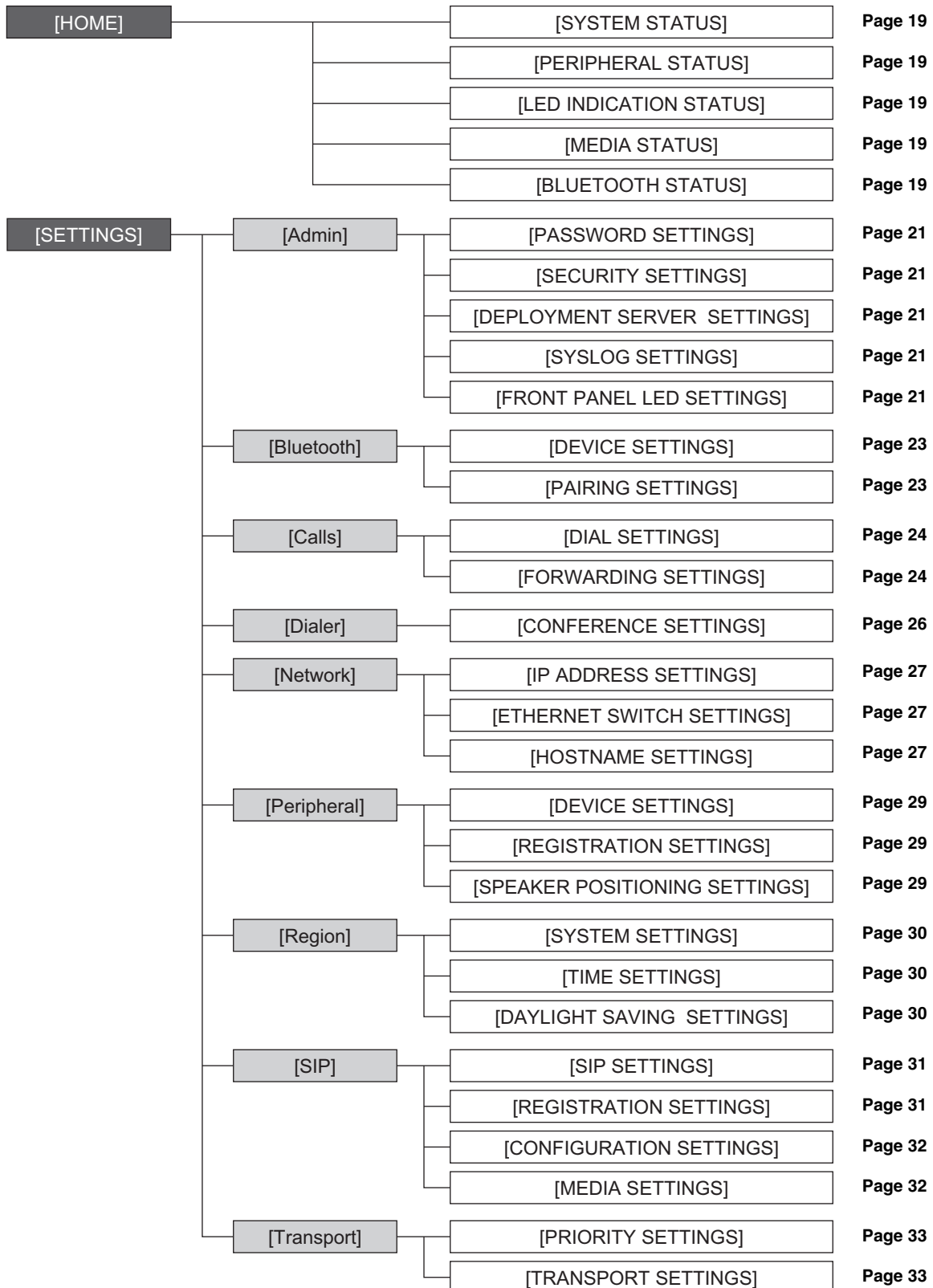


# WEB GUI

Use the Web GUI “RM-CR Device Manager” to check/change the settings of this unit and ADECIA.


## Structure of RM-CR Device Manager


Refer to the page listed to the right for details on each item available in the various windows.




[AUDIO]	[Input]	[AUDIO INPUT STATUS]	Page 34
	[Processing]	[INTERFACE SETTINGS]	Page 36
		[AUTOMATIC AUDIO TUNING]	Page 36
[Output]	[AUDIO OUTPUT STATUS]	Page 37	
[TOOLS]	[Update]	[DEVICE STATUS]	Page 39
		[FIRMWARE UPDATE]	Page 39
	[Contacts]	[EXPORT CONTACTS]	Page 40
		[IMPORT CONTACTS]	Page 40
	[Configuration]	[EXPORT CONFIGURATION]	Page 41
		[IMPORT CONFIGURATION]	Page 41
		[RESET DEFAULTS]	Page 41
	[Logs]	[DOWNLOAD LOGS]	Page 42

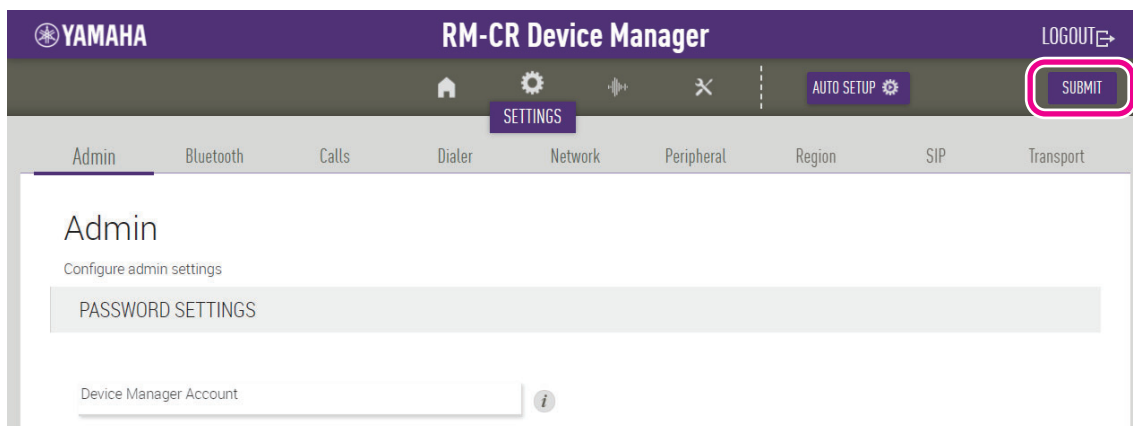
The following icons/buttons are used in RM-CR Device Manager.

 (Information icon): Move the pointer over this icon to see more information about the item.

 (Identify button): Click to cause the indicator of the corresponding device to flash.

 (Link button): Click to go to another window for the item.

**IMPORTANT:** Be sure to click the [SUBMIT] button after changing settings in RM-CR Device Manager. The [SUBMIT] button always appears in the upper-right corner of the window.



# Functions of RM-CR Device Manager

[HOME]

**YAMAHA** **RM-CR Device Manager** LOGOUT

HOME AUTO SETUP

## Home

View status of system and paired devices

- SYSTEM STATUS**

Hostname: Y001-Yamaha-RM-CR-6F084A  
Model: RM-CR  
MAC Address: AC:44:F2:6F:08:4A  
Corporate Network IP Address: 169.254.248.250  
Device Network IP Address: 169.254.81.33  
USB Network IP Address: 172.16.0.1  
Main Version: V1.0.2  
Serial Number: S7A000323
- PERIPHERAL STATUS** **ENABLED**

Hostname	Model	MAC Address	IP Address	Status
Y001-Yamaha-RM-CG-3004DE	RM-CG	AC:44:F2:30:04:DE	169.254.232.225	Connected
Y065	VXL1-16P	AC:44:F2:4E:31:84	169.254.133.49	Connected
Y065	VXL1-16P	AC:44:F2:4E:1F:8B	169.254.140.31	Connected
- LED INDICATION STATUS**

Power: Green lit  
Status: unlit  
Bluetooth: Blue lit
- MEDIA STATUS**

Bluetooth Call Status: Inactive  
Bluetooth Audio Stream: Inactive  
SIP1 Call Status: Inactive  
SIP2 Call Status: Inactive  
USB Call Status: Inactive  
USB Audio Stream: Inactive
- BLUETOOTH STATUS** **ENABLED**

Bluetooth Name: RM-CR Yamaha-6F122D  
Bluetooth MAC Address: 34:81:F4:6F:12:2D

Paired Devices	MAC Address	Status
No phones have been paired.		

RM-CR Device Manager © Yamaha Corporation 2020. All rights reserved.

① **[SYSTEM STATUS]**

Allows you to check basic information on this unit.

② **[PERIPHERAL STATUS]**

Allows you to check basic information on peripheral devices and their connection status with this unit.

③ **[LED INDICATION STATUS]**

Allows you to check the status of the indicators on the front panel of this unit.

④ **[MEDIA STATUS]**

Allows you to check if you are in a call or playing back music.

⑤ **[BLUETOOTH STATUS]**

- Allows you to check basic information about Bluetooth for this unit.
- Allows you to check basic information and the connection status of the paired smartphone.

# [SETTINGS]

## [Admin]

**YAMAHA** RM-CR Device Manager LOGOUT

Admin Bluetooth Calls Dialer **SETTINGS** Network Peripheral Region SIP Transport

**Admin**  
Configure admin settings

- PASSWORD SETTINGS**  
Device Manager Account *i*
- SECURITY SETTINGS**  
 Enable call history *i*  
 Enable SCP remote control access *i*
- DEPLOYMENT SERVER SETTINGS**  
 Enable deployment server *i*  
 Enable automatic server discovery *i*  
Provisioning interval (minutes) *i*  
1440  
Primary server *i*  
This field is required.  
Secondary server *i*  
This field is required.
- SYSLOG SETTINGS**  
 Enable Syslog *i*  
Server address *i*  
0.0.0.0  
Port number *i*  
514
- FRONT PANEL LED SETTINGS**  
Brightness *i*  
High

RM-CR Device Manager © Yamaha Corporation 2020. All rights reserved.

① **[PASSWORD SETTINGS]**

Allows you to check/change the password for logging in to RM-CR Device Manager.

② **[SECURITY SETTINGS]**

Allows you to select whether to keep a call history.

③ **[DEPLOYMENT SERVER SETTINGS]**

- Allows you to select whether to use a deployment server. If using a server, select whether to detect it automatically or configure it manually.
- Allows you to check/adjust the server provisioning interval.

④ **[SYSLOG SETTINGS]**

Allows you to select whether to use a syslog server.

⑤ **[FRONT PANEL LED SETTINGS]**

Allows you to check/adjust the brightness of the indicators on the front panel of this unit.

## [Bluetooth]

**Bluetooth**  
Configure bluetooth settings

① **DEVICE SETTINGS**

Enable Bluetooth *i*

Device name  
RM-CR Yamaha-6F122D *i*

Pairing pin  
0000 *i*

Pairing and connection timeout (seconds) *i*  
60

Enable auto-unpair *i*

② **PAIRING SETTINGS** **ENABLED**

Device Name: RM-CR Yamaha-6F122D  
MAC Address: 34:81:F4:6F:12:2D

**PAIR** **UNPAIR ALL DEVICES**

Paired Devices	MAC Address	Status
No phones have been paired. Click the 'Pair' button to pair a phone.		

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### ① [DEVICE SETTINGS]

- Allows you to select whether to use Bluetooth.
- Allows you to check/change the name and passkey of the Bluetooth connection for this unit.
- Allows you to check/adjust the length of time that this unit remains in pairing standby mode.
- Allows you to select whether to cancel pairing when the Bluetooth connection with the smartphone is cut.

### ② [PAIRING SETTINGS]

- Allows you to put the unit in pairing standby mode by clicking the [PAIR] button.
- Allows you to cancel the pairing with all smartphones simultaneously by clicking the [UNPAIR ALL DEVICES] button.

[Calls]

**YAMAHA** **RM-CR Device Manager** LOGOUT

Admin Bluetooth **Calls** Dialer Network Peripheral Region SIP Transport

### Calls

Configure calls settings

**1** DIAL SETTINGS

- Enable message waiting indication *i*
- Set Do not Disturb (DnD) mode *i*
- Enable auto-answer *i*
- Ring tone type  
Ring 1 *i*
- Ring tone volume(x0.01db) *i*  
-2400
- Voicemail number *i*
- Maximum call duration  
0 *i*
- Dial plan *i*

**2** FORWARDING SETTINGS

- Always forward *i*
- Forward number  
This field is required.
- Forward on busy *i*
- Forward number  
This field is required.
- Forward on no answer *i*
- Forward number  
This field is required.
- Delay on no answer *i*  
10

## ① [DIAL SETTINGS]

- Allows you to select whether to enable MWI.
- Allows you to set this unit to call rejection mode.
- Allows you to set this unit to auto-answer mode.
- Allows you to select the ringtone. Also allows you to adjust the ringtone volume.
- Allows you to specify the number for checking voicemails.
- Allows you to specify a maximum length of time for SIP calls.
- Allows you to specify a dial plan.

## ② [FORWARDING SETTINGS]

Allows you to specify how to forward incoming calls and the forwarding number.

## [Dialer]

The screenshot shows the Yamaha RM-CR Device Manager interface. At the top, there is a purple header with the Yamaha logo, the title 'RM-CR Device Manager', and a 'LOGOUT' button. Below the header is a navigation bar with icons for Home, Settings, Bluetooth, and a close button. A 'SETTINGS' button is highlighted. Below the navigation bar is a menu with tabs for Admin, Bluetooth, Calls, Dialer, Network, Peripheral, Region, SIP, and Transport. The 'Dialer' tab is selected. The main content area is titled 'Dialer' and includes the subtitle 'Configure dialer settings'. A red box highlights the 'CONFERENCE SETTINGS' section, which contains a checked checkbox for 'Enable auto-join' and a note: 'NOTE: Enable auto-join. By default, a user operation is required to bridge calls (USB, Bluetooth and SIP1/2). In the case of using USB and/or BT only, or with no controller, using the ON setting is recommended.' At the bottom of the page, there is a footer with the text 'RM-CR Device Manager © Yamaha Corporation 2020. All rights reserved.'

### ① [CONFERENCE SETTINGS]

Allows you to select whether users can join a call without performing any special operation.

**YAMAHA** **RM-CR Device Manager** LOGOUT

HOME SETTINGS AUTO SETUP SUBMIT

Admin Bluetooth Calls Dialer **Network** Peripheral Region SIP Transport

## Network

Configure network settings

① IP ADDRESS SETTINGS

Corporate Network  Device Network including Dante/PoE  Front Panel USB Network

Enable DHCP *i*

IP Address  
192.168.100.1 *i*

Subnet mask  
255.255.255.0 *i*

Default gateway  
0.0.0.0 *i*

Primary DNS  
0.0.0.0 *i*

Secondary DNS  
0.0.0.0 *i*

② ETHERNET SWITCH SETTINGS

Mode  
Separated

NOTE: Ethernet switch mode. In Separated mode, the ethernet ports for Corporate Network and the Dante/PoE port are isolated. In Switched mode, all ports are internally connected.

③ HOSTNAME SETTINGS

Mode  
Yamaha Hostname using Unit ID *i*

UnitID  
1

Hostname  
Y001-Yamaha-RM-CR-6F084A

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① **[IP ADDRESS SETTINGS]**

- Allows you to specify the network used by this unit.
- Allows you to select whether to use DHCP.

② **[ETHERNET SWITCH SETTINGS]**

Allows you to select whether to (internally) separate or integrate the network and Dante/PoE ports on the rear panel of this unit.

③ **[HOSTNAME SETTINGS]**

Allows you to select whether to specify the hostname of this unit automatically or manually.

## [Peripheral]

**YAMAHA** **RM-CR Device Manager** LOGOUT

Admin Bluetooth Calls Dialer Network **Peripheral** Region SIP Transport

### Peripheral

Configure peripheral settings

- DEVICE SETTINGS**
  - Enable Peripheral controls
- REGISTRATION SETTINGS** **ENABLED**

Hostname: Y001-Yamaha-RM-CR-6F084A

MAC Address: AC:44:F2:6F:08:4A

Device Network IP Address: 169.254.81.33

SEARCH

Hostname	Model	IP Address	Status	Registration	Details
Y001-Yamaha-RM-CG-3004DE	RM-CG	169.254.232.225	connected	REMOVE	VIEW
Y065	VXL1-16P	169.254.133.49	connected	REMOVE	
Y066	VXL1-16P	169.254.140.31	connected	REMOVE	
- SPEAKER POSITIONING SETTINGS**

Depending on position of the speakers, choose output source type from RM-CR to Dante speaker.  
NOTE: For mono use only, choose Left for all devices.

Hostname	Model	Position
Y065	VXL1-16P	Left
Y066	VXL1-16P	Right

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### ① [DEVICE SETTINGS]

Allows you to configure RM-CR Device Manager for operating peripheral devices.

### ② [REGISTRATION SETTINGS]

- Allows you to detect peripheral devices and register them as components of ADECIA, by clicking the [SEARCH] button. Allows you to cancel the registration by clicking the [REMOVE] button.
- Allows you to open the Web GUI [Peripheral Detail] for the corresponding peripheral device by clicking the [VIEW] button.

### ③ [SPEAKER POSITIONING SETTINGS]

Allows you to set the speaker position to [Left] or [Right] according to its actual mounting position.

## [Region]

**YAMAHA** **RM-CR Device Manager** LOGOUT

Admin Bluetooth Calls Dialer **SETTINGS** Network Peripheral Region SIP Transport

### Region

Configure region settings

① **SYSTEM SETTINGS**

Regional call progress tones  
USA *i*

Time zone  
0:00 GMT *i*

② **TIME SETTINGS**

NTP support *i*

Network time server 1 *i*

Network time server 2 *i*

Network time server 3 *i*

Network time server 4 *i*

③ **DAYLIGHT SAVING SETTINGS**

Enable Daylight Saving Time adjustment *i*

Daylight Saving Time start time *i*

Month: January Week: First Day: Monday Hour: 00:00

Daylight Saving Time end time *i*

Month: January Week: First Day: Monday Hour: 00:00

### ① [SYSTEM SETTINGS]

Allows you to specify the country or region where this unit is used. Also allows you to specify the time zone.

### ② [TIME SETTINGS]

Allows you to select whether to use NTP.

### ③ [DAYLIGHT SAVING SETTINGS]

Allows you to select whether to use daylight saving time with this unit.

## [SIP]

**Sip**  
Configure sip settings

① **SIP SETTINGS**

Enable SIP *i*

② **REGISTRATION SETTINGS**

Registrar *i*  
This field is required.

Backup register *i*

VoIP realm  
\* *i*

Proxy *i*

Use proxy for registration *i*

Username *i*  
This field is required.

Password *i*

User ID *i*

Display name *i*

### ① [SIP SETTINGS]

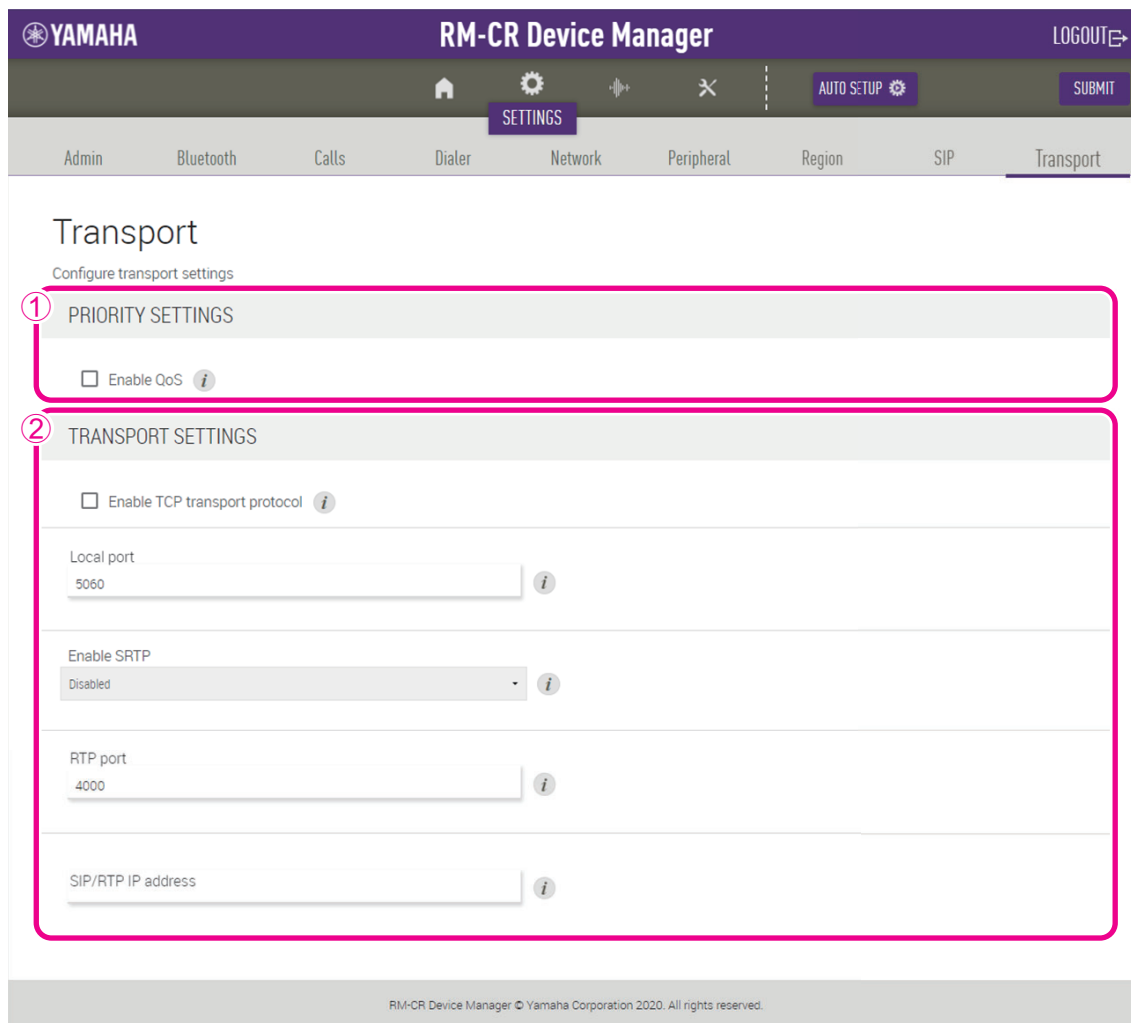
Allows you to select whether to use SIP.

### ② [REGISTRATION SETTINGS]

Allows you to register the SIP server.



## [Transport]



**YAMAHA** RM-CR Device Manager LOGOUT

Admin Bluetooth Calls Dialer **SETTINGS** Network Peripheral Region SIP Transport

### Transport

Configure transport settings

① **PRIORITY SETTINGS**

Enable QoS *i*

② **TRANSPORT SETTINGS**

Enable TCP transport protocol *i*

Local port  
5060 *i*

Enable SRTP  
Disabled *i*

RTP port  
4000 *i*

SIP/RTP IP address *i*

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### ① [PRIORITY SETTINGS]

Allows you to select whether to enable QoS for SIP.

### ② [TRANSPORT SETTINGS]

Allows you to check/change the settings related to the SIP network.

# [AUDIO]

## [Input]

YAMAHA RM-CR Device Manager LOGOUT

Home Settings AUDIO AUTO SETUP

Input Processing Output

### Input

View status of audio input

1 AUDIO INPUT STATUS

Bluetooth  
No devices connected.

Ch.	Signal
1(L)	●
2(R)	●

AUX IN

Ch.	Signal
1	●
2	●

SIP

Ch.	Signal
1	●
2	●

USB

Ch.	Signal
1	●
2	●

MIC IN

Ch.	Signal
1	●
2	●

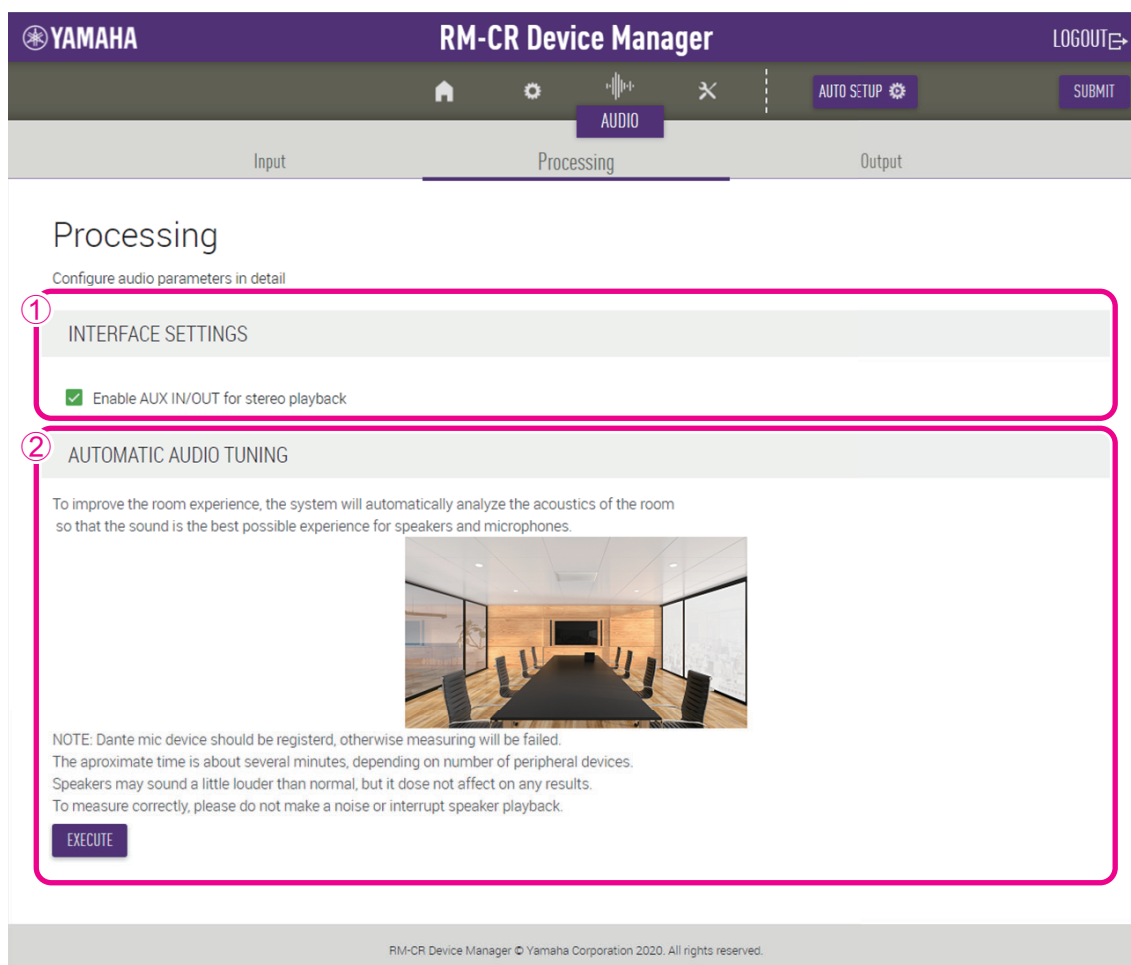
DANTE Receive			
Ch.	Signal	Connected to	Model
1	●	01@Y001-Yamaha-RM-CG-800162	RM-CG
2	●		
3	●		
4	●		
5	●		
6	●		
7	●		
8	●		
9	●		
10	●		
11	●		
12	●		
13	●		
14	●		
15	●		
16	●		

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① **[AUDIO INPUT STATUS]**

Allows you to check the audio input status for each connection method and connected device.

## [Processing]



**YAMAHA** RM-CR Device Manager LOGOUT

HOME SETTINGS **AUDIO** CROSS AUTO SETUP SUBMIT

Input Processing Output

### Processing


Configure audio parameters in detail

① **INTERFACE SETTINGS**

Enable AUX IN/OUT for stereo playback

② **AUTOMATIC AUDIO TUNING**

To improve the room experience, the system will automatically analyze the acoustics of the room so that the sound is the best possible experience for speakers and microphones.



**NOTE:** Dante mic device should be registered, otherwise measuring will be failed.  
The approximate time is about several minutes, depending on number of peripheral devices.  
Speakers may sound a little louder than normal, but it does not affect on any results.  
To measure correctly, please do not make a noise or interrupt speaker playback.

**EXECUTE**

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### ① [INTERFACE SETTINGS]

Allows you to select whether to enable the AUX jacks on the rear panel of this unit.

### ② [AUTOMATIC AUDIO TUNING]

Allows you to perform automatic audio tuning by clicking the [EXECUTE] button.

**IMPORTANT:** For better accuracy, as much as possible, avoid making noise during tuning.

**NOTE** : A loud sound is output from the speakers during tuning.

[Output]

**YAMAHA** **RM-CR Device Manager** LOGOUT

HOME SETTINGS AUDIO AUTO SETUP

Input Processing **Output**

## Output

View status of audio output

1 **AUDIO OUTPUT STATUS**

Bluetooth  
No devices connected.

Ch.	Signal
1(L)	●
2(R)	●

AUX OUT

Ch.	Signal
1	●
2	●

S/P

Ch.	Signal
1	●
2	●

USB

Ch.	Signal
1	●
2	●

Analog Speaker Output

Ch.	Signal
1	●
2	●

DANTE Transmit			
Ch.	Signal	Connected to	Model
1	●	01@Y001-Yamaha-RM-CG-800162	RM-CG
2	●	01@Y065-Yamaha-VXL1-16P	VXL1-16P
3	●	01@Y066-Yamaha-VXL1-16P-8048bd	VXL1-16P
4	●		
5	●		
6	●		
7	●		
8	●		
9	●		
10	●		
11	●		
12	●		
13	●		
14	●		
15	●		
16	●		

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### ① [AUDIO OUTPUT STATUS]

Allows you to check the audio output status for each connection method and connected device.

## [TOOLS]

### [Update]

**YAMAHA** **RM-CR Device Manager** LOGOUT

Update Contacts Configuration Logs

### Update

Update firmware of RM-CR, peripheral devices.

① **DEVICE STATUS**

Hostname: Y001-Yamaha-RM-CR-6F0845  
Model: RM-CR  
IP Address( Main / Dante): 169.254.43.91 / 169.254.71.44  
Version( Main / Dante): V1.0.2 / 4.02.04.02  
Updatability: Ready

Hostname	Model	IP Address(Main / Dante)	Version(Main / Dante)	Updatability
Y001-Yamaha-RM-CG-3...	RM-CG	169.254.232.225 / 169.254.99.1	V1.0.2 / 4.02.02.03	Connected
Y065	VXL1-16P	169.254.61.48 / 169.254.104.150	R1.1.0b0.1 / 4.02.02.03	Connected
Y066	VXL1-16P	169.254.140.31 / 169.254.190.72	R1.1.0b0.1 / 4.02.02.03	Connected

NOTE: To update Dante firmware, Dante address needs to have the same network address as IP address of RM-CR.

② **FIRMWARE UPDATE**

Drag and drop or click here to select a file

schedule an update for later 00 : 00

**EXECUTE**

#### ① [DEVICE STATUS]

- Allows you to check the versions of the firmware and Dante of this unit. The firmware and Dante of this unit can be updated when [Ready] appears below [Updatability].
- Allows you to check the versions of the firmware and Dante of peripheral devices. The firmware and Dante of the peripheral device can be updated when [Connected] appears below [Updatability].

**IMPORTANT:** In order to update Dante, the IP address of this unit and the network portion of Dante's IP address must be the same.

#### ② [FIRMWARE UPDATE]

- Allows you to update the firmware and Dante collectively or individually by dragging and dropping the update file(s) into the box, then clicking the [EXECUTE] button.
- Allows you to specify that the update will be performed automatically after the specified length of time.

## [Contacts]

YAMAHA RM-CR Device Manager LOGOUT

Update Contacts Configuration Logs

### Contacts

Manage contacts for Dialer

① EXPORT CONTACTS

Export saved contacts to a CSV file. The exported file can be imported to other devices or applications, or it can be used to edit contact details. To update edited contacts, use the import function below.  
NOTE: To delete contacts, move to Configuration page and reset contacts to default.

EXPORT

② IMPORT CONTACTS

Drag and drop or click here to select a file

IMPORT

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### ① [EXPORT CONTACTS]

Allows you to export the SIP call contact information stored on this unit, by clicking the [EXPORT] button.

### ② [IMPORT CONTACTS]

Allows you to import SIP call contacts into this unit by dragging and dropping the contact file into the box, then clicking the [IMPORT] button.

**NOTE** : Create the contact file to be imported by editing the one exported in ①.

## [Configuration]

YAMAHA RM-CR Device Manager LOGOUT

Update Contacts Configuration Logs

### Configuration

Manage settings by configuration file

NOTE: For peripheral devices, please refer to their each details.

① EXPORT CONFIGURATION

Export device configuration to an XML file. This will export all settings except the system password and the SIP password.

EXPORT

② IMPORT CONFIGURATION

Drag and drop or click here to select a file

IMPORT

③ RESET DEFAULTS

- Restore ALL defaults
- Contacts
- Call history
- Network settings

RESET

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### ① [EXPORT CONFIGURATION]

Allows you to export the settings of this unit by clicking the [EXPORT] button.

### ② [IMPORT CONFIGURATION]

Allows you to import settings into this unit by dragging and dropping the settings file into the box, then clicking the [IMPORT] button.

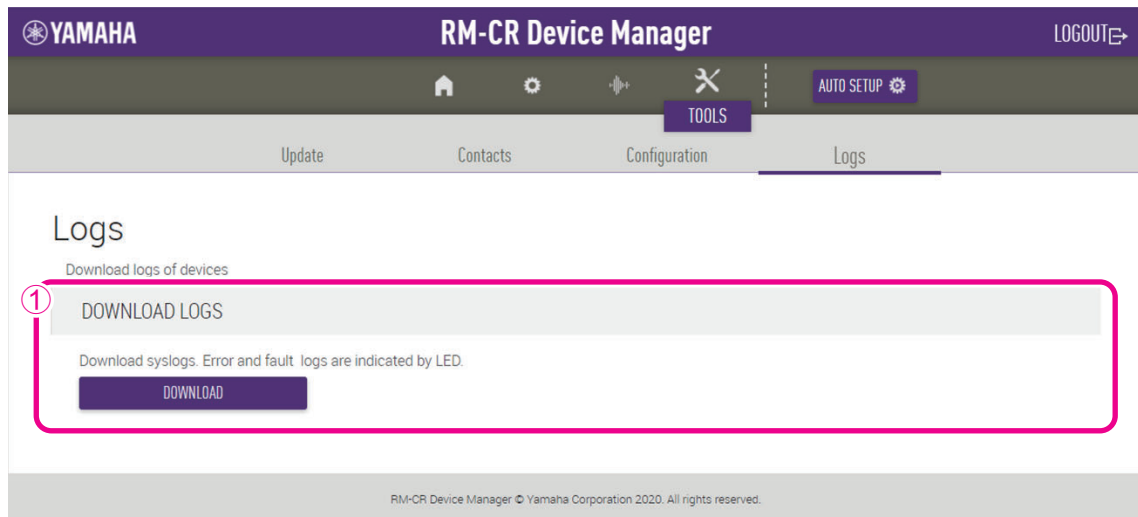
**NOTE** : Create the settings file to be imported by editing the one exported in ①.

### ③ [RESET DEFAULTS]

Allows you to reset the settings of this unit by clicking the [RESET] button.

**IMPORTANT:** Be sure to check what is to be reset before doing it.

## [Logs]



### ① [DOWNLOAD LOGS]

Allows you to download logs by clicking the [DOWNLOAD] button.

**NOTE** : Be sure to read alert log list on the following pages for explanations on the displayed alert log and the recommended solutions.

## Alert log list

Display	Description	What to do
important mic CH* broken	Important mic CH* broken.	Please contact your Yamaha dealer.
Bluetooth hardware error	Bluetooth has not worked correctly.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please contact your Yamaha dealer.
Dante hardware error	Dante has not started up correctly.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please initialize the memory. Should this also fails, contact your Yamaha dealer.
Firmware update failed, because of *	Failure of firmware update has occurred.	Check firmware file on the firmware update pages of Web GUI.
Firmware update failed, because of internal error		Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please contact your Yamaha dealer.
SIP internal error	Internal error has occurred in SIP.	Turn the power off, then turn on after waiting at least six seconds. If this does not solve the problem, please initialize the memory. Should this also fails, contact your Yamaha dealer.
	Internal error has been occurred with SIP.	
USB audio hardware error	A problem has occurred with USB audio.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please initialize the memory. Should this also fail, contact your Yamaha dealer.
Web UI internal failure	Internal failure has occurred in Web GUI.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please initialize settings. Should this also fails, contact your Yamaha dealer.
failed to start audio proc	The device audio has not started up correctly.	Turn the power off, then turn on after waiting at least six seconds. If this does not solve the problem, please initialize the memory. Should this also fails, contact your Yamaha dealer.
System error	The device has not started up correctly.	
Power unstable	The device is not supplying power normally.	Connect to a PoE+ compatible switch. If this does not solve the problem, please turn the power off, then turn on after waiting at least six seconds. Should this also fail, contact your Yamaha dealer.
Syslog setting error	Failed to update syslog transfer servers.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please initialize settings.
logging error	Failed to restart logging.	
Automatic audio tuning failed, because of internal error.	Automatic audio tuning has failed, because internal error has occurred.	Turn the power off, then turn the power on after waiting at least six seconds. Please try again. If this does not solve the problem, contact your Yamaha dealer.
Automatic audio tuning failed, because of speaker output too low.	Automatic audio tuning has failed, because speaker output is too low.	Check connection and settings of speakers.
Automatic audio tuning failed, because of speaker output undetected.	Automatic audio tuning has failed, because the system could not detect audio output from speaker.	

Display	Description	What to do
Automatic audio tuning failed, because of measurement environment too noisy.	Automatic audio tuning has failed, because measurement environment is too noisy.	Do not make any noise during execution.
Automatic audio tuning failed, because of audio input from peripheral Dante mic undetected.	Automatic audio tuning has failed, because the system could not detect audio input from Dante microphone.	Check audio input on Audio Input page.
Automatic audio tuning failed, because of no peripheral Dante mic registered.	Automatic audio tuning has failed, because peripheral Dante microphone is not registered.	Register at least one peripheral Dante microphone.
Automatic audio tuning failed, because of peripheral network disconnection.	Automatic audio tuning failed, because of peripheral network disconnection.	Check network settings and connection.
Dante started in fail safe mode	Dante has started in failsafe mode.	Execute Failsafe Recovery using Audinate's firmware update tool.
Unable to configure Dante, because the Dante device is locked.	Dante is currently limited to control settings, because the device is locked.	Unlock device lock using Dante Controller or check Dante Domain Manager settings.
Resume data lost	The settings saved in internal memory has been lost.	Initialize the memory. If this dose not solve the problem, contact your Yamaha dealer.
Saving setting data failed	The device has not started up correctly.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please initialize the memory. Contact your Yamaha dealer if problem still exists.
CPU temperature too high	CPU temperature has been too high.	Turn the power off, let the CPU cool down. Turn the power on again. If the temperature is still too high, check the installation environment and whether dirt or a foreign object could have clogged the cooling fan, and clean the fan if necessary.
Fan hardware error	Hardware error has occurred in fan speed.	Check whether dirt or a foreign object could have clogged the cooling fan, and clean the fan if necessary. If this does not solve the problem, please turn the power off, then turn the power on after waiting at least six seconds. Should this also fails, contact your Yamaha dealer.
Too many devices on the network	Too many devices are connected to the network.	Reduce the number of devices connected to the network.
Configuration import failed, because of file download failure (*)	Configuration import has failed, because of file download failure.	Check network, server address settings, existence of configuration file at server.
Configuration import failed, because of file format error (*)	Configuration import has failed, because of file format error.	Check contents and format of configuration file.
Configuration import transfer failed, because of wrong filename or peripheral disconnected (*)	Configuration import transfer has failed, because of wrong filename or peripheral disconnected.	Check file name and connection status of peripheral device.
Configuration import failed, because the system is busy (*)	Configuration import has failed, because of system busy.	Check device status and try again. If it is still not working, please update firmware or reset all of the settings.
Configuration import failed, because of internal error (*)	Configuration import has failed, because of internal error.	Try again. If its not working again, please update firmware or reset all of settings.
Schedule data lost	The schedule data saved in internal memory has been lost.	If this occurs often, contact your Yamaha dealer.

Display	Description	What to do
Peripheral communication error	A peripheral device within the system was not found on the network.	Power-on all peripheral devices in the system, and make sure that they are correctly connected to the network.
SIP unavailable, because of server registration error	SIP is currently unavailable, because of server registration failure.	Check SIP and network settings.
SIP server registration failed (code: *)	SIP server registration failure has occurred.	Check error code and settings.
SIP internal error	SIP internal error occurred.	Please check that there are no problems with the RM-CR's SIP configurations.
Factory reset failed	Factory reset has failed.	
* reset failed	Partial reset has failed.	
Web UI login failure by *	Web GUI login failure has occurred by (IP address).	Check password.
Scheduling event failed, because of *	Scheduling event has failed.	Check the number of scheduled events.
Bluetooth hardware restarted	Bluetooth had not worked correctly and was restarted.	If this occurs often, contact your Yamaha dealer.
Audio processing restarted	Audio processing failure has occurred, then restarted.	