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).

Information

- 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.

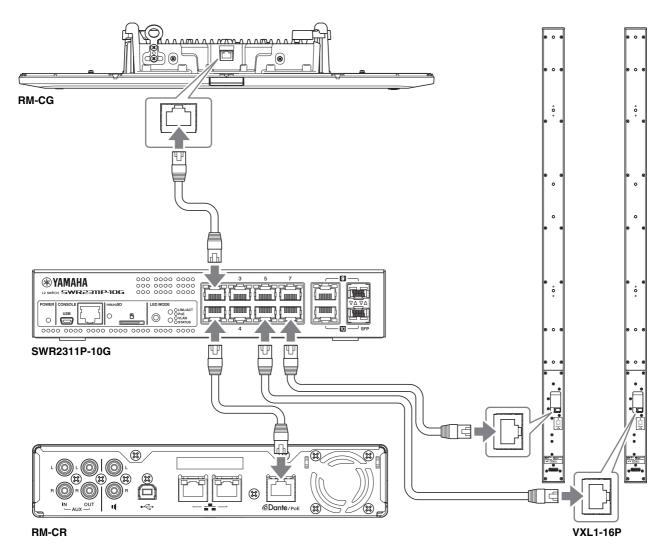
SETUP

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

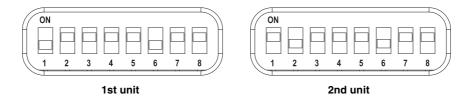
Connecting to peripheral devices

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.

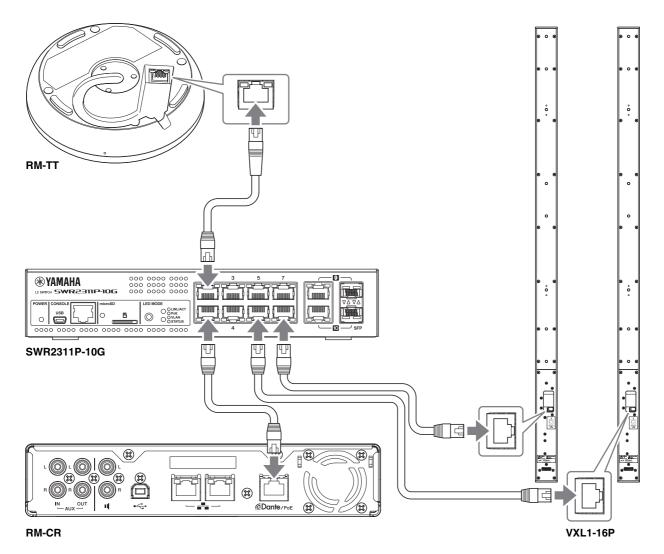
■ For an ADECIA ceiling solution



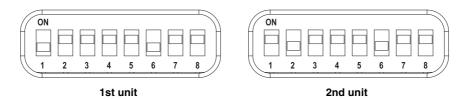
IMPORTANT: There is a DIP switch for specifying settings on the back of each VXL1-16P. Before plugging in LAN cables, set the DIP switches as shown below. The DIP switch settings on the two units must not be the same.



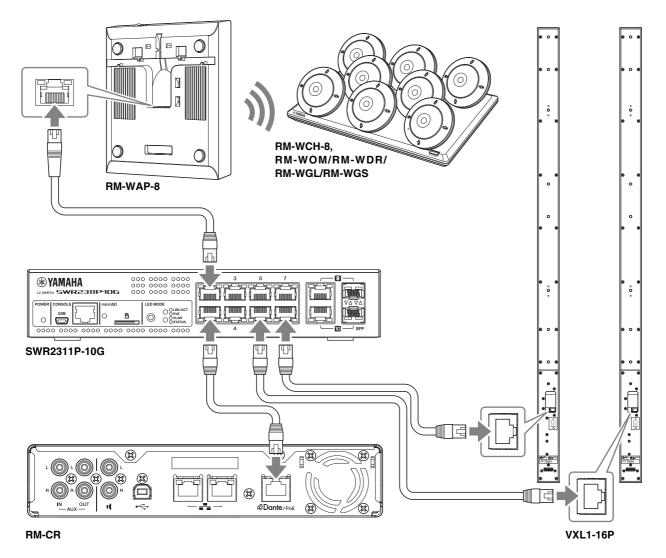
■ For an ADECIA tabletop solution



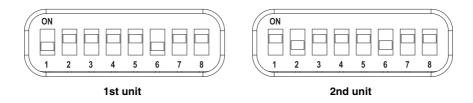
IMPORTANT: There is a DIP switch for specifying settings on the back of each VXL1-16P. Before plugging in LAN cables, set the DIP switches as shown below. The DIP switch settings on the two units must not be the same.



■ For an ADECIA wireless solution



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.

- **NOTICE:** 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.
 - With an ADECIA wireless solution using RM-WAP, be sure to first use the SITE SURVEY function in the Web GUI "RM-WAP Device Manager" to check the signal conditions in the area. For details, refer to the Reference Manual for the RM Series Wireless Microphone System.

Setting up using the Web GUI

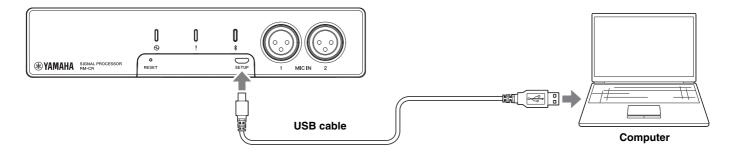
After connecting this unit to peripheral devices, set it up using the Web GUI "RM-CR Device Manager".

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.

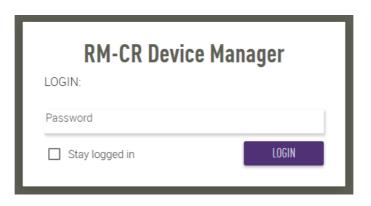
4. Click the [SIGN UP] button in the first login window.



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

RM-CR Device Manager Please set an initial password.				
Device Manager Account (i)				
Password				
This field is required.				
Please enter password again.				
This field is required.				
SUBMIT				

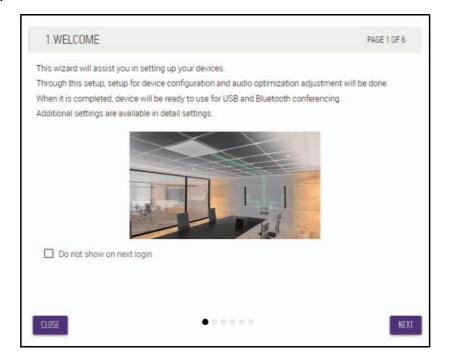
6. Type the password into the login window, and then click the [LOGIN] button. The wizard starts up.



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

[1. WELCOME]

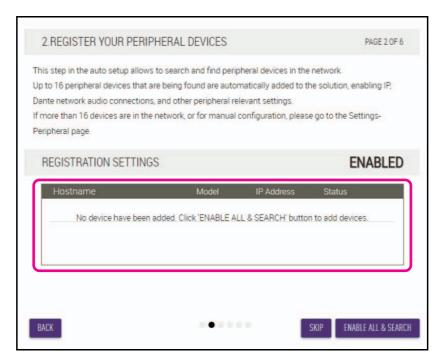
Click the [NEXT] button.



[2. REGISTER YOUR PERIPHERAL DEVICE]

① Click the [ENABLE ALL & 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 5.)



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

his step in the auto setup allows to to 16 peripheral devices that are b				
ante network audio connections, an				Solution, chubining it,
f more than 16 devices are in the net	work,	or for manual o	configuration, please	go to the Settings-
Peripheral page.				
REGISTRATION SETTINGS				SEARCHING
REGISTRATION SET TINGS				SEARCHING
Hostname		Model	IP Address	Status
Y001-Yamaha-RM-WAP-8-a29	*	RM-WAP-8	169.254.7.249	connected
Y001-Yamaha-RM-TT-BF76FE	*	RM-TT	169.254.192.212	connected
Y001-Yamaha-RM-TT-A28918	*	RM-TT	169.254.31.107	connected
Y002-Yamaha-RM-CG-000002		RM-CG	169.254.212.85	connected
Representation and the property of the propert				•

Items [2-1] to [2-3] below appear only in an ADECIA wireless solution that comprises RM-W. NOTE:

[2-1. CHECKING WIRELESS ENVIROMENT]

Peripheral devices are detected by RM-WAP and displayed in the list.

Click the [NEXT] button.

2-1.CHECKING WIRELES	SENVIRONMENT		PAGE 2 OF 6
o ensure that the wireless micro	ophones will work without	t problems in the environ	iment, perform a SITE
URVEY first to ensure the wirele	ess spectrum provides en	ough avilability to operat	te the wireless
nicrophones.			
ITE SURVEY is availble through	the RM-WAP Web UI. Ple	ase access to RM-WAP	IP Address directly.
Hostname	Model	IP Address	
Y001-Yamaha-RM-WAP-8-a2	29 🕷 RM-WAP-8	169 254 7 249	
/ireless interference might caus	e disruption to the operat	tion of wireless micropho	ones, including sudde
udio loss and loss of connectivi		the state of the second se	
or more details, please refer to F	RM-WAP documentation.		
			_
BACK			NE

[2-2. PAIR CHARGERS WITH RM-WAP]

Pair the RM-WAP and charger.

- 1 Select the RM-WAP, and then click the [PAIR] button.
- ② Long-press the PAIR button on the RM-WCH for at least two seconds.
- ③ Click the [NEXT] button.

elect a RM-WAP to pair with		
Y001-Yamaha-RM-W4 PAIR	AP-8-a29022 👻	
Name	Paired RM-WAP	
01-RM-WCH-8-0357026710) 🛞 Y001-Yamaha-RM-W	/AP-8-a29022

[2-3. PAIR MICHROPHONE WITH RM-WAP]

Pair the RM-WAP and wireless microphones.

IMPORTANT: Place all wireless microphones on the charger.

- ① Select the RM-WAP, and then click the [PAIR] button.
- 2 Long-press the ACTIVATE button on the RM-WCH for at least two seconds.
- ③ Click the [NEXT] button.

			crophones with RM-WAP via chargers. All ress ACTIVATE buttons on chargers after selecting
WAP and clicking PAIR button.	laiyers. r	Jease h	ess ACTIVATE buttons on chargers arter selecting
elect RM-WAP to pair with micro	ophones		
Y001-Yamaha-RM-WAP-8	3-b26c95	٦	*
PAIR			
Name		Туре	Paired RM-WAP
01-RM-WDR-035700D628	*	DR	Y001-Yamaha-RM-WAP-8-b26c95
02-RM-WDR-035700D6A0	*	DR	Y001-Yamaha-RM-WAP-8-b26c95
03-RM-WDR-035700D740	*	DR	Y001-Yamaha-RM-WAP-8-b26c95
04-RM-WGS-035700C468	1927	GS	Y001-Yamaha-BM-WAP-8-b26c95

[3. CHECK FIRMWARE VERSION]

Check the versions of the firmware, and then click the [NEXT] button.

	hargers connected	t to the RM-WAP can be updated in the accessed via REGISTRATION SETTINGS on the
ripheral page.		
DTE: Components showing Firmware Hostname	Model	Version(Main / Dante)
Y001-Yamaha-RM-WAP-8-a29	RM-WAP-8	1.7.7b.120 / 4.2.6.4
Y065-Yamaha-VXL1-16P-3344	VXL1-16P	R1.2.0a0.2 / 4.02.02.03
Y066-Yamaha-VXL1-16P-4E30	* VXL1-16P	R1.2.0a0.2 / 4.02.02.03

 NOTE:
 If the firmware must be updated, the version number appears in red.

 Update the firmware of RM-CR, RM-CG, RM-TT, RM-WAP and VXL1-16P via TOOLS→Update→FIRMWARE

 UPDATE in the Web GUI "RM-CR Device Manager". (Refer to page 48.)

 Update the firmware of RM-WCH, RM-WOM, RM-WDR, RM-WGL and RM-WGS via

 SETTINGS→Peripheral→REGISTRATION SETTINGS→Details→VIEW→FIRMWARE UPDATE in the Web GUI "RM-CR Device Manager". (Refer to page 35.)

[4. 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.

E: For mono use only, choose Lef	t for all devices.	85	VI-CR to Dante speaker.
Hostname	Model	Position	
Y065-Yamaha-VXL1-16P-3344	WXL1-16P	Left	
Y066-Yamaha-VXL1-16P-4E30	🛞 VXL1-16P	Right	
	<u> </u>		

RM-CR Reference Manual

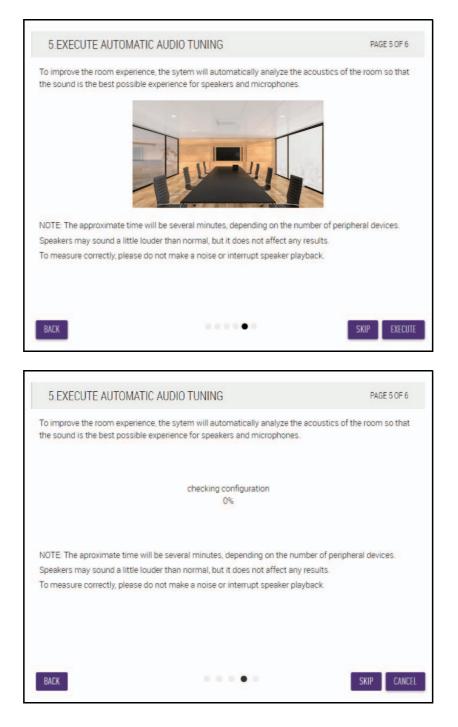
[5. EXECUTE AUTOMATIC AUDIO TUNING]

① Click the [EXECUTE] button.

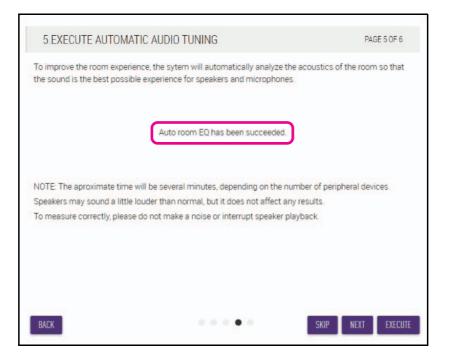
The window changes, and automatic audio tuning begins.

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

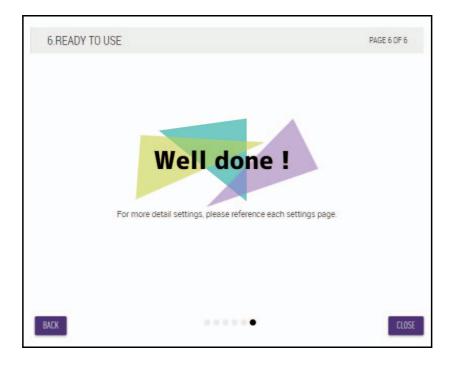
NOTE: Sound is output from the speakers during tuning.



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



[5. READY TO USE] Click the [CLOSE] button.

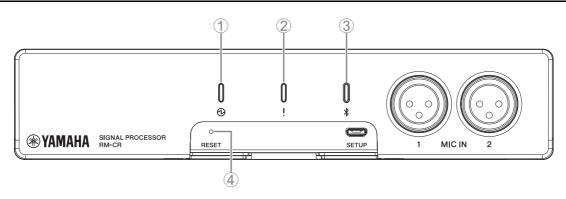


This completes the setup.

NOTE: Use the Web GUI "RM-CR Device Manager" to specify detailed settings for this unit. For details, refer to page 22.

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 icon in Web GUI clicked	Flashes white	Responding (to Identify function)
Updating firmware	Flashes white quickly	Firmware being updated
Updating firmware	(After flashing white quickly) Flashes green quickly	Firmware updated successfully
-	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 54.

③ \$ (Bluetooth[®]) button/indicator

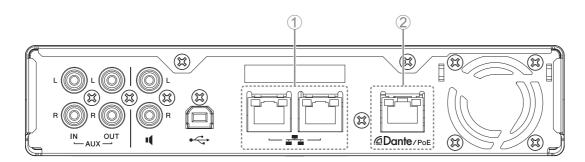
Condition	Bluetooth indicator	Unit status
Making Bluetooth connection	Brightly lit blue	Bluetooth connection being made
Bluetooth in Web GUI enabled	Dimly lit blue	Not connected (although Bluetooth can be used)
Long-pressing the Bluetooth button (with Bluetooth enabled) for 4 seconds or more	Flashes 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 (leader)			
Right indicator flashes green	Acting as word-clock leader			
Right indicator flashes orange	Word clock unlocked			

CONNECTING COMMUNICATION DEVICES

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

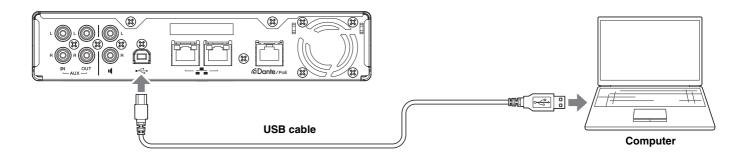
Connecting a computer

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].

Sound	×	Sound	×
Playback Recording Sounds Communications		Playback Recording Sounds Communications	
Select a playback device below to modify its settings:		Select a recording device below to modify its settings:	
Realtek High Definition Audio(SST) Ready		Headset Microphone Realtek High Definition Audio(SST) Not plugged in	
Echo Cancelling Speakerphone Yamaha RM-CR Default Device		Microphone Array Realtek High Definition Audio(SST) Ready	
		Echo Cancelling Speakerphone Yamaha RM-CR Default Device	
Configure Set Default 💌 Pr	operties	Configure Set Default V Properties	
Comgare Set Deladit Y Er	operties	Set Delaut Properties	
OK Cancel	Apply	OK Cancel Apply	

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.

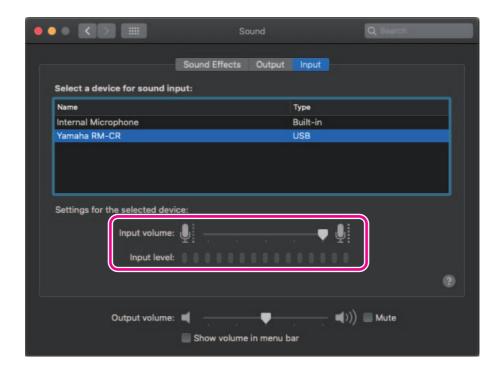
🧢 Echo Cancelling Speake	erphone Propert	ies	×
General Levels Advanced			
Echo Cancelling Speakerpho	ne	50	
	ОК	Cancel	Apply

[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) as necessary. The adjuster is available on the [Input] tab.

	Sound	Q Search
	Sound Effects Output Input	
Select a device for sound	output:	
Name	Туре	
Internal Speakers	Built-in	
Yamaha RM-CR	USB	
Settings for the selected d	evice:	
	avice: The selected device has no output con	trols
		trols
	The selected device has no output con	trols ♥ ■())) ☑ Mute



Connecting a smartphone

Prepare the following.

Smartphone

NOTE:

- **IMPORTANT:** Bluetooth must first be enabled in the Web GUI. For details, refer to page 29.
 - 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 on the front panel of the unit for four seconds or more.

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

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

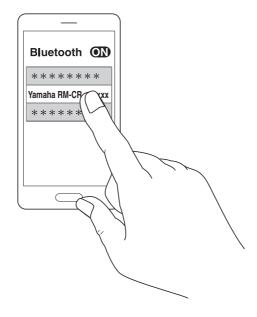


2. Enable Bluetooth on the smartphone, and select [Yamaha RM-CR-XXXXXX] (where "XXXXXX" is the MAC address of this unit).

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). The passkey can be changed in the Web GUI.

- 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 while the Bluetooth 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 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.

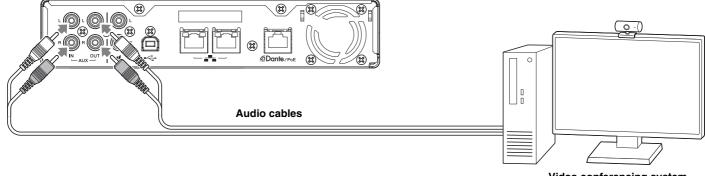
Connecting a video conferencing system

Prepare the following.

NOTE:

- Video conferencing system
- Audio cable with stereo RCA jacks on one end or both ends ×2
 - 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.



Video conferencing system

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

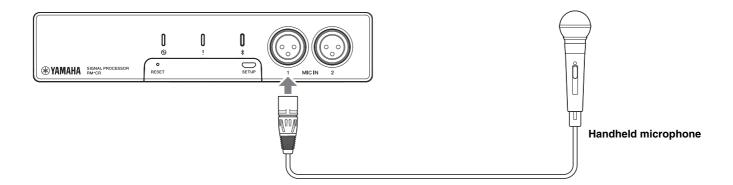
Connect this unit to a handheld microphone to talk with the other party and amplify your voice at your location.

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

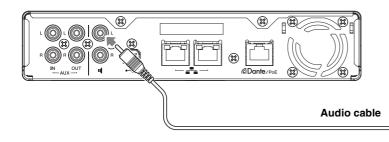
Connect this unit to a speaker with built-in amplifier to expand the playback range at your location.

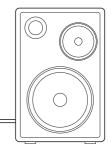
Prepare the following.

- Speaker with built-in amplifier
- · Audio cable with RCA jack on one end or both ends
 - **NOTICE:** 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.





Speaker with built-in amplifier

WEB GUI

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

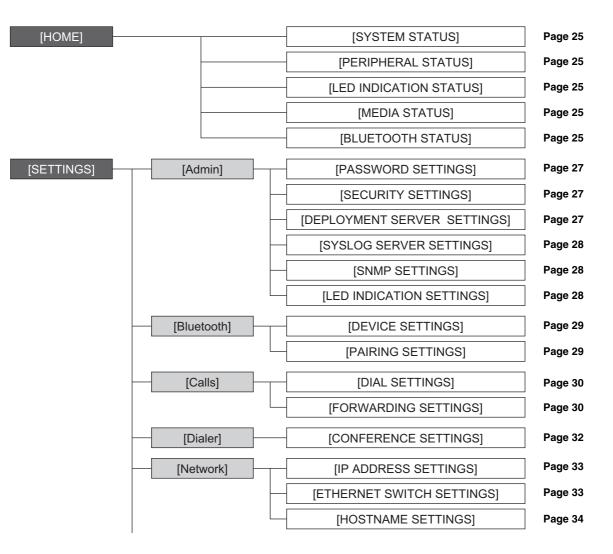
Starting RM-CR Device Manager

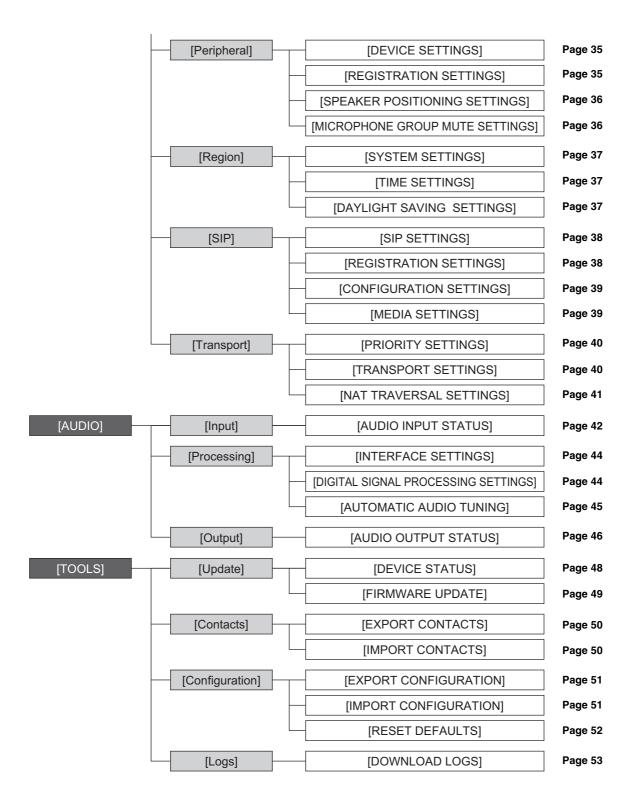
- **1.** Connect this unit and the computer with an A-micro B type USB cable.
- **2.** Start a browser (Google Chrome or Safari) on the computer and type "172.16.0.1" in the address bar. The RM-CR Device Manager starts up.
- **3.** Type the specified password into the login window, and then click the [LOGIN] button. The [HOME] window appears.

This completes the startup.

Structure of RM-CR Device Manager

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





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

i (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.

[1] (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.

(*) YAMAH	A		RM-CR	Device	LOGOUT _{E→}			
		A	<	>	u∯i+	×	AUTO SETU	IP © SUBMIT
			SETT	INGS				
Admin	Bluetooth	Calls	Dialer	Network	Peripheral	Region	SIP	Transport
Admi Configure a	n dministration setti	ngs						
PASSW	ORD SETTINGS	6						
Device M	lanager Account							

[HOME]

AMAHA		CR Device Mai			LC
_	HOME	• •	×	AUTO SETUP 🥥	-
	_				
lome					
ew status of system and paired devic	ces				
SYSTEM STATUS					
Hostname:	Y001-Yamaha-RM-CR-6	F084A 🕷			
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: Main Version:	172.16.0.1 V1.0.2				
Serial Number:	S7A000323				
PERIPHERAL STATUS				ENA	BLE
Hostname	Model	MAC Address	IP Addr	ess Status	
Y001-Yamaha-RM-CG-3004DE	RM-CG	AC:44:F2:30:04:DE	169.254.2	32.225 Connected	
Y065	× VXL1-16P	AC:44:F2:4E:31:84	169.254.	133.49 Connected	
Y065	WXL1-16P	AC:44:F2:4E:1F:8B	169.254.	140.31 Connected	
LED INDICATION STATUS					
Power:	Green lit		<i>i</i>)		
Status:	unlit		i		
Bluetooth:	Blue lit		i)		
MEDIA STATUS					
Bluetooth Call Status:	Inactive				
Bluetooth Audio Stream:	Inactive				
SIP1 Call Status: SIP2 Call Status:	Inactive				
USB Call Status:	Inactive				
USB Audio Stream:	Inactive				
BLUETOOTH STATUS				ENA	BLE
Bluetooth Name: RM-CR Yama	aha-6F122D				
	:F4:6F:12:2D				
Bluetooth MAC Address: 34:81			Statu	S	
Bluetooth MAC Address: 34:81 Paired Devices	11	MAC Address			
		MAC Address No phones have been pair	ed.		

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.

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]

۲	YAMAHA	l		RM-CR D	levice M	anager			LOGOUT ⊡ +
			A	¢) ++	×	AUTO SETUP 🤹	SUBMIT
_	Admin	Bluetooth	Calls	SETTING Dialer	S Network	Peripheral	Region	SIP	Transport
	Admi Configure ad	n Iministration setting	IS						
1		ORD SETTINGS							
l	Device Ma	anager Account							
2	SECURIT	TY SETTINGS							
	🗹 Ena	ble call history (
l	🖂 Ena	ble SCP remote con	trol access (i)						
3	DEPLOY	MENT SERVER	SETTINGS						
	🖌 Ena	ble deployment ser	ver (i)						
	🗖 Ena	ble automatic serve	er discovery (
	Provisionii	ng interval (minutes) (i)						
	•				1440				
	Primary si This field is re								
	Secondar	y server							

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 SERVER SETTINGS	
	Z Enable Syslog (i)	
_	Server address	
	0.0.0.0	
-	Port number	
L	514	
5	SNMP SETTINGS	
	Z Enable SNMP	
	Server address	<i>w</i>
_		~
	Read-only community public	
	Device location	
_		
	Contact name	
6	LED INDICATION SETTINGS	
	Brightness High	1
_		
	LED mute indicator color while system is not in a call	0
L	White •	

④ [SYSLOG SERVER SETTINGS]

Allows you to select whether to use a Syslog server.

⑤ [SNMP SETTINGS]

Allows you to select whether to use SNMP.

(6) [LED INDICATION SETTINGS]

- Allows you to check/adjust the brightness of the indicators.
- Allows you to check/change the color of indicators when there is no call. Select one of the following: White, Green, No color.

[Bluetooth]

YAMAHA	RM-C	R Device N	lanager			LOGOU
	A	O +	• ×	AUTO SETUP	٥	SUBI
Admin Bluetooth Cal	s Dialer	SETTINGS Network	Peripheral	Region	SIP	Transport
Bluetooth						
Configure bluetooth settings						
DEVICE SETTINGS						
Enable Bluetooth (1)						
Device name RM-CR Yamaha-6F122D						
Pairing pin						
0000						
Pairing and connection timeout (seconds)	(I) 60					
Pairing and connection timeout (seconds)						ENABLED
Pairing and connection timeout (seconds)						ENABLED
Pairing and connection timeout (seconds) Enable auto-unpair (1) PAIRING SETTINGS Device Name: RM-CR Yamaha-6F122 MAC Address: 34:81:F4:6F:12:2D						ENABLED
Pairing and connection timeout (seconds) Enable auto-unpair PAIRING SETTINGS Device Name: RM-CR Yamaha-6F122	- 60 D	AC Address		Status		ENABLED

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]

æγ	amaha			RM-	CR Devic	e Manag	er		LOGOUT⊑+
				A	¢	- ()	* A	UTO SETUP 🧔	SUBMIT
	Admin	Bluetooth	Calls	Dialer	SETTINGS Networ	k Peri	pheral Regi	on	SIP Transport
(
	Calls onfigure calls se	ettings							
1	DIAL SETTI								
			ination						
		nessage waiting ind not Disturb (DnD) mo							
		auto-answer (de 1						
	Ring tone type Ring 1	1			• i				
	Ring tone volu	me(×0.01db) i							
				-240	0				
				-240					
	Voicemail num	nber							
	Maximum call	duration							
	0								
	Dial plan								
									J
2		NG SETTINGS							
Ĭ	FUNWARDI	NG SET TINGS							
	 Always f 	forward (i)							
	-								
	Forward numb								
	Forward	on busy (i)							
	Forward numb								
-	This field is required								
	Forward	on no answer 🧃							
	Forward numb	ber							
	This field is required	d.							
	Dalas								
	Delay on no an	iswer (1)							
	-	•		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]

B YAMAHA	A	RM-CR Device Manager							
		A	Ö	ŧ .	þe	×	AUTO SETUP 😅 S		
Admin	Bluetooth	Calls	SETTIN Dialer	IGS Network	Peripheral	Region	SIP	Transport	
Diale	r								
	lialer settings								
CONFE	RENCE SETTIN	GS							
En En	able auto-join								
100 00000	all sectors and the sector								
	hable auto-join. By (se of using USB an								
		RM-C	R Device Manager ©	Yamaha Corporatio	n 2021. All rights rese	rved.			

① [CONFERENCE SETTINGS]

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

[Network]

YAMAH	A		RM-CR	Device I	Manager			LOGOU
		A	0		rillite	×	AUTO SETUP 🔇	SUBI
			SETTIN	_				
Admin	Bluetooth	Calls	Dialer	Network	Peripheral	Region	SIP	Transpor
Matu								
Netw								
	network settings	2						
IP ADD	RESS SETTINGS	5						
Cor	rporate Network	O Device Ne	twork including D	ante/PoE	O Front Pane	el USB Network		
E En	able DHCP (1)							
IP Addre 192.168								
192,100.					1			
Subnet n	nask							
255.255.					1			
Default g	gateway				_			
0.0.0.0					1			
Primary	DNS							
0.0.0.0					i			
Seconda	ry DNS				_			
0.0.0.0					i			
ETHER	NET SWITCH SE	TTINGS						
Mode								
Separated								
				C David March				
	hernet switch mode ports are internally		mode, the ethernet	t ports for Cor	porate Network	and the Dante/PoE p	ort are isolated. In	Switched

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.

Versela Hereita	union take the	•	
Yamaha Hostname	using Unit ID	. 1	
UnitID			
1		•	
Hostname			
Y001-Yamaha-F	RM-CR-202813		

③ [HOSTNAME SETTINGS]

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

[Peripheral]

⊛ YAMA	HA		RM-0	R Devic	e Manage	r		LOGOUT
			•	C Settings	* X	AUTO SE	TUP ወ	SUBMIT
Admin	Bluetooth	Calls	Dialer	Networ	k Periphera	l Region	SIP	Transport
Dori	phoral							
	pheral							
1	e peripheral setting	gs						
DEVI	CE SETTINGS							
	Enable Peripheral	controls (i)						
	Enable automatic	Dante audio ro	outing (i)					
	Enable microphon	e group mute	control (i).				
REGIS	STRATION SET	TINGS					EN	ABLED
Hostn	ame: Y001-Yam	aha-RM-CR-	6F0831					
	Address: AC:44:F							
Device	e Network IP Add	dress: 169.2	54.239.11	7				
SEA	RCH							
Host	name			Model	IP Address	Status	Registration	Details
Y001-	Yamaha-RM-WAP-	8-a29022	*	RM-WAP-8	169.254.7.249	connected	REMOVE	VIEW
Y065-1	Yamaha-VXL1-16P	-334455	*	VXL1-16P	169.254.86.68	connected	REMOVE	

① [DEVICE SETTINGS]

- Allows you to select whether to link the system for this unit with the system for peripherals.
- Allows you to select whether to automatically route Dante audio.
- Allows you to select whether to enable the group mute function of the microphones. When enabled, microphones can be grouped and muted as a group. When disabled, all microphones are muted.

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.

NOTE: For mono use only, choose Left for	all device.	2.			
Hostname		Model	Position		
Y065-Yamaha-VXL1-16P-334455	*	VXL1-16P	Left	*	
Y066-Yamaha-VXL1-16P-4E3034	廉	VXL1-16P	Right	-	
MICROPHONE GROUP MUTE SE Microphones can be grouped to share the follow to be muted.			crophone cha	nges to be muted, ot	ENABL hers in the same grou
Microphones can be grouped to share the			crophone cha Group	nges to be muted, ot	
Microphones can be grouped to share the follow to be muted.		atus. If one mi	Group	nges to be muted, ot	
Microphones can be grouped to share the follow to be muted. Hostname	eir mute sta	atus. If one mi Model	Group	nges to be muted, ot	

③ [SPEAKER POSITIONING SETTINGS]

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

④ [MICROPHONE GROUP MUTE SETTINGS]

Allows you to group the microphones. Grouping microphones links them when turning one on/off.

[Region]

*	YAMAHA			RM-	CR Devi	ce Mai	nager			LOGOUT⊑•
				A	0	•	×	AUTO S	etup 🔿	SUBMIT
	Admin	Bluetooth	Calls	Dialer	SETTINGS Netv	vork	Peripheral	Region	SIP	Transport
	Regior									
1	Configure regions SYSTEM S									
I										
	Regional cal	l progress tones			· i					
	Time zone									
l	0:00 GMT				· i					
2	TIME SET	TINGS								
_	🗹 NTP s	upport i								
	Network tim	e server 1			i					
	Network tim	e server 2								
	Network tim	e server 3								
	Network tim	e server 4			1					
3	DAYLIGHT	SAVING SETTIN	IGS							$ \longrightarrow$
ľ	Enable	e Daylight Saving Tin	ne adjustment 🧃							
	Daylight Sav	ing Time start time	1							
	Month	Week		Day		Hour				
	January	• First	÷.	Monday	•	00:00	्			
	Daylight Sav	ing Time end time	1							
	Month	Week		Day		Hour				
l	January	- First		Monday	•	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]

*	Yamah/	A		RM-(CR Device M	anager			LOGOUT⊑+
				A	¢	×	AUTO SETUP	>	SUBMIT
	Admin	Bluetooth	Calls	Dialer	SETTINGS Network	Peripheral	Region	SIP	Transport
	Sip Configure si	in settings							
1	SIP SET								
E	_								
	L) Ena	able SIP i							$ \longrightarrow $
2	REGIST	RATION SETTINGS	6						
	Registrar This field is r				i				
	Backup n	egister			i				
	VoIP real	m							
	*				i				
	Proxy								
			-						
	Use	e proxy for registration							
	Usernam	e							
	This field is r	required.							
	Passwor	d							
	0.00000000								
	User ID				L.C.				
	Disci								
	Display n	ame							

① [SIP SETTINGS]

Allows you to select whether to use SIP.

② [REGISTRATION SETTINGS]

Allows you to register the SIP server.

Use	
	e SIP session timers
Opti	onal - ()
Se	ssion timers expiration
18	
	ssion timers min expiration
90	
	Require reliable SIP provisional response (1)
	Enable SIP traversal behind symmetric NAT
	Allow strict routing 🕧
	Minimize SIP message size 👔
DT	MF signaling method
	(RFC2833) • 1
	dia on-hold method ne only (RFC3264) • ()
ME	EDIA SETTINGS
Auc	dio codec 1
E	inabled
	6.722
	G.711 µ-law (PCMU)
	G.711 A-Iaw (PCMA)
	G.725
	G.729
i	0.13
-	Disabled
D	

③ [CONFIGURATION SETTINGS]

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

④ [MEDIA SETTINGS]

- Allows you to sort audio codecs into [Enabled] and [Disabled] by dragging and dropping them. The codec placed at the top of the [Enabled] box has a higher priority with this unit.
- Allows you to check/adjust the interval at which audio packets are sent.

[Transport]

® YAMAHA			RM-CR	Device I	LOGOUT∈→			
		A	0		-	×	AUTO SETUP	🕫 SUBMIT
	N	C 11	SETTIN	_	D. I. I.	0	cin	T
Admin	Bluetooth	Calls	Dialer	Network	Peripheral	Region	SIP	Transport
Tranc	port							
Trans	6 M							
	nsport settings							
PRIORIT	Y SETTINGS							
	ole QoS (i)							
								$ \longrightarrow$
2 TRANSP	ORT SETTING	S						
	ole TCP transport	protocol (i)						
Local port 5060								
5060								
Enable SR	TP							
Disabled					• 1			
RTP port								
4000					(1)			
SIP/RTP IF	Daddrass							
SIF/RIPI	audress				<i>i</i>			

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.

STUN server		
Enable ICE (i)		
Enable aggressive ICE nomination (1)		
Disable RTCP in ICE		
Max allowed ICE host candidates		
5		
Enable TURN relay i		
TURN server		
This field is required.		
Use TCP connection to TURN server (i)		
TURN username	(i)	
This field is required.		
TURN password	(i)	
This field is required.		

③ [NAT TRAVERSAL SETTINGS]

Allows you to check/change the settings related to NAT traversal.

[AUDIO]

[Input]

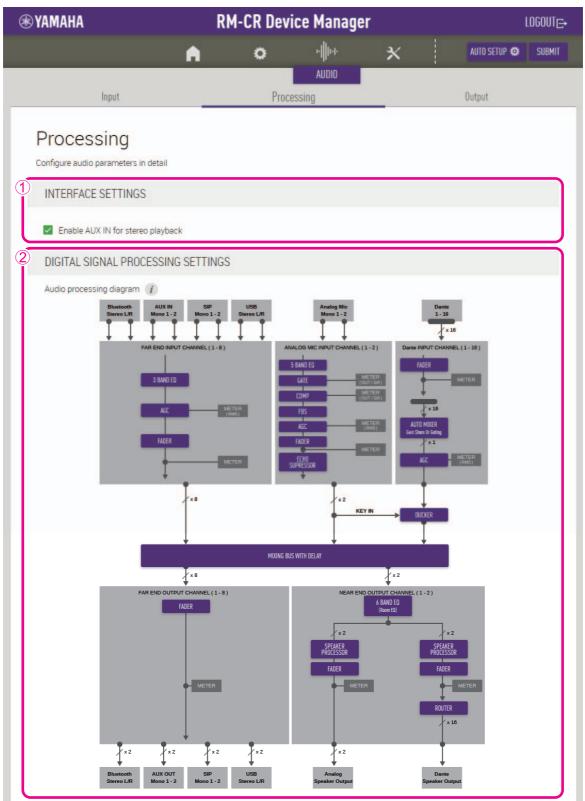
AUDO Processing	AUTO SETUP 🍅	
	Dutput	

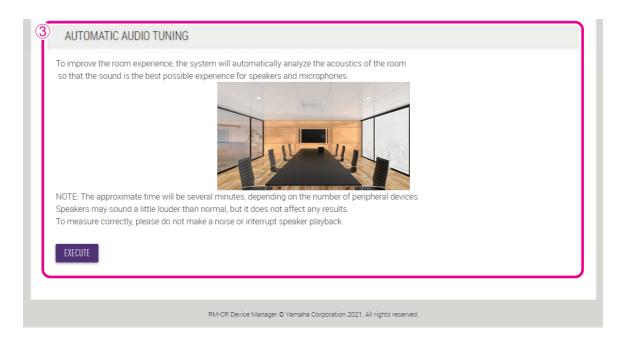
Ch.	Signal	Connected to	Model
1	•	01@Y001-Yamaha-RM-CG-800162	RM-CG
2	•		
3	•		
4	•		
5	•		
6	•		
7	•		
8	•		
9	•		
10	•		
11	•		
12	•		
13	•		
14	•		
15	•		
16	•		

① [AUDIO INPUT STATUS]

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

[Processing]





① [INTERFACE SETTINGS]

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

② [DIGITAL SIGNAL PROCESSING SETTINGS]

Click a button in the [Audio processing diagram] to open a window for checking/changing parameters for digital signal processing. **IMPORTANT:** Parameter changes are immediately reflected in the acoustics of the unit.

③ [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-C	CR Dev	ice Mana	ger			LOGOUT
	A	o	н <mark>ф</mark> и	×		AUTO SETUP 😳	
Input		Proc	AUDIO essing			Output	<u></u>
Output View status of audio output					_		
Bluetooth No devices connected. Ch. Signal 1(L) 2(R)	_	-	_	-			
AUX OUT Ch. Signal 1 2							
SIP Ch. Signal 1 2							
US8 Ch. Signal 1 2							
Analog Speaker Output Ch. Signal 1 2							

Ch.	Signal	Connected to	Model
	•	01@Y001-Yamaha-RM-CG-800162	RM-CG
	•	01@Y065-Yamaha-VXL1-16P	VXL1-16P
	•	01@Y066-Yamaha-VXL1-16P-8048bd	VXL1-16P
	•		
	•		
	•		
	•		
	•		
	•		
0	•		
1	•		
2	•		
3	•		
4	•		
5	•		
5	•		

① [AUDIO OUTPUT STATUS]

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

[TOOLS]

[Update]

мана		R	M-CR Devic	e Manager		
		•	0	-I	×	AUTO SETUP 🔅
Update		(Contacts	Configuratio	TOOLS	Logs
a al a tra						
pdate ate firmware of RM-CR, perig	oherel	levices				
DEVICE STATUS	pricial (JENILES.				
Hostname:	~	001-Vemebe	a-RM-CR-202813 🜸			
Model:		M-CR	1100-00-202013 M			
WIOUEI.						
IP Address(Main / Dante):			/ 10.130.63.206			
IP Address(Main / Dante): Version(Main / Dante):	V	1.1.0 / 4.02.0				
IP Address(Main / Dante):	V					
IP Address(Main / Dante): Version(Main / Dante):	V	1.1.0 / 4.02.0		/ Dante)	Version(Main / Dante	e) Updatability
IP Address(Main / Dante): Version(Main / Dante): Updatability:	V	(1.1.0 / 4.02.0 leady	04.02		Version(Main / Dante V1.1.0 / 4.02.02.03	e) Updatability Ready
IP Address(Main / Dante): Version(Main / Dante): Updatability: Hostname	V	1.1.0 / 4.02.0 leady Model	04.02 IP Address(Main	130.63.29		

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].
- If the firmware must be updated, the version number appears in red.
- **IMPORTANT:** In order to update Dante, the network portion of this unit's IP address and the network portion of Dante's IP address must be the same.

	allows for updating the RM-CR as well as connected peripheral devices. Firmware update result will only be irmware update status of peripheral devices, please refer to the above device status section or the log files.
	Drag and drop or click here to select a file
schedule an updat	e for 00 • : 00 •
EXECUTE	

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.

The files for the latest firmware can be downloaded from the Yamaha website.

Yamaha website

U.S.A. and Canada: https://uc.yamaha.com/support/ Other countries: https://download.yamaha.com/

• Allows you to specify that the update will be performed automatically after the specified length of time.

[Contacts]

⊛γ	амана	R	M-CR Devi	ice Manager		71		LOGOUT⊑→		
		•	0	н∰н+	×		AUTO SETUP 🔅			
_	Update	C	ontacts	Configuratio	TOOLS	/1	Logs			
	Contacts Aanage contacts for Dialer									
1	EXPORT CONTACTS									
2	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 IMPORT CONTACTS									
	Drag and drop or click here to select a file									
	IMPORT									
		RM-CR Devic	e Manager © Yamaha	Corporation 2021. All rights	s reserved.					

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]

⊛YAMAH A		RM	1-CR Devi	ce Manage	r	- 10-	LOGOUT⊑+
		A	0	н <mark>ј</mark> не	×	AUTO SETUP 🤹	>
	Update	Cor	ntacts	Configurat	TOOLS	Logs	
Manage set	guration	efer to their each	details.				
Export of	RT CONFIGURATION levice configuration to an export all settings except EXPORT		sword and the SI	P password.			
NOTE: Thi	RT CONFIGURATION s import section allows fo for the RM-CR. For result				nnected periphera	I devices. Import result w	vill only
		I	Drag and drop or clic	k here to select a file			
	IMPORT						

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.

0	Restore ALL defaults		
0	Network settings		
0	Call history		
0	Contacts		
	RESET		

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]

⊛ YAMAHA		RM-CR Device Manager					LOGOUT⊑+
		A	0		× TOOLS	AUTO SETUP 😅	
	Update	Conta	icts	Confi	guration	Logs	
Logs							
Download logs of dev	ices						
DOWNLOAD LO	GS						
Download syslogs.	Error and fault logs are indic	cated by LED.					
DOWNL	DAD						
		RM-CR Device Mana	ager © Yamaha	Corporation 2020). All rights reserved.		

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. Internal error has been occurred with 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.
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
System error	The device has not started up correctly.	problem, please initialize the memory. Should this also fails, contact your Yamaha dealer.
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
logging error	Failed to restart logging.	solve the problem, please initialize settings.
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.	
SNMP error	SNMP operation has failed to start.	Turn the device off, then on again after waiting at least six seconds. If this does not solve the problem, initialize the memory. Contact your Yamaha dealer if the problem persists.

MAIN SPECIFICATIONS

General specifications

Dimensions		W215 mm × D264 mm × H44 mm			
Weight		1.6 kg			
Power supply		PoE+ (IEEE802.3at, LLDP), DC 48 V			
Maximum power	consumption	15.0 W			
Temperature	Operating	0 °C – 40 °C			
remperature	Storage	–20 °C – 60 °C			
Humidity	Operating	30% – 90% (non-condensing)			
Humidity	Storage	20% – 90% (non-condensing)			
Indicators		 Power Status Bluetooth Network Port Indicator (×3) 			
Included items		Installation manual, access panel (with screw),USB cable (A-B type), USB cable (A-micro B type), rubber feet (4 pcs.)			
Separately sold	items	Mounting accessory: RM-MTL Mounting accessory: RM-MRK			

Audio specifications

Frequency respon	nse		20 Hz – 20 kHz			
Sampling rate			48 kHz			
Bit depth	Bit depth		24-bit			
Latency			8 [ms] (Dante In to USB Out, including signal processing)			
	Dant	te	16 in × 16 out			
	USB		USB2.0 type-B, Audio Class 1.0 Input: 2ch, Output: 2ch @48 kHz			
	Mic	Input	XLR balanced, Input 2ch			
	AUX		RCA unbalanced (Line Level), Input: 2ch, Output: 2ch			
	Speaker Out		RCA unbalanced (Line Level), Output: 2ch			
Audio interface	Bluetooth		Version 4.2 Supported protocols: HFP (1.6), A2DP, AVRCP (1.6) Supported codecs: CVSD, SBC, mSBC Wireless output: Class 2 Maximum communication distance: 10 meters (no obstructions) Wireless frequencies (operating frequencies): 2,402 – 2,480 MHz Maximum output power (EIRP): 4.0 dBm (2.5 mW)			
		Call Handling	Dial, Answer, Hold, Resume, Forwarding, Do not disturb, Call ID, Voice Mail Notifications (switch configured)			
		Call Bridging	Supports Bridging SIP, USB, BT and AUX Calls. Join, Split, Hold, Resume, 5+1 Lines: Up to 2 SIP calls, 1 USB call, 1 Bluetooth call, 1 AUX, plus the user			
	SIP	Codecs	G.711, G.722HD, G.729ab, G.726			
		DTMF Support	RTP event, SIP in-band, SIP info package			
		Security	SRTP Support (RFC 1889), IETF SIP support (RFC 3261 and companion RFCs)			

Network specifications

[Dante/PoE] port	Dante Audio/Dante Control, remote control, WebUI, PoE+ supported Cable requirements: CAT5e or higher, STP
Network ports	Corporate Network, remote control, SIP, WebUI Cable requirements: CAT5e or higher, STP
[SETUP] port	USB2.0 micro, Network Class, WebUI, fixed IP Cable requirement: USB cable (A-micro B type)

Input/output characteristics

	Actual Load	For Use With	Input		
Input Terminal	Impedance	Nominal	Nominal	Max. Before Clip	Connector
MIC IN 1, 2	2.2 kΩ	50 – 600 Ω	–46 dBu	–26 dBu	XLR-3-31 (Balanced)
AUX IN L, R	20 kΩ	1 kΩ	–14 dBV	+6 dBV	RCA PIN

	Actual Source	For Use With	Outpu		
Output Terminal	Impedance	Nominal	Nominal	Max. Before Clip	Connector
AUX OUT L, R	1 kΩ	10 kΩ	–14 dBV	+6 dBV	RCA PIN
SP OUT L, R	1 kΩ	10 kΩ	–14 dBV	+6 dBV	RCA PIN