



SIGNAL PROCESSOR

RM-CR

CEILING MICROPHONE

RM-CG

BOUNDARY MICROPHONE

RM-TT

Web GUI Device Manager Operation Guide

Contents

Introduction	6
About this manual.....	6
About the software interface	7
Useful icons in screens	7
Applying settings specified in software screens	7
Screen structure of Web GUI Device Manager for RM-CR, RM-CG and RM-TT	8
[HOME]	10
① [SYSTEM STATUS]	10
② [PERIPHERAL STATUS]	11
③ [LED INDICATION STATUS].....	11
④ [MEDIA STATUS]	12
⑤ [BLUETOOTH STATUS].....	13
[SETTINGS]	14
[Admin].....	14
① [PASSWORD SETTINGS]	14
② [SECURITY SETTINGS]	14
③ [DEPLOYMENT SERVER SETTINGS]	15
④ [SYSLOG SERVER SETTINGS]	16
⑤ [SNMP SETTINGS]	16
⑥ [LED INDICATION SETTINGS]	17
[Bluetooth]	18
① [DEVICE SETTINGS].....	18
② [PAIRING SETTINGS]	19
[Calls]	20
① [DIAL SETTINGS].....	21
② [FORWARDING SETTINGS].....	22
[Dialer]	23
① [CONFERENCE SETTINGS]	23
[Network]	24
① [IP ADDRESS SETTINGS]	24
② [DANTE IP SETTINGS]	25
③ [ETHERNET SWITCH SETTINGS]	26
④ [HOSTNAME SETTINGS]	27
⑤ [IEEE802.1X SETTINGS]	28
[Peripheral].....	30
① [DEVICE SETTINGS].....	30
② [REGISTRATION SETTINGS].....	31

③ [SPEAKER POSITIONING SETTINGS]	32
④ [MICROPHONE GROUP MUTE SETTINGS]	33
[Peripheral Detail / VXL1-16P, VXC2P].....	34
① [SYSTEM STATUS]	34
② [CURRENT DIP SWITCH SETTINGS].....	35
③ [IP ADDRESS SETTINGS]	35
④ [DANTE IP SETTINGS]	36
⑤ [HOSTNAME SETTINGS]	36
⑥ [AUDIO SETTINGS]	37
⑦ [FIRMWARE UPDATE]	37
⑧ [EXPORT CONFIGURATION]	38
⑨ [IMPORT CONFIGURATION].....	38
⑩ [DOWNLOAD LOGS]	38
[Peripheral Detail / CTL-BN1]	39
① [SYSTEM STATUS]	39
② [LED INDICATION STATUS].....	40
③ [LED INDICATION SETTINGS]	40
④ [IP ADDRESS SETTINGS]	40
⑤ [HOSTNAME SETTINGS]	41
⑥ [BUTTON SETTINGS].....	42
⑦ [FIRMWARE UPDATE]	43
⑧ [EXPORT CONFIGURATION]	43
⑨ [IMPORT CONFIGURATION].....	43
⑩ [RESET DEFAULTS]	44
⑪ [DOWNLOAD LOGS]	44
[Region]	45
① [SYSTEM SETTINGS]	45
② [TIME SETTINGS]	46
③ [DAYLIGHT SAVING SETTINGS]	46
[SIP].....	47
① [SIP SETTINGS].....	47
② [REGISTRATION SETTINGS].....	48
③ [CONFIGURATION SETTINGS]	49
④ [MEDIA SETTINGS]	51
[Transport]	52
① [PRIORITY SETTINGS]	52
② [TRANSPORT SETTINGS]	53
③ [NAT TRAVERSAL SETTINGS]	54

[AUDIO] _____ 55

[Input]	55
① [AUDIO INPUT STATUS].....	56
[Processing] (RM-CR)	57

- ① [INTERFACE SETTINGS]..... 57
- ② [DIGITAL SIGNAL PROCESSING SETTINGS] 58
- ③ [AUTOMATIC AUDIO TUNING] 59
- [Processing] (RM-CG) 60
 - ① [MICROPHONE SETTINGS] 60
 - ② [DIGITAL SIGNAL PROCESSING SETTINGS] 61
- [Processing] (RM-TT) 65
 - ① [MICROPHONE SETTINGS] 65
 - ② [DIGITAL SIGNAL PROCESSING SETTINGS] 67
- [Output] 68
 - ① [AUDIO OUTPUT STATUS] 69
- [Dante] 70
 - ① [INPUT STATUS] 70
 - ② [OUTPUT STATUS] 71

[DIGITAL SIGNAL PROCESSING SETTINGS]_____ 72

- [EQ]..... 72
- [AGC]..... 74
- [GATE] 75
- [COMP] 76
- [FBS] 77
- [ECHO SUPPRESSOR] 78
- [AUTO MIXER]..... 79
- [DUCKER] 80
- [SPEAKER PROCESSOR] 81
- [FADER] 84
- [ROUTER] 85

[TOOLS] _____ 86

- [Update]..... 86
 - ① [DEVICE STATUS] 86
 - ② [FIRMWARE UPDATE] 87
- [Contacts] 88
 - ① [EXPORT CONTACTS] 88
 - ② [IMPORT CONTACTS] 89
- [Configuration] 90
 - ① [EXPORT CONFIGURATION] 90
 - ② [IMPORT CONFIGURATION] 90
 - ③ [RESET DEFAULTS] 91
- [Preset] 92
 - ① [CONFIGURED PRESETS] 92
 - ② [PRESET CONFIGURATION] 93
- [Control Sets] 95

① [CONTROL SETS]	96
② [DEVICE CONTROL SETTINGS]	98
[Plugin]	100
① [PLUGIN LIST]	100
② [DETAIL].....	101
[Yamaha network switch automatic optimization for Dante]	102
① [DETAIL].....	102
② [STATUS].....	103
[ADECIA Simplified Radius Security Service Configuration]	104
① [DETAIL].....	104
② [STATUS].....	105
③ [SETTING]	105
④ [ADECIA Simplified Radius Security Service Configuration] screen	106
[Logs]	108
① [DOWNLOAD LOGS]	108

Operating procedures --- **109**

Saving a preset (external server).....	109
Saving a preset (internal storage).....	111

Introduction

This document provides details on the functions of the Web GUI Device Manager as well as details on using this application software to configure and operate the following devices.

- Signal Processor RM-CR
- Ceiling Microphone RM-CG
- Boundary Microphone RM-TT

In addition, this document complements the following Reference Manuals. Each Reference Manual provides comprehensive details on connecting and using the corresponding device. Be sure to read those as well.

- RM-CR Reference Manual
- RM-CG Reference Manual
- RM-TT Reference Manual
- VXC2P Reference Manual
- CTL-BN1 Reference Manual

Web GUI Device Manager is a general term for the following application software, which is used to configure the corresponding device.

- Web GUI RM-CR Device Manager
- Web GUI RM-CG Device Manager
- Web GUI RM-TT Device Manager

About this manual




- This software and Operation Guide are the exclusive copyrights of Yamaha Corporation.
- Copying of the software or reproduction of this Operation Guide in whole or in part by any means is expressly forbidden without the written consent of the manufacturer.
- Yamaha Corporation assumes no responsibility whatsoever for results or effects arising from the use of this software or Operation Guide.
- For the purpose of improvement, this software and Operation Guide are subject to change without notice.
- This software is not guaranteed to work with a touchscreen.
- The illustrations and screens in this Operation Guide are for instructional purposes only.
- The company names and product names in this Operation Guide are trademarks or registered trademarks of their respective companies.
- The explanations in this Operation Guide are based on the latest specifications at the time of publication. The latest version can be downloaded from the Yamaha website.

About the software interface

This software requires a browser application on a computer. Configure the device by specifying settings in the screens displayed in the browser.

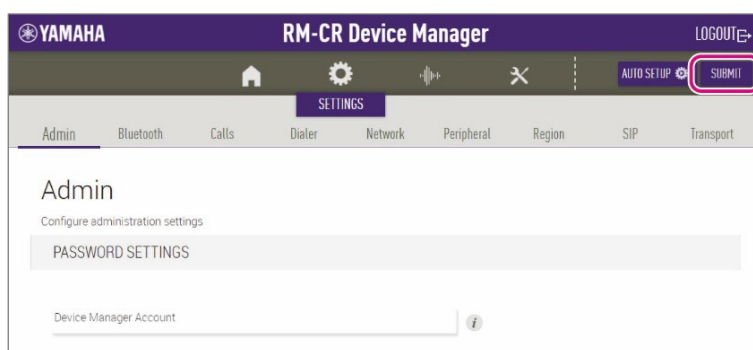
Useful icons in screens

The screens of this software have various icons that are useful for providing details on the functions and for checking the status of the device.

- | | | |
|---|------------------|---|
|  | Information icon | Move the pointer to 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. |

Applying settings specified in software screens

Be sure to click the [SUBMIT] button after changing settings in Device Manager. The [SUBMIT] button is always in the upper-right corner of the window.



Screen structure of Web GUI Device Manager for RM-CR, RM-CG and RM-TT

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

When different models share similar screens, the RM-CR screen is used for reference.

Menu	Tab	Item	RM-CR	RM-CG	RM-TT	Page
[HOME]						
		[SYSTEM STATUS]	○	○	○	10
		[PERIPHERAL STATUS]	○	—	—	11
		[LED INDICATION STATUS]	○	○	○	11
		[MEDIA STATUS]	○	—	—	12
		[BLUETOOTH STATUS]	○	—	—	13
[SETTINGS]						
	[Admin]	[PASSWORD SETTINGS]	○	○	○	14
		[SECURITY SETTINGS]	○	○	○	14
		[DEPLOYMENT SERVER SETTINGS]	○	○	○	15
		[SYSLOG SERVER SETTINGS]	○	○	○	15
		[SNMP SETTINGS]	○	○	○	16
		[LED INDICATION SETTINGS]	○	○	○	17
	[Bluetooth]	[DEVICE SETTINGS]	○	—	—	18
		[PAIRING SETTINGS]	○	—	—	19
	[Calls]	[DIAL SETTINGS]	○	—	—	21
		[FORWARDING SETTINGS]	○	—	—	22
	[Dialer]	[CONFERENCE SETTINGS]	○	—	—	23
	[Network]	[IP ADDRESS SETTINGS]	○	○	○	24
		[DANTE IP SETTINGS]	○	○	○	25
		[ETHERNET SWITCH SETTINGS]	○	—	—	26
		[HOSTNAME SETTINGS]	○	○	○	27
		[IEEE802.1X SETTINGS]	○	○	○	28
	[Peripheral]	[DEVICE SETTINGS]	○	—	—	30
		[REGISTRATION SETTINGS]	○	—	—	31
		[SPEAKER POSITIONING SETTINGS]	○	—	—	32
		[MICROPHONE GROUP MUTE SETTINGS]	○	—	—	33
	[Region]	[SYSTEM SETTINGS]	○	○	○	45
		[TIME SETTINGS]	○	○	○	46
		[DAYLIGHT SAVING SETTINGS]	○	○	○	46
	[SIP]	[SIP SETTINGS]	○	—	—	47
		[REGISTRATION SETTINGS]	○	—	—	48
		[CONFIGURATION SETTINGS]	○	—	—	49
		[MEDIA SETTINGS]	○	—	—	51
	[Transport]	[PRIORITY SETTINGS]	○	—	—	52
		[TRANSPORT SETTINGS]	○	—	—	53

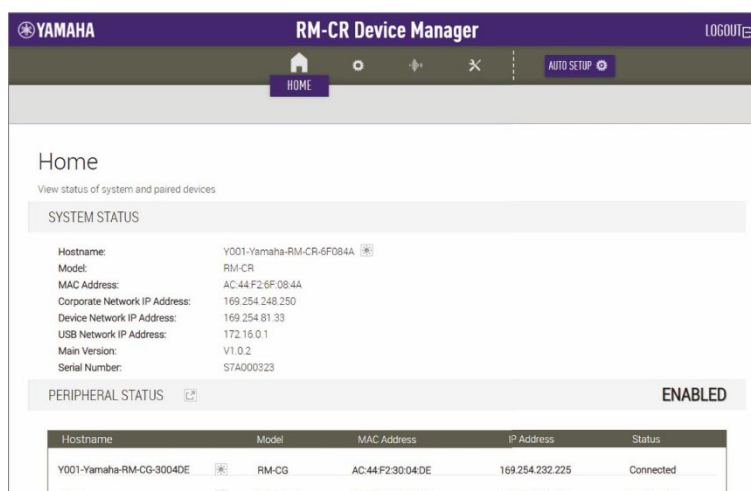
Screen structure of Web GUI Device Manager for RM-CR, RM-CG and RM-TT

		[NAT TRAVERSAL SETTINGS]	○	—	—	54	
[AUDIO]							
	[Input]	[AUDIO INPUT STATUS]	○	—	—	56	
	[Processing]	[INTERFACE SETTINGS]	○	—	—	57	
		[MICROPHONE SETTINGS]	—	○		60	
						○	65
				○			58
		[DIGITAL SIGNAL PROCESSING SETTINGS]		○			61
					○	67	
		[AUTOMATIC AUDIO TUNING]	○	—	—	59	
	[Output]	[AUDIO OUTPUT STATUS]	○	—	—	69	
	[Dante]	[INPUT STATUS]	—	○	○	70	
		[OUTPUT STATUS]	—	○	○	71	
[DIGITAL SIGNAL PROCESSING SETTINGS]							
		[EQ]	○	○	○	72	
		[AGC]	○	—	—	74	
		[GATE]	○	—	—	75	
		[COMP]	○	—	—	76	
		[FBS]	○	—	—	77	
		[ECHO SUPPRESSOR]	○	—	—	78	
		[AUTO MIXER]	○	—	—	79	
		[DUCKER]	○	—	—	80	
		[SPEAKER PROCESSOR]	○	—	—	81	
		[FADER]	○	○	○	84	
		[ROTAR]	○	○	○	85	
[TOOLS]							
	[Update]	[DEVICE STATUS]	○	○	○	86	
		[FIRMWARE UPDATE]	○	○	○	87	
	[Contacts]	[EXPORT CONTACTS]	○	—	—	88	
		[IMPORT CONTACTS]	○	—	—	89	
	[Configuration]	[EXPORT CONFIGURATION]	○	○	○	90	
		[IMPORT CONFIGURATION]	○	○	○	90	
		[RESET DEFAULTS]	○	○	○	91	
	[Preset]	[CONFIGURED PRESETS]	○	—	—	92	
		[PRESET CONFIGURATION]	○	—	—	93	
	[Control Sets]	[CONTROL SETS]	○	—	—	96	
		[DEVICE CONTROL SETTINGS]	○	—	—	97	
	[Plugin]	[PLUGIN LIST]	○	○	○	100	
		[DETAIL]	○	○	○	101	
	[Logs]	[DOWNLOAD LOGS]	○	○	○	108	

[HOME]

In the [Home] screen, you can check various status information.

Applicable Device Manager: RM-CR, RM-CG, RM-TT



① [SYSTEM STATUS]

Displays basic information on the unit.

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

Item	Description
Hostname	Displays the hostname.
Model	Displays the model name.
MAC Address	Displays the MAC address.
Corporate Network IP Address *1	Displays the corporate network IP address. A corporate network is intended for remote management of the ADECIA system using SNMP and syslog protocols, and for communicating with the SIP server in a company network when using the IP telephony function of RM-CR.
Device Network IP Address *1	Displays the device network IP address. This IP address is used by RM-CR to communicate with peripheral devices. The Dante/PoE port on the back of the RM-CR is intended to be connected to the device network where all ADECIA devices are connected. A device network is intended for communication between ADECIA's RM-CR and peripheral devices, and allows the flow of Dante network audio and control signals between devices. Separating it from the corporate network prevents the leaking of unnecessary packets and creates a secure conference network.





USB Network IP Address *1	Displays the USB network IP address ("172.16.0.1"). Device Manager can be accessed by connecting the RM-CR to a computer via USB, then typing this IP address in a web browser.
IP Address *2	Displays the IP address. This IP address is used for device control using remote control protocols, for remote management using protocols such as syslog or SNMP, and for Dante audio communication.
Main Version	Displays the version.
Serial Number *1 RM-CR *2 RM-CG/RM-TT	Displays the serial number.

② [PERIPHERAL STATUS]

Displays basic information on peripheral devices and their connection status with this unit.

If [Enable Peripheral controls] in the [Peripheral] screen was activated, "ENABLED" is displayed beside the items, and information about the peripheral device is displayed.




Click  to display the [Peripheral] screen. Settings for peripheral devices can be specified.

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	

③ [LED INDICATION STATUS]

Displays the status of the indicators. The status of the indicator indicates the status of the unit.


- RM-CR

LED INDICATION STATUS		
Power:	Green lit	
Status:	unlit	
Bluetooth:	Blue lit	

Item	Indication	Unit status
Power	Green lit	Operating
	Green fast flash	Starting up
Status	White fast flash	Responding to Identify function
	White faster flash	Firmware being updated
	2 times blue flash	Resetting standby/Resetting of network-related settings
	3 times blue flash	Resetting standby/Resetting of all settings
	Red fast flash	Error occurring
	Red faster flash	Severe error occurring



Bluetooth	Blue lit	Bluetooth connection being made
	Blue faster flash	Pairing standby/Pairing
	Unlit	Bluetooth cannot be used

- RM-CG

LED INDICATION STATUS	
Power:	Green lit 

Item	Indication	Unit status
Status	Green lit	Microphone on
	White fast flash	Responding to Identify function
	White faster flash	Firmware being updated
	2 times red flash	Microphone off
	Red fast flash	Error occurring
	Red faster flash	Severe error occurring
	2 times blue fast flash	Resetting standby/Resetting of network-related settings
3 times blue fast flash	Resetting standby/Resetting of all settings	

- RM-TT

LED INDICATION STATUS	
Status:	Green lit 
Mic:	Green lit 

Item	Indication	Unit status
Status	Green	Microphone on
	White	Responding to Identify function
	White flash	Firmware being updated
	Constant Red	Microphone off
	Red flash	Error occurring
	Red fast flash	Severe error occurring
Mic	Green	Microphone on
	Red flashing	Microphone off

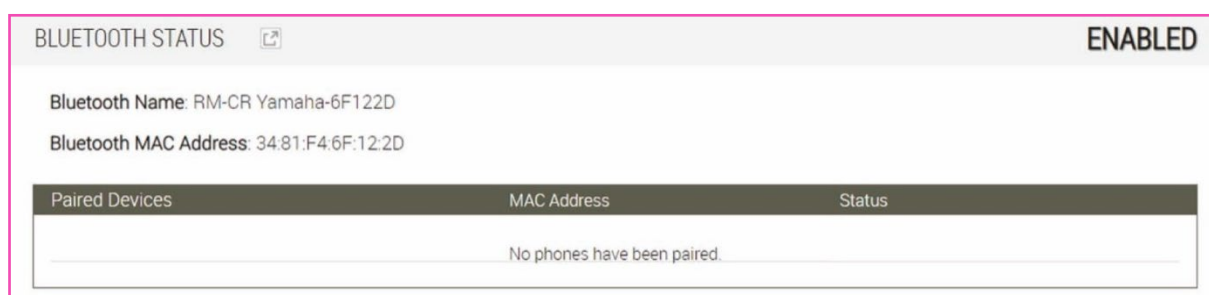
④ [MEDIA STATUS]

Displays the activity status of calls and audio playback. "Active" appears during a call or when in use; "Inactive" appears when not in use.

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

Item	Description
Bluetooth Call Status	Displays the Bluetooth call status.
Bluetooth Audio Stream	Displays the Bluetooth audio streaming status.
SIP1 Call Status	Displays the SIP1 call status.
SIP2 Call Status	Displays the SIP2 call status.
USB Call Status	Displays the USB call status.
USB Audio Stream	Displays the USB audio streaming status.

⑤ [BLUETOOTH STATUS]



RM-CR Bluetooth information

Item	Description
Bluetooth Name	Displays the Bluetooth device name for this unit.
Bluetooth MAC Address	Displays the Bluetooth MAC address for this unit.

Basic information and connection status of paired smartphones

If none are connected, "No phones have been paired" is displayed.

Item	Description
Paired Devices	Displays the Bluetooth device name of the paired smartphone.
MAC Address	Displays the Bluetooth MAC address of the paired smartphone.
Status	The [DISCONNECT] button appears beside a connected smartphone. Click the button to disconnect.

Note

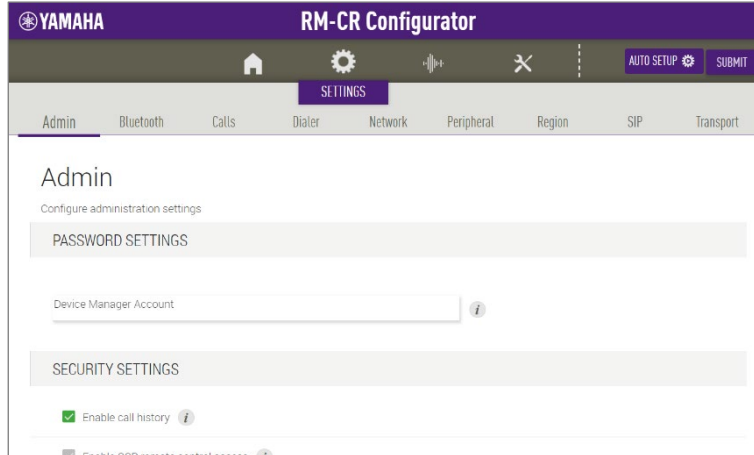
Click  to display the [SETTINGS] > [Bluetooth] screen. Bluetooth settings can be specified.

[SETTINGS]

[Admin]

In the [Admin] screen, you can specify system administration settings.

Applicable Device Manager: RM-CR, RM-CG, RM-TT



① [PASSWORD SETTINGS]

PASSWORD SETTINGS

Device Manager Account i

Item

Description

Device Manager Account

Specify the password for logging in to Device Manager.
(4 to 16 alphanumeric characters)

② [SECURITY SETTINGS]

SECURITY SETTINGS

Enable call history i

Enable SCP remote control access i

Item

Description

Enable call history

Select whether to keep an SIP call history.
When this is activated, the call history can be checked in applications created using ProVisionaire Control or applications using remote control protocols.
Default setting: Activated

Enable SCP remote control access

Select whether to use SCP remote control access.

③ [DEPLOYMENT SERVER SETTINGS]

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

Item	Description
Enable deployment server	Select whether to use a deployment server. Default setting: Activated
Enable automatic server discovery	Select whether to use the automatic discovery feature of the deployment server. When this is not activated, specify the IP address of the deployment server. <ul style="list-style-type: none"> [Primary server] [Secondary server] Default setting: Activated
Provisioning interval (minutes)	Specify the deployment server provisioning interval (in minutes). Default setting: 1,440 minutes (1 day) Setting range: 0 to 44,640 minutes (31 days)
Primary server	Specify the primary IP address of the deployment server.
Secondary server	Specify the secondary IP address of the deployment server.

④ [SYSLOG SERVER SETTINGS]

SYSLOG SERVER SETTINGS

Enable Syslog *i*

Server address
 i

Port number
 i

Item**Description****Enable Syslog**

Select whether to use a syslog server.
When this is activated, specify settings for the following.

- [Server address]
- [Port number] (Default setting: 514)

⑤ [SNMP SETTINGS]

SNMP SETTINGS

Enable SNMP *i*

Server address
 i

Read-only community
 i

Device location
 i

Contact name
 i

Item	Description
Enable SNMP	<p>Select whether to use SNMP. When this is activated, specify settings for the following.</p> <ul style="list-style-type: none"> • [Server address] (In order to receive traps, port 162 on the server must be open.) • [Read-only community] • [Device location] • [Contact name] <p>Default setting: Deactivated</p>

⑥ [LED INDICATION SETTINGS]

LED INDICATION SETTINGS

Brightness

High i

LED mute indicator color while system is not in a call

White i

● RM-TT

Indicate microphone direction when microphone is unmuted

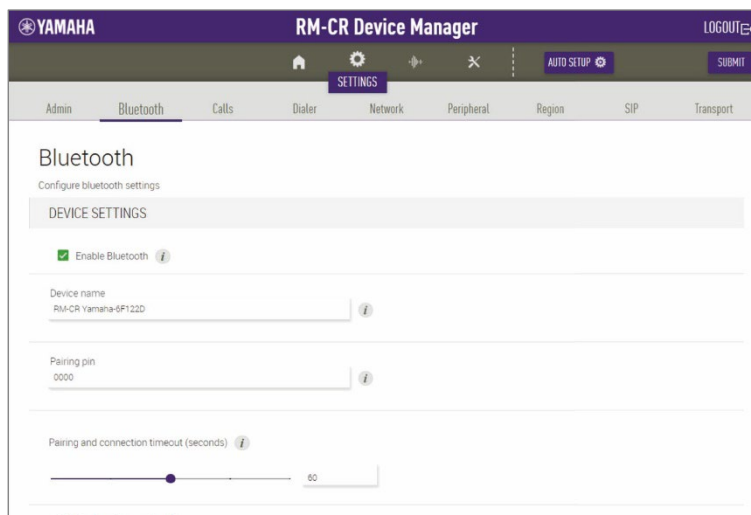
Item	Description
Brightness	<p>Select the brightness of the indicators.</p> <ul style="list-style-type: none"> • [High] (default setting) • [Medium] • [Low] • [Off]
LED mute indicator color while system is not in a call	<p>Select the color of the indicator when the microphone is muted and there is no call.</p> <ul style="list-style-type: none"> • [Off] • [Green] • [White] (default setting)
Indicate microphone direction when microphone is unmuted	<p>Select whether the lighting/flashing of the Status indicator varies according to the directivity of the microphone. This is available if the directivity of the microphone has been set to [Cardioid], [Hypercardioid] or [Supercardioid].</p>

[Bluetooth]

In the [Bluetooth] screen, you can specify Bluetooth settings and pair this unit with smartphones.

You can join a meeting from a different smartphone via a Bluetooth-connected smartphone, or you can play audio with a Bluetooth-connected smartphone.

Applicable Device Manager: RM-CR



① [DEVICE SETTINGS]

DEVICE SETTINGS

Enable Bluetooth *i*

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

Pairing pin
0000 *i*

Pairing and connection timeout (seconds) *i*

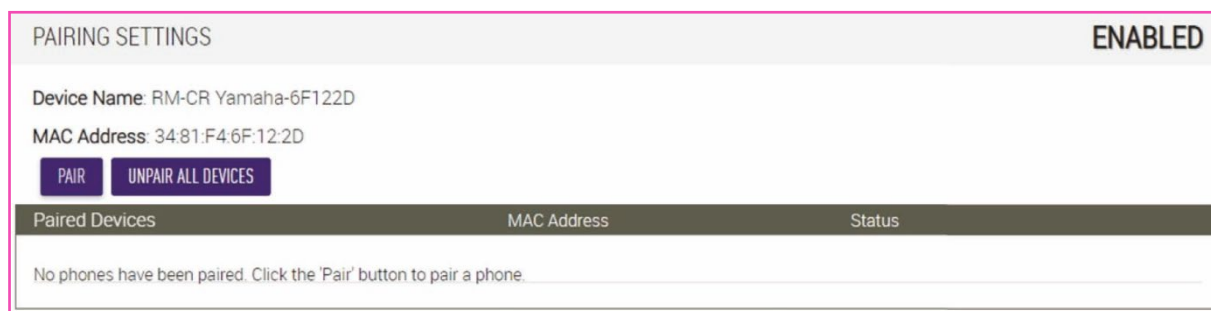
60

Enable auto-unpair *i*

Item	Description
Enable Bluetooth	Select whether to use Bluetooth.
Device name	Specify the name of the Bluetooth connection of this unit. Default setting: The product name "RM-CR Yamaha" followed by the MAC address of the unit
Pairing pin	Specify the PIN (numbers) for Bluetooth pairing with this unit. Default setting: "0000"

Pairing and connection timeout (seconds)	Specify the length of time that this unit remains in pairing standby mode. Default setting: 60 seconds Specify "0" to prevent timing out.
Enable auto-unpair	Select whether to cancel pairing when the Bluetooth connection with the smartphone is cut. Default setting: Deactivated

② [PAIRING SETTINGS]



RM-CR Bluetooth information

Item	Description
Device Name	Displays the Bluetooth device name for this unit.
MAC Address	Displays the Bluetooth MAC address for this unit.
PAIR	Puts this unit in pairing standby mode.
UNPAIR ALL DEVICE	Cancels the pairing with all smartphones simultaneously.

Basic information and connection status of paired smartphones

If none are connected, "No phones have been paired" is displayed.

Item	Description
Paired Devices	Displays the Bluetooth device name of the paired smartphone.
MAC Address	Displays the Bluetooth MAC address of the paired smartphone.
Status	The [DISCONNECT] button appears beside a connected smartphone. Click the button to disconnect.

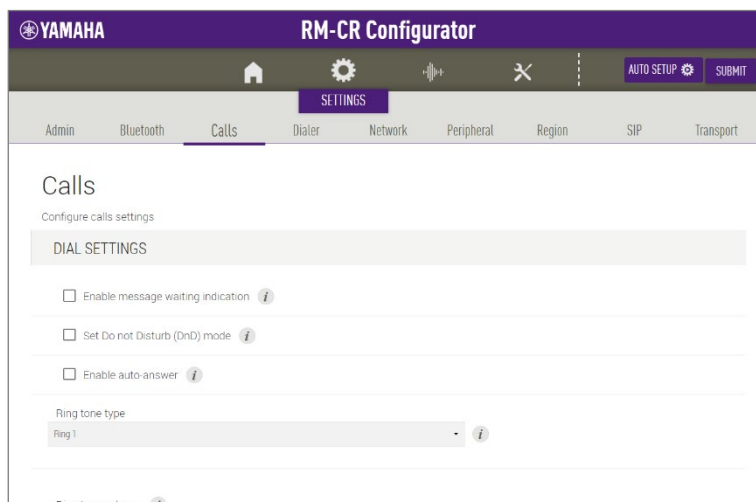
📘 Related links

- "Connecting a smartphone" in the RM-CR Reference Manual

[Calls]

In the [Calls] screen, you can specify SIP communication settings.

Applicable Device Manager: RM-CR



① [DIAL SETTINGS]

DIAL SETTINGS

Enable message waiting indication *i*

Set Do not Disturb (DnD) mode *i*

Enable auto-answer *i*

Ring tone type
 i

Ring tone volume *i*
 -24.00

Voicemail number *i*

Maximum call duration *i*

Dial plan *i*

Item	Description
Enable message waiting indication	Select whether to activate the SIP message feature MWI (Message Waiting Indication). The SIP server must support this feature. Default setting: Deactivated
Set Do not Disturb (DnD) mode	Select whether to put this unit in call rejection mode. Default setting: Deactivated
Enable auto-answer	Select whether to put this unit in auto-answer mode. This will automatically answer calls even when the unit is not physically present. We recommend selecting this for testing purposes only. Default setting: Deactivated
Ring tone type	Select the ringtone.
Ring tone volume	Adjust the ringtone volume. Default setting: -24 dB
Voicemail number	Specify the number for checking voicemails.
Maximum call duration	Specify a maximum length of time (in minutes) for SIP calls. The call will be disconnected when the call time limit is reached. Default setting: 0 minutes (unlimited) Setting range: 0 to 10,080 minutes (7 days)
Dial plan	Specify a dial plan.

② [FORWARDING SETTINGS]

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.

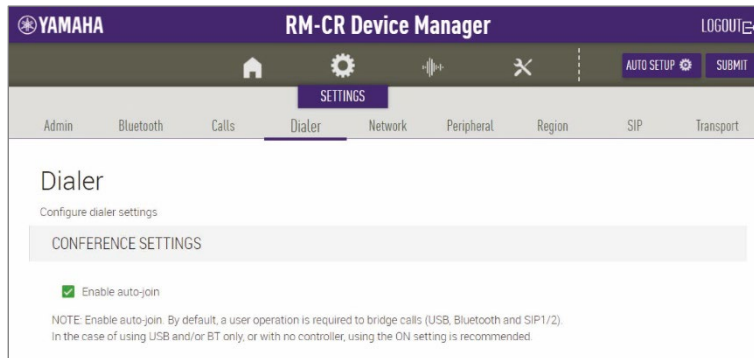
Delay on no answer i

Item	Description
Always forward	Select whether to forward all incoming calls. Default setting: Deactivated When this is activated, type the forwarding number in the field.
Forward on busy	Select whether to forward incoming calls during a call and in call rejection mode. This setting will not be applied if [Always forward] has been activated. When this is activated, type the forwarding number in the field. Default setting: Deactivated
Forward on no answer	Select whether to forward incoming calls that are not answered. This setting will not be applied if [Always forward] has been activated. When this is activated, type the forwarding number in the field. Default setting: Deactivated
Delay on no answer	Specify the wait time (in seconds) before forwarding with [Forward on no answer]. Default setting: 10 seconds

[Dialer]

In the [Dialer] screen, you can specify conference call settings.

Applicable Device Manager: RM-CR



① [CONFERENCE SETTINGS]

CONFERENCE SETTINGS

Enable auto-join

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.

Item

Description

Enable auto-join

Select whether users can join a call without performing any special operation.

When this is activated, simultaneous calls between multiple locations can be made automatically.

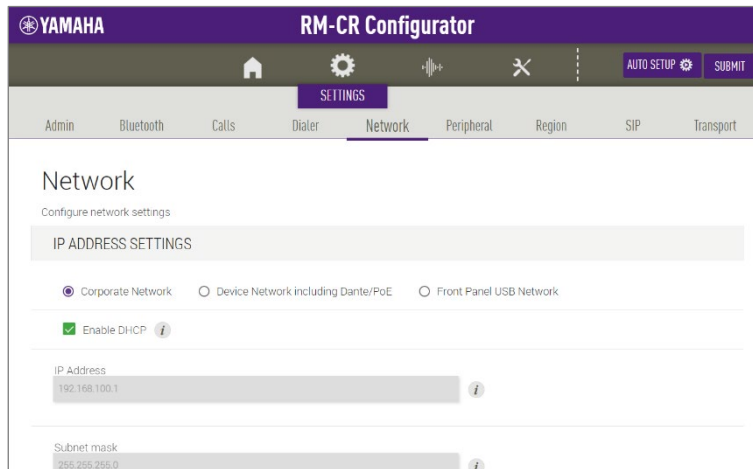
When this is deactivated, simultaneous calls between multiple locations will be possible by manually participating in a conference using ProVisionaire Control, for example.

Default setting: Activated

[Network]

In the [Network] screen, you can specify settings for the network used by this unit and Dante.

Applicable Device Manager: RM-CR, RM-CG, RM-TT



① [IP ADDRESS SETTINGS]

IP ADDRESS SETTINGS

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

Enable DHCP *i*

IP Address
 i

Subnet mask
 i

Default gateway
 i

Primary DNS
 i

Secondary DNS
 i

Item

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

Description

Select from the options to display the network whose IP address settings are to be specified.

Enable DHCP

Select whether to use DHCP.

To assign a static IP address, deactivate [Enable DHCP], and then specify the static IP address with the following. (Type using the "XXX.XXX.XXX.XXX" format.)

- [IP address]
- [Subnet mask]
- [Default gateway]
- [Primary DNS]
- [Secondary DNS]

② [DANTE IP SETTINGS]

DANTE IP SETTINGS

Note: Updating the Dante firmware requires that the Dante network address be on the same subnet as the Device Network address. [?](#)

Enable DHCP *i*

IP Address
0.0.0.0 *i*

Subnet mask
0.0.0.0 *i*

Default gateway
0.0.0.0 *i*

DNS Address
0.0.0.0 *i*

Item**Description****Enable DHCP**

Select whether to use DHCP.

To assign a static IP address, deactivate [Enable DHCP], and then specify the static IP address with the following. (Type using the "XXX.XXX.XXX.XXX" format.)

- [IP address]
- [Subnet mask]
- [Default gateway]
- [DNS address]

③ [ETHERNET SWITCH SETTINGS]

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.

Item	Description
Mode	<p>Select whether to (internally) connect or to separate the network and Dante/PoE ports on the rear panel of this unit.</p> <ul style="list-style-type: none"> [Switched]: Internally connected <p>This mode is useful when there is no need to separate the corporate network* and device network*. The network and Dante/PoE ports are connected internally, and the network port can be used to connect to a device network.</p> <ul style="list-style-type: none"> [Separated]: Internally separated (default setting) <p>Separating the corporate network* and device network* prevents the leaking of unnecessary packets and creates a secure conference network.</p> <p>The network port connects to the corporate network, and the Dante/PoE port connects to the device network*.</p>

* Corporate network

This network is intended for remote management of the ADECIA system using SNMP and syslog protocols, and for communicating with the SIP server in a company network when using the IP telephony function of RM-CR.

* Device network

This network is intended for communication between ADECIA's RM-CR and peripheral devices, and allows the flow of Dante network audio and control signals between devices.

④ [HOSTNAME SETTINGS]

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

The hostname is used as the device name in RM Device Finder, SNMP, and Dante.

The screenshot shows the 'HOSTNAME SETTINGS' configuration interface. It contains three sections:

- Mode:** A dropdown menu currently showing 'Yamaha Hostname using Unit ID'.
- UnitID:** A dropdown menu currently showing '1'.
- Hostname:** A text input field containing the automatically generated hostname 'Y001-Yamaha-RM-CR-000088'.

Item	Description
Mode	<p>Select whether to use the unit ID to automatically specify the hostname or to specify it manually.</p> <ul style="list-style-type: none"> [Yamaha Hostname using Unit ID] (automatic): The hostname is automatically generated from the unit ID, model name and part of the MAC address, and is displayed in the [Hostname] field. Example: Y001-Yamaha-RM-CR-000088 [Manual]: Specify manually. Type in the [Hostname] field.
UnitID	<p>Select the unit ID. If [Manual] was selected, this is not available.</p>
Hostname	<p>If [Yamaha Hostname using Unit ID] was selected, the hostname that was automatically generated is displayed. If [Manual] was selected, type in the hostname. The Dante hostname will be the hostname plus a portion of the Dante MAC address.</p>

⑤ [IEEE802.1X SETTINGS]

Use these settings when manually configuring network security.

When using [TOOLS] > [Plugin] > [ADECIA Simplified Radius Security Service Configuration], do not specify these settings.

IEEE802.1X SETTINGS

NOTE: Dante traffic uses a different MAC address than data traffic, even when using the same network port. 802.1X settings do not apply to the Dante communication.

Corporate Network Device Network including Dante/PoE

Enable 802.1X Authentication *i*

Authentication method
EAP:MD5 *i*

Identity *i*

Anonymous Identity *i*

Password *i*

Private Key *i*

Upload a certificate in PKCS#12("p12") format. This is required for TLS authentication method.

Import certificates is disabled on RM Configurator.

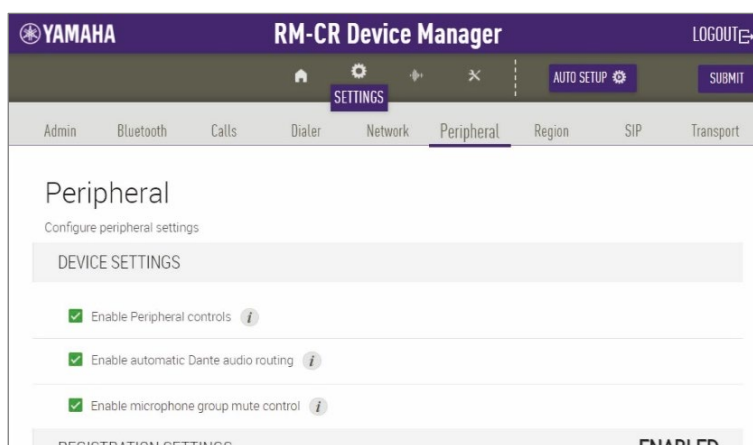
NOTE: Importing a certificate is only available for the TLS authentication method.

Item	Description
Enable 802.1X Authentication	Select whether to use IEEE802.1X authentication.
Authentication method	Select the authentication method. Specify settings for the following according to the authentication method. <ul style="list-style-type: none">• [Identity]• [Anonymous Identity]• [Password]• [Private Key]• Certificate in PKCS#12 (".p12") format
IMPORT	Click to upload a certificate.
REMOVE	Click to delete a certificate.

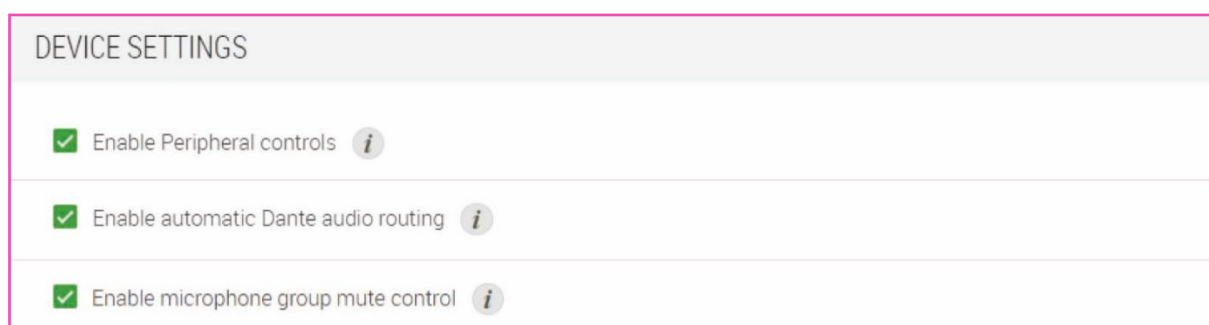
[Peripheral]

In the [Peripheral] screen, you can configure peripheral devices (such as loudspeakers, microphones and access points) connected to RM-CR.

Applicable Device Manager: RM-CR



① [DEVICE SETTINGS]



Item	Description
Enable Peripheral controls	Select whether to link the system for this unit with the system for peripherals. Default setting: Activated
Enable automatic Dante audio routing	Select whether to automatically route Dante audio. Default setting: Activated To route manually, deactivate this setting, and then route using a Dante controller, for example.
Enable microphone group mute control	Select whether to activate the group mute function of the microphones. When this is activated, microphones will be grouped and muted as a group. When this is deactivated, all microphones are muted. Default setting: Deactivated

② [REGISTRATION SETTINGS]

REGISTRATION SETTINGS
ENABLED

Hostname: Y001-Yamaha-RM-CR-123457

MAC Address: F4:D5:80:12:34:57

Device Network IP Address: 169.254.178.1

[SEARCH](#)

Hostname	Model	IP Address	Status	Registration	Details
Y001-Yamaha-RM-WAP-16-b2783f	RM-WAP-16	169.254.8.90	connected	REMOVE	VIEW
Y001-Yamaha-VXC2P-4E6DC0	VXC2P	169.254.193.109	connected	REMOVE	VIEW
Y001-Yamaha-CTL-BN1-12784F	CTL-BN1	169.254.80.120	connected	REMOVE	VIEW
Y002-Yamaha-RM-TT-A28918	RM-TT	169.254.31.107	connected	REMOVE	VIEW
Y001-Yamaha-CTL-BN1-127875	CTL-BN1	169.254.118.120	connected	REMOVE	VIEW

Registered Microphone/Speaker Devices 3 units (max: 16 units)

Registered Controller Devices 2 units (max: 8 units)

Registered Devices not found on network 0 units

Item**Description****RM-CR device information**

The following information is displayed.

- Hostname
- MAC Address
- Device Network IP Address

[SEARCH](#)

Click to detect peripheral devices. Click the [ADD] button to register the device as a component of ADECIA.

Hostname

Displays the hostname of detected peripheral devices.

Model

Displays the model name of detected peripheral devices.

IP Address

Displays the IP address of detected peripheral devices.

Status

Displays the connection status of detected peripheral devices.

- Connected
- Disconnected

Registration

Click the [REMOVE] button to cancel the registration.

Details

Click the [VIEW] button to open the Web GUI "Peripheral Detail" for the corresponding peripheral device.

This allows you to specify the parameters that apply when that device is used in combination with RM-CR.

For details on the Web GUI "Peripheral Detail" for VXL1-16P, VXC2P or CTL-BN1, refer to the following.

- [Peripheral Detail / VXL1-16P, VXC2P] (page 34)
- [Peripheral Detail / CTL-BN1] (page 39)

Details on the Web GUI "Peripheral Detail" for RM-CG, RM-TT or RM-WAP are omitted here since they are the same as for other Device Manager items.

Registered Microphone/Speaker Devices Displays the number of registered microphones and speakers.

Registered Controller Devices Displays the number of registered controllers, such as CTL-BN1.

Registered Devices not found on network Displays the number of unconnected registered devices.

③ [SPEAKER POSITIONING SETTINGS]

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-Yamaha-VXL1-16P-334455	VXL1-16P	Left
Y066-Yamaha-VXL1-16P-4E3034	VXL1-16P	Right

Item**Description**

Hostname Displays the hostname of loudspeakers.




Model Displays the model name of loudspeakers.

Position Select [Left] or [Right] according to the loudspeaker position.
With monaural use, select [Left] for all devices.

④ [MICROPHONE GROUP MUTE SETTINGS]

MICROPHONE GROUP MUTE SETTINGS
ENABLED

Microphones can be grouped to share their mute status. If one microphone changes to be muted, others in the same group will follow to be muted.

Hostname		Model	Group
Y001-Yamaha-RM-WAP-8-a29022		RM-WAP-8	VIEW
Y001-Yamaha-RM-CG-123456		RM-CG	1 ▾
Y001-Yamaha-RM-TT-258831		RM-TT	1 ▾

Item**Description****Hostname**

Displays the hostname of microphones.

Model

Displays the model name of microphones.

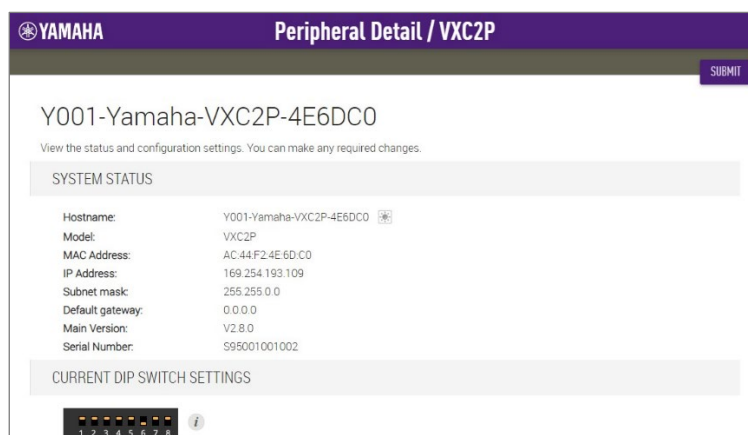
Group

- RM-CG / RM-TT
Specify the group number.
- RM-WAP
Click the [VIEW] button to display the [MICROPHONE SETTINGS] section of the Web GUI "Peripheral Detail RM-WAP". In [Mute Group] of that section, specify the group number.

[Peripheral Detail / VXL1-16P, VXC2P]

Configure a VXL1-16P or VXC2P connected to the RM-CR. The following explanation uses the screen for a VXC2P.

Applicable Device Manager: RM-CR



① [SYSTEM STATUS]

Displays basic information about the device.

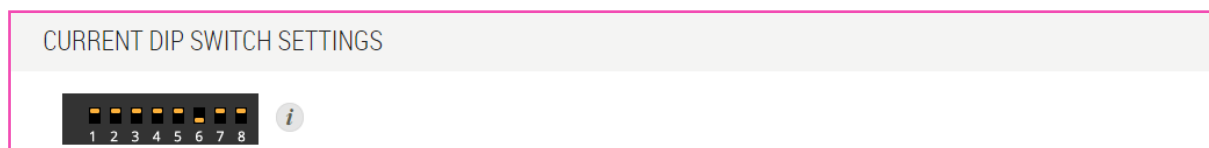
SYSTEM STATUS	
Hostname:	Y001-Yamaha-VXC2P-4E6DC0
Model:	VXC2P
MAC Address:	AC:44:F2:4E:6D:C0
IP Address:	169.254.193.109
Subnet mask:	255.255.0.0
Default gateway:	0.0.0.0
Main Version:	V2.8.0
Serial Number:	S95001001002

Item	Description
Hostname	Displays the hostname.
Model	Displays the model name.
MAC Address	Displays the MAC address.
IP Address	Displays the IP address.
Subnet mask	Displays the subnet mask.
Default gateway	Displays the default gateway.
Main Version	Displays the version.
Serial Number	Displays the serial number.

② [CURRENT DIP SWITCH SETTINGS]

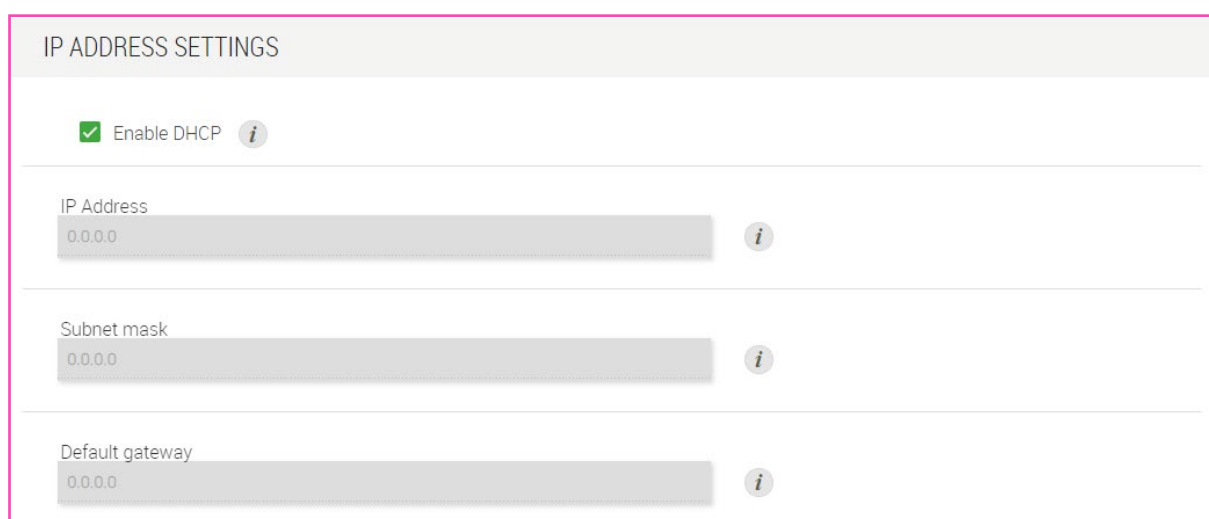
Displays the current DIP switch settings. For detailed settings, refer to the following.

- VXL1-16P Owner's Manual
- VXC2P Reference Manual



Item	Description
DIP switches 1 to 4	Use to specify the unit ID. In order to specify the unit ID from the Web GUI, DIP switches 1 through 4 must be in the up position.
DIP switch 5	Not used
DIP switch 6	Use to specify the IP address setting method. In order to specify the IP address from the Web GUI, DIP switch 6 must be in the down position.
DIP switches 7 and 8	Use to specify the startup mode.

③ [IP ADDRESS SETTINGS]



Item	Description
Enable DHCP	Select whether to use DHCP. To assign a static IP address, deactivate [Enable DHCP], and then specify the static IP address with the following. (Type using the "XXX.XXX.XXX.XXX" format.) <ul style="list-style-type: none"> • [IP address] • [Subnet mask] • [Default gateway] In order to specify the IP address from the Web GUI, DIP switch 6 must be in the down position.

④ [DANTE IP SETTINGS]

DANTE IP SETTINGS

Note: Updating the Dante firmware requires that the Dante network address be on the same subnet as the Device Network address.

Enable DHCP *i*

IP Address
0.0.0.0 *i*

Subnet mask
0.0.0.0 *i*

Default gateway
0.0.0.0 *i*

DNS Address
0.0.0.0 *i*

Item**Description****Enable DHCP**

Select whether to use DHCP.
To assign a static IP address, deactivate [Enable DHCP], and then specify the static IP address with the following. (Type using the "XXX.XXX.XXX.XXX" format.)

- [IP address]
- [Subnet mask]
- [Default gateway]
- [DNS address]

⑤ [HOSTNAME SETTINGS]

Allows you to select whether to specify the hostname of the device automatically or manually.
With RM-CR, RM Device Finder, SNMP and Dante, the hostname is used as the device name.

HOSTNAME SETTINGS

Mode
Yamaha Hostname using Unit ID *i*

UnitID
1

Hostname
Y001-Yamaha-VXC2P-4E6B1C *i*

Item	Description
Mode	<p>Select whether to use the unit ID to automatically specify the hostname or to specify it manually.</p> <ul style="list-style-type: none"> [Yamaha Hostname using Unit ID] (automatic): The hostname is automatically generated from the unit ID, model name and part of the MAC address, and is displayed in the [Hostname] field. Example: Y001-Yamaha-VXC2P-4E681C [Manual]: Specify manually. Type in the [Hostname] field.
UnitID	<p>Select the unit ID. In order to specify the unit ID from the Web GUI, DIP switches 1 through 4 must be in the up position. If [Manual] was selected, this is not available.</p>
Hostname	<p>If [Yamaha Hostname using Unit ID] was selected, the hostname that was automatically generated is displayed. If [Manual] was selected, type in the hostname. The Dante hostname will be the hostname plus a portion of the Dante MAC address.</p>

⑥ [AUDIO SETTINGS]

The screenshot displays the 'AUDIO SETTINGS' configuration page. It includes the following elements:

- Input Sensitivity:** A horizontal slider with a purple knob, currently set to 0.00.
- Level:** A horizontal slider with a purple knob, currently set to 0.00.
- Enable delay:** A checkbox that is currently unchecked, accompanied by an information icon (i).
- Delay time[ms]:** A horizontal slider with a purple knob, currently set to 0.000.

Item	Description
Input Sensitivity	Specify the input sensitivity.
Level	Specify the volume level.
Enable delay	Select whether to use the Delay function.
Delay time	Specify the delay time.

⑦ [FIRMWARE UPDATE]

The device firmware can be updated via [TOOLS] > [Update] > [FIRMWARE UPDATE] in "RM-CR Device Manager".

FIRMWARE UPDATE

NOTE: Firmware can be updated from RM-CR. Please refer to RM-CR's update page.

⑧ [EXPORT CONFIGURATION]

EXPORT CONFIGURATION

EXPORT CONFIGURATION

Export device configuration to an XML file.

EXPORT

Item**Description**

EXPORT

Click to export the settings of the device.

⑨ [IMPORT CONFIGURATION]

Allows you to import the settings of the device.

Note

- Create the configuration file to be imported, by editing the exported one.
- The name of the configuration file should be the MAC address of the device receiving the upload file.
Example: AC1234567899.xml

IMPORT CONFIGURATION

IMPORT CONFIGURATION

Drag and drop or click here to select a file

Enable configuration filename restriction *i*

IMPORT

Item**Description****Enable configuration filename restriction**

Select whether the name of the configuration file will be checked. This cannot be used with peripheral devices.

IMPORT

Drag the configuration file into the box. Click the button to import the settings of the device.

⑩ [DOWNLOAD LOGS]

The device log file can be downloaded via [TOOLS] > [Logs] in "RM-CR Device Manager".

DOWNLOAD LOGS

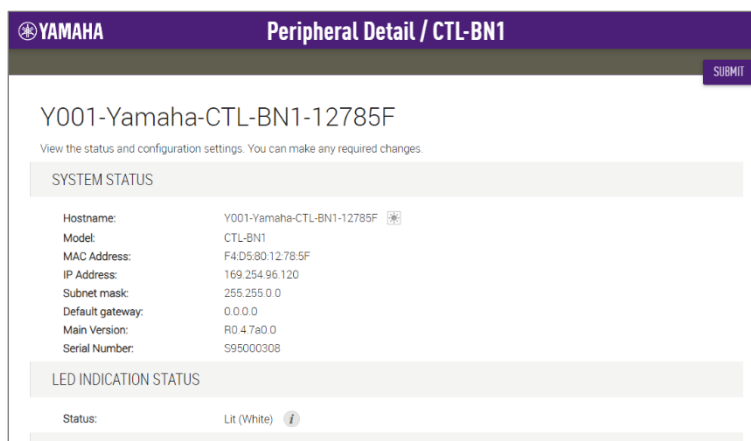
DOWNLOAD LOGS

Note: Peripheral device logs are included in the RM-CR logs. Please refer to RM-CR's logs page.

[Peripheral Detail / CTL-BN1]

Configure a CTL-BN1 connected to the RM-CR.

Applicable Device Manager: RM-CR



① [SYSTEM STATUS]

Displays basic information about the device.

SYSTEM STATUS	
Hostname:	Y001-Yamaha-CTL-BN1-12785F
Model:	CTL-BN1
MAC Address:	F4:D5:80:12:78:5F
IP Address:	169.254.96.120
Subnet mask:	255.255.0.0
Default gateway:	0.0.0.0
Main Version:	R0.4.7a0.0
Serial Number:	S95000308

Item	Description
Hostname	Displays the hostname.
Model	Displays the model name.
MAC Address	Displays the MAC address.
IP Address	Displays the IP address.
Subnet mask	Displays the subnet mask.
Default gateway	Displays the default gateway.
Main Version	Displays the version.
Serial Number	Displays the serial number.

② [LED INDICATION STATUS]

Displays the status of the indicators. The status of the indicator indicates the status of the device.

LED INDICATION STATUS

Status: Lit (White) i

Item	Indication	Device status
Status	Fast Flash (White)	Responding to Identify function
	Faster Flash (White)	Firmware being updated
	2 Times Fast Flash (Blue)	Resetting standby/Resetting of network-related settings
	3 Times Fast Flash (Blue)	Resetting standby/Resetting of all settings
	Fast Flash (Red)	Error occurring
	Faster Flash (Red)	Severe error occurring

In addition to the above, the indicator (LED ring) will light in the color and pattern specified when the operating mode was assigned to the device's function button. The function button settings can be specified under [BUTTON SETTINGS].

③ [LED INDICATION SETTINGS]

LED INDICATION SETTINGS

Brightness

High - i

Item	Description
Brightness	<p>Select the brightness of the indicators.</p> <ul style="list-style-type: none"> • [High] (default setting) • [Medium] • [Low] • [Off]

④ [IP ADDRESS SETTINGS]

IP ADDRESS SETTINGS

Enable DHCP i

IP Address

0.0.0.0 i

Subnet mask

0.0.0.0 i

Default gateway

0.0.0.0 i

Item	Description
Enable DHCP	<p>Select whether to use DHCP.</p> <p>To assign a static IP address, deactivate [Enable DHCP], and then specify the static IP address with the following. (Type using the "XXX.XXX.XXX.XXX" format.)</p> <ul style="list-style-type: none"> • [IP address] • [Subnet mask] • [Default gateway]

⑤ [HOSTNAME SETTINGS]

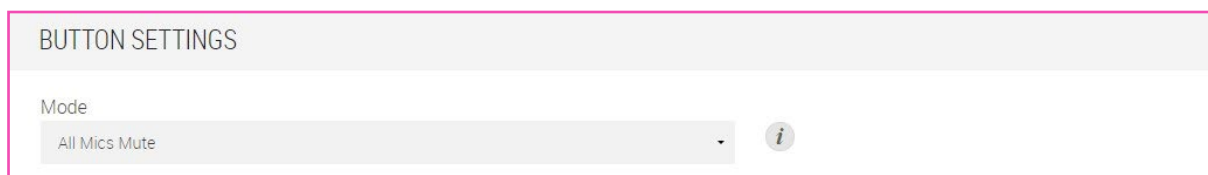
Allows you to select whether to specify the hostname of the device automatically or manually.

With RM-CR, RM Device Finder and SNMP, the hostname is used as the device name.

Item	Description
Mode	<p>Select whether to use the unit ID to automatically specify the hostname or to specify it manually.</p> <ul style="list-style-type: none"> • [Yamaha Hostname using Unit ID] (automatic): The hostname is automatically generated from the unit ID, model name and part of the MAC address, and is displayed in the [Hostname] field. Example: Y001-Yamaha-CTL-BN1-12785F • [Manual]: Specify manually. Type in the [Hostname] field.
UnitID	<p>Select the unit ID. If [Manual] was selected, this is not available.</p>
Hostname	<p>If [Yamaha Hostname using Unit ID] was selected, the hostname that was automatically generated is displayed. If [Manual] was selected, type in the hostname.</p>

⑥ [BUTTON SETTINGS]

You can assign an operating mode to the device's function button as well as select the color and lighting pattern of the LED ring.



Item

Description

Mode Select the operating mode for the function button. The available settings for the mode appear.

- [Unused]: Deactivates the button.
- [All Mics Mute]: Mutes all microphones.
- [Group Mute]: Mutes grouped microphones.
- [Individual Mics Force Mute]: Mutes microphones not grouped.
- [Speaker Mute]: Mutes the speaker.
- [Dialer Hook]: Answers/ends the call.
- [Preset Recall]: Recalls presets registered with the RM-CR.
- [Control Sets]: Sends Control Sets (commands) registered with RM-CR.

The settings available with each mode are shown in the following table.

Setting	Mode	Unused	All Mics Mute	Group Mute	Individual Mics Force Mute	Speaker Mute	Dialer Hook	Preset Recall	Control Sets
ON LED Color		✓	✓	✓	✓	✓	-	✓	✓
ON LED Pattern		✓	✓	✓	✓	✓	-	-	-
OFF LED Color		-	✓	✓	-	✓	-	-	✓
OFF LED Pattern		-	✓	✓	-	✓	-	-	-
IDLE LED Color		-	-	-	-	-	✓	-	-
INCOMING LED Color		-	-	-	-	-	✓	-	-
ACTIVE LED Color		-	-	-	-	-	✓	-	-
Line		-	-	-	-	-	✓	-	-
Group No.		-	-	✓	-	-	-	-	-
Behavior		-	✓	✓	-	-	-	-	-
Button Press Behavior		-	-	-	-	-	-	✓	✓
Preset No.		-	-	-	-	-	-	✓	-
Control Sets Number from RM-CR		-	-	-	-	-	-	-	✓



Button Channel

Each of the four LED ring sections has a position number. Functions can have up to four events.

⑦ [FIRMWARE UPDATE]

The device firmware can be updated via [TOOLS] > [Update] > [FIRMWARE UPDATE] in "RM-CR Device Manager".

FIRMWARE UPDATE

NOTE: Firmware can be updated from RM-CR. Please refer to RM-CR's update page.

⑧ [EXPORT CONFIGURATION]

EXPORT CONFIGURATION

Export device configuration to an XML file.

EXPORT

Item

Description

EXPORT

Click to export the settings of the device.

⑨ [IMPORT CONFIGURATION]

Allows you to import the settings of the device.

Note

- Create the configuration file to be imported, by editing the exported one.
- The name of the configuration file should be the MAC address of the device receiving the upload file.
Example: AC1234567899.xml

IMPORT CONFIGURATION

Drag and drop or click here to select a file

Enable configuration filename restriction **i**

IMPORT

Item

Description

Enable configuration filename restriction

Select whether the name of the configuration file will be checked. This cannot be used with peripheral devices.

IMPORT

Drag the configuration file into the box. Click the button to import the settings of the device.

⑩ [RESET DEFAULTS]

RESET DEFAULTS

Restore ALL defaults

Network settings

RESET

Item**Description**

RESET

Click to reset the device's settings.

- Restore ALL defaults: Restores the factory default settings.
- Network settings: Resets the network settings.

Notice

Confirm the settings to be reset before performing this operation.

⑪ [DOWNLOAD LOGS]

The device log file can be downloaded via [TOOLS] > [Logs] in "RM-CR Device Manager".

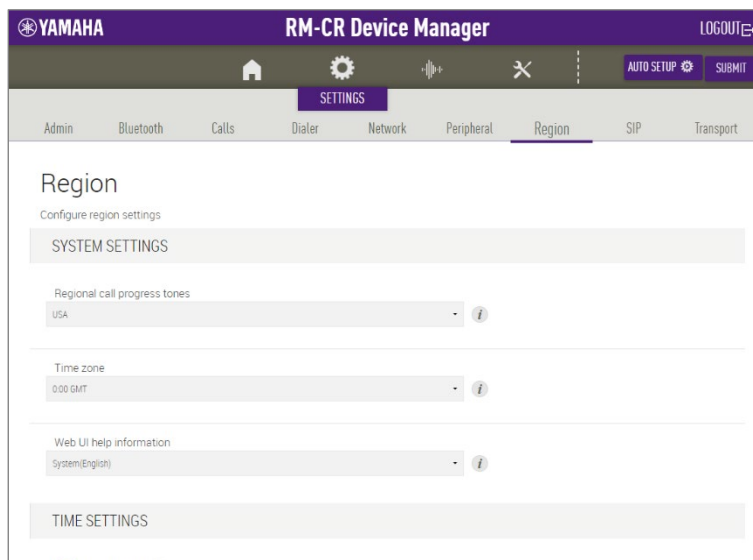
DOWNLOAD LOGS

Note: Peripheral device logs are included in the RM-CR logs. Please refer to RM-CR's logs page.

[Region]

In the [Region] screen, you can specify settings for the time and region where this unit is used.

Applicable Device Manager: RM-CR, RM-CG, RM-TT



① [SYSTEM SETTINGS]

SYSTEM SETTINGS

Regional call progress tones
USA

Time zone
0:00 GMT

Web UI help information
System(English)

Item	Description
Regional call progress tones	Select the country or region where this unit is used. This setting is used to configure the call progress tone for SIP calls.
Time zone	Select the time zone.
Web UI help information	When the mouse pointer is moved to the information icon, a pop-up window gives detailed information about the item. Select the display language. The default setting is [System (English)]. This setting can be changed to [User]. For [User], the language file must be imported via [TOOLS] > [Configuration] > [IMPORT CONFIGURATION]. <ul style="list-style-type: none"> [User] [System(English)]

② [TIME SETTINGS]

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

Item**Description****NTP support**

Select whether to use NTP (Network Time Protocol).
To use NTP, specify settings for [Network time server].
Default setting: Activated

③ [DAYLIGHT SAVING SETTINGS]

DAYLIGHT SAVING SETTINGS

Enable Daylight Saving Time adjustment i

Daylight Saving Time start time i

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

Daylight Saving Time end time i

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

Item**Description****Enable Daylight Saving Time adjustment**

Select whether to use daylight saving time with this unit.
When this is activated, specify settings for the daylight saving time start and end dates and times.

- [Daylight Saving Time start time]
- [Daylight Saving Time end time]

Default setting: Deactivated

[SIP]

In the [SIP] screen, you can register an SIP server and specify basic SIP settings.

Applicable Device Manager: RM-CR

① [SIP SETTINGS]

Item

Description

Enable SIP

Select whether to use SIP (Session Initiation Protocol).

② [REGISTRATION SETTINGS]

Allows you to register the SIP server.

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

Item	Description
Registrar	Specify the IP address or DNS name of the registrar server for registering SIP client information.
Backup registrar	Specify a spare registrar server.
VoIP realm	Specify the realm used for authentication with the server. If the realm is unknown, use an asterisk ("*").
Proxy	Specify an SIP proxy server. If there are multiple SIP proxies, separate the addresses with commas. If [Allow strict routing] is activated and an SIP proxy is configured for loose routing, add ";lr" after the proxy address. Example: 10.134.129.101;lr
Use proxy for registration	Select whether to use a proxy server for SIP registration. Default setting: Deactivated
Username	Specify the user name of the account used for authentication with the SIP registrar server and proxy server.
Password	Specify the password of the account used for authentication with the SIP registrar server and proxy server.

User ID	Specify the SIP user ID of the device used for SIP registration. If nothing is specified, the user name will be used as the ID.
Display name	Specify the name displayed with outgoing calls. If nothing is specified, the user name will be used.

③ [CONFIGURATION SETTINGS]

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

The screenshot shows the 'CONFIGURATION SETTINGS' page with the following options:

- Use SIP session timers:** A dropdown menu set to 'Optional'.
- Session timers expiration:** A text input field containing '1800'.
- Session timers min expiration:** A text input field containing '90'.
- Require reliable SIP provisional response:** An unchecked checkbox.
- Enable SIP traversal behind symmetric NAT:** A checked checkbox.
- Allow strict routing:** An unchecked checkbox.
- Minimize SIP message size:** An unchecked checkbox.
- DTMF signaling method:** A dropdown menu set to 'RTP (RFC2833)'.
- DTMF RTP payload type:** A slider control with a value of '96'.
- Media on-hold method:** A dropdown menu set to 'M line only (RFC3264)'.

Item	Description
Use SIP session timers	<p>Select how SIP session timers are to be used.</p> <ul style="list-style-type: none"> • [Inactive]: Not used • [Optional]: Used if the remote side uses a session timer. • [Mandatory]: Session timer support is required for remote sides to establish sessions. • [Always]: Used whether or not remote side supports or uses session timers.
Session timers expiration	<p>Specify the session timer expiration time. Default setting: 1800 seconds Setting range: 90 to 604,800 seconds (7 days)</p>

Session timers min expiration	Specify the minimum acceptable session timer expiration time for negotiating with remote devices. Default setting: 90 seconds Setting range: 90 to 604,800 seconds (7 days)
Require reliable SIP provisional response	Select whether highly reliable SIP provisional responses are required. When this is activated, support for PRACK (provisional ACK) messages is added for reliability.
Enable SIP traversal behind symmetric NAT	Select whether to enable SIP traversal behind a symmetric NAT.
Allow strict routing	Select whether to use a strict routing proxy. Default setting: Deactivated (loose routing proxy)
Minimize SIP message size	Select whether to use the function that reduces the SIP message size. When this is activated, SIP headers are encoded with abbreviations in order to reduce the message size.
DTMF signaling method	Select the signaling method for sending DTMF tones. <ul style="list-style-type: none">• [RTP (RFC2833)]• [SIP INFO]• [Inband]
DTMF RTP payload type	Specify the dynamic payload type for DTMF RTP signals. Default setting: 96 Setting range: 96 to 127
Media on-hold method	Select the media on-hold type. <ul style="list-style-type: none">• [M line only (RFC3264)]• [M and C line (RFC2543)]

④ [MEDIA SETTINGS]

MEDIA SETTINGS

Audio codec *i*

Enabled

- G.722
- G.711 μ -law (PCMU)
- G.711 A-law (PCMA)
- G.726
- G.729

Disabled

Codec ptime override (ms) *i*

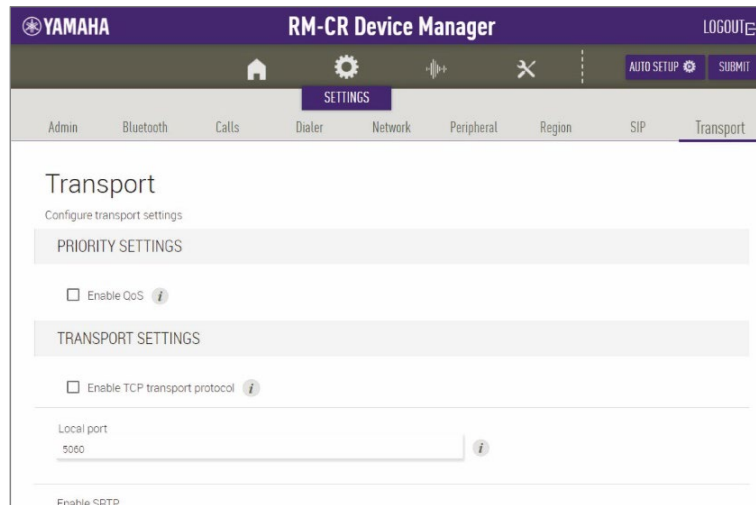
20

Item	Description
Audio codec	<p>Specify supported audio codecs and their priority. Sort audio codes by dragging them into the [Enabled] or [Disabled] lists. The codec placed at the top of the [Enabled] list is used with a higher priority. Codecs in the [Disabled] list are not used. By default, the order of priority for supported codecs is as follows:</p> <ul style="list-style-type: none"> • G.722 • G.711 u-law (PCMU) • G.711 A-law (PCMA) • G.726 • G.729
Codec ptime override	<p>Specify the interval at which audio packets are sent. Default setting: 20 ms/packet</p>

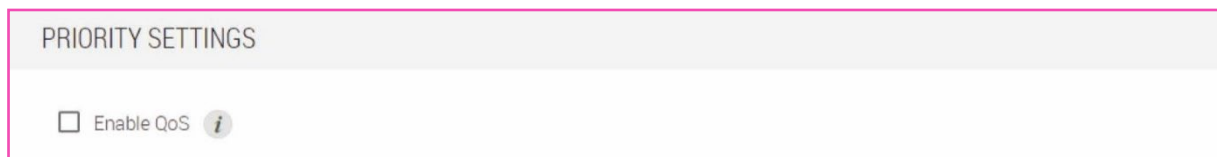
[Transport]

In the [Transport] screen, you can specify settings for communications using SIP.

Applicable Device Manager: RM-CR



① [PRIORITY SETTINGS]



Item

Description

Enable QoS

Select whether to activate QoS (Quality of Service) for SIP and media. Activate this when QoS is activated on the network. This stabilizes communication for calls and audio playback. Default setting: Deactivated

② [TRANSPORT SETTINGS]

Allows you to specify the settings related to the SIP network.

Item	Description
Enable TCP transport protocol	Select whether to use the TCP transport protocol with SIP messages. When this is not activated, the UDP transport protocol is used. Default setting: Deactivated
Local port	Specify the local port. Default setting: 5060 Setting range: 1024 to 65535
Enable SRTP	Select how SRTP (Secure Real-time Transport Protocol) is to be used. <ul style="list-style-type: none"> • [Disabled]: SRTP is not used; RTP is always used. • [Optional]: SRTP is used if the remote end supports SRTP, otherwise RTP is used. • [Mandatory]: The use of SRTP is mandatory. If the remote end does not support SRTP, the call will not connect.
RTP port	Specify the RTP port. RTP originates and is received on even-numbered ports, and the associated RTCP uses the next higher odd-numbered port. Default setting: 4000 Setting range: 1024 to 65535
SIP/RTP IP address	Specify the IP address for SIP/RTP.

③ [NAT TRAVERSAL SETTINGS]

Allows you to specify the settings related to NAT traversal.

NAT TRAVERSAL SETTINGS

STUN server i

Enable ICE i

Enable aggressive ICE nomination i

Disable RTCP in ICE i

Max allowed ICE host candidates

5 i

Enable TURN relay i

TURN server i

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.

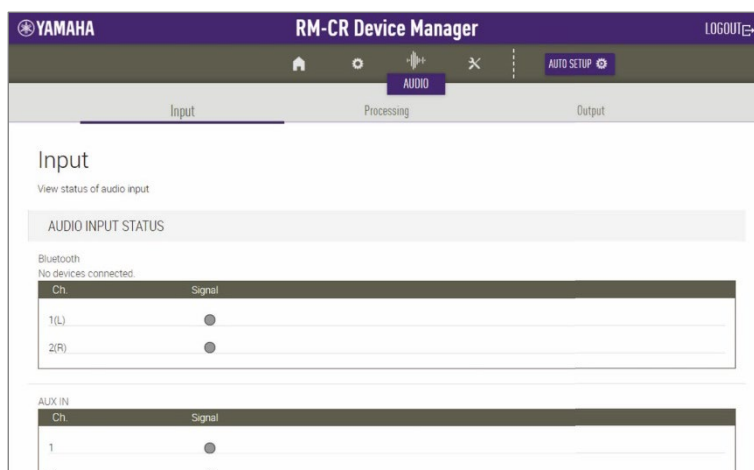
Item	Description
STUN server	Specify the IP address or name of the STUN (Session Traversal Utilities for NAT) server. This is used to determine if the phone is behind a NAT, the type of NAT, and the phone's public address.
Enable ICE	Select whether to use ICE (Interactive Connectivity Establishment). When this is activated, specify settings for the following. <ul style="list-style-type: none"> • Enable aggressive ICE nomination • Disable RTCP in ICE • Max allowed ICE host candidates
Enable TURN relay	Select whether to use TURN (Traversal Using Relay NAT). When this is activated, specify settings for the following. <ul style="list-style-type: none"> • TURN server • Use TCP connection to TURN server • TURN username • TURN password

[AUDIO]

[Input]

In the [Input] screen, you can check the status of the audio input.

Applicable Device Manager: RM-CR



① [AUDIO INPUT STATUS]

Displays the audio input status for each connection type and each connected device.

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	●		

Item**Description****Ch.**

Displays the channel.

Signal

Displays the input signal level.

●: -40 dB or more

●: Less than -40 dB

Connected to

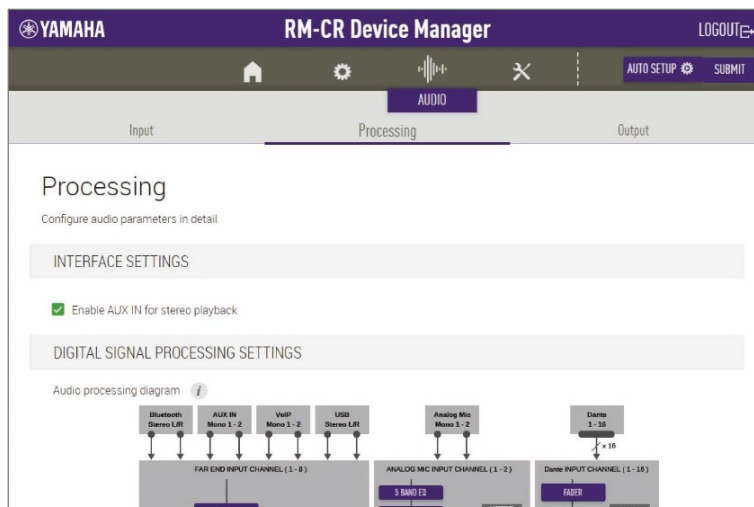
Displays the name of the connected Dante channel.

Model

Displays the model name.

[Processing] (RM-CR)

In the [Processing] screen, you can specify settings for automatic audio tuning and digital signal processing.



① [INTERFACE SETTINGS]

INTERFACE SETTINGS

Enable AUX IN for stereo playback

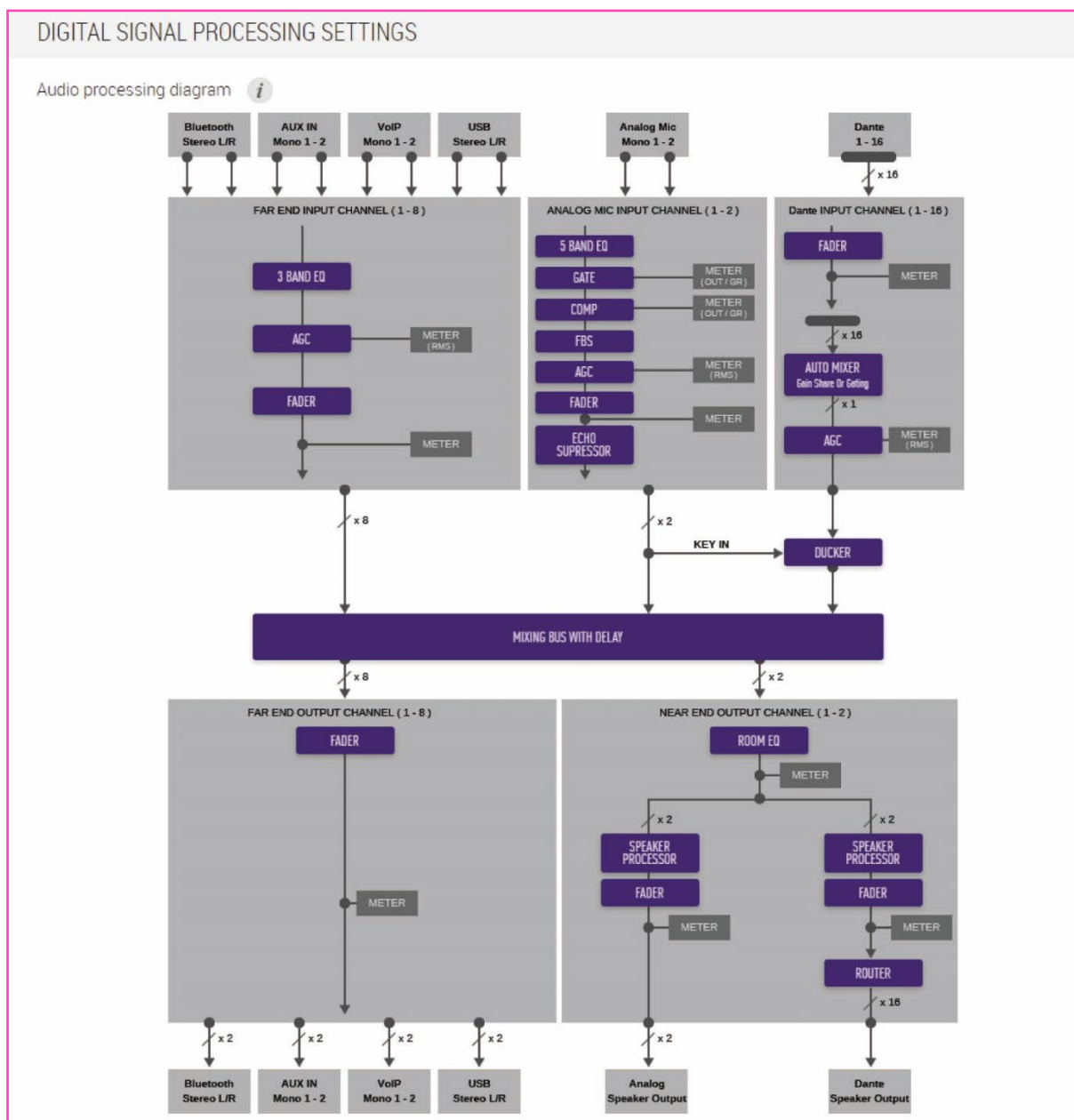
Item

Description

Enable AUX IN for stereo playback Select whether to activate the AUX jacks on the rear panel of this unit.

② [DIGITAL SIGNAL PROCESSING SETTINGS]

Allows you to display a screen for checking/changing parameters for digital signal processing, by clicking a button in the [Audio processing diagram].



Item	Description	Page
3 BAND EQ	Configure the equalizers.	72
AGC	Configure the AGC (auto gain controllers).	74
GATE	Configure the gates.	75
COMP	Configure the compressors.	76
FBS	Configure the FBS (feedback suppressors).	77
ECHO SUPPRESSOR	Configure the echo suppressors.	78
AUTO MIXER Gain Share Or Gating	Configure the automixers.	79


DUCKER	Configure the ducker.	80
SPEAKER PROCESSOR	Configure the loudspeaker processors.	81
FADER	Configure the faders.	84
ROUTER	Configure the routers.	85

③ [AUTOMATIC AUDIO TUNING]

In order to make conference audio easier to hear, the acoustics can be automatically adjusted according to the room environment.

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: The approximate time will be several minutes, depending on the number of peripheral devices. Speakers may sound a little louder than normal, but it does not affect any results. To measure correctly, please do not make a noise or interrupt speaker playback. Ensure that the speakers are installed in their final position. For tuning, the microphone needs to be in a position where it can measure the audio from the speaker.

Use analog speakers i

EXECUTE

Item

Description

Use analog speakers

Select whether to manually adjust the analog loudspeaker volume before starting automatic audio tuning. Activate this when using analog loudspeakers.

EXECUTE

Click to start automatic audio tuning. This is part of the AUTO SETUP function.

Notice

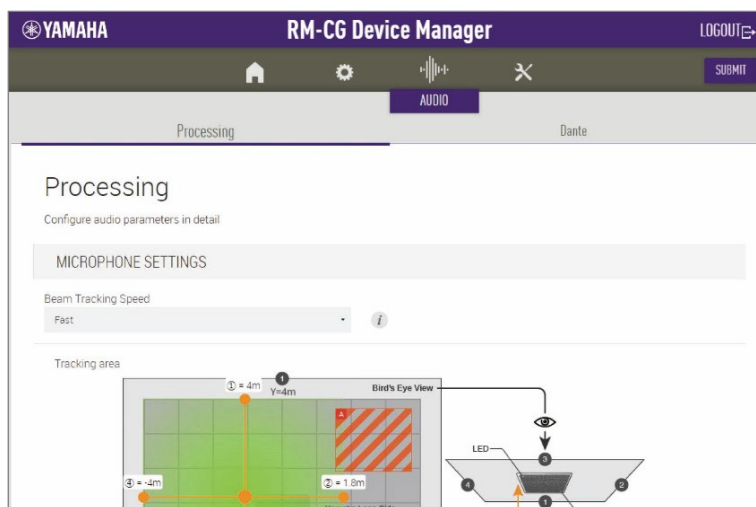
A loud sound is output from the loudspeakers during tuning.

i Note

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

[Processing] (RM-CG)

In the [Processing] screen, you can specify settings for microphones and for digital signal processing.



① [MICROPHONE SETTINGS]

MICROPHONE SETTINGS

Beam Tracking Speed
Fast i

Tracking area

[m] [ft.]

Enable tracking area restriction i

Add focus area i A B

Add exclusion area i A B

[DETAIL](#)

Auto mixing

Ch. 1 2Ch. GainSharing i

Ch. 2 2Ch. GainSharing i

Item	Description
Beam Tracking Speed	<p>Select the reaction speed at which the microphone beam follows the speaker.</p> <ul style="list-style-type: none"> • [Slow]: Volume variations are stabilized, but tracking of the speaker is slow. Select this when the volume changes frequently, such as in a room with a long reverberation time. • [Fast]: This setting provides a good balance between stabilizing volume variations and tracking the speaker. <p>Default setting: [Fast]</p>
Tracking area	<p>Specify various areas within the tracking area.</p> <ul style="list-style-type: none"> • [Restriction area (Whole area)]: Specify the area to be tracked within the larger tracking area. • [Focus area]: Specify a focus area to be tracked. • [Exclusion area]: Specify an area not to be tracked. <p>Drag the mouse to specify the tracking area. To specify numerical values, a screen with detailed settings can be displayed by clicking the [DETAIL] button.</p>
Auto mixing	<p>Select the automixer type for the microphone beam input.</p> <ul style="list-style-type: none"> • [1Ch. Gating]: Select this setting for a single microphone beam mode. In a room with long reverberation times and few speakers, clarity will be high, but volume variations large with this setting. • [2Ch. GainSharing]: Select this setting for gain sharing of two microphone beams. This setting provides a good balance between clarity and volume variations. • [4Ch. GainSharing]: Select this setting for gain sharing of four microphone beams. In a room with good acoustics, short reverberation times and many speakers, this setting will produce a natural sound; clarity will be reduced and volume variations will be small. • [4Ch. Mixing]: Select this setting to mix four microphone beams. In a room with good acoustics, short reverberation times and many speakers, the sound will be most natural with this setting. Clarity will be high and volume variations small.

② [DIGITAL SIGNAL PROCESSING SETTINGS]

Ch. 1 handles audio signals for remote sites, and Ch. 2 can be used for microphone input signals. Settings for the following can be changed.

	Ch. 1	Ch. 2	
		Low latency mode	
		OFF	ON
Input gain	✓	✓	✓
Adaptive echo canceller	✓	Partial processing	—
Noise Reduction	✓	Partial processing	—
Dereverberation	✓	—	—
AGC type	✓	—	—
AGC speed	✓	—	—

DIGITAL SIGNAL PROCESSING SETTINGS

NOTE: Ch.1 output signal from the Digital Signal Processing is taking advantage of all signal processing and is optimized for conference audio.
NOTE: Ch.2 output signal from the Digital Signal Processing is optimized for applications that require linear processed signals or lower latency.

Input gain
45dB

Adaptive echo canceller
Medium i

Noise reduction
Medium i

Dereverberation
Medium i

AGC type
Low i

AGC speed
Low i

Enable low latency mode on Ch.2 i

Item	Description
Input gain	Select the input gain. [0dB], [15dB], [30dB], [45dB] (default setting)
Adaptive echo canceller	<p>This function eliminates constant noise, such as air conditioning or echoes from loudspeakers or from wall reflections, which are problematic during remote conferences.</p> <ul style="list-style-type: none"> • [Off] : The echo canceller is not used. • [Low] : Suppresses echo while maintaining the quality of the original audio. • [Medium] (default setting): This setting provides a good balance between sound quality and echo cancellation strength. • [High] : Applies a strong echo canceller. Select this for rooms with long reverberation times or rooms where echoes are likely to occur.
Noise Reduction	<p>Select the noise reduction strength for stationary noise.</p> <ul style="list-style-type: none"> • [Off] : Noise reduction is not used. • [Low] : Suppresses stationary noise while maintaining the quality of the original audio. • [Medium] (default setting):

This setting provides a good balance between sound quality and noise reduction strength.

- [High] :
Applies strong noise reduction. Select this for a room with stationary noise from a large fan or air conditioning system.

Dereverberation

This function removes reverberation components from audio in order to make the audio clearer. Select the strength of the removal of reverberation components.

- [Off] :
Dereverberation is not used.
- [Low] :
Select this for a room with short reverberation times.
- [Medium] (default setting):
This setting can be used in normal environments. This setting provides a good balance between sound quality and dereverberation strength.
- [High] :
Applies strong dereverberation. Select this for rooms with long reverberation times, such as rooms with glass walls.

AGC type

AGC (Auto Gain Control) is a function that automatically adjusts the output gain in order to stabilize the audio level. It increases the volume level of soft voices and decreases the volume of excessively loud voices. Select the AGC strength.

- [Off] :
AGC is not used.
- [Low] (default setting):
This setting provides well-balanced volume changes.
- [High] :
Applies strong AGC.

AGC speed

Select the reaction speed for AGC volume changes.

- [Low] (default setting):
This setting provides well-balanced reaction speeds.
- [High] :
Responds quickly to volume variations.

Enable low latency mode on Ch.2

Select whether to activate low latency mode.

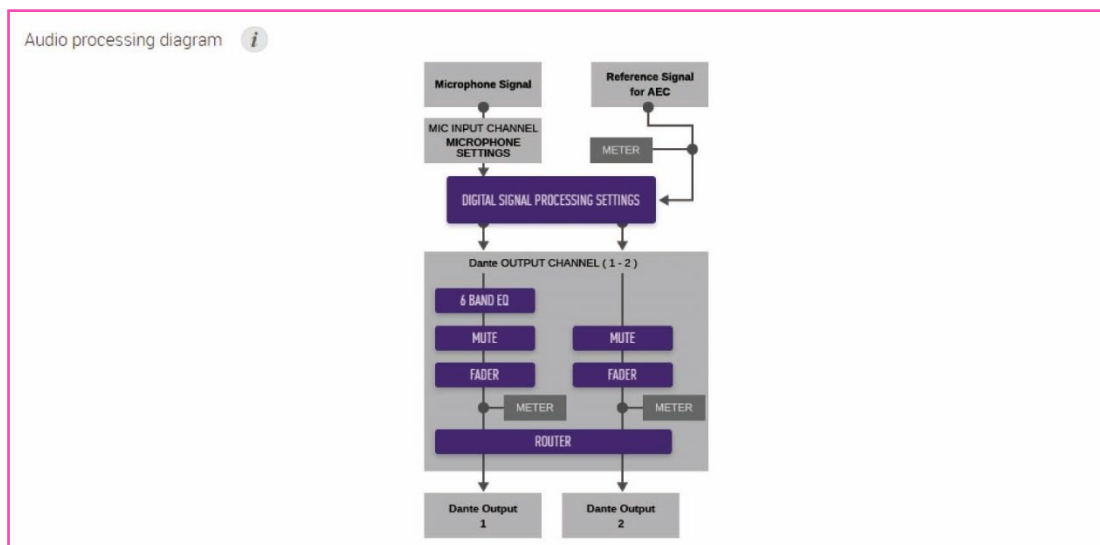
When this is activated, adaptive echo canceller and noise reduction for Ch. 2 are bypassed. This reduces delay and can be used for the audio signal of your local site.

Activate this when using only the RM-CG.

Note

Set [Adaptive echo canceller], [Noise reduction], [Dereverberation] and [AGC type] to [Off] on RM-CG when using the functions built into your video conferencing software or when using a different external device.

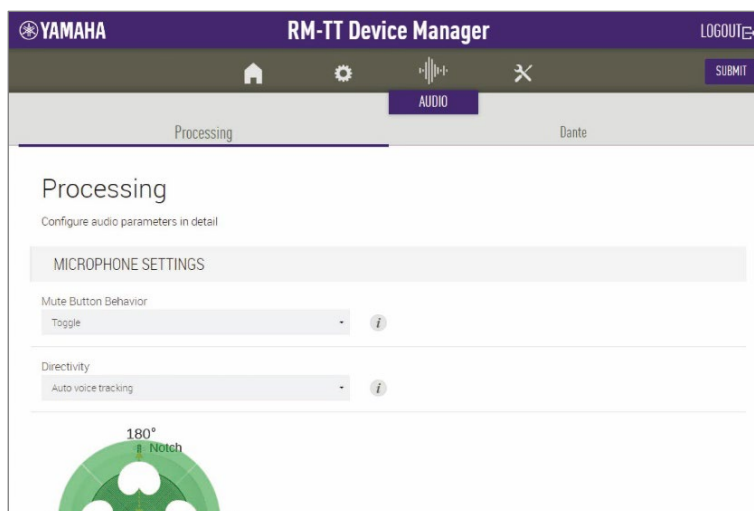
Allows you to display a screen for checking/changing parameters for digital signal processing, by clicking a button in the [Audio processing diagram].



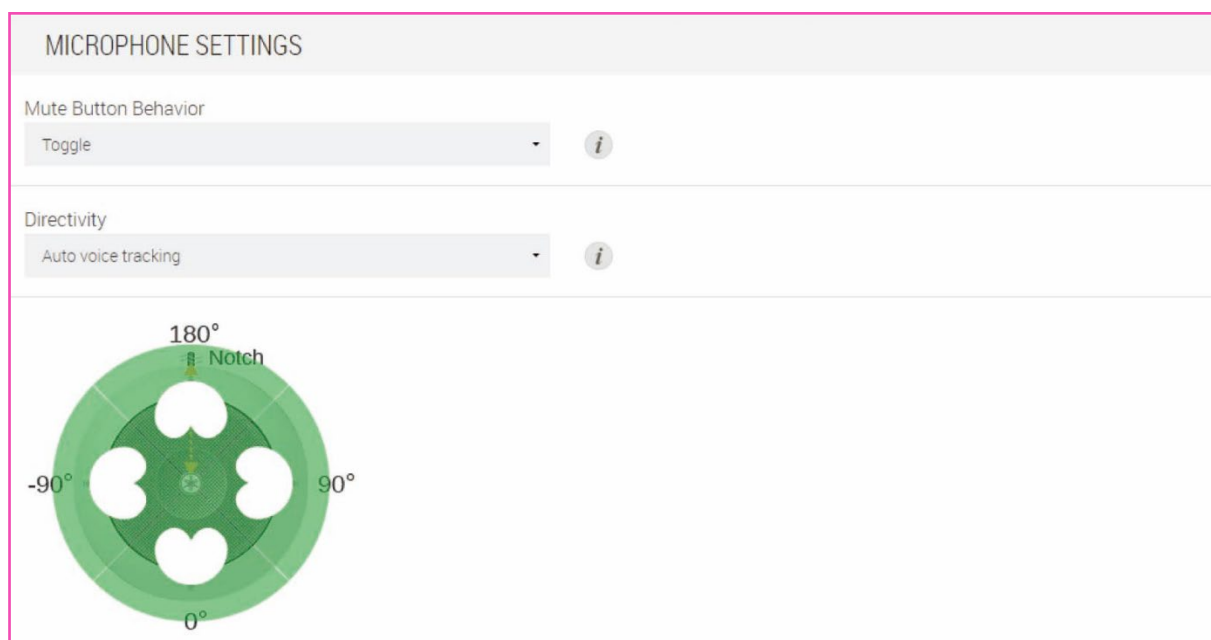
Item	Description	Page
3 BAND EQ	Configure the equalizers.	72
FADER	Configure the faders.	84
ROUTER	Configure the routers.	85

[Processing] (RM-TT)

In the [Processing] screen, you can specify settings for microphones and for digital signal processing.



① [MICROPHONE SETTINGS]



Item

Description

Mute Button Behavior

Set the operation of the Mic button to one of the following.

- [Toggle]: Touch the Mic button to turn the microphone on/off.
- [Push to talk]: The microphone is on while the Mic button is touched.
- [Disable]: The Mic button is deactivated.

Directivity

Set the directivity of the microphone to one of the following.

- [Auto voice tracking]
- [Omnidirectional]
- [Cardioid]
- [Supercardioid]
- [Hypercardioid]
- [Toroid]
- [Bidirectional]

If the directivity of the microphone has been set to [Cardioid], [Hypercardioid] or [Supercardioid], you can check or change the automixer settings.

② [DIGITAL SIGNAL PROCESSING SETTINGS]

This explanations for this section are the same as for RM-CG. Refer to page 61.

DIGITAL SIGNAL PROCESSING SETTINGS

Input gain
21dB ▾

Adaptive echo canceller
Medium ▾ ⓘ

Noise reduction
Medium ▾ ⓘ

Dereverberation
Medium ▾ ⓘ

AGC type
High ▾ ⓘ

AGC speed
Low ▾ ⓘ

Enable low latency mode on Ch.2 ⓘ

Audio processing diagram ⓘ

```

graph TD
    MS[Microphone Signal] --> MIC[MIC INPUT CHANNEL MICROPHONE SETTINGS]
    RS[Reference Signal for AEC] --> METER1[METER]
    MIC --> DSP[DIGITAL SIGNAL PROCESSING SETTINGS]
    METER1 --> DSP
    DSP --> DDC[Dante OUTPUT CHANNEL (1 - 2)]
    DDC --> EQ[6 BAND EQ]
    EQ --> MUTE1[MUTE]
    EQ --> MUTE2[MUTE]
    MUTE1 --> FADER1[FADER]
    MUTE2 --> FADER2[FADER]
    FADER1 --> METER2[METER]
    FADER2 --> METER3[METER]
    METER2 --> ROUTER[ROUTER]
    METER3 --> ROUTER
    ROUTER --> DO1[Dante Output 1]
    ROUTER --> DO2[Dante Output 2]
  
```

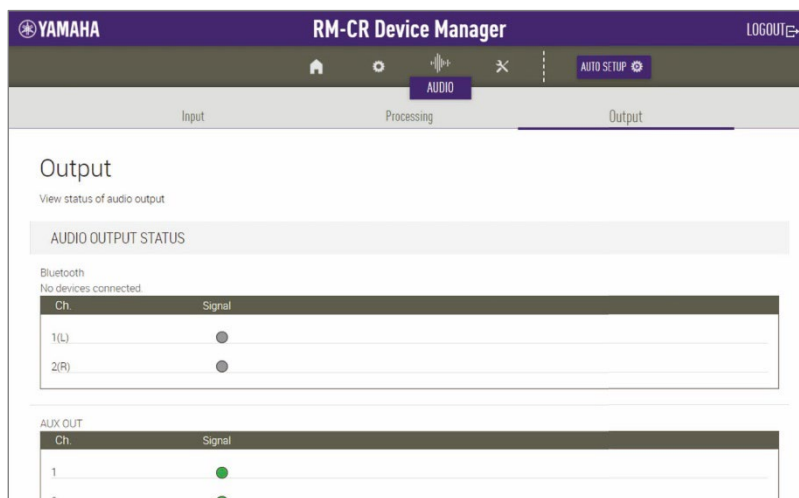
ⓘ Note

Set [Adaptive echo canceller], [Noise reduction], [Dereverberation] and [AGC type] to [Off] on RM-TT when using the functions built into your video conferencing software or when using a different external device.

[Output]

In the [Output] screen, you can check the status of the audio output.

Applicable Device Manager: RM-CR



① [AUDIO OUTPUT STATUS]

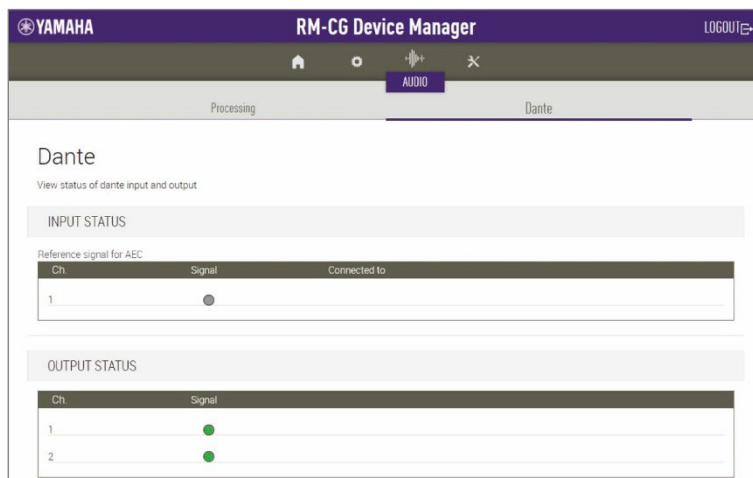
AUDIO OUTPUT STATUS			
Bluetooth No devices connected.			
Ch.	Signal		
1(L)			
2(R)			
AUX OUT			
Ch.	Signal		
1			
2			
SIP			
Ch.	Signal		
1			
2			
USB			
Ch.	Signal		
1			
2			
Analog Speaker Output			
Ch.	Signal		
1			
2			
DANTE Transmit			
Ch.	Signal	Connected to	Model
1		01@Y001-Yamaha-RM-CG-800162	RM-CG
2		01@Y065-Yamaha-VXL1-16P	VXL1-16P
3		01@Y066-Yamaha-VXL1-16P-8048bd	VXL1-16P
4			

Item	Description
Ch.	Displays the channel.
Signal	Displays the output signal level. : -40 dB or more : Less than -40 dB
Connected to	Displays the name of the connected Dante channel.
Model	Displays the model name.

[Dante]

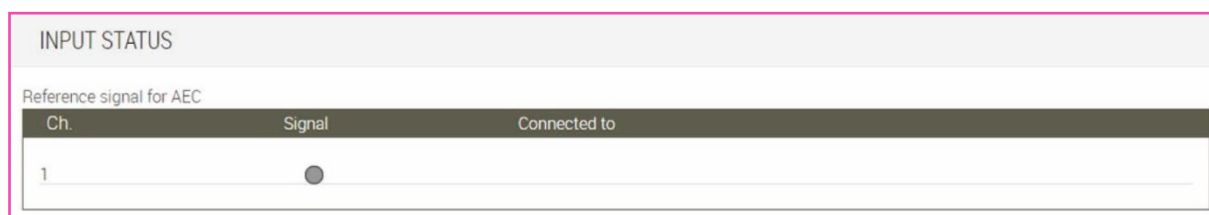
In the [Dante] screen, you can check the status of the Dante inputs/outputs.

Applicable Device Manager: RM-CG, RM-TT



① [INPUT STATUS]

Displays the Dante input status for each connected device.



Item

Description

Ch.

Displays the channel.

Signal

Displays the input signal level.

●: -40 dB or more

●: Less than -40 dB

Connected to

Displays the name of the connected Dante channel.

② [OUTPUT STATUS]

Displays the Dante output status for each connected device.

OUTPUT STATUS	
Ch.	Signal
1	●
2	●

Item

Description

Ch.

Displays the channel.

Signal

Displays the output signal level.

●: -40 dB or more

●: Less than -40 dB

[DIGITAL SIGNAL PROCESSING SETTINGS]

[EQ]

EQ (equalizer) is a function that adjusts sound quality by amplifying or attenuating specific frequency ranges. It can reduce noise and make voices and instruments easier to hear.

Applicable Device Manager: RM-CR, RM-CG, RM-TT



Item	Description
Switch Input Interface	Select the input interface to be displayed.
EQ curve	Displays the characteristics in a graph. You can change settings by dragging points on the graph.
Ch.	Select the input channel.
ON	Select whether to activate or deactivate the equalizer function.
Type	Select a filter type. <ul style="list-style-type: none"> • PEQ (Parametric Equalizer) Increases or decreases the volume at the specified frequency with a specified width of Q. • L.SHELF (Low Shelf) Increases or decreases the volume of the entire low-frequency range starting at the specified frequency. This is used as a bass boost, for example. [6dB/Oct] and [12dB/Oct] specifies the amount of attenuation per octave. • H.SHELF (High Shelf) Increases or decreases the volume of the entire high-frequency range starting at the specified frequency. This is used as a treble boost, for example. [6dB/Oct] and [12dB/Oct] specifies the amount of attenuation per

octave.

- HPF (High Pass Filter)
Cuts off the low band starting at the specified frequency.
- LPF (Low Pass Filter)
Cuts off the high band starting at the specified frequency.

Q Specify the frequency width for each band.

Freq Specify the center frequency of each band.

Gain Specify the output gain of each band.

Bypass ON Select whether to bypass each band.

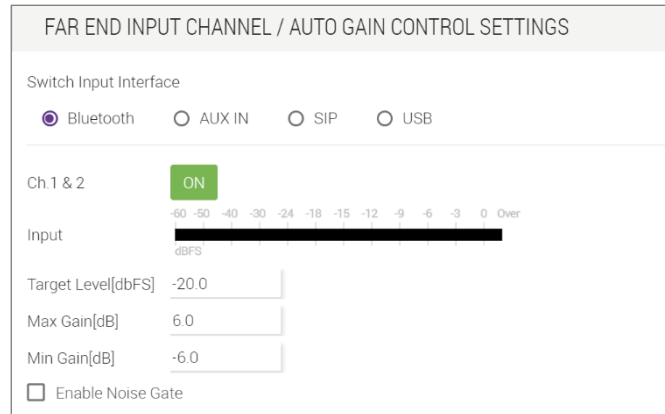
Note

Parameter changes are immediately reflected in the acoustics of the unit.

[AGC]

AGC (auto gain controller) is a function that automatically corrects the gain according to the input level and maintains a constant output level for signals with level variations. For example, if the position of the microphone or the volume of your voice changes, the volume of the amplified sound will change, making it difficult to hear. In such a case, the volume will be automatically adjusted within a certain range.

Applicable Device Manager: RM-CR



Item	Description
Switch Input Interface	Select the input interface to be displayed.
Ch.	Displays the input channel.
ON	Select whether to activate or deactivate the AGC function.
Input	Displays the input signal level.
Target Level	Specify the target volume level.
Max Gain	Specify the upper limit of the level width, based on the target level. For example, in the following case, a level above -14 dB (target level + Max Gain) will be lowered to bring it closer to -14 dB. <ul style="list-style-type: none"> • Target level: -20 dB • Max Gain : 6dB
Min Gain	Specify the lower limit of the level width, based on the target level. For example, in the following case, a level below -26 dB (target level + Min Gain) will be raised to bring it closer to -26 dB. <ul style="list-style-type: none"> • Target level: -20 dB • Min Gain : -6dB <p>* In the previous examples, there is no volume change for input signals between -26 dB and -14 dB.</p>
Enable Noise Gate	Noise Gate is a function that removes stationary noise. Select whether to activate or deactivate Noise Gate.

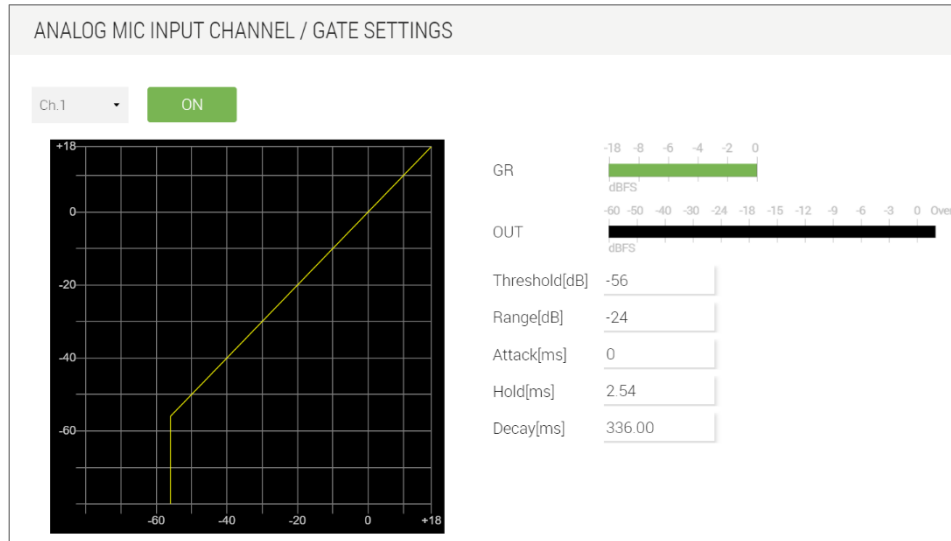
i Note

Parameter changes are immediately reflected in the acoustics of the unit.

[GATE]

GATE is signal processing that only allows audio above a certain volume to pass through. Use this to cut out small noises when there is no input from the microphone or when the input is below a certain level (threshold).

Applicable Device Manager: RM-CR



Item	Description
Ch.	Select the input channel.
ON	Select whether to activate or deactivate the GATE function.
Gate curve	Displays the effect in a graph. The horizontal axis represents the input signal level, and the vertical axis represents the output signal level.
GR	Displays the amount of attenuation in the gain reduction.
OUT	Displays the output signal level.
Threshold	Specify the threshold at which the gate effect is applied.
Range	Specify the amount of attenuation when the gate effect is applied.
Attack	Specify the attack time (time from when the input signal exceeds the threshold until the gate opens).
Hold	Specify the hold time (wait time until the gate begins to close after the input signal falls below the threshold).
Decay	Specify the decay time (wait time until the gate closes after the Hold wait time has elapsed).

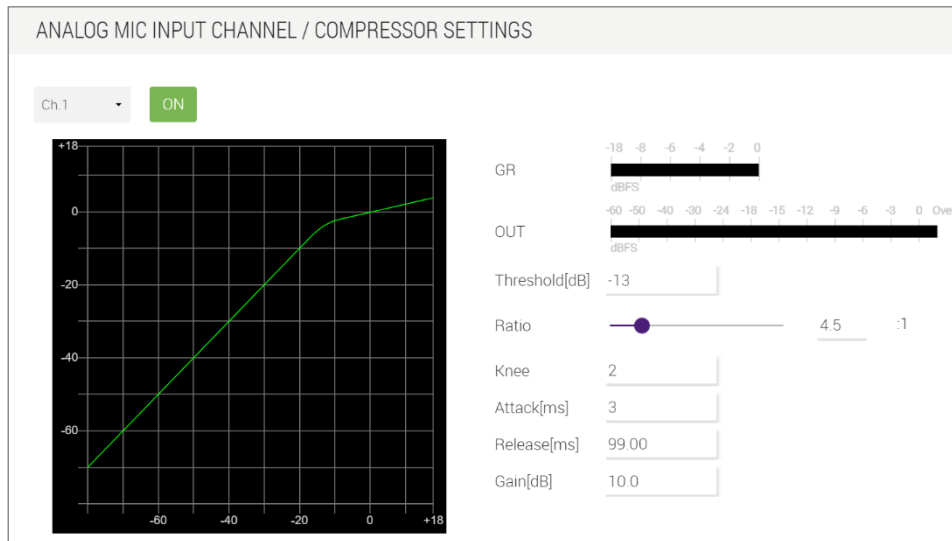
Note

Parameter changes are immediately reflected in the acoustics of the unit.

[COMP]

COMP is signal processing that compresses the dynamic range. This prevents abnormal sound when the input exceeds a certain level (threshold).

Applicable Device Manager: RM-CR



Item	Description
Ch.	Select the input channel.
ON	Select whether to activate or deactivate the COMP function.
Compressor curve	Displays the effect in a graph. The horizontal axis represents the input signal level, and the vertical axis represents the output signal level.
GR	Displays the amount of attenuation in the gain reduction.
OUT	Displays the output signal level.
Threshold	Specify the threshold at which the compressor effect is applied.
Ratio	Specify the compression ratio of the compressor. You can also change the setting by dragging the slider. Specify (as a ratio of "input signal: output signal") the output signal when the threshold is exceeded. For example, if this has been set to 4:1, a signal that exceeds the threshold is compressed to a level exceeding the threshold by 1/4.
Knee	Specify how the compressor is applied.
Attack	Specify the attack time (time from when the input signal exceeds the threshold until the compressor reaches its maximum effect).
Release	Specify the release time (time it takes for the compressor effect to no longer be applied after the input signal falls below the threshold).
Gain	Specify the gain of the output signal.
Note	

Parameter changes are immediately reflected in the acoustics of the unit.

[FBS]

FBS (feedback suppressor) is a function that prevents the unpleasant feedback that occurs when audio from a loudspeaker is routed to the microphone. Feedback is not only annoying, but it can also put a strain on the loudspeakers or even damage them. To prevent feedback, place the loudspeaker so as to avoid as much as possible amplifying the sound at the microphone position. If feedback still occurs, you can improve the feedback margin by using FBS.

FBS of RM-CR monitors the changing feedback points and automatically updates the filter frequency.

Applicable Device Manager: RM-CR

ANALOG MIC INPUT CHANNEL / FEEDBACK SUPPRESSOR SETTINGS

Ch.1 ON

0 0 0 0

Freq[Hz] 0 0 0

Clear ON

Ch.2 ON

0 0 0 0

Freq[Hz] 0 0 0

Clear ON

Item	Description
Ch. ON	Select whether to activate or deactivate the FBS function.
Freq	Displays the frequencies of the filters that are operating. The frequencies of up to 7 filters can be displayed.
Clear ON	Clears the filter settings.

i Note

Parameter changes are immediately reflected in the acoustics of the unit.

[ECHO SUPPRESSOR]

In an environment where the far-end audio is output from the loudspeaker at the local site, an echo (which makes it difficult to speak) will occur on the far end if the analog microphone at the local site picks up the far-end audio and transmits it. This is a function that reduces that echo.

Applicable Device Manager: RM-CR

ANALOGMIC INPUT CHANNEL / ECHO SUPPRESSOR SETTINGS	
Ch.1	<input checked="" type="checkbox"/> ON
Ch.2	<input checked="" type="checkbox"/> ON

Item

Description

Ch. ON

Select whether to activate or deactivate the ECHO SUPPRESSOR function for each channel.

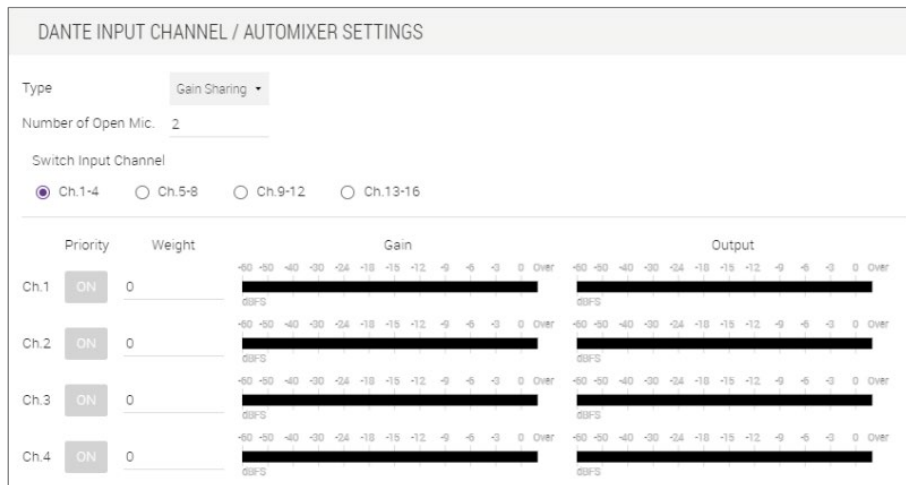
Note

Parameter changes are immediately reflected in the acoustics of the unit.

[AUTO MIXER]

AUTO MIXER is a function that automatically adjusts the input audio level of the microphone in the Dante route and transmits it as a single signal.

Applicable Device Manager: RM-CR



Item	Description
Type	Select the processing type of the automixer. <ul style="list-style-type: none"> • Gain Sharing This type adjusts the gain of each channel so that the sum of the gains of multiple input audio is always equal. • Gating This type uses an input level threshold to determine whether the input audio of a channel is subject to processing.
Number of Open Mic.	Specify the number of activated microphones that are subject to automixing when there is overlapping speech.
Switch Input Channel	Select the input channel to be displayed.
Priority <input checked="" type="checkbox"/> ON	Set [Priority] to [ON] for channels with a high-priority volume level. If [Priority] has been set to [ON], the input level will be preserved during mixing. When this is deactivated, the volume level will be automixed.
Weight	Specify the automix level weighting. The higher the value, the higher the volume level after automixing. Input range: -30 to 15 dB Specifying a [Weight] setting has no effect on channels whose [Priority] has been set to [ON].
Gain	Displays the input signal level.
Output	Displays the output signal level.
Note	

Parameter changes are immediately reflected in the acoustics of the unit.

[DUCKER]

DUCKER is a function that reduces the audio signal level (volume) of the microphone in the Dante route when an audio signal is input to the analog microphone route (microphone jack on the front of the RM-CR). For example, when an announcement is being broadcast using an analog microphone, the volume of the microphone in the Dante route is automatically reduced, and when the announcement is finished, the volume is automatically returned to its original level.

Applicable Device Manager: RM-CR



Item	Description
ON	Select whether to activate or deactivate the DUCKER function.

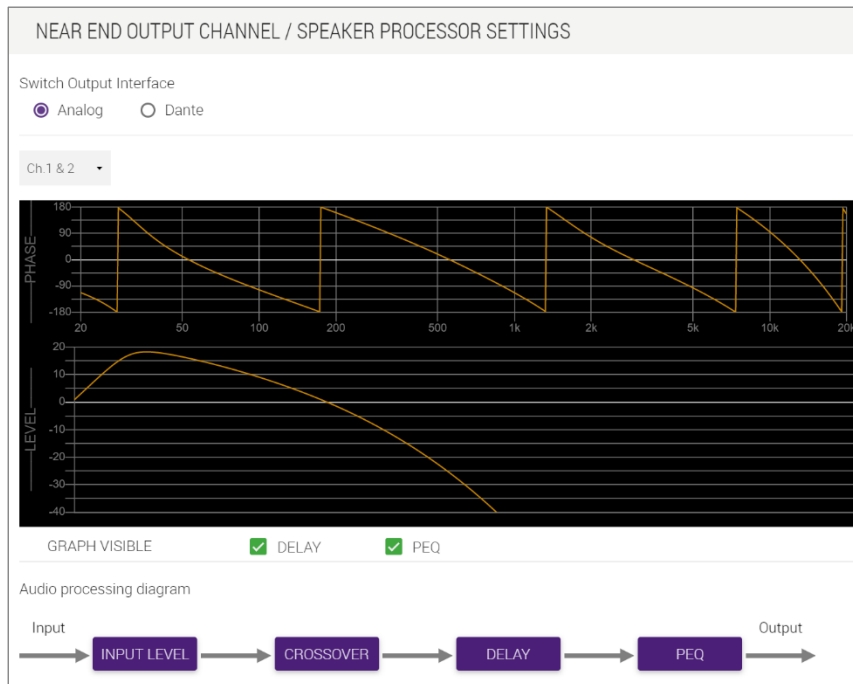
Note

Parameter changes are immediately reflected in the acoustics of the unit.

[SPEAKER PROCESSOR]

This is a crossover processor for loudspeaker adjustment.

Applicable Device Manager: RM-CR



Item	Description
Switch Output Interface	Select the output interface to be displayed.
Ch.	Select the output channel.
PHASE	Displays the characteristic curve for the crossover phase.
LEVEL	Displays the characteristic curve for the crossover amplitude.
DELAY	Select whether to display or hide the DELAY characteristic in the crossover curves.
PEQ	Select whether to display or hide the PEQ characteristic in the crossover curves.
INPUT LEVEL	Displays the input level settings.
CROSSOVER	Displays the crossover settings.
DELAY	Displays the delay settings.
PEQ	Displays the parametric equalizer settings.

INPUT LEVEL

Input Level

Item	Description
Input Level	Specify the input level. You can also change the setting by dragging the slider.

CROSSOVER

	HPF	LPF
Type	12dB/Oct AdjustGc	48dB/Oct Bessel
Freq.[Hz]	32.5	112.0
GC	5	

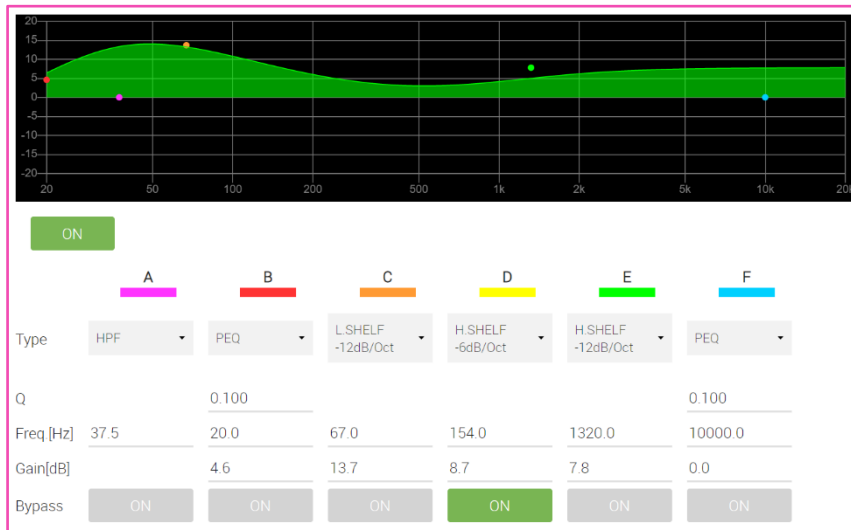
Item	Description
Type HPF/LPF	Select the attenuation width and filter type per octave for HPF and LPF.
Freq HPF/LPF	Specify the cutoff frequency for HPF and LPF.
GC	Specify the cutoff frequency gain if [Type] has been set to [AdjustGc] (Adjustable Gc).

DELAY

Delay ON
Time[ms]

Item	Description
Delay <input checked="" type="checkbox"/> ON	Select whether to activate or deactivate the Delay function.
Time	Specify the delay time.

PEQ



Item

Description

EQ curve

Displays the characteristics in a graph. You can change settings by dragging points on the graph.

ON

Select whether to activate or deactivate the equalizer function.

Type

Select a filter type.

- PEQ (Parametric Equalizer)
Increases or decreases the volume at the specified frequency with a specified width of Q.
- L.SHELF (Low Shelf)
Increases or decreases the volume of the entire low-frequency range starting at the specified frequency. This is used as a bass boost, for example.
[6dB/Oct] and [12dB/Oct] specifies the amount of attenuation per octave.
- H.SHELF (High Shelf)
Increases or decreases the volume of the entire high-frequency range starting at the specified frequency. This is used as a treble boost, for example.
[6dB/Oct] and [12dB/Oct] specifies the amount of attenuation per octave.
- HPF (High Pass Filter)
Cuts off the low band starting at the specified frequency.
- LPF (Low Pass Filter)
Cuts off the high band starting at the specified frequency.

Q

Specify the frequency width for each band.

Freq

Specify the center frequency of each band.

Gain

Specify the frequency gain for each band.

Bypass ON

Select whether to bypass each band.

i Note

Parameter changes are immediately reflected in the acoustics of the unit.

[FADER]

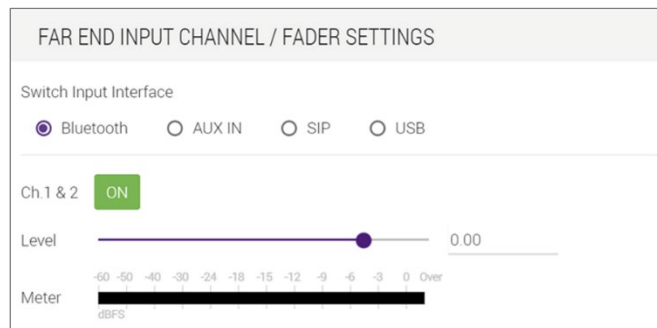
This screen is for turning on/off each channel and for specifying their levels.

Applicable Device Manager: RM-CR, RM-CG, RM-TT

There is a FADER screen for each of the five following input and output channels.

- FAR END INPUT CHANNEL
- ANALOG MIC INPUT CHANNEL
- DANTE INPUT CHANNEL
- FAR END OUTPUT CHANNEL
- NEAR END OUTPUT CHANNEL

The following example shows the [FAR END INPUT CHANNEL] screen.



Item

Description

Switch Input Interface, Switch Output Interface

Select the interface to be displayed.

ON

Select whether to turn on or off the channel.

Level

Adjust the channel signal level with the slider.

Meter

Displays the signal level.

i Note

Parameter changes are immediately reflected in the acoustics of the unit.

[ROUTER]

This screen is for patching the audio from the Speaker Output channel to the Dante Output channel.

Applicable Device Manager: RM-CR, RM-CG, RM-TT

NEAR END OUTPUT CHANNEL / ROUTER SETTINGS
VIEW ONLY

Switch Output Channel

Ch.1-8 Ch.9-16

		Output							
		Ch. 1	Ch. 2	Ch. 3	Ch. 4	Ch. 5	Ch. 6	Ch. 7	Ch. 8
input	Speaker Output Ch.1	ON	ON	ON	ON	ON	ON	ON	ON
	Speaker Output Ch.2	ON	ON	ON	ON	ON	ON	ON	ON
		LEFT	MUTE	MUTE	MUTE	MUTE	MUTE	MUTE	MUTE

Item

Description

Switch Output Channel

Select the output channel range to be configured.

ON

Select the destination Dante Output channels for the Speaker Output channels.

In order to change this setting manually, [SETTINGS] > [Peripheral] > [Enable automatic Dante audio routing] must be deactivated.

i Note

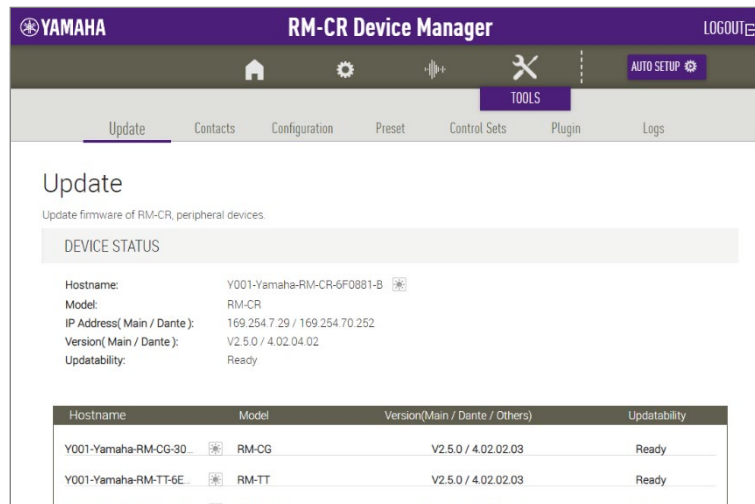
Parameter changes are immediately reflected in the acoustics of the unit.

[TOOLS]

[Update]

In the [Update] screen, you can update the firmware of the corresponding unit. In the screen for RM-CR, you can also update the firmware of peripheral devices.

Applicable Device Manager: RM-CR, RM-CG, RM-TT



① [DEVICE STATUS]

Allows you to check the firmware and Dante versions of devices.

Devices with "Ready" appearing below "Updatability" can be updated.

DEVICE STATUS			
Hostname:	Y001-Yamaha-RM-CR-6F0881-B		
Model:	RM-CR		
IP Address(Main / Dante):	169.254.7.29 / 169.254.70.252		
Version(Main / Dante):	V2.5.0 / 4.02.04.02		
Updatability:	Ready		
Hostname	Model	Version(Main / Dante / Others)	Updatability
Y001-Yamaha-RM-CG-30...	RM-CG	V2.5.0 / 4.02.02.03	Ready
Y001-Yamaha-RM-TT-6E...	RM-TT	V2.5.0 / 4.02.02.03	Ready
Y001-Yamaha-VXL1-16P...	VXL1-16P	R2.5.0a0.4 / 4.02.02.03	Ready

Item

Description

Hostname

Displays the hostname.

Model

Displays the model name.

IP Address (Main / Dante)

Displays the IP addresses of the device/Dante.

Version (Main / Dante)	Displays the versions of the device/Dante. If the firmware must be updated, the version number appears in red.
Updatability	Displays the firmware updatability status. <ul style="list-style-type: none"> • [Ready]: The firmware and Dante can be updated. • [IP Mismatched]: The IP address of the device network and the network portion of Dante's IP address are different.

Note

In order to update Dante, the network portion of the device's IP address and the network portion of Dante's IP address must be the same, and network communication must be possible.

② [FIRMWARE UPDATE]

FIRMWARE UPDATE

NOTE: This update section allows for updating the RM-CR as well as connected peripheral devices. Firmware update result will only be shown for the RM-CR. For firmware 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 update for later 00 : 00

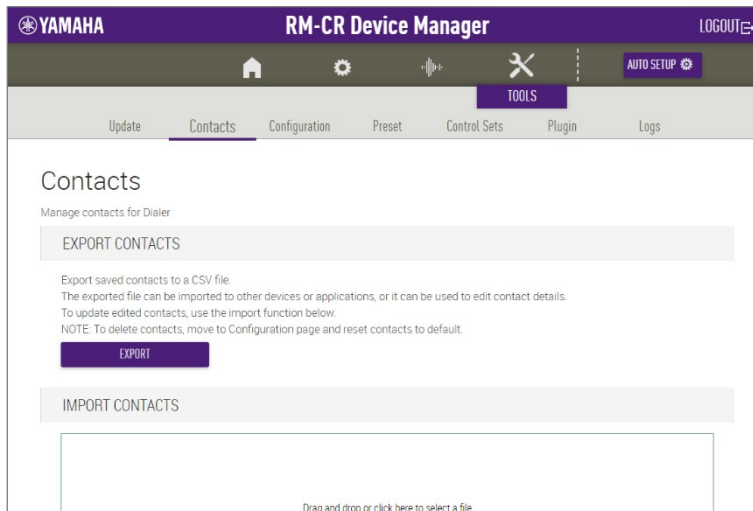
EXECUTE

Item	Description
schedule an update for later	Select whether the update will be performed automatically after the specified length of time. In order to use this, specify a wait time, and then click the [EXECUTE] button.
EXECUTE	Drag the update file(s) into the box to update the firmware and Dante collectively or individually. The files for the latest firmware can be downloaded from the Yamaha website. Yamaha website https://download.yamaha.com/

[Contacts]

In the [Contacts] screen, you can import or export SIP call contact information.

Applicable Device Manager: RM-CR



① [EXPORT CONTACTS]

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

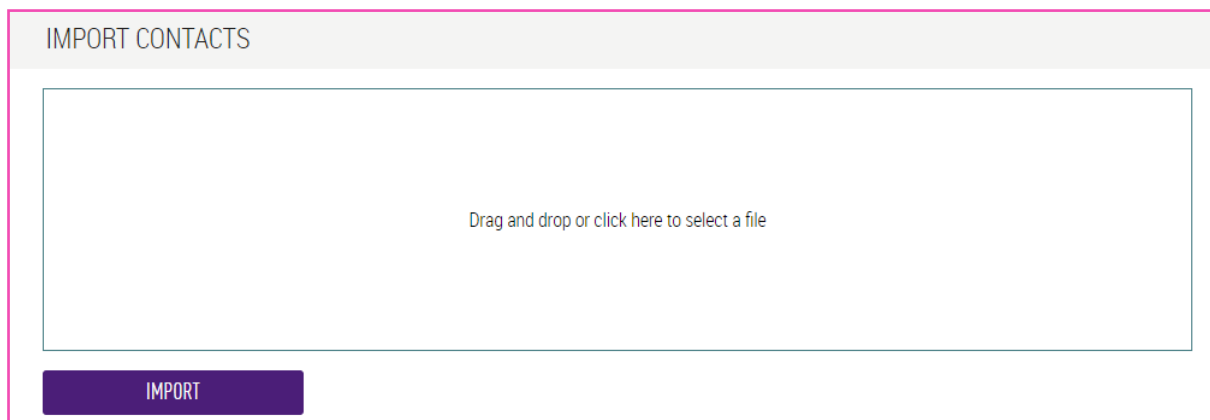
Item

EXPORT

Description

Click to export the SIP call contact information stored on this unit.

② [IMPORT CONTACTS]



IMPORT CONTACTS

Drag and drop or click here to select a file

IMPORT

Item

IMPORT

Description

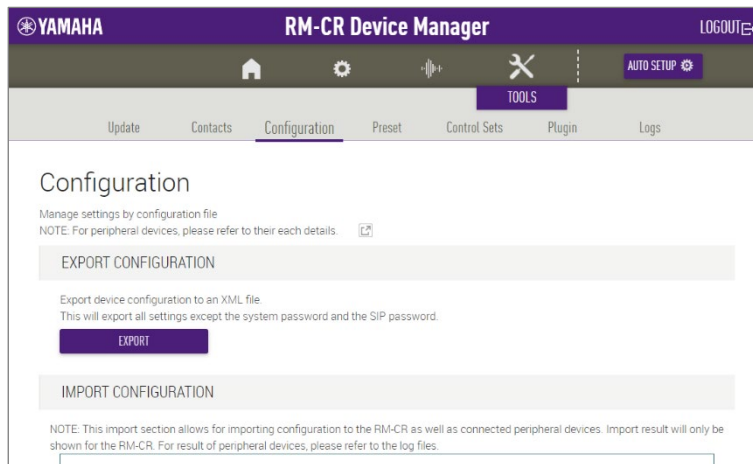
Drag the contact file into the box. Click the button to import the SIP call contact information into this unit.

Create the contact file to be imported, by editing the one exported in ①.

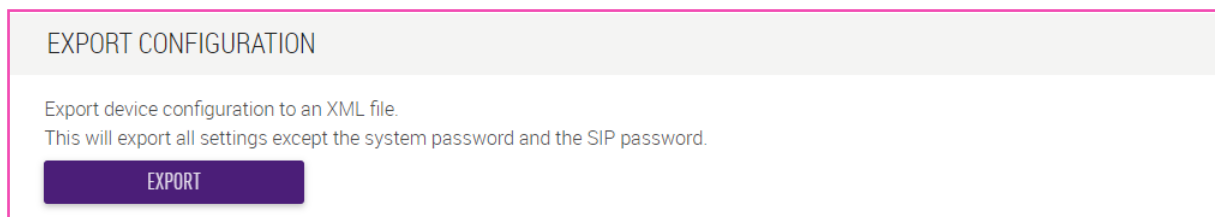
[Configuration]

In the [Configuration] screen, you can export, import or reset the settings of this unit. In the screen for RM-CR, you can also import the settings of peripheral devices.

Applicable Device Manager: RM-CR, RM-CG, RM-TT



① [EXPORT CONFIGURATION]



Item

Description

EXPORT

Click to export the settings of this unit.

② [IMPORT CONFIGURATION]

Allows you to import settings for this unit. RM-CR Device Manager can also be used to import settings for peripheral devices such as RM-CG and RM-TT. A language file for the language of the information displayed with the information icon can also be imported.

Note

- Create the configuration file to be imported, by editing the one exported in ①.
- The name of the configuration file should be the MAC address of the device receiving the upload file.
Example: AC1234567899.xml

IMPORT CONFIGURATION

NOTE: This import section allows for importing configuration to the RM-CR as well as connected peripheral devices. Import result will only be shown for the RM-CR. For result of peripheral devices, please refer to the log files.

Drag and drop or click here to select a file

Enable configuration filename restriction i

IMPORT

Item**Description****Enable configuration filename restriction**

Select whether the name of the configuration file will be checked. When this is deactivated, an RM-CR configuration file whose name has been changed can be imported.

IMPORT

Drag the configuration file into the box. Click the button to import the settings of this unit or the peripheral devices. In the same way, a language file for the language of the information displayed with the information icon can also be imported.

③ [RESET DEFAULTS]

RESET DEFAULTS

Restore ALL defaults

Network settings

Call history

Contacts

RESET

Item**Description****RESET**

Click to reset the settings of this unit.

- Restore ALL defaults: Restores the factory default settings.
- Network settings: Resets the network settings.
- Call history: Resets the SIP call history.
- Contacts: Resets the SIP call contact information.

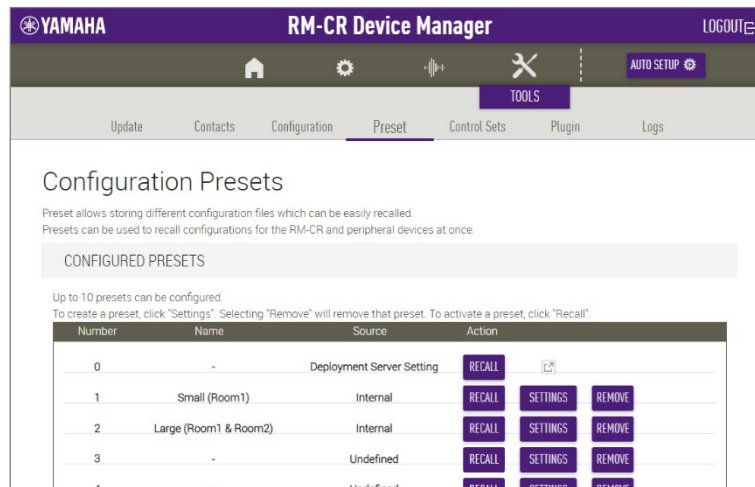
Notice

Confirm the settings to be reset before performing this operation.

[Preset]

In the [Preset] screen, you can save and recall up to 10 presets for this unit and the peripheral devices.

Applicable Device Manager: RM-CR



① [CONFIGURED PRESETS]

CONFIGURED PRESETS			
Up to 10 presets can be configured. To create a preset, click "Settings". Selecting "Remove" will remove that preset. To activate a preset, click "Recall".			
Number	Name	Source	Action
0	-	Deployment Server Setting	RECALL
1	Small (Room1)	Internal	RECALL SETTINGS REMOVE
2	Large (Room1 & Room2)	Internal	RECALL SETTINGS REMOVE
3	-	Undefined	RECALL SETTINGS REMOVE
4	-	Undefined	RECALL SETTINGS REMOVE
5	Meeting #A	External	RECALL SETTINGS REMOVE
6	-	Undefined	RECALL SETTINGS REMOVE
7	-	Undefined	RECALL SETTINGS REMOVE
8	-	Undefined	RECALL SETTINGS REMOVE
9	-	Undefined	RECALL SETTINGS REMOVE
10	-	Undefined	RECALL SETTINGS REMOVE

Item

Description

Number

Displays the preset number.

- 0: For recalling the configuration specified on the deployment server
- 1 to 10: For saving or recalling configurations as presets.

Name

Displays the preset name.

Source

Displays the source of the configuration.

- "Deployment Server Setting": Deployment server
- "Undefined": Not used
- "Internal": Internal RM-CR storage
- "External": External server

Action

RECALL

Click to recall the data of the corresponding preset.

SETTINGS

Click to display the [PRESET CONFIGURATION] screen, where a preset can be saved.

For details, refer to the following.

- Saving a preset (external server) (page 109)
- Saving a preset (internal server) (page 111)

REMOVE

Click to erase the corresponding preset.

② [PRESET CONFIGURATION]

PRESET CONFIGURATION

Name
Meeting #A *i*

Source Type: External ▾

Source Settings
Server *i*
Server address

Trigger Settings
Control Set Number NA ▾ *i*

CANCEL **SUBMIT**

PRESET CONFIGURATION

Name
Small (Room1) *i*

Source Type: Internal ▾

Source Settings
Internal Storage *i*
No file stored.
STORE CURRENT CONFIGURATIONS

Drag and drop configuration files **IMPORT**

Trigger Settings
Control Set Number NA ▾ *i*

CANCEL **SUBMIT**

PRESET CONFIGURATION

Name
Small (Room1) *i*

Source Type: Internal ▾

Source Settings
Internal Storage *i*
13 files stored.
EXPORT **REMOVE**

Drag and drop configuration files **IMPORT**

Trigger Settings
Control Set Number 1 ▾ *i*

CANCEL **SUBMIT**

Item	Description
Name	Allows you to name the preset.
Source Type	<p>Select whether the configuration file is saved on an external server or the internal storage of RM-CR.</p> <ul style="list-style-type: none"> • [Unused]: Deactivates this preset. • [External]: Selects an external server. • [Internal]: Selects the internal storage of RM-CR.
Trigger Settings	<p>To link a Control Set with a preset, select the Control Set number.</p> <ul style="list-style-type: none"> • [NA]: Not used • [1] to [10]: Control Set number <p>This is executed if [Mode] has been set to [Toggle (on/off)].</p>
STORE CURRENT CONFIGURATIONS	Click to use the current settings of RM-CR and of the peripheral devices.
IMPORT	Click to load the configuration file specified with [Drag and drop configuration files].
EXPORT	Click to output the settings (saved in internal storage) as a file.
REMOVE	Click to delete the settings saved in internal storage.
SUBMIT	Click to save the settings to the corresponding preset.
CANCEL	Click to discard the currently specified settings and return to the [CONFIGURED PRESETS] screen.

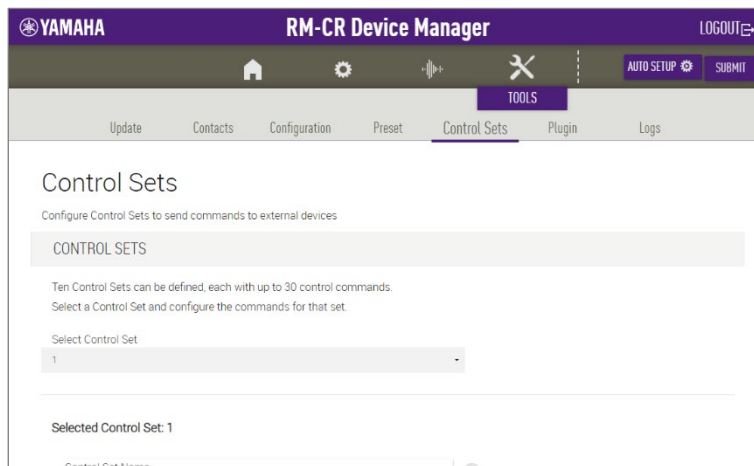
i Related links

- [Saving a preset \(external server\) \(page 109\)](#)
- [Saving a preset \(internal storage\) \(page 111\)](#)

[Control Sets]

In the [Control Sets] screen, you can specify commands for controlling external devices on the same network and save those commands as a Control Set. Up to ten Control Sets can be saved. Up to 30 control commands can be saved in each Control Set. By linking a Control Set number to a preset, you can send commands to an external device when a preset is recalled.

Applicable Device Manager: RM-CR



① [CONTROL SETS]

CONTROL SETS

Ten Control Sets can be defined, each with up to 30 control commands.

Select a Control Set and configure the commands for that set.

Select Control Set

1

Selected Control Set: 1

Control Set Name



Mode

Toggle (on/off)



Controlled Devices

ADD

	Address	Delay	Description	Action
1	192.168.0.2:1	100ms	Preset#1 Recall	<input type="button" value="EDIT"/> <input type="button" value="REMOVE"/>
2	192.168.0.8:3	2000ms	Power On	<input type="button" value="EDIT"/> <input type="button" value="REMOVE"/>

TEST-ON

TEST-OFF

Export Command Sequence

Export the configuration settings of the currently selected Command Sequence.

EXPORT

Import Command Sequence

Import configuration settings for the currently selected Command Sequence.

Drag and drop or click here to select a file

IMPORT

Item	Description
Select Control Set	Select the number of the Control Set to be specified. Selection range: 1 to 10
Control Set Name	Allows you to name the currently selected Control Set.
Mode	Select the mode for the currently selected Control Set. <ul style="list-style-type: none"> • [Toggle (on/off)]: Each time a Control Set is executed, an On command and an Off command are sent alternately. However, only the On command is sent for a Control Set linked to a preset. • [Single Command Sequence]: Executing a Control Set sends the saved commands.
ADD	Click to display the [DEVICE CONTROL SETTINGS] screen, where commands can be added.
No	1 to 30: A maximum of 30 commands can be saved in a Control Set.
Address	Displays the hostname or IP address of the device.
Delay	Displays the delay time between executing the Control Set and sending the command.
Description	Displays the description given to the command.
Action EDIT	Click to display the [DEVICE CONTROL SETTINGS] screen, where commands can be specified and saved.
REMOVE	Click to erase the corresponding command.
TEST TEST-ON TEST-OFF	Click to send the specified commands. This allows you to check the execution of the specified commands. The [TEST] button is displayed if [Mode] has been set to [Single Command Sequence]. The [TEST-ON] and [TEST-OFF] buttons are displayed if [Mode] has been set to [Toggle (on/off)].
EXPORT	Click to output to a file the configuration of the currently selected Control Set.
IMPORT	Click to load the Control Set configuration file (specified with [Drag and drop or click here to select a file]) into the currently selected Control Set.

② [DEVICE CONTROL SETTINGS]

DEVICE CONTROL SETTINGS

Description *i*

Protocol
UDP *i*

Destination Address *i*
This field is required.

Destination Port *i*
This field is required.

Delay [millisecond] *i*

Command *i*
This field is required.

Hex ASCII
 TEST

CANCEL SAVE

[Single Command Sequence] mode

DEVICE CONTROL SETTINGS

Description *i*

Protocol
UDP *i*

Destination Address *i*
This field is required.

Destination Port *i*
This field is required.

Delay [millisecond] *i*

On Command *i*
This field is required.

Hex ASCII
 TEST-ON

Off Command *i*
This field is required.

CANCEL SAVE

[Toggle (on/off)] mode

Item**Description****Description**

Allows you to give a description to a command.

Protocol

Select the transmission protocol for the command.

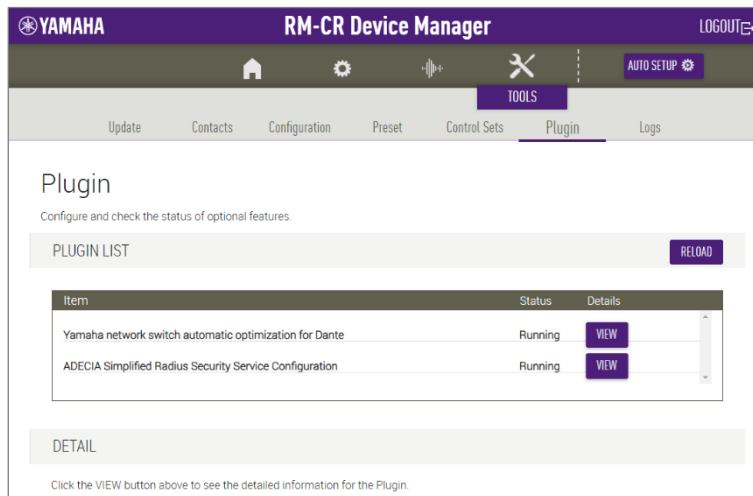
- UDP
- TCP

Destination Address	Type the hostname or IP address of the device.
Destination Port	Type the device port.
Delay (millisecond)	Type the delay time between executing the Control Set and sending the command. Default setting: 0 millisecond Setting range: 0 to 60,000 milliseconds
Command	Select the command string encoding, and type the command (up to 1024 bytes). <ul style="list-style-type: none"> • [Hex]: Hexadecimal numbers • [ASCII]: ASCII codes Selecting a different string encoding changes how the entered command is displayed. If [Mode] has been set to [Toggle (on/off)], type each command.
<div data-bbox="113 667 260 712">TEST</div> <div data-bbox="113 719 260 763">TEST-ON</div> <div data-bbox="113 770 260 815">TEST-OFF</div>	Click to send the entered commands. This allows you to check the execution of the entered command. The [TEST] button is displayed if [Mode] has been set to [Single Command Sequence]. The [TEST-ON] and [TEST-OFF] buttons are displayed if [Mode] has been set to [Toggle (on/off)].
<div data-bbox="113 882 260 927">SAVE</div>	Click to save the specified command in the currently selected Control Set.
<div data-bbox="113 972 260 1016">CANCEL</div>	Click to discard the currently specified settings and return to the [CONTROL SETS] screen.

[Plugin]

This screen contains a list of functions for optimal network configuration of Yamaha network switches on networks supporting ADECIA and for easy configuration of RADIUS security on a network.

Applicable Device Manager: RM-CR, RM-CG, RM-TT



① [PLUGIN LIST]

Item	Status	Details
Yamaha network switch automatic optimization for Dante	Running	VIEW
ADECIA Simplified Radius Security Service Configuration	Running	VIEW

Item

Description

Item

Displays the name of the plug-in.

- “Yamaha network switch automatic optimization for Dante”:
Configures the optimal network settings for network switches on networks supporting ADECIA.
- “ADECIA Simplified Radius Security Service Configuration”:
Easily configures RADIUS security for network switches on networks supporting ADECIA.

Status

Displays the status of the plug-in.

- “Stopped”: The plug-in has stopped.
- “Running”: The plug-in is running.

Details

Click the [VIEW] button to display the [DETAIL] and [STATUS] sections for the plug-in.

② [DETAIL]

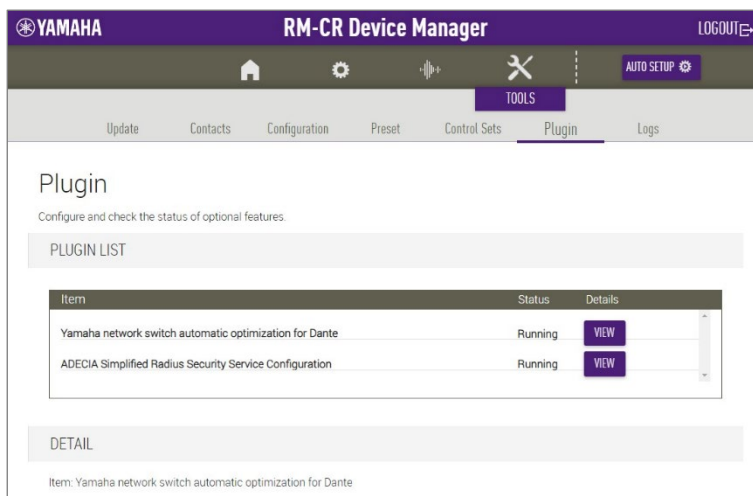
Displays detailed information for each plug-in or allows it to be configured.

DETAIL

Click the VIEW button above to see the detailed information for the Plugin.

[Yamaha network switch automatic optimization for Dante]

Configures the optimal network settings for network switches on networks supporting ADECIA. The items shown in the screen below are automatically configured by ADECIA, and the settings are displayed. The configuration is automatically applied when the network switch is connected to RM-CR.



① [DETAIL]

Displays detailed information for the plug-in.

DETAIL

Item: Yamaha network switch automatic optimization for Dante

Description: This plugin detects compatible Yamaha network switch and automatically configures the optimal network settings for dante network audio.

② [STATUS]

Displays the status of the plug-in.

STATUS
RUNNING

Status: Supported ethernet switch is found and optimized for Dante network audio.

Discovered Ethernet Switch:
Hostname: SWR2311P
MAC Address: F4:D5:80:13:ED:48

Optimized Network Switch Configuration

Parameters	Status
EEE	OFF
FLOW CONTROL	OFF
IGMP TTL CHECK	OFF
IGMP QUERIER	ON
IGMP INTERVAL	30s
QoS DSCP	Priorities Configured

Item**Description****Status**

Displays the status of Dante optimization configuration.

- Supported ethernet switch is found and optimized for Dante network audio.
- No ethernet switch found.

Hostname

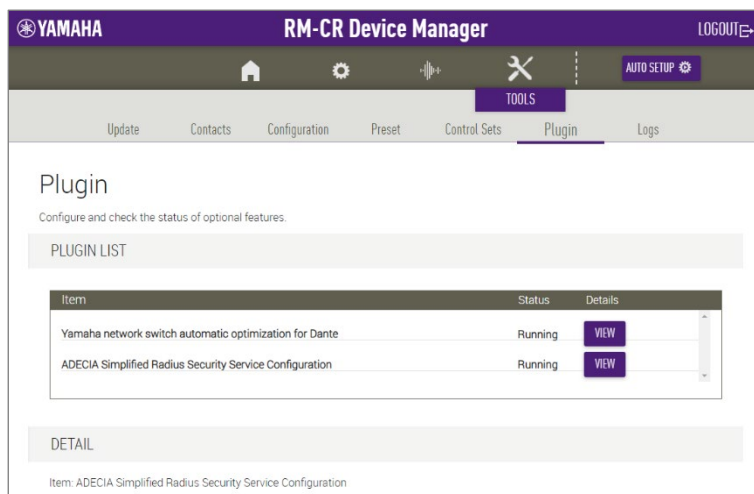
Displays the hostname of the switch.

MAC Address

Displays the MAC address of the switch.

[ADECIA Simplified Radius Security Service Configuration]

By using a network switch that supports the ADECIA Simplified Radius Security Service Configuration feature, you can easily restrict and manage the terminals that can connect to the network. SWR2311P-10G is compatible with this feature.



① [DETAIL]

Displays detailed information for the plug-in.

DETAIL

Item: ADECIA Simplified Radius Security Service Configuration

This plugin allows easy configuration and management of RADIUS security in a conference room network for ADECIA using Yamaha SWR and SWX network switches.

If an unregistered device is connected to the secured network, an alert will be issued to prevent leakage of meeting information and unauthorized audio access.

② [STATUS]

Displays the operating status of the Simplified Radius Security Service Configuration feature and information (stored on RM-CR) on devices registered with RADIUS security.

STATUS				RUNNING
Network Switch Discovery and Monitor: Enabled				
Security Status: Inactive				
Registered Devices				
Hostname	Model	MAC Address	IP Address	
Y001-Yamaha-RM-CR-6F0881-B	RM-CR/Device	AC:44:F2:6F:08:81	169.254.7.29	
Y001-Yamaha-RM-CR-6EFA1B	RM-CR/Dante	AC:44:F2:6E:FA:1B	169.254.70.252	
Y001-Yamaha-RM-CR-000099-A	RM-CR/Device	00:A0:DE:00:00:99	169.254.45.165	
Y001-Yamaha-RM-CR-6EFA0D	RM-CR/Dante	AC:44:F2:6E:FA:0D	169.254.70.238	
Y001-Yamaha-RM-TT-6E0C2C	RM-TT/Device	AC:44:F2:6E:0C:2C	169.254.218.187	
Y001-Yamaha-RM-WAP-8-a28e16	RM-WAP-8/Device	AC:44:F2:A2:8E:16	169.254.7.181	
Y001-Yamaha-RM-WAP-8-a28e15	RM-WAP-8/Dante	AC:44:F2:A2:8E:15	169.254.66.246	
Y001-Yamaha-RM-WAP-8-a28e19	RM-WAP-8/Device	AC:44:F2:A2:8E:19	169.254.7.196	
Y001-Yamaha-RM-WAP-8-a28e18	RM-WAP-8/Dante	AC:44:F2:A2:8E:18	169.254.66.249	
Y001-Yamaha-RM-TT-6F0BD7	RM-TT/Device	AC:44:F2:6F:0B:D7	169.254.224.100	

Item**Description****Network Switch Discovery and Monitor**

Displays whether the usage status of this plug-in is "Enabled" or "Disabled".
If "Disabled" is displayed, no device is listed below "Registered Devices", indicating that the plug-in is not used.

Security Status

Displays whether the security setting on the network switch is "Active", "Inactive", or "Unknown".

Registered Devices

Displays a list of devices (registered on the network switch) that are subject to RADIUS security.

③ [SETTING]

SETTING
VIEW

Item**Description**[VIEW](#)

Displays the [ADECIA Simplified Radius Security Service Configuration] screen, where RADIUS security settings can be specified.

④ [ADECIA Simplified Radius Security Service Configuration] screen

Specify in the list the devices that are subject to the Simplified Radius Security Service Configuration feature, register them with the network switch ([REGISTER TO NETWORK SWITCH]), and then click the [ACTIVATE SECURITY] button. The devices that can be specified are ADECIA devices, network switches compatible with ADECIA, and devices for which device information has been manually registered.

YAMAHA Plugin Settings

ADECIA Simplified Radius Security Service Configuration

Configure network security settings.

SERVICE SETTINGS **RUNNING**

START **STOP**

REGISTRATION DEVICE SETTINGS

List MAC addresses of devices that are allowed to connect to the network and register them to the switch.

NOTE: The SEARCH button automatically adds ADECIA devices and compatible YAMAHA switches to the list of registered devices. Previously registered devices remain on the list. Other user devices need to be added to the list manually.

NOTE: While the security service is ACTIVE, some devices may not be automatically discovered. Deactivate security before starting a search.

SEARCH **ADD MANUALLY**

Hostname	Model	MAC Address	IP Address	Action
Y001-Yamaha-RM-CR-123457	RM-CR/Device	F4:D5:80:12:34:57	169.254.178.1	REMOVE
Y001-Yamaha-RM-CR-6EF9EB	RM-CR/Dante	AC:44:F2:6E:F9:EB	169.254.70.204	REMOVE
Y002-Yamaha-RM-TT-A28918	RM-TT/Device	AC:44:F2:A2:89:18	169.254.31.107	REMOVE
~~~~~				
SWR2311P	SWR2311P-10G	F4:D5:80:13:ED:48	169.254.29.41	<b>REMOVE</b>
D0089593	Unknown	7C:10:C9:4F:6B:9A	-	<b>REMOVE</b>

Number of registered devices (Total number of devices: 8)

- RM-CR: 1 units (Registered MAC address: 2 units)
- Peripheral model incl. Dante: 3 units (Registered MAC address: 5 units)
- Peripheral model: 2 units (Registered MAC address: 2 units)
- Supported network switch: 1 units (Registered MAC address: 1 units)
- User devices: 1 units (Registered MAC address: 1 units)

NOTE: All network switches must be added to the list of registered devices to work properly.

NOTE: When security is activated, registration to the switch is not possible. Please deactivate the security service before registration.

**REGISTER TO NETWORK SWITCH**

**ACTIVATION SETTINGS**

**ACTIVATE SECURITY** **DEACTIVATE**

Item

Description

<b>START</b>	Select whether to use the Simplified Radius Security Service Configuration feature. Click the [START] button to discover devices on the network.
<b>STOP</b>	
<b>SEARCH</b>	The ADECIA devices on the network, compatible network switches, and registered device information are displayed in the list. If RADIUS security has been registered with the network switch, the managed device information will be retrieved from the network switch and displayed in the list. The number of registered devices is displayed below the list.
<b>ADD MANUALLY</b>	Click to display a screen for manual registration. Devices that are not displayed in the list after the [SEARCH] button has been clicked can be added to the managed list, by typing in the [Hostname] and [MAC Address] fields, then clicking the [ADD] button in the screen. For the MAC Address, type a hexadecimal number without colons or hyphens.
<b>Hostname</b>	Displays the hostname of the device.
<b>Mode</b>	Displays the model name of the device.
<b>MAC Address</b>	Displays the MAC address of the device.
<b>IP Address</b>	Displays the IP address of the device.
<b>Action</b>	<b>REMOVE</b> Click to remove the corresponding device from the list.
<b>REGISTER TO NETWORK SWITCH</b>	Click to register with the network switch the devices displayed in the list.
<b>ACTIVATE SECURITY</b>	Click to activate on registered devices the RADIUS security feature of the network switch.
<b>DEACTIVATE</b>	Click to deactivate the RADIUS security feature of the network switch.

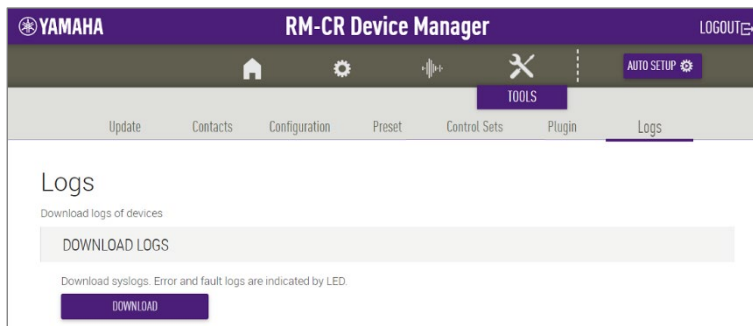
### **Note**

- Devices connected to the RM-CR corporate port are not subject to RADIUS security. Since one device may be displayed in the list as multiple devices (MAC addresses), be sure to register all relevant devices.
- For security to work properly, all network switches must be included in the list.
- When using this feature, do not specify manual configuration on the [SETTINGS] > [Network] > [IEEE802.1X SETTINGS] screen.
- Once the [ACTIVATE SECURITY] button has been clicked and RADIUS security has been activated, the [REGISTER TO NETWORK SWITCH] button will no longer be available. To change the device configuration, click the [DEACTIVATE] button, change the configuration of the list, and then click the [ACTIVATE SECURITY] button.
- When connecting a computer (for configuring RADIUS security) to a network switch, the computer itself must also be subject to RADIUS security. To change settings from a computer that is not registered with RADIUS security, use the Web GUI on a computer connected to the USB port on the front of RM-CR.
- This feature assumes that the network switch will be used and configured from its initial state. If a problem with device management occurs, such as devices not being displayed as expected, initialize the network switch, and then configure it again using this plug-in. However, note that initializing will erase the previous settings.
- For details on initializing or on updating the firmware of the network switch, refer to the RM-CR Reference Manual.

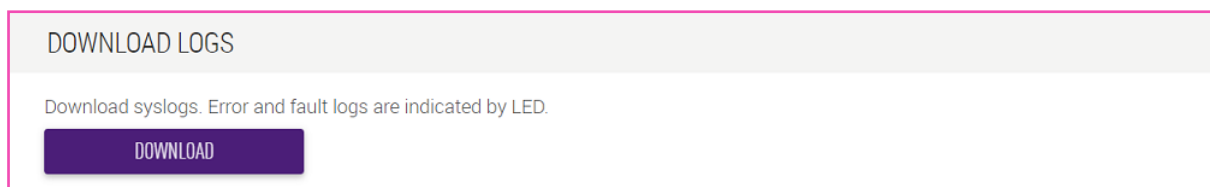
## [Logs]

In the [Logs] screen, you can download logs.

Applicable Device Manager: RM-CR, RM-CG, RM-TT



### ① [DOWNLOAD LOGS]



#### Item

DOWNLOAD

#### Description

Click to download the logs.  
Logs record errors, warnings and actions.

For explanations on alert logs and recommended solutions, refer to "Alert log list" in the Reference Manual.

# Operating procedures

## Saving a preset (external server)

Follow the steps below to save as a preset the settings (stored on an external server) for this unit and for peripheral devices.

[TOOLS] > [Preset]

The screenshot shows the Yamaha RM-CR Device Manager web interface. The top navigation bar includes 'YAMAHA', 'RM-CR Device Manager', and 'LOGOUT'. Below the navigation bar, there are icons for Home, Settings, and a menu. The 'TOOLS' menu is expanded, showing options: Update, Contacts, Configuration, Preset (selected), Control Sets, Plugin, and Logs. The main content area is titled 'Configuration Presets' and includes a brief description: 'Preset allows storing different configuration files which can be easily recalled. Presets can be used to recall configurations for the RM-CR and peripheral devices at once.' Below this is a section for 'CONFIGURED PRESETS' with instructions: 'Up to 10 presets can be configured. To create a preset, click "Settings". Selecting "Remove" will remove that preset. To activate a preset, click "Recall".' A table lists the configured presets:

Number	Name	Source	Action
0	-	Deployment Server Setting	RECALL
1	Small (Room1)	Internal	RECALL SETTINGS REMOVE
2	Large (Room1 & Room2)	Internal	RECALL SETTINGS REMOVE
3	-	Undefined	RECALL SETTINGS REMOVE
4	-	Undefined	RECALL SETTINGS REMOVE
5	Meeting #A	External	RECALL SETTINGS REMOVE
6	-	Undefined	RECALL SETTINGS REMOVE
7	-	Undefined	RECALL SETTINGS REMOVE
8	-	Undefined	RECALL SETTINGS REMOVE
9	-	Undefined	RECALL SETTINGS REMOVE
10	-	Undefined	RECALL SETTINGS REMOVE

### 1. Display the settings.

In the [CONFIGURED PRESETS] section, click the [SETTINGS] button for a preset number with "Undefined" displayed below "Source". The [PRESET CONFIGURATION] section appears.

The screenshot shows the 'PRESET CONFIGURATION' form. It includes the following fields and controls:

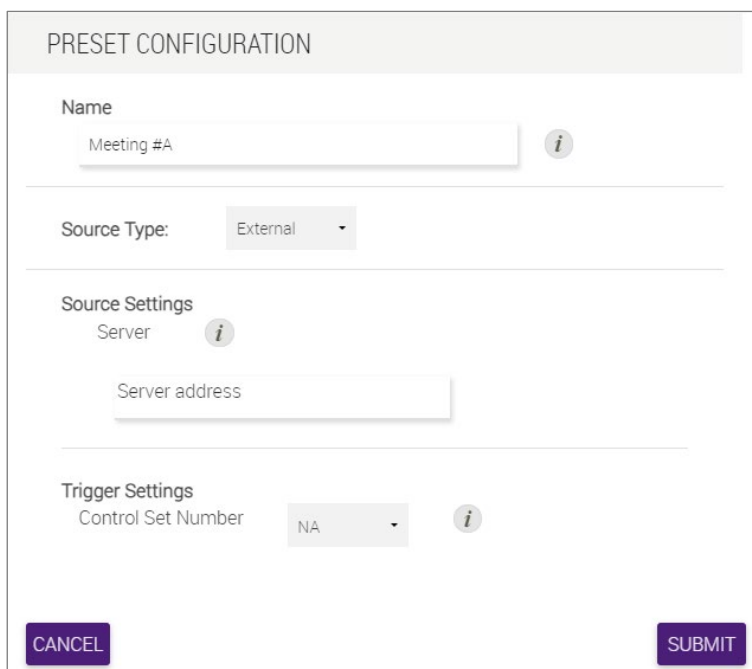
- Name:** A text input field with an information icon (i) to its right.
- Source Type:** A dropdown menu currently set to 'Undefined'.
- Trigger Settings:** A section containing a 'Control Set Number' dropdown menu set to 'NA' and an information icon (i).
- Buttons:** 'CANCEL' and 'SUBMIT' buttons at the bottom.

## 2. Type in the [Name] field.

Give the preset a name to help you identify it.

## 3. Select from [Source Type].

To use an external server, select [External]. The parameters for [External] appear.



The screenshot shows a 'PRESET CONFIGURATION' dialog box with the following fields and options:

- Name:** A text input field containing 'Meeting #A' with an information icon (i) to its right.
- Source Type:** A dropdown menu currently set to 'External'.
- Source Settings:** A section header with a sub-label 'Server' and an information icon (i). Below it is a text input field for 'Server address'.
- Trigger Settings:** A section header with a sub-label 'Control Set Number' and a dropdown menu set to 'NA', with an information icon (i) to its right.
- Buttons:** 'CANCEL' and 'SUBMIT' buttons are located at the bottom left and right respectively.

## 4. Type in the [Source Settings] field.

In the [Server address] field, specify the address of the external server where the configuration file is located.

## 5. Select from [Trigger Settings].

To link a Control Set, select the Control Set number.

## 6. Click the [SUBMIT] button to register the settings.

Registration is finished when the specified information appears below "Name" and "Source" in the [CONFIGURED PRESETS] section.

## Saving a preset (internal storage)

Follow the steps below to save the settings for this unit and for peripheral devices as a preset in the internal storage of RM-CR.

[TOOLS] > [Preset]

**YAMAHA RM-CR Device Manager** LOGOUT

Update Contacts Configuration **Preset** Control Sets Plugin Logs

### Configuration Presets

Preset allows storing different configuration files which can be easily recalled.  
Presets can be used to recall configurations for the RM-CR and peripheral devices at once.

**CONFIGURED PRESETS**

Up to 10 presets can be configured.  
To create a preset, click "Settings". Selecting "Remove" will remove that preset. To activate a preset, click "Recall".

Number	Name	Source	Action
0	-	Deployment Server Setting	RECALL
1	Small (Room1)	Internal	RECALL SETTINGS REMOVE
2	Large (Room1 & Room2)	Internal	RECALL SETTINGS REMOVE
3	-	Undefined	RECALL SETTINGS REMOVE
4	-	Undefined	RECALL SETTINGS REMOVE
5	Meeting #A	External	RECALL SETTINGS REMOVE
6	-	Undefined	RECALL SETTINGS REMOVE
7	-	Undefined	RECALL SETTINGS REMOVE
8	-	Undefined	RECALL SETTINGS REMOVE
9	-	Undefined	RECALL SETTINGS REMOVE
10	-	Undefined	RECALL SETTINGS REMOVE

### 1. Display the settings.

In the [CONFIGURED PRESETS] section, click the [SETTINGS] button for a preset number with "Undefined" displayed below "Source". The [PRESET CONFIGURATION] section appears.

**PRESET CONFIGURATION**

Name

Source Type: Undefined

Trigger Settings  
Control Set Number NA

**CANCEL** **SUBMIT**

## 2. Type in the [Name] field.

Give the preset a name to help you identify it.

## 3. Select from [Source Type].

To use the internal storage of RM-CR, select [Internal]. The parameters for [Internal] appear.

PRESET CONFIGURATION

Name  
Small (Room1) *i*

Source Type: Internal ▾

Source Settings  
Internal Storage *i*  
No file stored.

STORE CURRENT CONFIGURATIONS

Drag and drop configuration files IMPORT

Trigger Settings  
Control Set Number NA ▾ *i*

CANCEL SUBMIT

## 4. Type in the [Source Settings] field.

When using internal storage, there are two ways to import settings.

### 4.1. To import current settings

Click the [STORE CURRENT CONFIGURATIONS] button.

### 4.2. To import a configuration file

Specify the configuration file with [Drag and drop configuration files].

With one configuration file, specify the XML file.

With multiple configuration files, specify the XML files as one ZIP file.

Click the [IMPORT] button.



Once the settings have been imported, the following section appears.

**PRESET CONFIGURATION**

---

**Name**  
 i

---

**Source Type:** Internal v

---

**Source Settings**  
 Internal Storage i  
 13 files stored.  
EXPORT REMOVE  

Drag and drop configuration files

IMPORT

---

**Trigger Settings**  
 Control Set Number 1 v i

CANCEL
SUBMIT

## 5. Select from [Trigger Settings].

To link a Control Set, select the Control Set number.

## 6. Click the [SUBMIT] button to register the settings.

Registration is finished when the specified information appears below "Name" and "Source" in the [CONFIGURED PRESETS] section.

