



CEILING MICROPHONE

# RM-CG

Reference Manual

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## INTRODUCTION

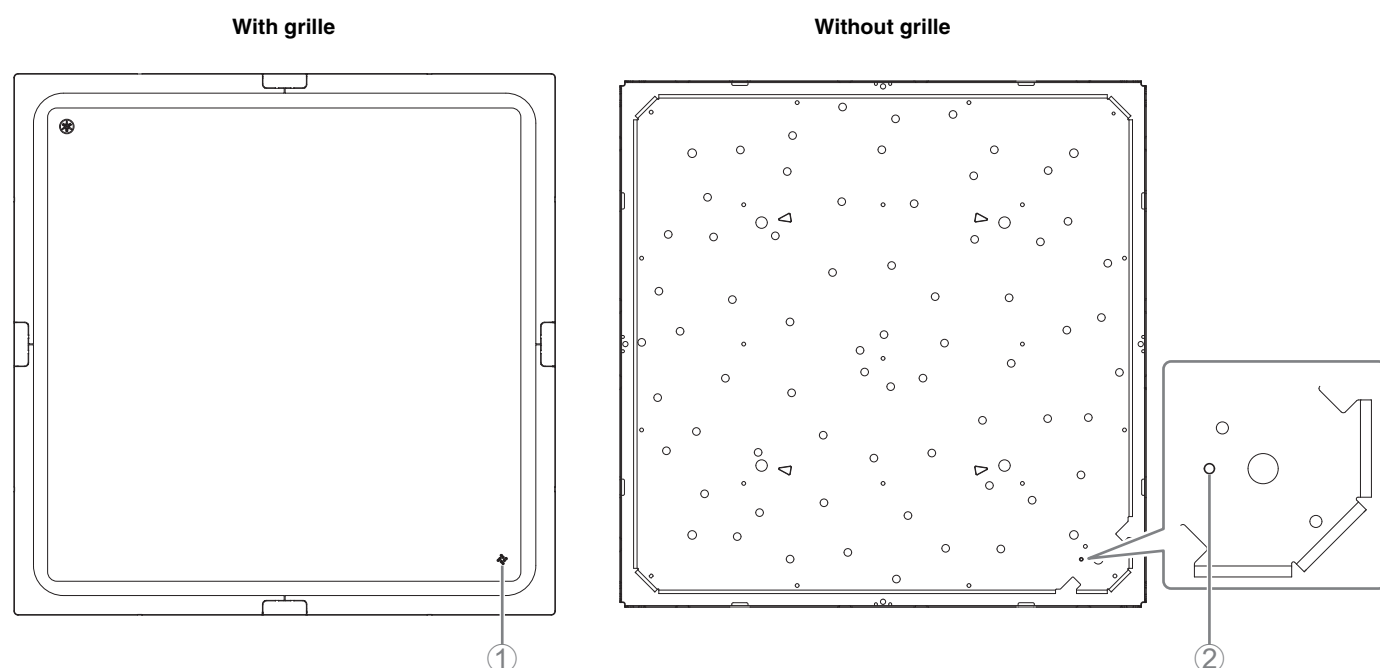
Thank you for purchasing the Yamaha RM-CG ceiling microphone. This document provides detailed information on the product functions and specifications as well as the Web GUI. For correct and safe use of this product, be sure to first read this manual carefully together with the RM-CG Installation Manual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

### Notice

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

# CONTROLS AND FUNCTIONS

## Front panel



### ① Front panel indicator

Condition	Front panel indicator	Unit status
LAN cable plugged into Dante/PoE port	Lit green	Operating
LAN cable plugged into Dante/PoE port	Flashes green	Starting up
Identify button in Web GUI clicked	Flashes white	Responding (to Identify function)
Updating firmware	Flashes white quickly	Firmware being updated
Muted	Lit red (Flashes every 2 seconds)	Audio muted
—	Flashes red	Error occurring
—	Flashes red quickly	Severe error occurring

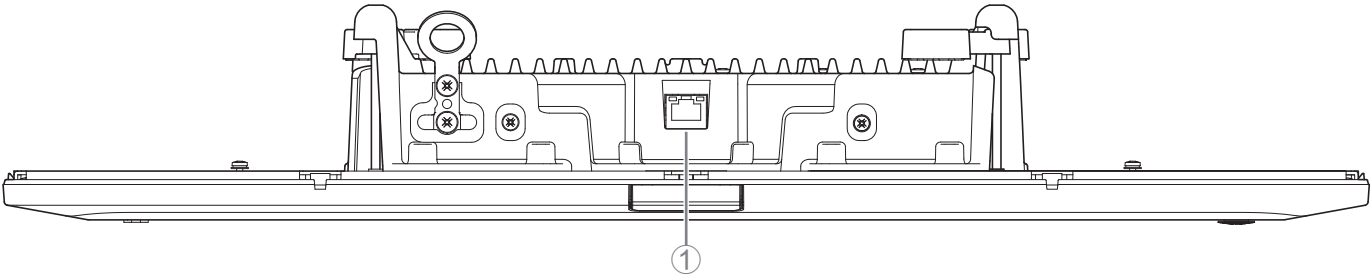
**NOTE** : Occurrences of errors and severe errors are recorded in the alert log. For details, refer to page 19.

### ② Reset button

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

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

Side panel



① Network port indicators (Dante/PoE port)

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

# WEB GUI

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

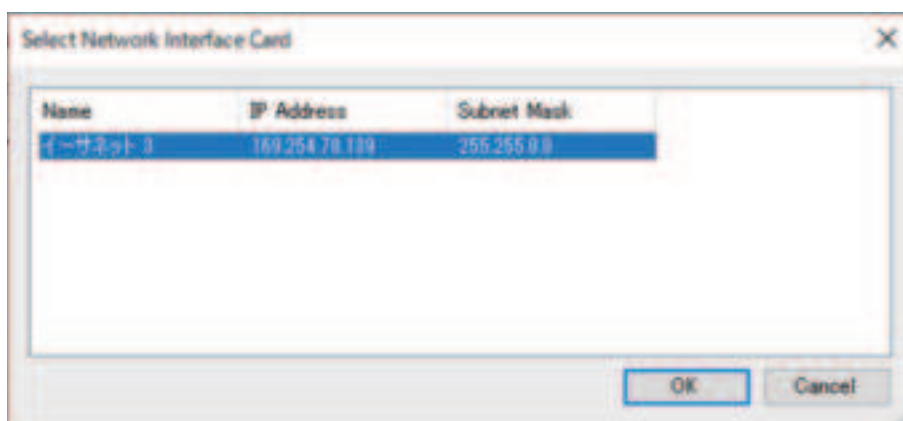
**IMPORTANT:** Check/change the settings after the installation of this unit is completed. For details on installing this unit, refer to the RM-CG Installation Manual.

## Starting RM-CG Device Manager

Prepare the following.

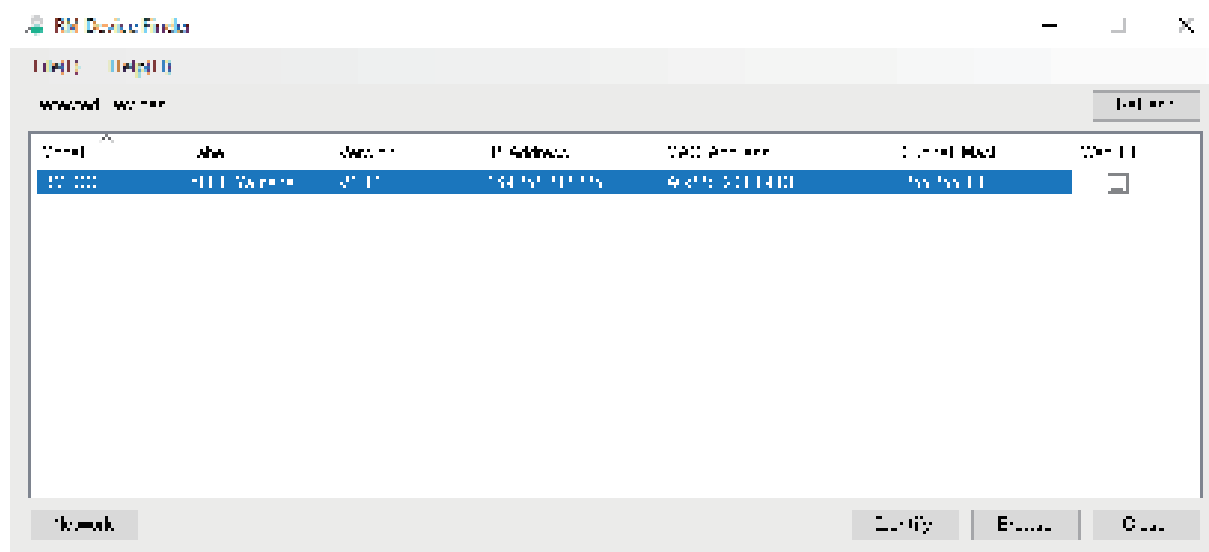
- Computer
- LAN cable

- 1.** Connect the computer to the network switch (where this unit is connected) with a LAN cable.
- 2.** Download the application “RM Device Finder” from the Yamaha website (U.S.A. and Canada: <https://uc.yamaha.com/support/>, Other countries: <https://download.yamaha.com/>), and then start it.
- 3.** Select a network in the [Select Network Interface Card] window, and then click [OK].



- 4.** Select this unit in the [Detected Device] window, and then click [Browse].

The first login window of RM-CG Device Manager appears.

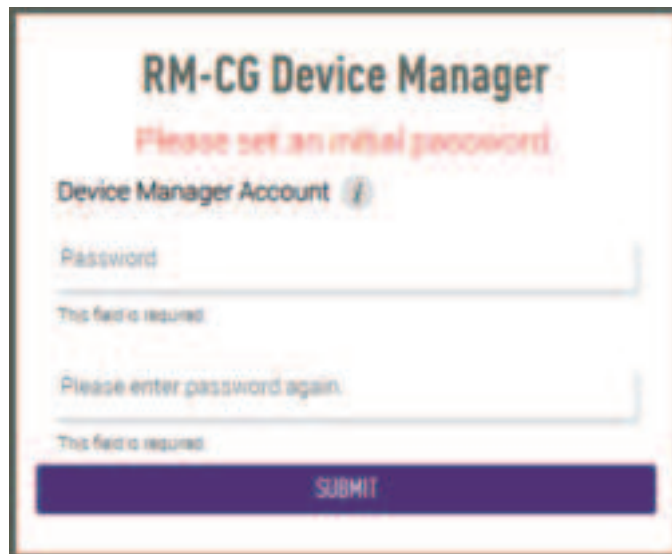


**5.** Click the [SIGN UP] button in the first login window.



The image shows a web interface titled "RM-CG Device Manager". Below the title, there is a "LOGIN:" label. Underneath, there is a red rectangular input field with the placeholder text "Please create password". Below this field is a purple button labeled "SIGN UP".

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



The image shows a web interface titled "RM-CG Device Manager". Below the title, there is a red text prompt: "Please set an initial password". Underneath, there is a label "Device Manager Account" followed by a small icon. Below this, there are two password input fields. The first field is labeled "Password" and has a red error message "This field is required." below it. The second field is labeled "Please enter password again." and also has a red error message "This field is required." below it. At the bottom of the form is a purple button labeled "SUBMIT".

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

The [HOME] window appears.



The image shows a web interface titled "RM-CG Device Manager". Below the title, there is a "LOGIN:" label. Underneath, there is a "Password" input field. Below the password field, there is a checkbox labeled "Stay logged in". To the right of the checkbox is a purple button labeled "LOGIN".

This completes the startup.

# Structure of RM-CG Device Manager

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

[HOME]	[SYSTEM STATUS]	Page 8
	[LED INDICATION STATUS]	Page 8
[SETTINGS]	[Admin]	
	[PASSWORD SETTINGS]	Page 9
	[SECURITY SETTINGS]	Page 9
	[DEPLOYMENT SERVER SETTINGS]	Page 9
	[SYSLOG SETTINGS]	Page 9
	[FRONT PANEL LED SETTINGS]	Page 9
	[Network]	
	[IP ADDRESS SETTINGS]	Page 11
	[HOST NAME SETTINGS]	Page 11
	[Region]	
	[SYSTEM SETTINGS]	Page 12
	[TIME SETTINGS]	Page 12
	[DAYLIGHT SAVING SETTINGS]	Page 12
[AUDIO]	[Processing]	
	[MICROPHONE SETTINGS]	Page 13
	[DIGITAL SIGNAL PROCESSING SETTINGS]	Page 14
	[Dante]	
	[INPUT STATUS]	Page 15
	[OUTPUT STATUS]	Page 15
[TOOLS]	[Update]	
	[DEVICE STATUS]	Page 16
	[FIRMWARE UPDATE]	Page 16
	[Configuration]	
	[EXPORT CONFIGURATION]	Page 17
	[IMPORT CONFIGURATION]	Page 17
	[RESET DEFAULTS]	Page 17
	[Logs]	
	[DOWNLOAD LOGS]	Page 18

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

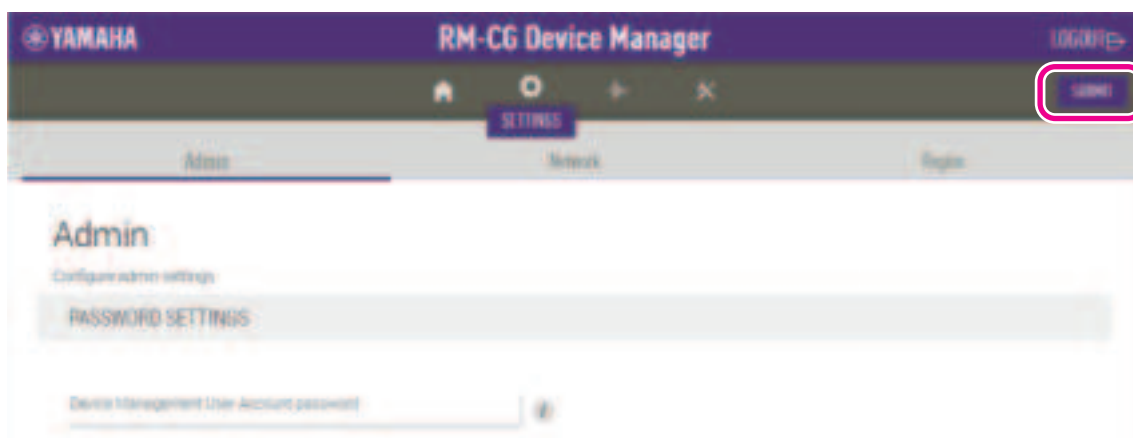


(Information icon): Move the pointer over this icon to see more information about the item.



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

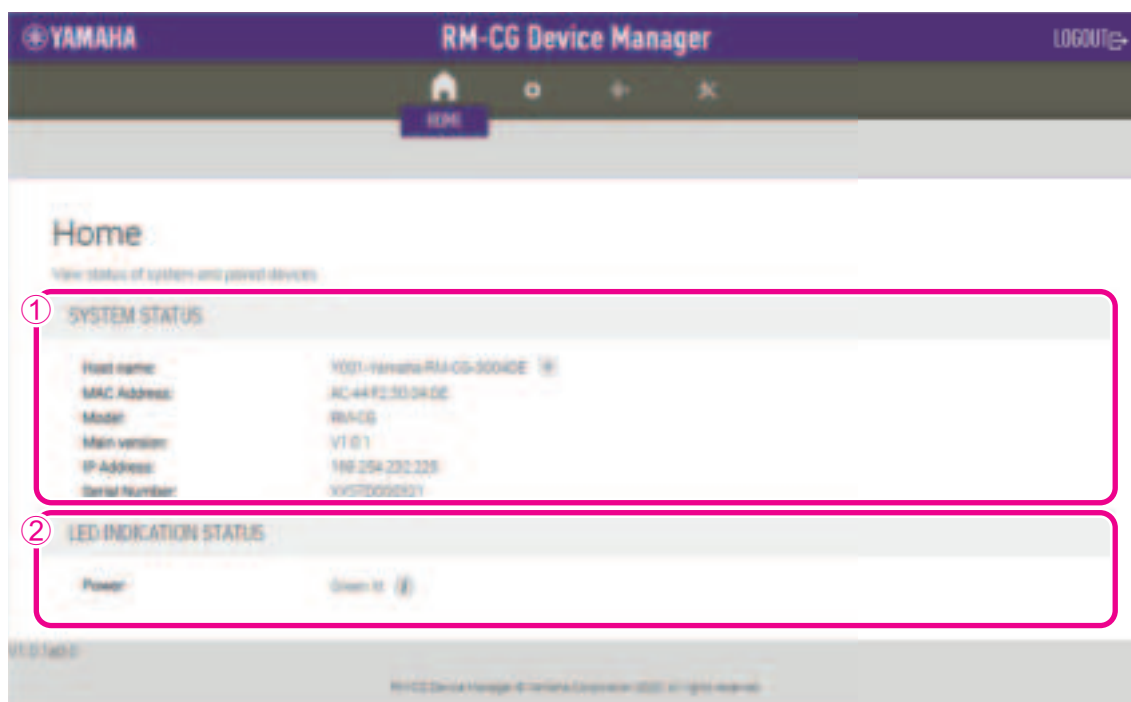
**IMPORTANT:** Be sure to click the [SUBMIT] button after changing settings in RM-CG Device Manager. The [SUBMIT] button always appears in the upper-right corner of the window.



## Functions of RM-CG Device Manager

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### [HOME]



#### ① [SYSTEM STATUS]

Allows you to check basic information on this unit.

#### ② [LED INDICATION STATUS]

Allows you to check the status of the front panel indicator.



[SETTINGS]

[Admin]

YAMAHA

RM-CG Device Manager

LOGOUT

SETTINGS

Admin

Network

Region

Admin

Configure admin settings

1

PASSWORD SETTINGS

Device Management User Account password

2

SECURITY SETTINGS

☐ Enable SCP remote control access

3

DEPLOYMENT SERVER SETTINGS

☒ Enable deployment server

☒ Enable automatic server discovery

Provisioning interval (minutes)

1440

4

SYSLOG SETTINGS

☒ Enable syslog

Server address

0.0.0.0

Port number

514

5

FRONT PANEL LED SETTINGS

Color

blue

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① **[PASSWORD SETTINGS]**

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

② **[SECURITY SETTINGS]**

③ **[DEPLOYMENT SERVER SETTINGS]**

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

④ **[SYSLOG SETTINGS]**

Allows you to select whether to use a syslog server.

⑤ **[FRONT PANEL LED SETTINGS]**

Allows you to check/adjust the brightness of the front panel indicator.

## [Network]

**YAMAHA** **RM-CG Device Manager** [LOGOUT](#)

**SETTINGS**

Admin **Network** Region

### Network

Configure network settings

**1 IP ADDRESS SETTINGS**

☒ Enable DHCP ⓘ

IP Address  
192.168.1.1 ⓘ

Subnet mask  
255.255.255.0 ⓘ

Default gateway  
192.168.1.1 ⓘ

Primary DNS  
192.168.1.1 ⓘ

Secondary DNS  
192.168.1.1 ⓘ

**2 HOST NAME SETTINGS**

Mode  
Specify host name manually ⓘ

Unit ID  
1 ⓘ

Host name  
192.168.1.1 ⓘ

V7.31 (2020)

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### ① [IP ADDRESS SETTINGS]

Allows you to select whether to use DHCP.

### ② [HOST NAME SETTINGS]

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

## [Region]

### ① [SYSTEM SETTINGS]

Allows you to specify the time zone.

### ② [TIME SETTINGS]

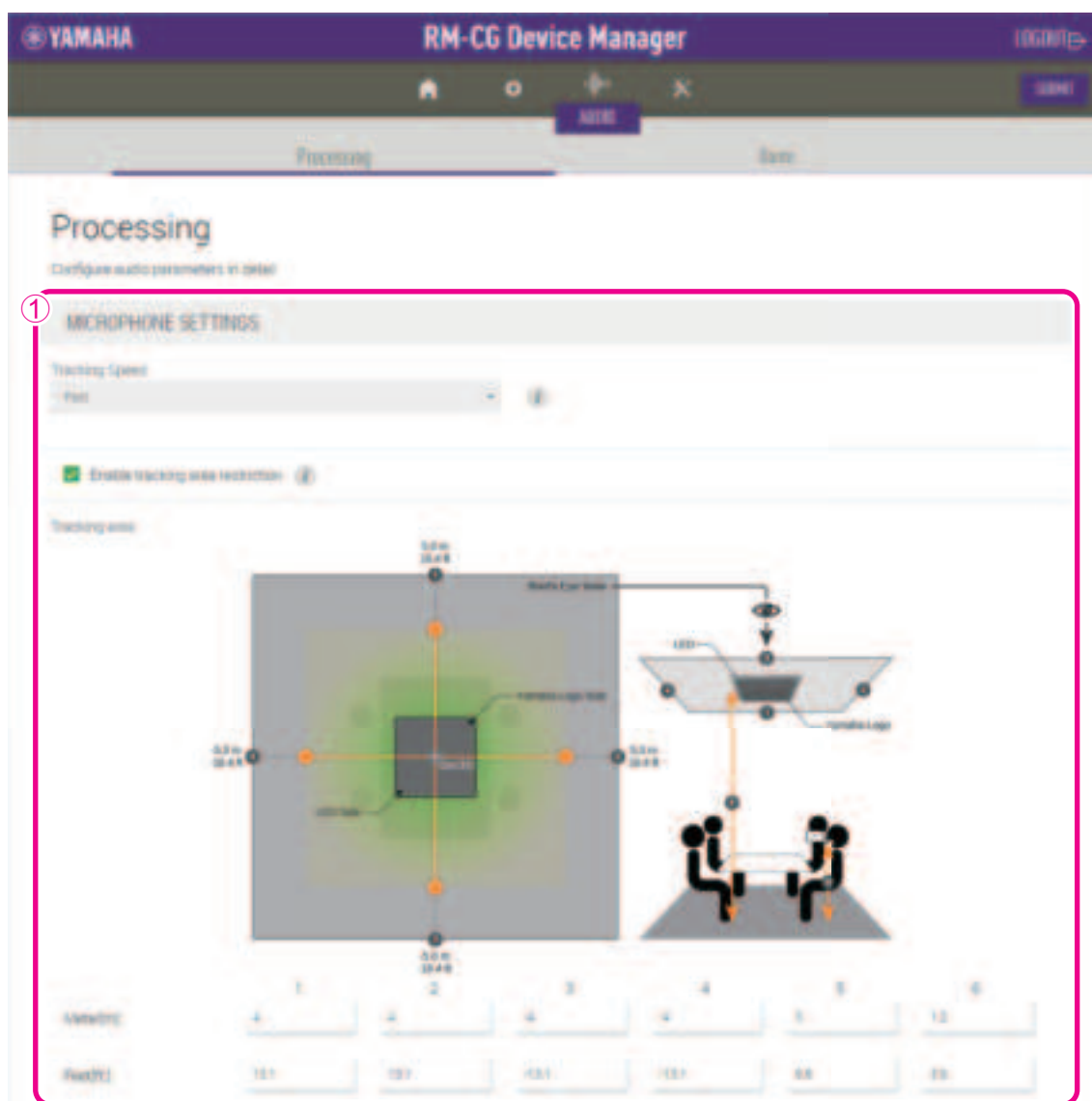
Allows you to select whether to use NTP.

### ③ [DAYLIGHT SAVING SETTINGS]

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

[AUDIO]

[Processing]



① [MICROPHONE SETTINGS]

Allows you to select the tracking speed. Also allows you to specify the tracking area.

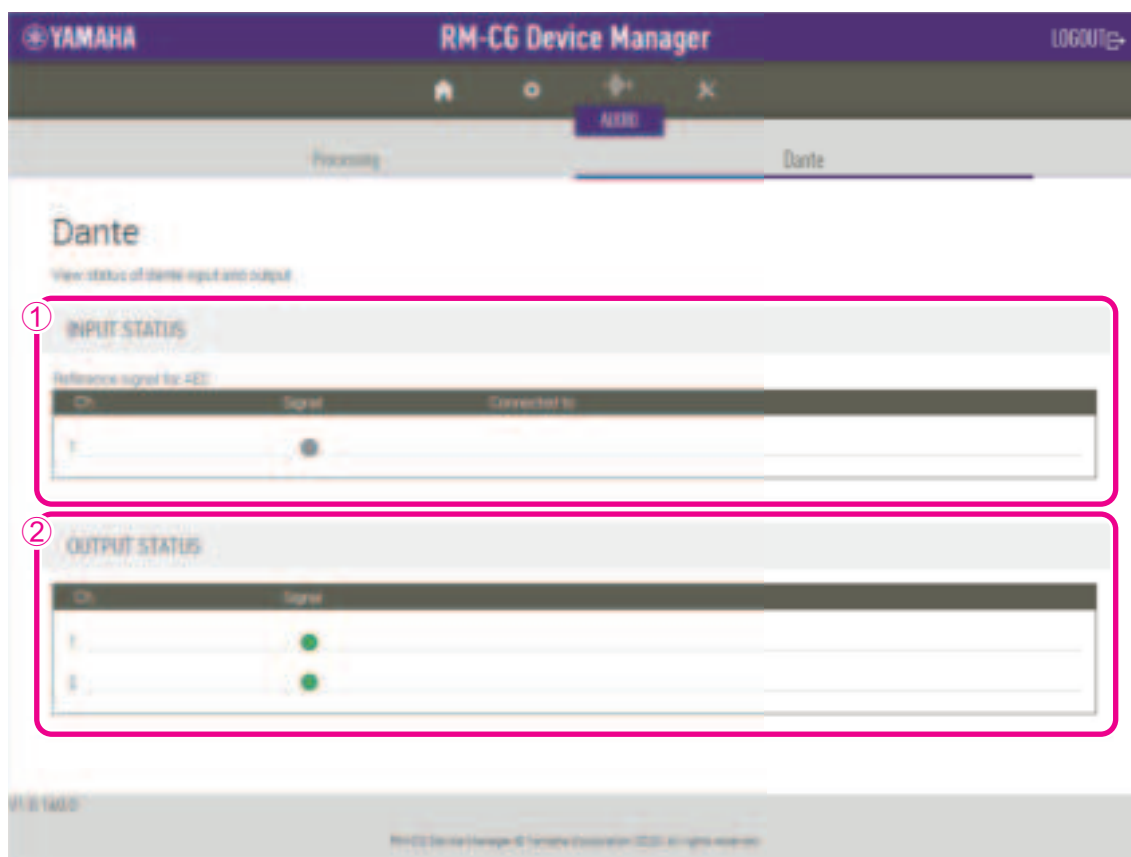


## ② [DIGITAL SIGNAL PROCESSING SETTINGS]

Allows you to check/change settings for the following.

- Input gain
- Adaptive echo canceller
- Noise reduction
- Dereverberation
- Auto mixing
- Auto gain control (type and speed)

## [Dante]



### ① [INPUT STATUS]

Allows you to check the Dante input status for each connected device.

### ② [OUTPUT STATUS]

Allows you to check the Dante output status for each connected device.

## [TOOLS]

### [Update]

**YAMAHA** **RM-CG Device Manager** [LOGOUT](#)

[Update](#) [Configuration](#) [Logs](#)

### Update

Update firmware

① **DEVICE STATUS**

Host Name	YD01-Yamaha-RM-CG-3004DE
Model	RM-CG
IP Address (Main / Dante)	169.254.233.225 / 169.254.99.1
Version (Main / Dante)	V1.0.1 / 4.02.03.00
Updatability	Ready

NOTE: To update Dante firmware, Dante address needs to have the same network address as Main.

② **FIRMWARE UPDATE**

Drag and drop or click here to select a file

**EXECUTE**

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#### ① [DEVICE STATUS]

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

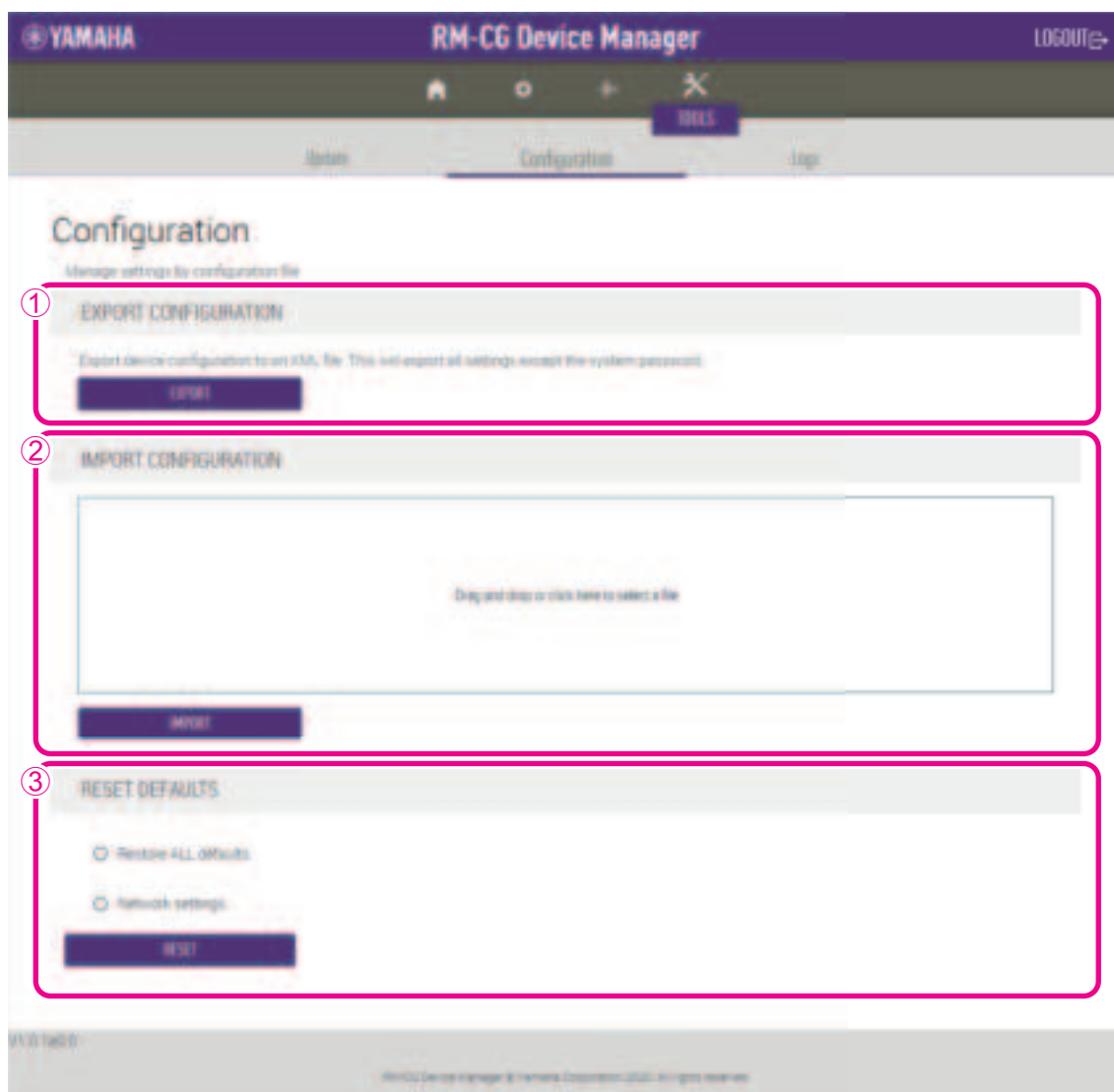
**IMPORTANT:** In order to update Dante, the IP address of this unit and the network portion of Dante's IP address must be the same.

#### ② [FIRMWARE UPDATE]

Allows you to update the firmware and Dante collectively or individually by dragging and dropping the update file(s) into the box, then clicking the [EXECUTE] button.



## [Configuration]



### ① [EXPORT CONFIGURATION]

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

### ② [IMPORT CONFIGURATION]

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

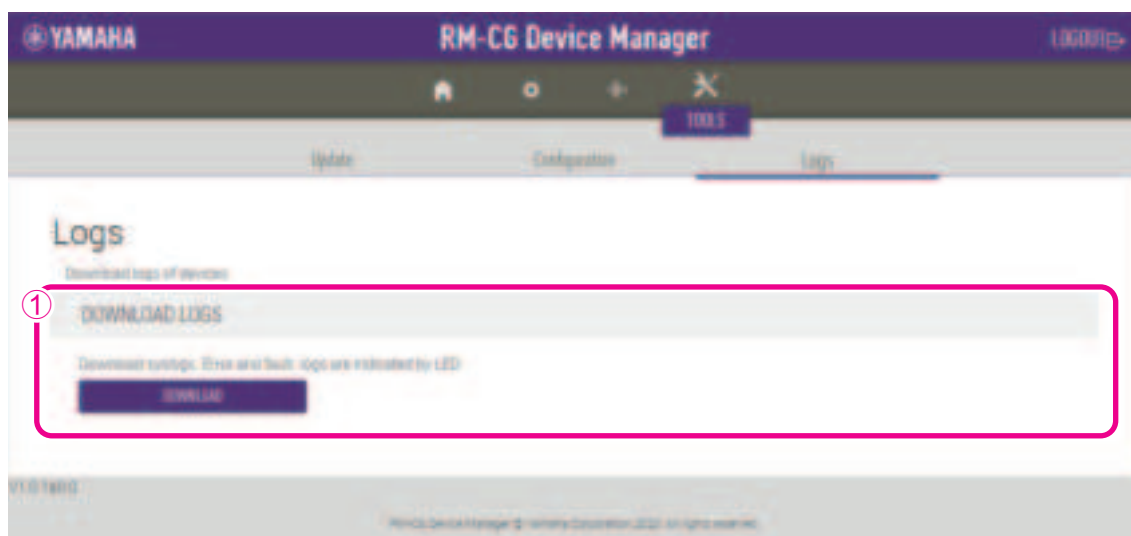
**NOTE** : Create the settings file to be imported by editing the one exported in ①.

### ③ [RESET DEFAULTS]

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

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

## [Logs]



### ① [DOWNLOAD LOGS]

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

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

## Alert log list

Display	Description	What to do
important mic CH* broken	Important mic CH* broken.	Please contact your Yamaha dealer.
Dante hardware error	Dante has not started up correctly.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please initialize the memory. Should this also fails, contact your Yamaha dealer.
Firmware update failed, because of *	Failure of firmware update has occurred.	Check firmware file on the firmware update pages of Web GUI.
Firmware update failed, because of internal error		Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please contact your Yamaha dealer.
Web UI internal failure	Internal failure has occurred in Web GUI.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please initialize settings. Should this also fails, contact your Yamaha dealer.
failed to start audio proc	The device audio has not started up correctly.	Turn the power off, then turn on after waiting at least six seconds. If this does not solve the problem, please initialize the memory. Should this also fails, contact your Yamaha dealer.
System error	The device has not started up correctly.	
Power unstable	The device is not supplying power normally.	Connect to a PoE+ compatible switch. If this does not solve the problem, please turn the power off, then turn on after waiting at least six seconds. Should this also fail, contact your Yamaha dealer.
Syslog setting error	Failed to update syslog transfer servers.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please initialize settings.
logging error	Failed to restart logging.	
Automatic audio tuning failed, because of internal error.	Automatic audio tuning has failed, because internal error has occurred.	Turn the power off, then turn the power on after waiting at least six seconds. Please try again. If this does not solve the problem, contact your Yamaha dealer.
Dante started in fail safe mode	Dante has started in failsafe mode.	Execute Failsafe Recovery using Audinate's firmware update tool.
Unable to configure Dante, because the Dante device is locked.	Dante is currently limited to control settings, because the device is locked.	Unlock device lock using Dante Controller or check Dante Domain Manager settings.
Resume data lost	The settings saved in internal memory has been lost.	Initialize the memory. If this dose not solve the problem, contact your Yamaha dealer.
Saving setting data failed	The device has not started up correctly.	Turn the power off, then turn the power on after waiting at least six seconds. If this does not solve the problem, please initialize the memory. Contact your Yamaha dealer if problem still exists.
CPU temperature too high	CPU temperature has been too high.	Turn the power off, let the CPU cool down. Turn the power on again. If the temperature is still too high, check the installation environment and whether dirt or a foreign object could have clogged the cooling fan, and clean the fan if necessary.

Display	Description	What to do
Too many devices on the network	Too many devices are connected to the network.	Reduce the number of devices connected to the network.
Configuration import failed, because of file download failure (*)	Configuration import has failed, because of file download failure.	Check network, server address settings, existence of configuration file at server.
Configuration import failed, because of file format error (*)	Configuration import has failed, because of file format error.	Check contents and format of configuration file.
Configuration import transfer failed, because of wrong filename or peripheral disconnected (*)	Configuration import transfer has failed, because of wrong filename or peripheral disconnected.	Check file name and connection status of peripheral device.
Configuration import failed, because the system is busy (*)	Configuration import has failed, because of system busy.	Check device status and try again. If it is still not working, please update firmware or reset all of the settings.
Configuration import failed, because of internal error (*)	Configuration import has failed, because of internal error.	Try again. If its not working again, please update firmware or reset all of settings.
Schedule data lost	The schedule data saved in internal memory has been lost.	If this occurs often, contact your Yamaha dealer.
Peripheral communication error	A peripheral device within the system was not found on the network.	Power-on all peripheral devices in the system, and make sure that they are correctly connected to the network.
Factory reset failed	Factory reset has failed.	-
* reset failed	Partial reset has failed.	
Web UI login failure by *	Web GUI login failure has occurred by (IP address).	Check password.
Scheduling event failed, because of *	Scheduling event has failed.	Check the number of scheduled events.
Audio processing restarted	Audio processing failure has occurred, then restarted.	If this occurs often, contact your Yamaha dealer.