



## R Remote Version V7.0 User's Guide

Thank you for choosing a Yamaha product. This user's guide explains setup, firmware update and use of "R Remote," a Windows/Mac application that lets you make parameter settings for the following models.

### R Remote V7.0 Supported Models

|            |                                                                                                                                                        |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| R Series   | Rio3224-D3, Rio1608-D3,<br>Rio3224-D2, Rio1608-D2,<br>Rio3224-D, Rio1608-D, RSio64-D, RMio64-D, Ri8-D, Ro8-D,<br>RUio1608SB-D, RUio0804-D, RUio16FLX-D |
| Tio models | Tio1608-D2, Tio1608-D                                                                                                                                  |

This application lets you edit the parameters of up to twenty-four devices from a single computer. Even if the device is not connected, you can mount it virtually and edit its settings beforehand.

Up to two computers in which R Remote is installed can be connected to a single device. This means, for example, that the main operator could operate a console such as the CL while two assistants make detailed adjustments at the other locations.



### NOTICE

- Yamaha Corporation owns exclusive copyrights for R Remote, the firmware for each device, and the user's guide.
- It is prohibited to duplicate or modify the firmware, software or manuals, in part or in their entirety, without permission from the copyright owner.
- The illustrations and screens as shown in this User's Guide are for instructional purposes, and may appear somewhat different from the screens which appear on your computer.
- This guide predominantly uses screenshots of Windows. However, Mac screenshots are used when instructions of the function apply only to the Mac.
- We cannot guarantee operation if a touch-panel is used.
- Dante is a trademark of Audinate.
- Windows is a registered trademark of Microsoft® Corporation in the United States and other countries.
- Mac and macOS are trademarks of Apple Inc., registered in the U.S. and other countries.
- The company names and product names in this document are the trademarks or registered trademarks of their respective companies.
- This product incorporates open source software. For information about the software, refer to the "License Agreement," accessed from the "Legal" button on the "About R Remote" dialog box.
- Software may be revised and updated without prior notice.

# Contents

|                                                        |           |
|--------------------------------------------------------|-----------|
| <b>Introduction</b>                                    | <b>4</b>  |
| System Requirements and Operating Conditions           | 4         |
| Computer System Requirements                           | 4         |
| Supported Models / Supported Versions                  | 4         |
| Conventions Used in This Document                      | 5         |
| <b>Setup</b>                                           | <b>6</b>  |
| Install (or uninstall) R Remote                        | 7         |
| Installing the Software                                | 7         |
| Uninstalling the Software                              | 7         |
| Set on the devices                                     | 8         |
| UNIT ID                                                | 8         |
| IP address                                             | 9         |
| Connection                                             | 11        |
| START UP MODE                                          | 12        |
| Connect the computer and the devices                   | 14        |
| Power-on the devices                                   | 14        |
| Specify the computer's IP address                      | 15        |
| Windows                                                | 15        |
| Mac                                                    | 17        |
| Use Dante Controller or a mixer to specify the routing | 17        |
| <b>Operating R Remote</b>                              | <b>18</b> |
| Menu bar                                               | 18        |
| Areas of the screen                                    | 20        |
| Device Selection Area                                  | 21        |
| Information Display Area                               | 22        |
| Main Area                                              | 23        |
| Edit window (Input)                                    | 33        |
| Edit window (Output)                                   | 35        |
| “Network Setup” dialog box                             | 37        |
| “Device Information” dialog box                        | 38        |
| “IP Address” dialog box                                | 39        |
| Using Static IP (Manual)                               | 39        |
| “Properties” dialog box                                | 40        |
| “Meter” window                                         | 41        |
| 1-column display mode (Meter (1Line))                  | 41        |
| 2-column display mode (Meter (2Line))                  | 42        |
| <b>Updating the Firmware</b>                           | <b>43</b> |

|                                                                                       |           |
|---------------------------------------------------------------------------------------|-----------|
| Precautions                                                                           | 43        |
| Updating – Operation Overview                                                         | 43        |
| Connecting the Computer to the Device                                                 | 44        |
| Network Settings                                                                      | 45        |
| R Remote Firmware Updater                                                             | 45        |
| Update operation                                                                      | 48        |
| Detecting the device                                                                  | 48        |
| In case of failure in updating the firmware                                           | 49        |
| When the device name is shown in red on the network grid view of the Dante Controller | 49        |
| When the device's red indicators light or flash                                       | 49        |
| Messages                                                                              | 52        |
| ■ Error messages                                                                      | 52        |
| ■ Warning Messages                                                                    | 52        |
| ■ Confirmation Messages                                                               | 53        |
| ■ Other Messages                                                                      | 53        |
| <b>Troubleshooting</b>                                                                | <b>54</b> |

# Introduction

## System Requirements and Operating Conditions

This section describes the system requirements and operating conditions for R Remote V7.0.

### Computer System Requirements

|                |                                                                                                                                                                                                                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OS</b>      | Windows 11<br>macOS 13, macOS 14, macOS 15, macOS 26                                                                                                                                                                                                                                                       |
| <b>CPU</b>     | Intel Core i3 or higher, or Apple silicon processor with Rosetta 2 installed                                                                                                                                                                                                                               |
| <b>HDD</b>     | 120MB or more                                                                                                                                                                                                                                                                                              |
| <b>Network</b> | An Ethernet connector (1000BASE-T or higher recommended)<br>Please have the following items ready for connection. <ul style="list-style-type: none"><li>• Ethernet cable (CAT5e or better)</li><li>• Network switch (with gigabit Ethernet support), when connecting devices via a Dante network</li></ul> |

### Supported Models / Supported Versions

Models and firmware versions that support R Remote V7.0 include the following.

With some models or firmware versions, you might need to install Dante Controller or update the firmware to a compatible version. Refer to the “[Updating the Firmware](#)” section on page 43 for information on updating the firmware.

#### R Remote V7.0 Supported Models / Firmware Versions

| Models                                       | Supported Versions | Dante Controller |
|----------------------------------------------|--------------------|------------------|
| Rio3224-D3, Rio1608-D3                       | All versions *1    | -                |
| Rio3224-D2, Rio1608-D2                       | V1.00 or later     | Required         |
| Rio3224-D, Rio1608-D, RMio64-D, Ri8-D, Ro8-D | V3.11 or later *2  | Required         |
| RSio64-D                                     | V3.10 or later     | Required         |
| RUio1608SB-D, RUio0804-D, RUio16FLX-D        | All versions       | -                |
| Tio1608-D2                                   | V2.00 or later     | Required         |
| Tio1608-D                                    | V1.00 or later     | Required         |

- **Updating to the firmware version compatible with R Remote V7.0**

\*1 If the firmware version is V1.03 or earlier, you cannot update it directly to V2.00. First, update the firmware to V1.04 using R Remote V6.0, and then use R Remote V7.0 to update it to V2.00. You cannot update the firmware to V2.00 using R Remote V6.0.

\*2 If the firmware version is V3.10 or earlier, you must first update the firmware to V3.11 using the dedicated updater. The updater is included in a compressed file along with the V3.11 firmware.

You can download the firmware from the website below.

<https://www.yamahaproaudio.com/>

- **Installing Dante Controller**

Models noted as “Required” in the table above require the installation of Dante Controller.

You can download Dante Controller from the Dante Controller download page on the Audinate website.

<https://www.audinate.com/products/software/dante-controller/>

**NOTE**

Keep in mind that the software is often updated and the system requirements are subject to change. You can check the latest version information of each program and its system requirements at the following website.

<https://www.yamahaproaudio.com/>

## Conventions Used in This Document

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### Keyboard Shortcuts

<Windows modifier key> (<Mac modifier key>) + <key> or click shows the shortcut keys. For example, <Ctrl> (<command>) +click means “press <Ctrl> under Windows or <command> under Mac, then click.”

### Right Click

On Mac click while holding down the <control> key.

# Setup

The setup workflow is shown below.

- 1 [Install R Remote](#) (Page 7)



- 2 [Set on the devices](#) (page 8)



- 3 [Connect the computer and the devices](#) (page 14)

**NOTE**

You cannot connect to a device connected from another subnet via DANTE DOMAIN MANAGER.



- 4 [Power-on the devices](#) (Page 14)



- 5 [Specify the computer's IP address](#) (Page 15)



- 6 [Use Dante Controller or a mixer to specify the routing](#) (Page 17)

For details on connections and settings for the devices, refer also to the owner's manual of your devices.

## Install (or uninstall) R Remote

---

You can install or uninstall the software by following the procedures below.

### Installing the Software

1. Log on to Windows or Login to Mac with administrator account.
2. After decompressing the downloaded file, double-click “Install\_R\_Remote.exe” (Windows) or “Install R Remote Vxxx.pkg” (Mac) (xxx is version) in the decompressed file location.

The R Remote setup wizard will appear.

#### **NOTE**

- Under Windows, the “User Account Control” dialog box may appear. Click [Continue] or [Yes].
- If a dialog box appears prompting you to install the “Dante Discovery” and “Dante Control and Monitoring” functions, you will first need to install a compatible version of Dante Controller or another suitable application. For more information, visit the Yamaha Pro Audio website.

3. Proceed with the installation as directed by the instructions in the screen.

### Uninstalling the Software

#### **Windows:**

1. In Control Panel, click [Programs and functions] or [Uninstall a program], then select the item you want to uninstall, and click [Uninstall or change].
2. A dialog box will appear; follow the instructions in the screen to uninstall the software.
3. If the “User Account Control” dialog box appears, click [Continue] or [Yes].

#### **Mac:**

Double-click "Uninstall R Remote.app" which is included in the installer.

## Set on the devices

Configure the following items. The configuration method varies depending on the model.

### Items to configure

- [UNIT ID](#)
- [IP address](#)
- [Connection](#)
- [START UP MODE](#)

### Configuration methods

| Models                                                                                | Main configuration methods                      |
|---------------------------------------------------------------------------------------|-------------------------------------------------|
| Rio3224-D3, Rio1608-D3, Rio3224-D2, Rio1608-D2, RUio1608SB-D, RUio0804-D, RUio16FLX-D | Via the display                                 |
| Rio3224-D, Rio1608-D, RSio64-D, RMio64-D, Ri8-D, Ro8-D, Tio1608-D2, Tio1608-D         | Via the DIP switches, rotary switch, or switch. |

## UNIT ID

The configurable range for the UNIT ID varies depending on the model. Assign a unique ID to each device within the same network.

- Models configured via the display

Set the “UNIT ID” on the SETUP menu.

- Models configured via the DIP switches:

Set the UNIT ID using the [UNIT ID] rotary switch (or non-rotary [UNIT ID] switch), and DIP switches.

Set the DIP switches to the following combinations.

\* If you plan to use the Quick Config switch on the [Tio1608-D2](#) or [Tio1608-D](#), assign the UNIT ID using only the [UNIT ID] switch.

| Settings                      | Switch                                                                                                                                                                                  |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UNIT ID ranging from 0 to F   |  (1 up)<br>   |
| UNIT ID ranging from 10 to 1F |  (1 down)<br> |



## IP address

Specify the IP address that R Remote uses for control.

(The IP address set here is different from the IP address of the Dante network.)

- **Rio3224-D3, Rio1608-D3, Rio3224-D2, Rio1608-D2, RUio1608SB-D, RUio0804-D, RUio16FLX-D:**

| Models                                                           | Menu                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rio3224-D3, Rio1608-D3,<br>RUio1608SB-D, RUio0804-D, RUio16FLX-D | Specify the network port using “NW PORT” in the CONTROL menu.<br>These devices can be controlled by the Dante network and network port addresses.<br>Specify the Dante network IP address from Dante Controller.<br>Specify the network port using “NW PORT” in the CONTROL menu. |
| Rio3224-D2, Rio1608-D2                                           | Set the “NETWORK MODE” in the SETUP menu.                                                                                                                                                                                                                                         |

- **Rio3224-D, Rio1608-D, Ri8-D, Ro8-D, RSio64-D**

The first time that you connect an R series unit to your computer, set this to something other than Static IP (Manual). If you want to use the Static IP (Manual) setting, first specify the IP address on R Remote and then switch to Static IP (Manual).

| Settings                  | Description                                                  | Switch                                                                                                             |
|---------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Auto IP</b>            | The IP address will be automatically set to 169.254.xxx.xxx. |  (2 and 3 up)<br><b>2 3</b>    |
| <b>DHCP</b>               | The IP address assigned by the DHCP server will be used.     |  (2 down, 3 up)<br><b>2 3</b> |
| <b>Static IP (Auto)</b>   | The IP address will be set to 192.168.0.xxx (xxx= UNIT ID).  |  (2 up, 3 down)<br><b>2 3</b> |
| <b>Static IP (Manual)</b> | Set the IP address to the value specified on R Remote        |  (2 and 3 down)<br><b>2 3</b> |

### **NOTE**

- If the network consists only of Dante devices and R Remote, we recommend that you use the Auto IP setting.
- If you are connecting to an existing network, select DHCP as needed.

- **Tio1608-D2, Tio1608-D**

| Settings                    | Description                                                  | Switch                                                                                                             |
|-----------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Auto IP (Link Local)</b> | The IP address will be automatically set to 169.254.xxx.xxx. |  (5 and 6 up)<br><b>5 6</b>   |
| <b>DHCP</b>                 | The IP address assigned by the DHCP server will be used.     |  (5 up, 6 down)<br><b>5 6</b> |
| <b>Static IP (Auto)</b>     | The IP address will be set to 192.168.0.xxx (xxx= UNIT ID).  |  (5 down, 6 up)<br><b>5 6</b> |
| <b>Static IP (Manual)</b>   | Set the IP address to the value specified on R Remote.       |  (5 and 6 down)<br><b>5 6</b> |

- **RMio64-D**

Specify the IP address using R Remote.

The IP address is set by using R Remote since RMio64-D has no DIP switches for setting the IP address. Refer to the “IP Address” dialog box for more information.

Refer to the [“IP Address” dialog box](#) for more information.

## Connection

Specify how the SECONDARY port is connected.

- [Rio3224-D3, Rio1608-D3, Rio3224-D2, Rio1608-D2, RUio1608SB-D, RUio16FLX-D, RUio0804-D](#)

| Models                                                        | Menu                                        |
|---------------------------------------------------------------|---------------------------------------------|
| Rio3224-D3, Rio1608-D3, RUio1608SB-D, RUio0804-D, RUio16FLX-D | Set "SEC. PORT" in the SETUP menu.          |
| Rio3224-D2, Rio1608-D2                                        | Set the "SECONDARY PORT" in the SETUP menu. |

- [Rio3224-D, Rio1608-D, Ri8-D, Ro8-D, Tio1608-D2, Tio1608-D](#)

| Settings    | Switch                                                                                                                                                                          |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DAISY CHAIN |  (4 up)<br>   |
| REDUNDANT   |  (4 down)<br> |

- [RMio64-D](#)

| Settings    | Switch                                                                                                                                                                              |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DAISY CHAIN |  (1 up)<br>   |
| REDUNDANT   |  (1 down)<br> |

## START UP MODE

Specify the device's start up mode.

### **NOTE**

If a CL, QL, RIVAGE PM, DM7, DM5, DM3 series unit is not connected, we recommend that you set START UP MODE to RESUME. If this is set to REFRESH, settings must be transmitted from R Remote each time the R series unit is restarted.

- **Rio3224-D3, Rio1608-D3, Rio3224-D2, Rio1608-D2, RUio1608SB-D, RUio0804-D, RUio16FLX-D**

| Models                                                           | Menu                                       |
|------------------------------------------------------------------|--------------------------------------------|
| Rio3224-D3, Rio1608-D3,<br>RUio1608SB-D, RUio0804-D, RUio16FLX-D | Set the "START UP" in the SETUP menu.      |
| Rio3224-D2, Rio1608-D2                                           | Set the "START UP MODE" in the SETUP menu. |

| Settings                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |         |      |     |     |     |          |       |                   |     |                   |         |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|------|-----|-----|-----|----------|-------|-------------------|-----|-------------------|---------|
| <b>REFRESH</b>          | <p>When the device is turned on, the following settings are initialized and inputs/outputs are muted.</p> <table> <tr> <td>HA GAIN</td><td>-6 dB *</td></tr> <tr> <td>+48V</td><td>OFF</td></tr> <tr> <td>HPF</td><td>OFF</td></tr> <tr> <td>HPF FREQ</td><td>80 Hz</td></tr> <tr> <td>GAIN COMPENSATION</td><td>OFF</td></tr> <tr> <td>COMPENSATION GAIN</td><td>-6 dB *</td></tr> </table> <p>* The default value is 0 dB for <a href="#">RUio1608SB-D</a>, <a href="#">RUio0804-D</a>, and <a href="#">RUio16FLX-D</a>.</p> | HA GAIN | -6 dB * | +48V | OFF | HPF | OFF | HPF FREQ | 80 Hz | GAIN COMPENSATION | OFF | COMPENSATION GAIN | -6 dB * |
| HA GAIN                 | -6 dB *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |         |      |     |     |     |          |       |                   |     |                   |         |
| +48V                    | OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |         |      |     |     |     |          |       |                   |     |                   |         |
| HPF                     | OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |         |      |     |     |     |          |       |                   |     |                   |         |
| HPF FREQ                | 80 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |         |      |     |     |     |          |       |                   |     |                   |         |
| GAIN COMPENSATION       | OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |         |      |     |     |     |          |       |                   |     |                   |         |
| COMPENSATION GAIN       | -6 dB *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |         |      |     |     |     |          |       |                   |     |                   |         |
| <b>RESUME</b>           | The unit starts up using the settings assigned prior to the most recent power off.                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |         |      |     |     |     |          |       |                   |     |                   |         |
| <b>REFRESH w/o MUTE</b> | The settings are initialized when turned the device on. The initial values are the same as for REFRESH. However, inputs and outputs are not muted.                                                                                                                                                                                                                                                                                                                                                                             |         |         |      |     |     |     |          |       |                   |     |                   |         |

- **Rio3224-D, Rio1608-D, Ri8-D, Tio1608-D2, Tio1608-D**

| Settings            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Switch                                                                                                    |       |      |     |     |     |          |       |                     |     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------|------|-----|-----|-----|----------|-------|---------------------|-----|---------------------------------------------------------------------------------------------------------|
| REFRESH             | <p>When the device is turned on, the following settings are initialized and inputs/outputs are muted.</p> <table><tr><td>HA GAIN</td><td>-6 dB</td></tr><tr><td>+48V</td><td>OFF</td></tr><tr><td>HPF</td><td>OFF</td></tr><tr><td>HPF FREQ</td><td>80 Hz</td></tr><tr><td>Gain Compensation *</td><td>OFF</td></tr></table> <p>* <a href="#">Except for the Tio1608-D2 and Tio1608-D</a></p> <p><b>NOTE</b></p> <p>To use the device after initialization, you need to: turn the device off → set the DIP switches to RESUME → turn the device on.</p> | HA GAIN                                                                                                   | -6 dB | +48V | OFF | HPF | OFF | HPF FREQ | 80 Hz | Gain Compensation * | OFF | <div><div><div></div><div></div></div><div><div>7</div><div>8</div></div></div> <div>(7 and 8 up)</div> |
| HA GAIN             | -6 dB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                           |       |      |     |     |     |          |       |                     |     |                                                                                                         |
| +48V                | OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                           |       |      |     |     |     |          |       |                     |     |                                                                                                         |
| HPF                 | OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                           |       |      |     |     |     |          |       |                     |     |                                                                                                         |
| HPF FREQ            | 80 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                           |       |      |     |     |     |          |       |                     |     |                                                                                                         |
| Gain Compensation * | OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                           |       |      |     |     |     |          |       |                     |     |                                                                                                         |
| RESUME              | <p>The unit starts up using the settings assigned prior to the most recent power off.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <div><div><div></div><div></div></div><div><div>7</div><div>8</div></div></div> <div>(7 down, 8 up)</div> |       |      |     |     |     |          |       |                     |     |                                                                                                         |

- RSio64-D

| Settings           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Switch                                                                                                              |     |                   |              |              |                                                      |                    |         |            |        |             |         |                    |                                  |                                                                                                                       |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----|-------------------|--------------|--------------|------------------------------------------------------|--------------------|---------|------------|--------|-------------|---------|--------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| NORMAL             | Start up normally with the settings of the previous start-up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div>78</div> <div>(7 and 8 up)</div> |     |                   |              |              |                                                      |                    |         |            |        |             |         |                    |                                  |                                                                                                                       |
| INITIALIZE         | <div>The following settings are initialized when the device is turned on.</div> <table><tr><td>SLOT 1-4 SRC</td><td>OFF</td></tr><tr><td>WORD CLOCK SELECT</td><td>DANTE/48 kHz</td></tr><tr><td>USER PATTERN</td><td>same routing configuration as the preset PATTERN # 1</td></tr><tr><td>Static IP (Manual)</td><td>0.0.0.0</td></tr><tr><td>PANEL LOCK</td><td>Unlock</td></tr><tr><td>Dante PATCH</td><td>All OFF</td></tr><tr><td>Dante DEVICE LABEL</td><td>Y001-Yamaha-RSio64-D-123456)(*1)</td></tr></table> <div><div>NOTE</div></div> <div>To use the device after initialization, you need to: turn the device off → set the DIP switches to NORMAL → turn the device on.</div> | SLOT 1-4 SRC                                                                                                        | OFF | WORD CLOCK SELECT | DANTE/48 kHz | USER PATTERN | same routing configuration as the preset PATTERN # 1 | Static IP (Manual) | 0.0.0.0 | PANEL LOCK | Unlock | Dante PATCH | All OFF | Dante DEVICE LABEL | Y001-Yamaha-RSio64-D-123456)(*1) | <div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div>78</div> <div>(7 down, 8 up)</div> |
| SLOT 1-4 SRC       | OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                     |     |                   |              |              |                                                      |                    |         |            |        |             |         |                    |                                  |                                                                                                                       |
| WORD CLOCK SELECT  | DANTE/48 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                     |     |                   |              |              |                                                      |                    |         |            |        |             |         |                    |                                  |                                                                                                                       |
| USER PATTERN       | same routing configuration as the preset PATTERN # 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                     |     |                   |              |              |                                                      |                    |         |            |        |             |         |                    |                                  |                                                                                                                       |
| Static IP (Manual) | 0.0.0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                     |     |                   |              |              |                                                      |                    |         |            |        |             |         |                    |                                  |                                                                                                                       |
| PANEL LOCK         | Unlock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                     |     |                   |              |              |                                                      |                    |         |            |        |             |         |                    |                                  |                                                                                                                       |
| Dante PATCH        | All OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                     |     |                   |              |              |                                                      |                    |         |            |        |             |         |                    |                                  |                                                                                                                       |
| Dante DEVICE LABEL | Y001-Yamaha-RSio64-D-123456)(*1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                     |     |                   |              |              |                                                      |                    |         |            |        |             |         |                    |                                  |                                                                                                                       |

(\*1) The third and fourth characters of the Dante DEVICE LABEL depend on the device settings of DIP switch 1 and the SETUP [UNIT ID] rotary switch. The lower six digits depend on the lower six digits of the unit's MAC address.

## Connect the computer and the devices

---

Use an Ethernet cable to connect the computer and the devices.

If you selected DAISY CHAIN in "[CONNECTION METHOD](#)":

Connect the Dante connectors of the devices in a daisy chain to the computer

If you selected REDUNDANT in "[CONNECTION METHOD](#)":

- Connect the computer to the network switch that is connected to the Dante [PRIMARY] connector.
- For [Rio3224-D3](#), [Rio1608-D3](#), [RUio1608SB-D](#), [RUio0804-D](#), and [RUio16FLX-D](#), you can connect to the dedicated control port.

### **NOTE**

You cannot connect to a device connected from another subnet via DANTE DOMAIN MANAGER.

## Power-on the devices

---

Power-on the devices. The DIP switch settings, the rotary switch settings and the settings in the SETUP menu after power-on will not be applied until the next power-on.

## Specify the computer's IP address

---

Specify the computer's IP address so that it can communicate with the devices.

The method of making this setting depends on whether you're using Windows or Mac. Also, the computer's IP address setting will differ depending on the IP address specified in "[Set on the devices](#)."

- [Windows](#)
  - [Mac](#)
- 

### Windows

Accessing the Control Panel

Select [Start] > [Windows System] > [Control Panel].

TCP/IP Settings

Follow the steps below to configure the computer's TCP/IP settings.

1. Access the Control Panel, then click or double-click [Network and Sharing Center] or [View network status and tasks].

The "Network and Sharing Center" is displayed.

2. Click [Manage network connection] or [Change adapter settings] from the "Tasks" list located in the left side of "Network and Sharing Center" window, then double-click [Local Area Connection].

The "Local Area Connection Status" dialog box will be displayed.

#### **NOTE**

- The "User Account Control" dialog box may appear. Click [Continue] or [Yes].
- If the "Local Area Connection properties" dialog box appears, skip ahead to step 4.

3. Click [Properties].

The "Local Area Connection properties" dialog box will be displayed.

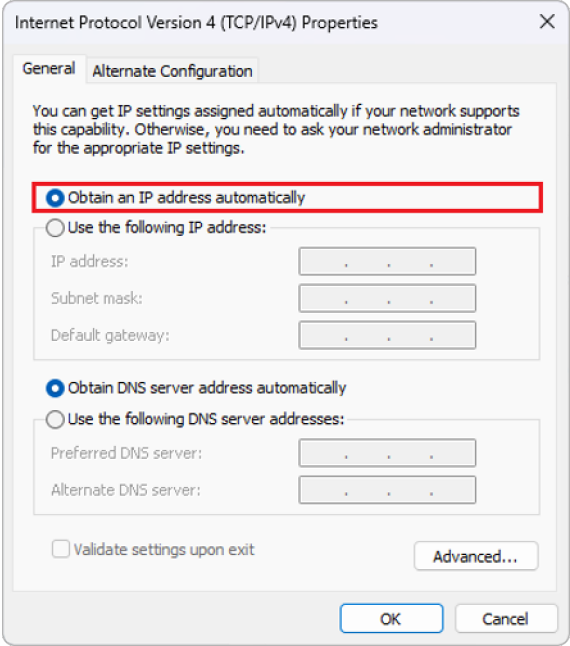
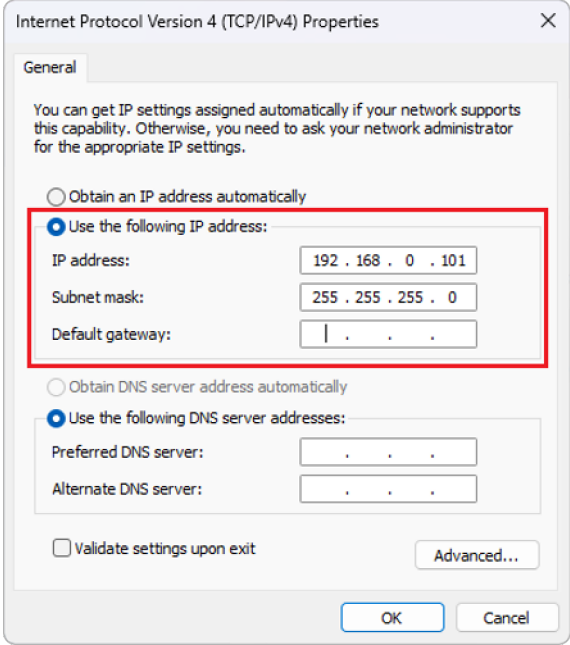
#### **NOTE**

The "User Account Control" dialog box may appear. Click [Continue] or [Yes].

4. Select [Internet Protocol Version 4 (TCP/IPv4)], then click [Properties].

The "Internet Protocol Version 4 (TCP/IPv4) Protocol" dialog box will be displayed.

5. Make the following settings according to the IP address setting you made in "[Set on the devices.](#)"

| Auto IP or DHCP                                                                                                                      | Static IP (Manual)                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Click [Obtain an IP address automatically].</p>  | <p>Click [Use the following IP address:].</p> <p>As the IP address, enter "192.168.0.xxx (a value in the range 1 to 254 that does not conflict with any other device, including the target devices), and enter "255.255.255.0" as the subnet mask.</p>  |

The 192.168.0.101 shown below is an example.

If you're using Static IP (Manual), specify the setting that's appropriate for your network. For details, consult your network administrator.

6. Click [OK].

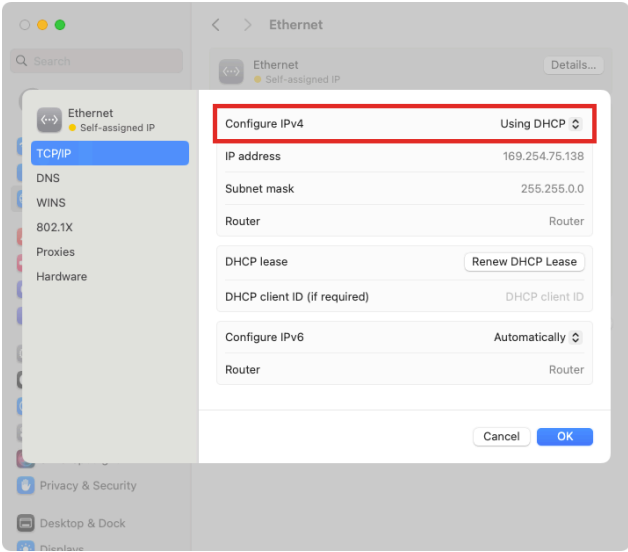
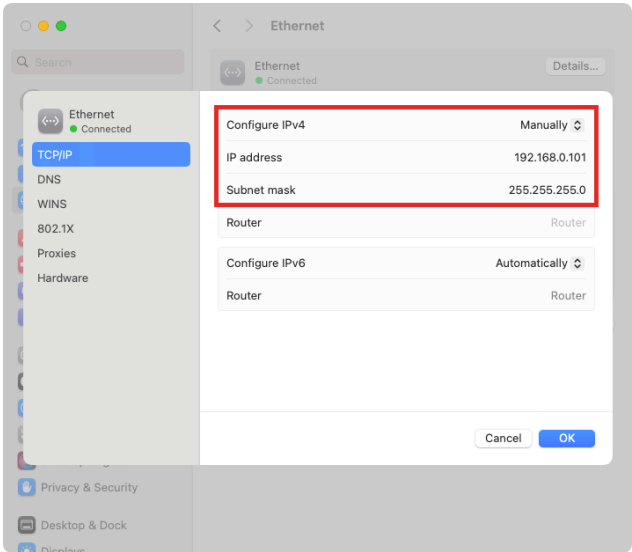
Proceed to "[Use Dante Controller or a mixer to specify the routing.](#)"



Mac

Make TCP/IP settings for the computer as follows.

- 1. Click [System Preferences] > [Network].  
The “Network” dialog box will be displayed.
- 2. Click the service that you want to connect to the device.  
If you're using the Ethernet port that's built into the Mac, click [Ethernet].
- 3. Make the following settings according to the IP address setting you made in "[Set on the devices](#)"

| Auto IP or DHCP                                                                                                                     | Static IP (Manual)                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>In "Configure IPv4," choose [Using DHCP].</p>  | <p>In “Configure IPv4,” choose [Manually]. As the IP address, enter "192.168.0.xxx (a value in the range 1 to 254 that does not conflict with any other device, including the target devices), and enter "255.255.255.0" as the subnet mask.</p>  <p>The 192.168.0.101 shown below is an example.</p> |

If you're using Static IP (Manual), specify the setting that's appropriate for your network. For details, consult your network administrator.

- 4. Click [OK] button, then close “Network” dialog box.

Use Dante Controller or a mixer to specify the routing

If you're using Dante Controller to specify the routing, refer to "Dante Controller User’s Guide."

- For [Rio3224-D3](#), [Rio1608-D3](#), [RUio1608SB-D](#), [RUio16FLX-D](#), and [RUio0804-D](#), you cannot connect Dante Controller to the dedicated control port.
- If you're using a CL, QL, RIVAGE PM, DM7, DM5, DM3 series console to specify the routing, refer to each Reference Manual..

This completes the setup.

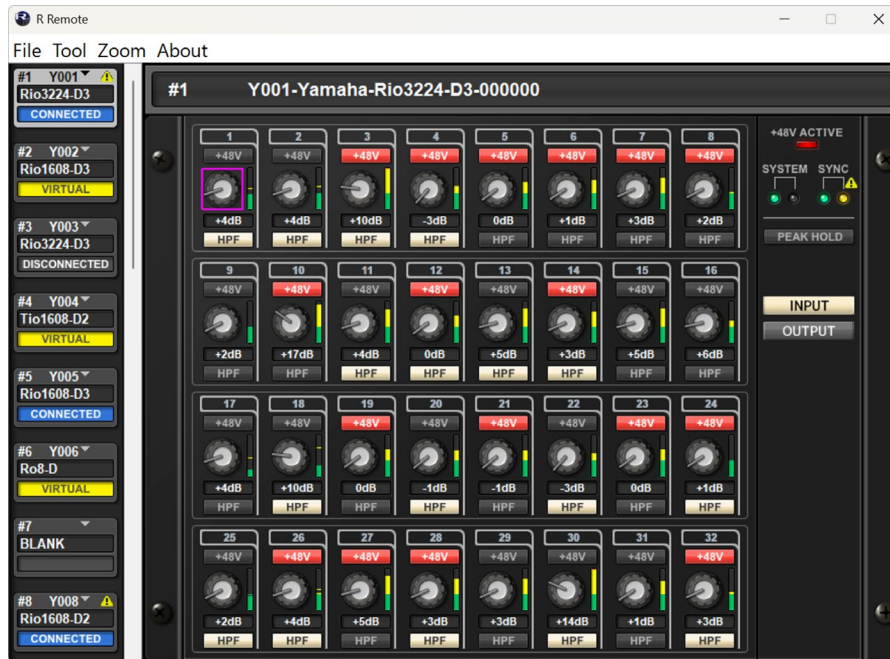
# Operating R Remote

Start R Remote.

- **Windows 11 users:** click [Start] > [All apps] > [Yamaha R Remote] > [R Remote]
- **Mac users:** click [Go] > [Applications] > double-click [R Remote]

## NOTE

When you start R Remote, the [“Network Setup” dialog box](#) may appear, allowing you to select the computer's network card that will be used for communication with the devices. If this appears, click the network card that is connected to the device, and then click the [Apply] button.



## Menu bar

The commands that can be executed by R Remote can be found here, grouped by category. Click here to see a list of commands.



| Menu   | Command   | Summary                                                                                                                                                                                                                                                                                                  | Dialog box that appears |
|--------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| [File] | [Open]    | Opens a previously-saved file (rrmt format or rrm format).<br><br><b>NOTICE</b><br>If you open the file when devices are connected, the settings will be applied to the devices. Be aware that if a CL, QL, RIVAGE PM, DM7, DM5, DM3 series console is also connected, its settings will be overwritten. | “Open File” dialog box  |
|        | [Save As] | Saves the file. It will have a file name extension of rrmt, and will be usable only by R Remote.                                                                                                                                                                                                         | “Save File” dialog box  |

|            |                      |                                                                                                                                                                                                                                                                                                                            |                                                       |
|------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
|            | [Network Setup]      | Selects the computer's network adapter that will be used to communicate with the devices.                                                                                                                                                                                                                                  | <a href="#">"Network Setup" dialog box</a>            |
|            | [Device Information] | Displays information about the devices that are connected.                                                                                                                                                                                                                                                                 | <a href="#">"Device Information" dialog box</a>       |
|            | [Meter (1Line)]      | Displays the meters for assigned target devices vertically in one column.                                                                                                                                                                                                                                                  | <a href="#">1-column display mode (Meter (1Line))</a> |
|            | [Meter (2Line)]      | Displays the meters for assigned target devices vertically in two columns.                                                                                                                                                                                                                                                 | <a href="#">2-column display mode (Meter (2Line))</a> |
|            | [Quit] *1            | Quits R Remote.                                                                                                                                                                                                                                                                                                            | ---                                                   |
| [Tool]     | [Firmware Update]    | Calls up the window to update the firmware.                                                                                                                                                                                                                                                                                | <a href="#">R Remote Firmware Updater</a>             |
| [Zoom]     | [100%]               | Sets the screen display scale to 100%.                                                                                                                                                                                                                                                                                     | ---                                                   |
|            | [150%]               | Sets the screen display scale to 150%.                                                                                                                                                                                                                                                                                     | ---                                                   |
|            | [200%]               | Sets the screen display scale to 200%.                                                                                                                                                                                                                                                                                     | ---                                                   |
|            | [Meter Zoom]         | <p>If the [Meter Zoom] box is checked, the Meter (1Line/2Line) window will be subject to resizing at a scale of [100%], [150%], or [200%] as described above.</p> <ul style="list-style-type: none"> <li>• If the box is unchecked, the scale will be fixed at 100%.</li> <li>• The default is off (unchecked).</li> </ul> | ---                                                   |
| [About] *1 | [About R Remote]     | Displays details such as the software version of R Remote.                                                                                                                                                                                                                                                                 | "About R Remote" dialog box                           |

\*1 Mac users: [Quit] and [About] are located in the R Remote menu.

## Areas of the screen

The R Remote screen is broadly divided into three areas: the Device Selection Area, the Information Display Area, and the Main Area.

- [Device Selection Area](#)
- [Information Display Area](#)
- [Main Area](#)

Device Selection Area

Information Display Area



Main Area

## Device Selection Area



Display switch buttons #1 through #24 are arranged vertically in the device selection area. When you click a display switching button, the corresponding device is shown in the information display area and in the main area.

Click a display switch button ▼ to select the UNIT ID. By default, the UNIT ID has not been selected and the corresponding device is not connected. Select the UNIT ID for the target device.

### NOTE

- If you load a file that was saved using R Remote V5.9 or earlier, device UNIT IDs 1 through 24 will be assigned to Racks 1 through 24 sequentially.
- If you use R Remote V5.9 or earlier to load a file that was saved using R Remote V6.0, the device UNIT ID setting will be ignored, and the default assignment of IDs #1 through #24 will remain unchanged.

With a display switching button selected, pressing the left mouse button makes all indicators of the corresponding device blink, allowing you to identify the corresponding unit.

Also shows an attention icon ⚠ depending on the device status.

When you right-click a display switching button, the following context menu appears.

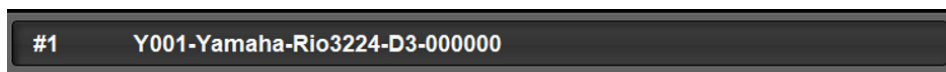
| Command                                                                                                | Summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Mount]                                                                                                | Opens the “Mount” window. Select the device that you want to mount.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Connect]                                                                                              | Synchronizes with the selected device.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Disconnect]                                                                                           | Disconnects from the selected device.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Properties]                                                                                           | Open the <a href="#">“Properties” dialog box</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [Summary]<br>Rio3224-D2 and Rio1608-D2 only                                                            | Displays the selected device summary (REPORT).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Log]<br>Rio3224-D3, Rio1608-D3, Rio3224-D2, Rio1608-D2, RUio1608SB-D, RUio16FLX-D and RUio0804-D only | <p>The file name is assigned automatically.</p> <ul style="list-style-type: none"> <li>• <a href="#">Rio3224-D2 and Rio1608-D2</a><br/>Obtain the LOG information for the corresponding device, and then select a destination for saving the file.<br/>In case of Rio3224-D2: <b>Rio3224-D2_201712261339.log</b><br/>* The numbers after “_” indicate the year, month, day and time.</li> <li>• <a href="#">Rio3224-D3, Rio1608-D3, RUio1608SB-D, RUio0804-D, and RUio16FLX-D</a><br/>Obtain LOG information after you select the save destination for the file.</li> </ul> |

The connection status is shown below each display switching button.

| Indication   | Status                                                                                                                                                                           |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VIRTUAL      | The device is mounted without the existence of the actual device.                                                                                                                |
| BLANK        | Alternately, communication is impossible due to incorrect settings having been made.                                                                                             |
| CONNECTING   | The device is not powered-on or the device is not connected to the computer.                                                                                                     |
| CONNECTED    | Currently synchronized with the device.                                                                                                                                          |
| DISCONNECTED | Synchronization with the device is possible, but is currently disconnected by the [Disconnect] command. Alternatively, communication has been interrupted, or connection failed. |
| DUPLICATED   | More than one device of the same UNIT ID exists. Eliminate any UNIT ID conflict between devices.                                                                                 |

## Information Display Area

This area shows the UNIT ID and name of the selected device.



To check the firmware version or IP address, choose [File] menu > [Device Information] to open the [“Device Information” dialog box](#).

## Main Area

This area shows the state of the selected device and allows basic parameter editing. The display depends on the model.

For [Rio3224-D3](#), [Rio1608-D3](#), [Rio3224-D2](#), [Rio1608-D2](#), [Rio3224-D](#), [Rio1608-D](#), [Ri8-D](#), [RUio1608SB-D](#), [RUio0804-D](#), [RUio16FLX-D](#), [Tio1608-D2](#), [Tio1608-D](#)

- Configure detailed input or output settings for each connector in the Edit window. The Edit window (Input) opens if you double-click or right-click and choose [Open Edit Window] anywhere other than on a controller.
- The [INPUT] and [OUTPUT] buttons (⑤) appear only on the [Rio3224-D3](#) and [Rio1608-D3](#).
- For the [Rio3224-D3](#) and [Rio1608-D3](#), you can switch the display between the Input screen (shown below) and the [Output screen](#) using the [INPUT] and [OUTPUT] buttons (⑤).



The screen is explained here using the Rio3224-D as an example.

### NOTE

- The number of items in the HA display area (①) differs depending on the model.
- For the [RUio16FLX-D](#): Channels other than those assigned for INPUT are labeled as "disabled."

### ① HA display area

Here you can view and edit HA settings.

If you press the left mouse button on an area that shows the device's jack number, the indicator of the actual device's corresponding jack will light.



### ② [+48V] button

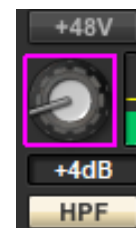
Turns phantom power on/off for each channel.

## ⑥ GAIN knob

Specifies the analog gain for the HA of the device. The current setting is shown in the numeric box located below the knob. The selected GAIN knob or numeric box is marked by a pink frame, and you can move this frame to the next channel by pressing the computer's [tab] key.

You can double-click a numeric value box and enter a value directly from the keyboard.

The level meter located at the immediate right of the knob indicates the input level of the corresponding port.



On the knobs, you can use the following shortcuts and context menu.

| Action                               | Operation                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Ctrl> (<command>) + click           | Sets analog gain to the default value (-6 dB).<br>* The default value is 0 dB for <a href="#">RUio1608SB-D</a> , <a href="#">RUio0804-D</a> , and <a href="#">RUio16FLX-D</a> .                                                                                                                                                          |
| <Ctrl> (<command>) + <Shift> + click | Sets the analog gain to 0 dB.                                                                                                                                                                                                                                                                                                            |
| Right click                          | Displays the following context menu.<br><b>[All Default]</b><br>Sets the analog gain of all channels to the default value (-6 dB).<br>* The default value is 0 dB for <a href="#">RUio1608SB-D</a> , <a href="#">RUio0804-D</a> , and <a href="#">RUio16FLX-D</a> .<br><b>[All 0dB]</b><br>Sets the analog gain of all channels to 0 dB. |

## ⑦ [HPF] button

This is an on/off switch for the high-pass filter that is built into the HA of the device. To specify the cutoff frequency, make settings in the Edit window (Input).

## ⑧ [+48V ACTIVE] indicator

Indicates the phantom power on/off status for the device (the on/off setting is switched on the device itself).

### NOTE

- For [RUio1608SB-D](#), [RUio0804-D](#), [RUio16FLX-D](#):  
None of these units features a +48V ACTIVE switch. By default, the phantom power is turned on when the unit starts up. It is temporarily turned off only while you press and hold the encoder switch on the Meter screen. When you release the encoder switch, the phantom power is turned on again.
- [+48V MASTER] appears on the [Rio3224-D2](#), [Rio1608-D2](#), [Rio3224-D](#), [Rio1608-D](#), [Ri8-D](#), and [Tio1608-D](#).  
It also appears when the [Tio1608-D2](#) is used in Tio1608-D Compatibility Mode.

## ⑨ [SYSTEM] indicator / [SYNC] indicator

Indicates the status of the device or the Dante status. When you move the mouse cursor to this area, the display content appears as a popup. Also shows an information  icon or attention icon  depending on the device status.

## ⑩ [PEAK HOLD] button

If this button is on, the peaks of each level meter are held. When you turn this off, the peaks that had been held are cancelled.

## ⑪ [INPUT] button / [OUTPUT] button ([Rio3224-D3](#) and [Rio1608-D3](#) only)

Press the [INPUT] button to display the input screen. Press the [OUTPUT] button to display the output screen.



## Rio3224-D3 and Rio1608-D3 Output Screen

This screen enables you to configure basic settings for the output parameters. Double-click anywhere other than on a controller, or right-click and select [Open Edit Window], to display the [Edit window \(Output\)](#).



### ① Output display area

This area indicates and enables you to configure the output settings for the Rio3224-D3 or Rio1608-D3.



#### Ⓐ [DELAY] button

Toggles the Delay between on and off.

#### Ⓑ Delay setting knob

Specifies the Delay value. You can view the current value in the numeric box below the knob. The selected Delay setting knob or numeric box is marked by a pink frame, and you can move this frame to the next channel by pressing the computer's [tab] key.

Double-clicking the numeric box enables you to enter a value directly from the keyboard. The unit specified via DELAY SCALE also appears in this area.

The level meter to the immediate right of the knob indicates the output level at the corresponding port.



Items ② through ⑤ are the same as those on the Input screen. Refer to the previous page.

### ⑥ DELAY SCALE

Selects the unit for delay time. You can choose meter, feet, sample, or ms. You can also specify the time in frames.

### ⑦ PHONES

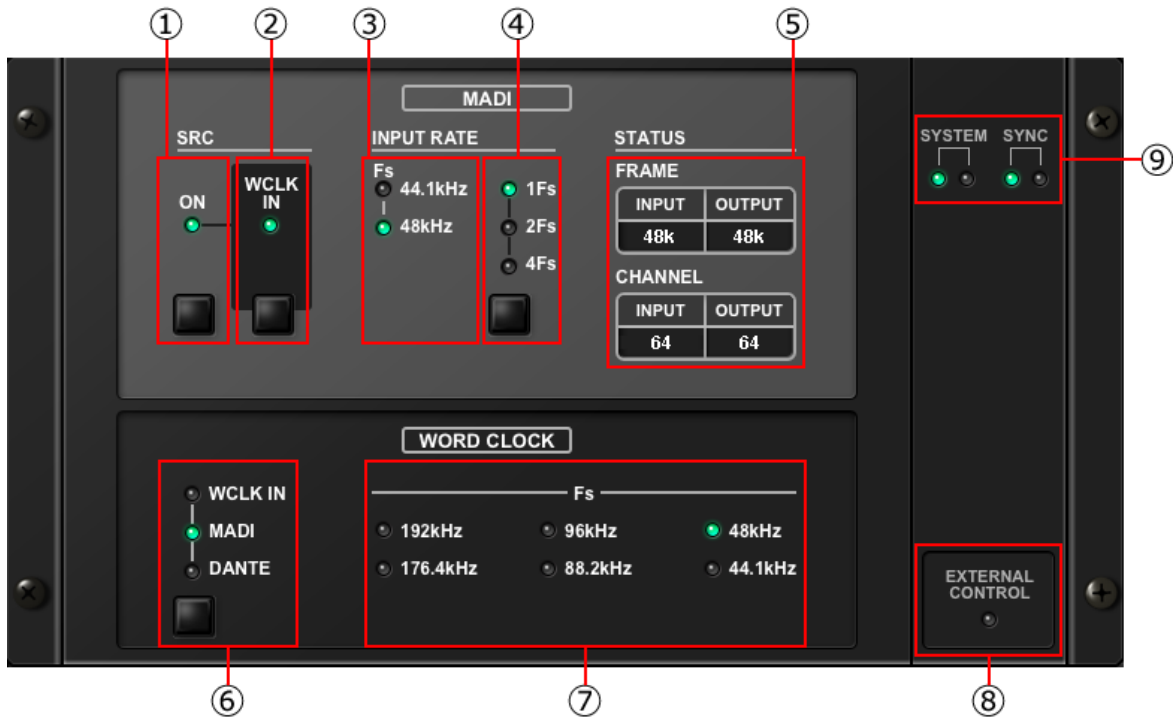
Indicates the channel assigned to the PHONES OUT port and the level meter. You can also change the channel assignment.

### ⑧ Impedance Button

Specifies the output impedance. Select 10K or 600. (Unit:  $\Omega$ )

## For RMio64-D

You can change the RMio64-D settings.



### ① MADI [SRC ON] indicator

#### MADI [SRC ON] button

Switches the SRC (Sampling Rate Converter) on and off.

### ② MADI [SRC WCLK IN] indicator

#### MADI [SRC WCLK IN] button

Use this button to select whether to use (indicator on) or not use (indicator off) the word clock input from the MADI WCLK IN FOR SRC jack on the rear panel of the RMio64-D as a standard clock for SRC.

### ③ MADI [INPUT RATE Fs 44.1kHz] indicator

#### MADI [INPUT RATE Fs 48kHz] button

Automatically detect and indicate whether the MADI input signal is 44.1 kHz or 48 kHz. Both indicators remain off if there is no valid MADI input signal.

### ④ MADI [INPUT RATE 1Fs] indicator

#### MADI [INPUT RATE 2Fs] indicator

#### MADI [INPUT RATE 4Fs] indicator

#### MADI [INPUT RATE] 1Fs/2Fs/4Fs button

Select either 1Fs (1x), 2Fs (2x), or 4Fs (4x), based on the MADI input frequency. For example, if the MADI input signal is 192 kHz (4x 48 kHz), confirm that the MADI INPUT RATE Fs 48kHz indicator is on and then select "4Fs".

#### **NOTE**

When "2Fs" is selected, the unit automatically detects the frame frequency (48 kHz/96 kHz) of the MADI input signal.

### ⑤ MADI [STATUS INPUT] status

#### MADI [STATUS OUTPUT] status

Display information regarding the MADI input and output signals (frame frequency/number of channels).

- ⑥ **WORD CLOCK [WCLK IN] indicator**  
**WORD CLOCK [MADI] indicator**  
**WORD CLOCK [DANTE] indicator**  
**WORD CLOCK [WCLK IN/MADI/DANTE] button**

Used to select the word clock source.

|                |                                                                                                                                                                      |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WCLK IN</b> | Uses the word clock signal being input from the WORD CLOCK IN connector on the rear panel of RMio64-D. The indicators flash when there is no valid word clock input. |
| <b>MADI</b>    | Uses the word clock of the MADI input signal. The indicators flash when there is no valid word clock input.                                                          |
| <b>DANTE</b>   | Uses the word clock of the Dante network.                                                                                                                            |

- ⑦ **WORD CLOCK [Fs] indicator**

Indicates the word clock frequency at which the unit is operating. Flashes when not synchronized.

- ⑧ **[EXTERNAL CONTROL] indicator**

This indicator comes on when there is a valid parameter that can be operated only externally by remote control.

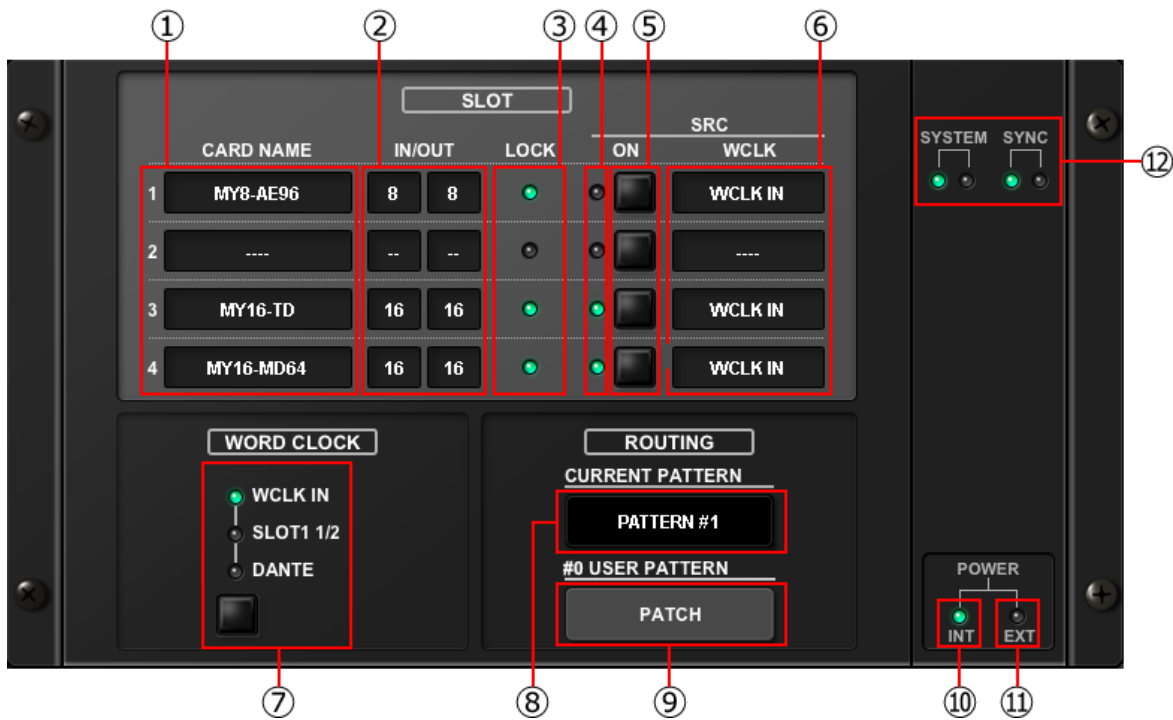
Refer to “Remote Control” in the RMio64-D Owner's Manual for details about parameters that can be operated by remote control.

- ⑨ **[SYSTEM] indicator / [SYNC] indicator**

Indicates the status of the device or the Dante status. When you move the mouse cursor to this area, the display content appears as a popup. Also shows an information icon ⓘ or attention icon ⚠ depending on the device status.

## For RSio64-D

You can change the RSio64-D settings.



### ① CARD NAME

This indicates the names of the cards installed in slots 1 to 4. If nothing is installed, “----” will appear. If the MY8-AE96 is installed, “AE96S(w/SRC)” will appear if the SRC function in the card is on.

### ② IN/OUT PORT

This indicates the number of input and output ports for the cards installed in slots 1 to 4. If no card is installed, “--” will appear.

### ③ SLOT1–4 [LOCK] indicators

This indicates the word clock status for slots 1 to 4. If the word clock is operating normally, this indicator will be green.

|                                                |                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Off</b>                                     | There is no card in the slot. Or, an unsupported card is in the slot.                                                                                                                                                                                                                                                                                                   |
| <b>Green (On)<br/>LOCK</b>                     | Indicates that a clock synchronized with the clock source selected with the [WORD CLOCK] select key is being input from the card. If an external device is connected to the corresponding slot, input/output is occurring properly between that device and the RSio64-D. If the sampling frequency is close, this status may be displayed even if not synchronized.     |
| <b>Green (Flashing)<br/>SYNC ERROR</b>         | A valid clock is being input from the card, but is not synchronized with the clock source selected with the [WORD CLOCK] select key. If an external device is connected to the corresponding slot, input/output cannot occur correctly between that device and the RSio64-D. Turn SRC ON for correct input/output.                                                      |
| <b>Red (On)<br/>UNLOCK</b>                     | A valid clock is not being input from the card. If an external device is connected to the corresponding slot, input/output cannot occur correctly between that device and the RSio64-D.                                                                                                                                                                                 |
| <b>Red (Flashing)<br/>WRONG WORD<br/>CLOCK</b> | The frequency of the clock source selected with the [WORD CLOCK] select key is outside of the operating frequency range for the card inserted in the slot. Either set the frequency of the clock source within the operating range for the card, or turn [SRC] ON. For an analog card, if you turn [SRC] ON, the frequency is set to the 48kHz built into the RSio64-D. |

### ④ SLOT1–4 [SRC] indicators

Indicate the Sampling Rate Converter (SRC) status for slots 1 to 4.

|                   |                                                                                                                                                                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Off</b>        | SRC is off.                                                                                                                                                                                                                                       |
| <b>Green (On)</b> | SRC is on, and the clock selected with the SRC WCLK DIP switches on the RSio64-D is being input correctly.                                                                                                                                        |
| <b>Red (On)</b>   | SRC is on, but an appropriate clock is not being input. The clock selected with the SRC WCLK DIP switches on the RSio64-D is either not being input or is not within the operating range. Either turn SRC off, or change the DIP switch settings. |

**NOTE**

Use the SRC WCLK DIP switches on the RSio64-D to set the SRC clock sent to the Mini-YGDAI card inserted in the slot.

**⑤ SLOT1–4 [SRC] buttons**

Used to turn SRC on/off at both IN and OUT for each slot.

**⑥ WORD CLOCK source**

Indicates the SRC word clock source status for slots 1 to 4 the RSio64-D.

|                |                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------|
| <b>SLOT</b>    | When using the word clock signal being input from the card in the slot.                          |
| <b>WCLK IN</b> | When using the word clock signal being input from the WORD CLOCK IN connector on the rear panel. |
| <b>CARD</b>    | When the SRC function in the card is on.                                                         |
| <b>----</b>    | If there is no card in the slot.                                                                 |

**⑦ WORD CLOCK select button**

Used to select the word clock source for the RSio64-D.

- WORD CLOCK WCLK IN indicator
- WORD CLOCK SLOT1 1/2 indicator
- WORD CLOCK DANTE indicator

Indicates the word clock source status for the RSio64-D.

|                  |                                                                                                                                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WCLK IN</b>   | On when using the word clock signal being input from the WORD CLOCK IN connector on the rear panel of the RSio64-D. Flashes*1 if there is no valid word clock input.                      |
| <b>SLOT1 1/2</b> | On when using the word clock for channels 1/2 of slot 1 for the RSio64-D. Flashes*1 if there is no valid word clock input. When using MY8-AEB*2, the word clock for channels 7/8 is used. |
| <b>DANTE</b>     | On when using the word clock for the Dante network*3. (If there is no valid Dante signal input, the internal Dante module will generate a clock.)                                         |

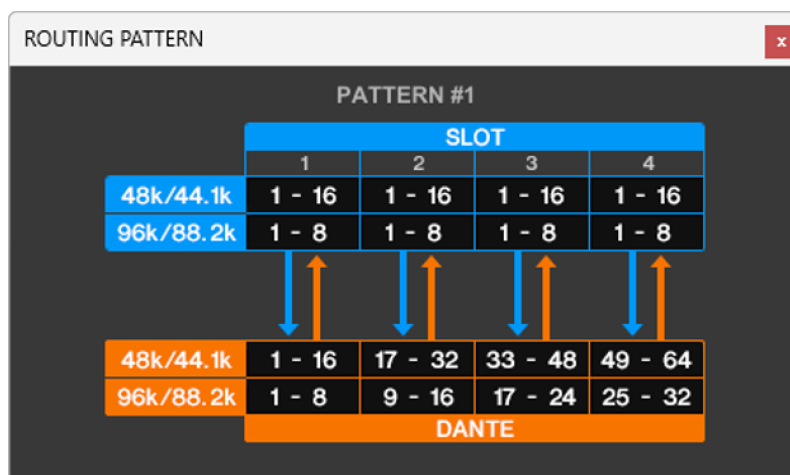
\*1 When flashing, Dante word clock\*3 input/output is used.

\*2 If you are using MY8-AEB, set the AE⇌RSVD switch for the card to RSVD.

\*3 If you make changes to the frequency of the Dante word clock, use Dante Controller.

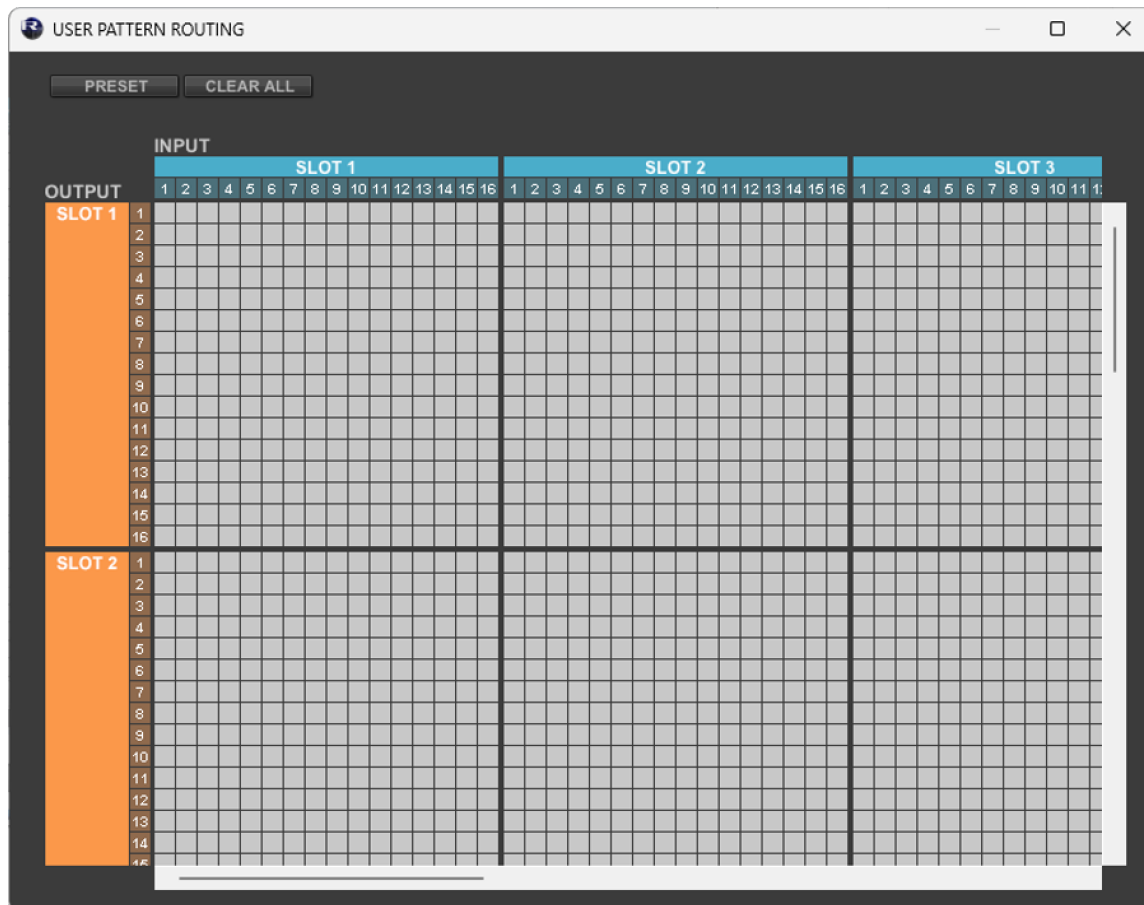
⑧ [CURRENT PATTERN] button

If you click this button, the currently selected routing pattern on the RSio64-D is displayed. If you switch the routing pattern on the RSio64-D, it will be applied in 3 seconds.



⑨ [USER PATTERN] button

Click this button to open the window for setting the audio routing user pattern in the RSio64-D.



- **PRESET button** 

As a template for editing the patch, you can call by selecting from preset patterns 1 to 7.

- **CLEAR ALL button** 

Clear all patches.

⑩ **POWER INT indicator**

Indicates the status of the AC IN power supply for the RSio64-D.

⑪ **POWER EXT indicator**

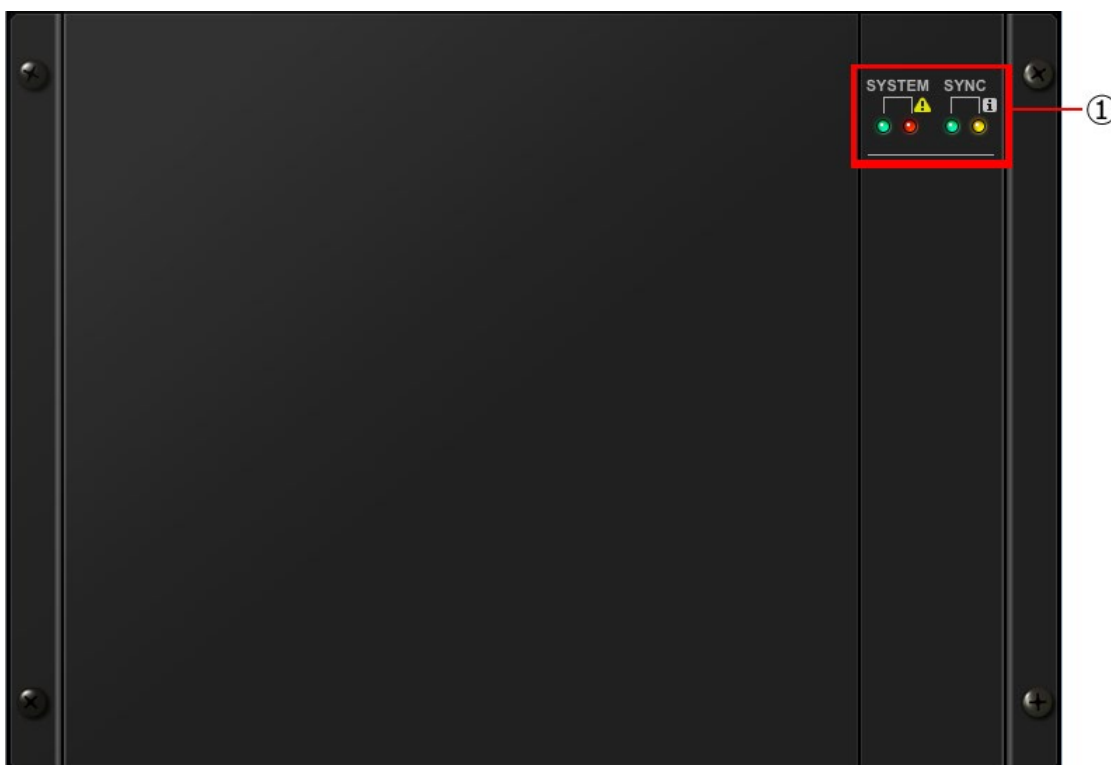
Indicates the status of the EXT DC INPUT power supply for the RSio64-D. If the power supply is on, this indicator will be on.

⑫ **[SYSTEM] indicator / [SYNC] indicator**

Indicates the status of the device or the Dante status. When you move the mouse cursor to this area, the display content appears as a popup. Also shows an information icon ⓘ or attention icon ⚠ depending on the device status.

## For Ro8-D

The Ro8-D has no settings that can be operated, so only the [SYSTEM] indicator and [SYNC] indicator are shown.



### ① [SYSTEM] indicator / [SYNC] indicator

Indicates the status of the device or the Dante status. When you move the mouse cursor to this area, the display content appears as a popup. Also shows an information icon ⓘ or attention icon ⚠ depending on the device status.



## Edit window (Input)

Here you can view and edit detailed HA settings for the device.

- This window appears when you double-click (or right-click and select [Open Edit Window]) anywhere other than on a control in the [Main Area](#) (or in the input screen for the [Rio3224-D3](#) or [Rio1608-D3](#)). To close the window, click the [x] button in the upper right if you're using Windows, or click the [x] button if you're using Mac.
- Two Edit windows can be displayed simultaneously (V6.0 and later).

For [Rio3224-D3](#), [Rio1608-D3](#), [Rio3224-D2](#), [Rio1608-D2](#), [Rio3224-D](#), [Rio1608-D](#), [Ri8-D](#), [RUio1608SB-D](#), [RUio0804-D](#), [RUio16FLX-D](#), [Tio1608-D2](#), [Tio1608-D](#)



The screen is explained here using the Rio3224-D3 as an example. The number of Port select tabs differs depending on the model.

### ① Device name

Shows the UNIT ID number and name of the device.

### ② [PEAK HOLD] button

If this button is on, the peaks of each level meter are held. When you turn this off, the peaks that had been held are cancelled.

### ③ Port select tab

These tabs switch the ports that are shown.

### ④ Port index

Indicates the port number of the device. When you press this with the left mouse button, the indicator of the corresponding port of the device will light.

### ⑤ [+48V] button

Turns the HA phantom power on/off.

### ⑥ [A.GAIN] knob

Specifies the analog gain for the HA of the device. The current setting is shown in the numeric box located below the knob.

You can double-click a numeric value box and enter a value directly from the keyboard. The level meter located at the immediate right of the knob indicates the input level of the corresponding port.



On the knobs, you can use the following shortcuts and context menu.

| Action                               | Operation                                                                                                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <Ctrl> (<command>) + click           | Sets analog gain to the default value (-6 dB). *                                                                                                                                                        |
| <Ctrl> (<command>) + <Shift> + click | Sets analog gain to 0 dB.                                                                                                                                                                               |
| Right click                          | Displays the following context menu.<br><b>[All Default]</b><br>Sets the analog gain of all channels to the default value (-6 dB).<br><b>[All 0dB]</b><br>Sets the analog gain of all channels to 0 dB. |

\* The default value is 0 dB for [RUio1608SB-D](#), [RUio0804-D](#), and [RUio16FLX-D](#).

You can use the computer's [tab] key to move the selection of the [A. GAIN] knob or numeric box (marked by a pink frame) to the next channel.

#### ⑦ [GC] button (This button does not appear for the [Tio1608-D2](#) or [Tio1608-D](#).)

Switches on/off the gain compensation that regularizes the signal level on the audio network. If this is on, the gain value fixed by gain compensation is displayed, and subsequent changes to analog gain are compensated by the compensation gain within the device; audio is transmitted to the Dante network at the gain value that was fixed immediately before this was enabled.

##### **NOTE**

There are limits to the amount of gain compensation. The maximum compensation is 24 dB when turning the knob toward the left, and 48 dB when turning the knob toward the right. For example, if you apply gain compensation at 30 dB, compensation is maintained until you set the analog gain to 6 dB, but if you set the analog gain to 4 dB, the gain value that is output will be 28 dB. If in this state you return the setting to 6 dB or higher, compensation maintains the level at 30 dB.

#### ⑧ [FREQ] knob / [HPF] button

Switches on/off the high-pass filter that is built into the HA of the device, and adjusts the cutoff frequency. The current setting is shown in the numeric box located below the knob. Double-clicking the numeric box enables you to enter a value directly from the keyboard.

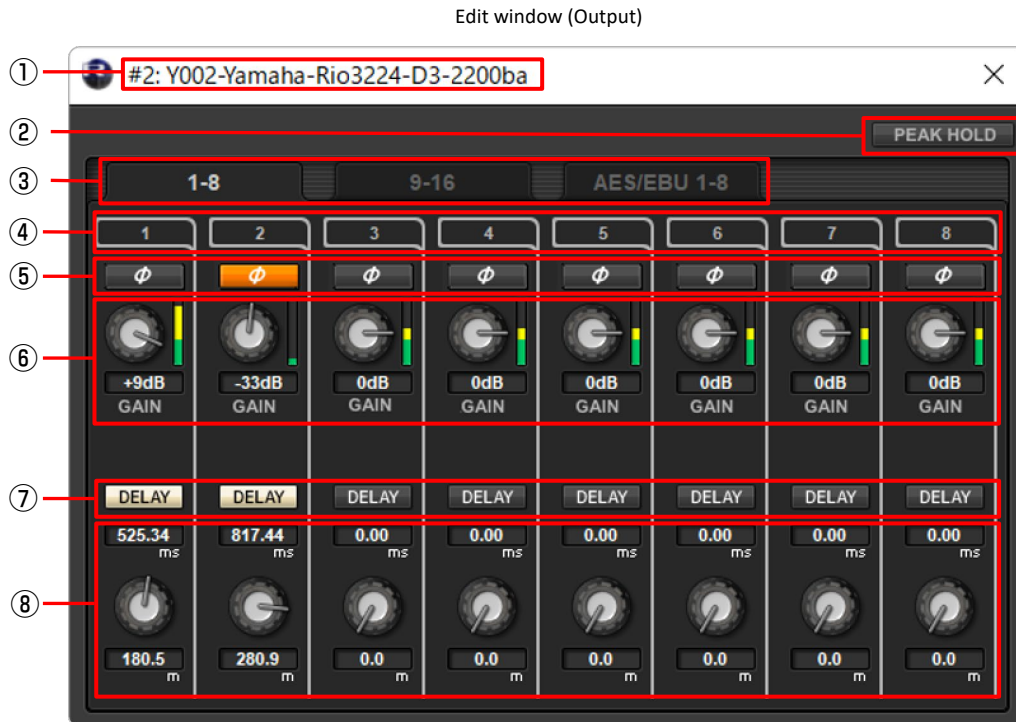
- If you <ctrl> (<command>) + click above the [FREQ] knob, the cutoff frequency is set to the default value (80 Hz).
- You can use the computer's [tab] key to move the selection of the [FREQ] knob or numeric box (marked by a pink frame) to the next channel.

## Edit window (Output)

### Rio3224-D3 and Rio1608-D3 only

This area indicates and enables you to configure detailed output settings for the device.

This window appears when you double-click (or right-click and select [Open Edit Window]) anywhere other than on a control in the output screen. To close the window, click the [X] button in the upper-right corner if you are using Windows, or click the [X] button in the upper-left corner if you are using a Mac.



The screen shown below is for the Rio3224-D3. The number of tabs required to switch port displays varies depending on the model.

#### ① Device name

Indicates the UNIT ID and name of the device.

#### ② [PEAK HOLD] button

If this button is turned on, the peak of each level meter will be held. If this button is turned off, each held peak will be cleared.

#### ③ Switching tabs for port displays

Switch the port you wish to display.

#### ④ Port index

Indicates the device port number. If you press the left mouse button, the indicator for the corresponding port of the device lights up.

#### ⑤ [ $\phi$ ] button (Polarity button)

Switches the phase of the output signal.

#### ⑥ [GAIN] knob

Sets the output gain for the device. You can view the current value in the numeric box below the knob. Double-clicking the numeric box enables you to enter a value directly from the keyboard.

You can view the output level of the corresponding port by using the level meter located to the immediate right of the knob.

The following shortcuts are available on the knobs:

| Action                               | Operation                               |
|--------------------------------------|-----------------------------------------|
| <Ctrl> (<command>) + click           | Sets the output gain to default (0 dB). |
| <Ctrl> (<command>) + <Shift> + click | Sets the output gain to 0 dB.           |

You can use the computer's [tab] key to move the selection of the [GAIN] knob or numeric box (marked by a pink frame) to the next channel.

#### ⑦ [DELAY] button

Toggles the Delay between on and off.

#### ⑧ Delay setting knob

Specifies the Delay value. You can view the current value in the numeric box above and below the knob.

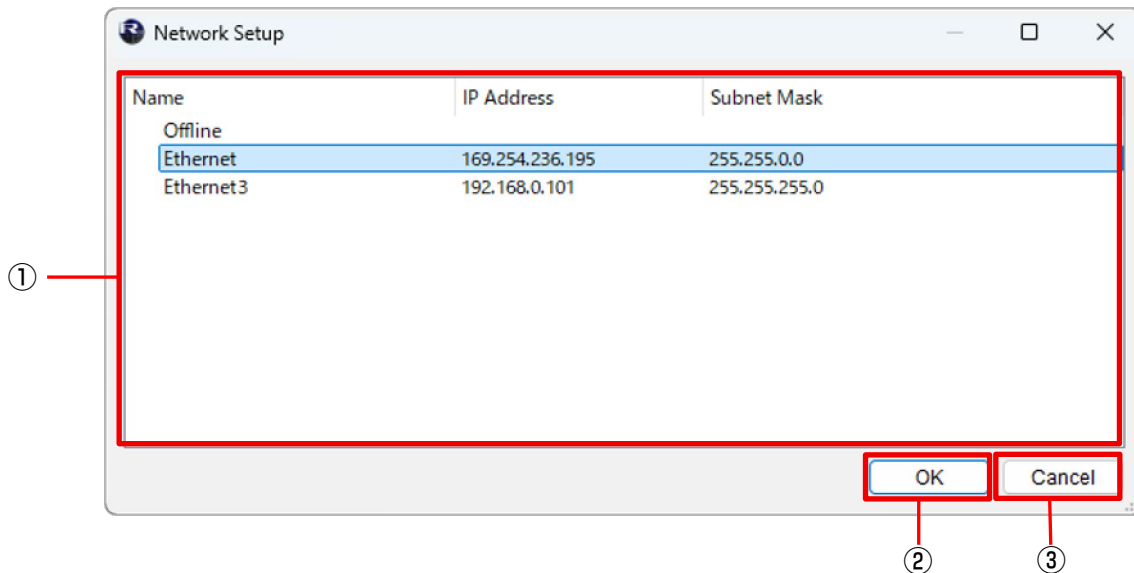
- Double-clicking the numeric box enables you to enter a value directly from the keyboard.
- If any unit other than ms has been selected for DELAY SCALE, the numeric box above the knob will always indicate the value in ms. (Nothing will show in this box if ms has been selected for DELAY SCALE).
- The numeric box below the knob indicates the unit specified by the DELAY SCALE.
- You can use the computer's [tab] key to move the selection of the Delay setting knob or numeric box (marked by a pink frame) to the next channel.

## “Network Setup” dialog box

This appears when you choose [File] menu > [Network Setup].

Here you can select the network interface card of the computer that will be used to communicate with the devices (subsequently called “the network card”).

**NOTICE** The various parameter settings are initialized if you change network cards. In order to use the current settings later, please save the settings to a file and change the network card.



### ① Network card list

Select the network card that will be used to communicate with device. When you double-click a network card, the network card you double-clicked is selected and the dialog box closes.

If you only want to make settings without connecting a device, select [Offline]. If you select a network card while the status is [Online], data transmission load increases for the connected network.

### ② [OK] button

Updates the settings and closes the dialog box.

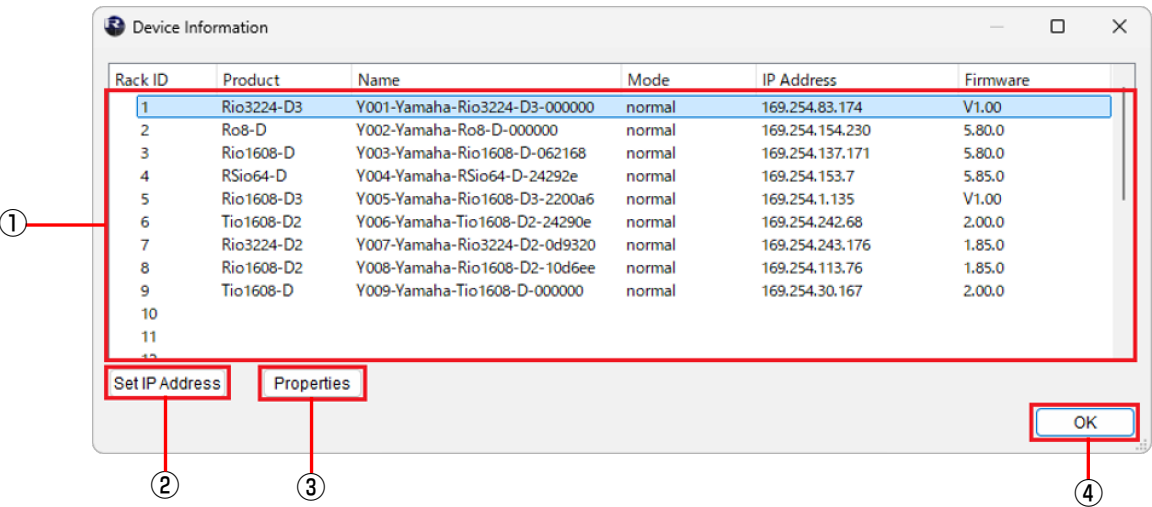
### ③ [Cancel] button

Closes the dialog box without updating the settings.

# “Device Information” dialog box

This appears when you choose [File] menu > [Device Information].

This lists information about the devices that are connected.



① **Device list**

By right-clicking the name of an item such as Rack ID, you can select the items that are shown.

|            |                                                                     |
|------------|---------------------------------------------------------------------|
| Rack ID    | Shows the Rack ID.                                                  |
| Product    | Shows the model name of the device.                                 |
| Name       | Shows the device name. This name can be edited in Dante Controller. |
| Mode       | Shows the device's Run Mode.                                        |
| IP Address | Shows the IP address that is specified for the device.              |
| Port No.   | Shows the communication port number of the device.                  |
| Firmware   | Shows the main firmware version of the device.                      |

② **[Set IP Address] button**

When you click this button, the “[IP Address](#)” dialog box will appear.

③ **[Properties] button**

When you click this button, the “[Properties](#)” dialog box will appear.

④ **[OK] button**

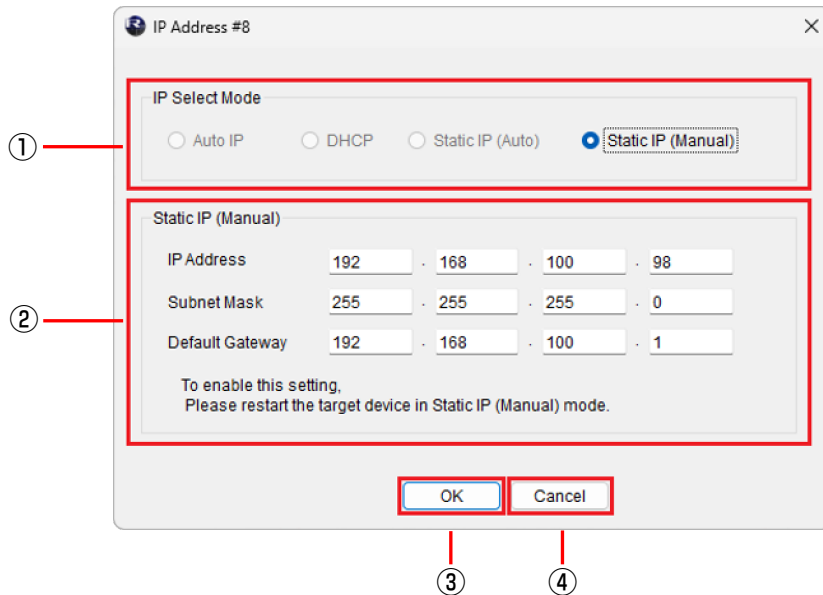
Closes the dialog box.

## "IP Address" dialog box

This appears when you click the [Set IP Address] button in the "Device Information" dialog box. Here you can view the device's IP Select Mode status, or specify the IP address for a Static IP (Manual) device.

### NOTE

- For the [RMio64-D](#), IP Select Mode is set in this dialog box instead of the DIP switch. This setting is available in firmware V4.10 or later.
- For the [Rio3224-D3](#), [Rio1608-D3](#), [RUio1608SB-D](#), [RUio0804-D](#), and [RUio16FLX-D](#), the IP address for the Dante port and NW port is configurable.



① **IP Select Mode**

Shows the IP Select Mode of the device.

② **Static IP (Manual)**

Specifies the IP address etc. that is used when the device starts with its IP Select Mode set to Static IP (Manual).

③ **[OK] button**

Saves the settings and closes the dialog box.

If you want to change to the IP address that is specified here, set the device's DIP switch to Static IP (Manual), and then restart the device.

④ **[Cancel] button**

Discards changes and closes the dialog box.

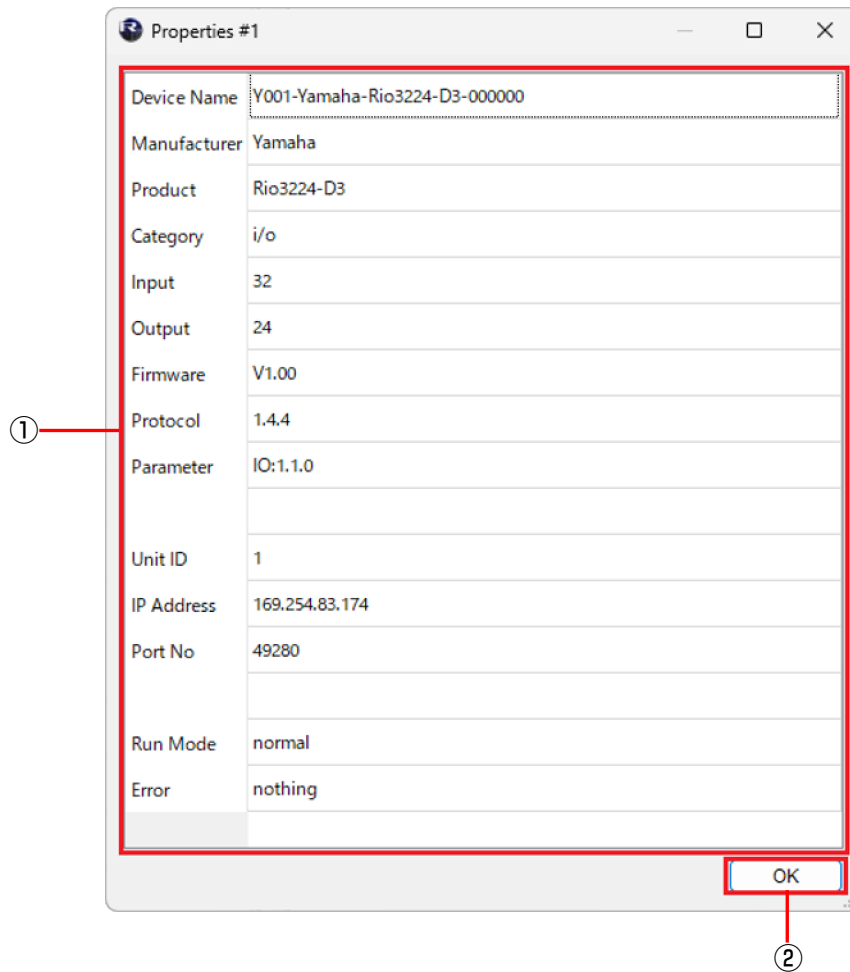
## Using Static IP (Manual)

Configure the settings by following the procedure below ([excluding RMio64-D](#)).

1. Start up the device in a mode other than Static IP (Manual).
2. Start R Remote.
3. In the "Device Information" dialog box, select the device that you will be setting to Static IP (Manual).
4. In the "IP Address" dialog box, enter the necessary information for Static IP (Manual).
5. Click the [OK] button.
6. Put the device in Static IP (Manual) mode, and restart.

## “Properties” dialog box

This dialog box appears when you click the [Properties] button in the "Device Information" dialog box. This displays information about the devices that are connected.



① **[Information] display area**

Shows information about the device. If the device is not connected, no information is shown.

② **[OK] button**

Closes the window.



## “Meter” window

This window appears when you select [File] menu, and then [Meter (1Line)] or [Meter (2Line)].  
Meters for unassigned devices or non-target devices are not displayed.

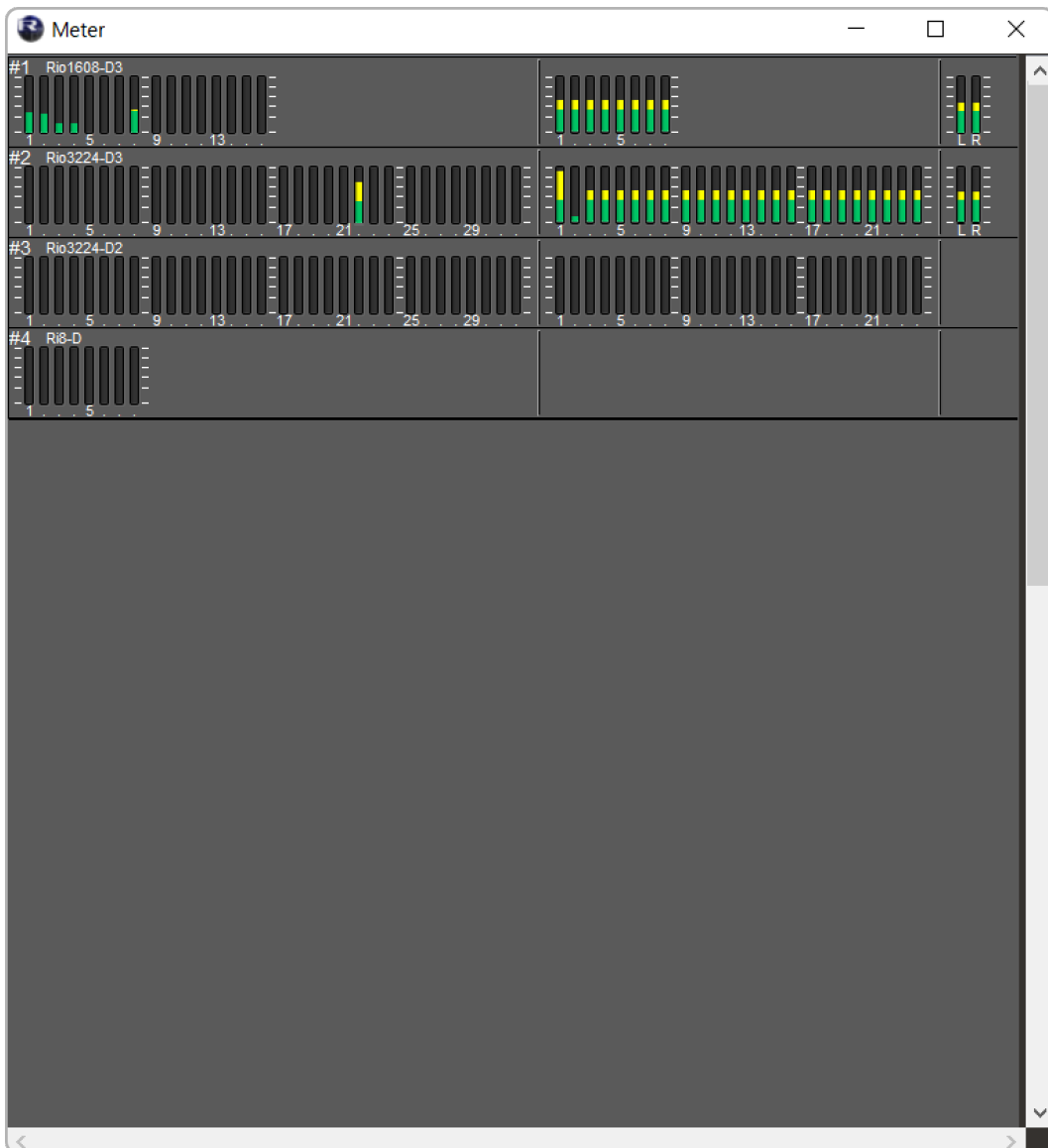
Meters for unassigned devices or non-target devices are not displayed.

### **NOTE**

For the [RUio16FLX-D](#), meters for channels other than those assigned for INPUT appear grayed-out.

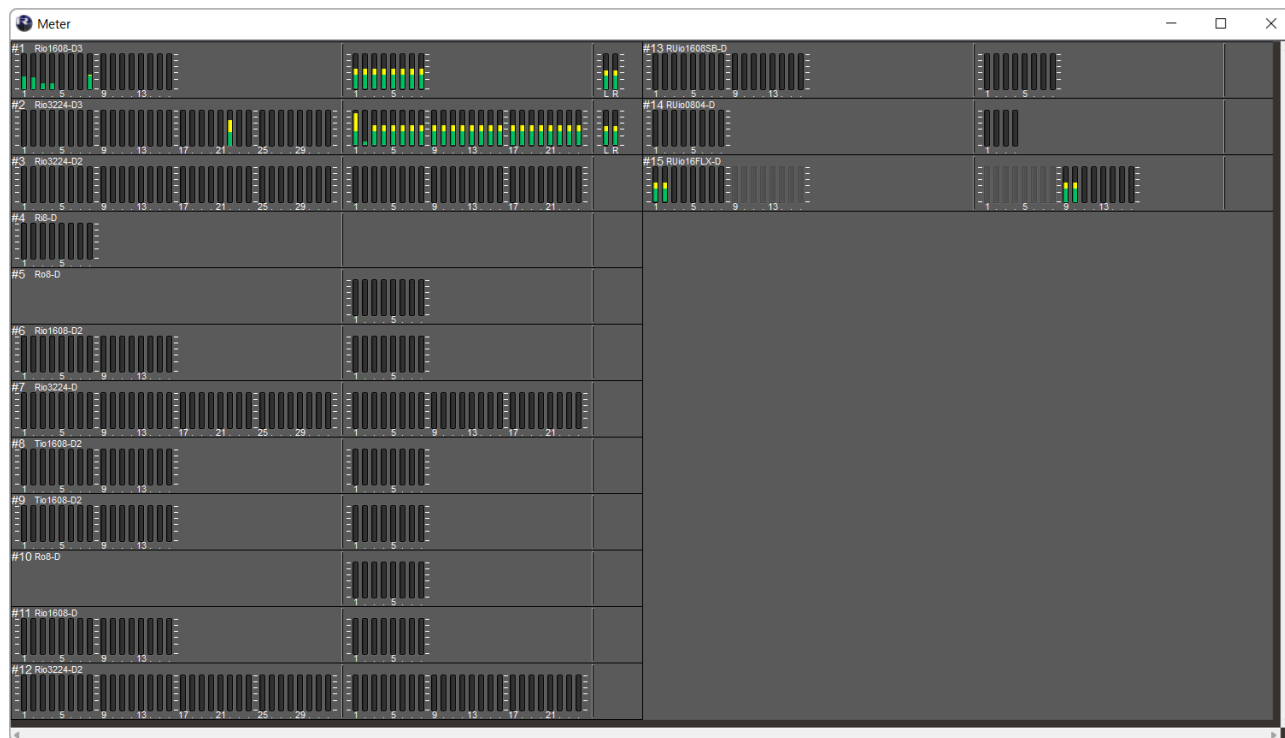
### 1-column display mode (Meter (1Line))

When [Meter (1Line)] is selected, the meters for each assigned device are displayed vertically in one column. You can scroll vertically to view all assigned devices (up to 24).



## 2-column display mode (Meter (2Line))

When [Meter (2Line)] is selected, the meters for each assigned device are displayed vertically in two columns. In this mode, you can view all devices without scrolling.



# Updating the Firmware

This guide explains the procedure for updating firmware using R Remote (V7.0).

## Precautions

Note that the device may be damaged if you fail to follow these instructions properly, or turn off the device or disconnect the cable while the update is in progress.

## Updating – Operation Overview

- 1 [Verify that your computer meets the updating requirements of the firmware.](#) (Page 4)



- 2 [Connecting the Computer to the Device.](#) (Page 44)



- 3 [Configure the network settings.](#) (Page 15)

**NOTE**

To update the [RMio64-D](#) firmware, IPv6 must be enabled on the computer.



- 4 [Update.](#) (Page 48)

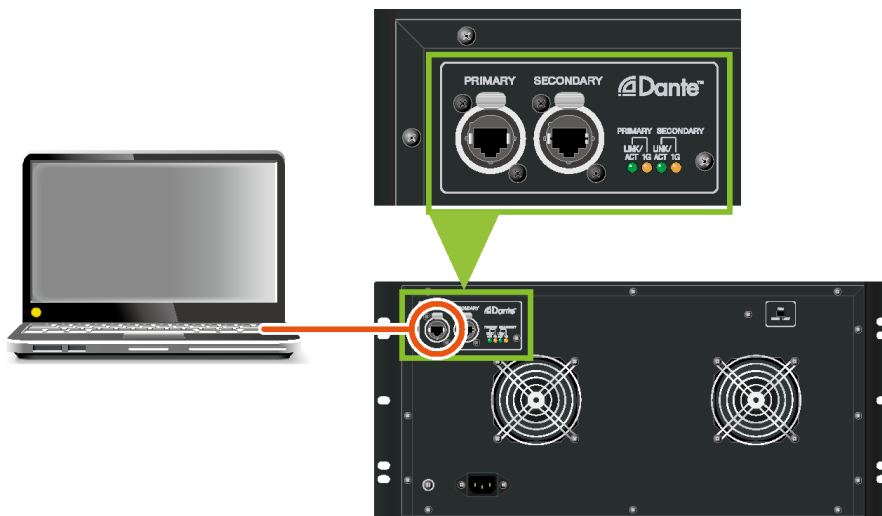
## Connecting the Computer to the Device

Connect your computer directly to the Dante [PRIMARY] connector of the device to update.

For [Rio3224-D3](#), [Rio1608-D3](#), [RUio1608SB-D](#), [RUio0804-D](#), and [RUio16FLX-D](#), if you are using the network connector for control, you can continue to use the network connector.

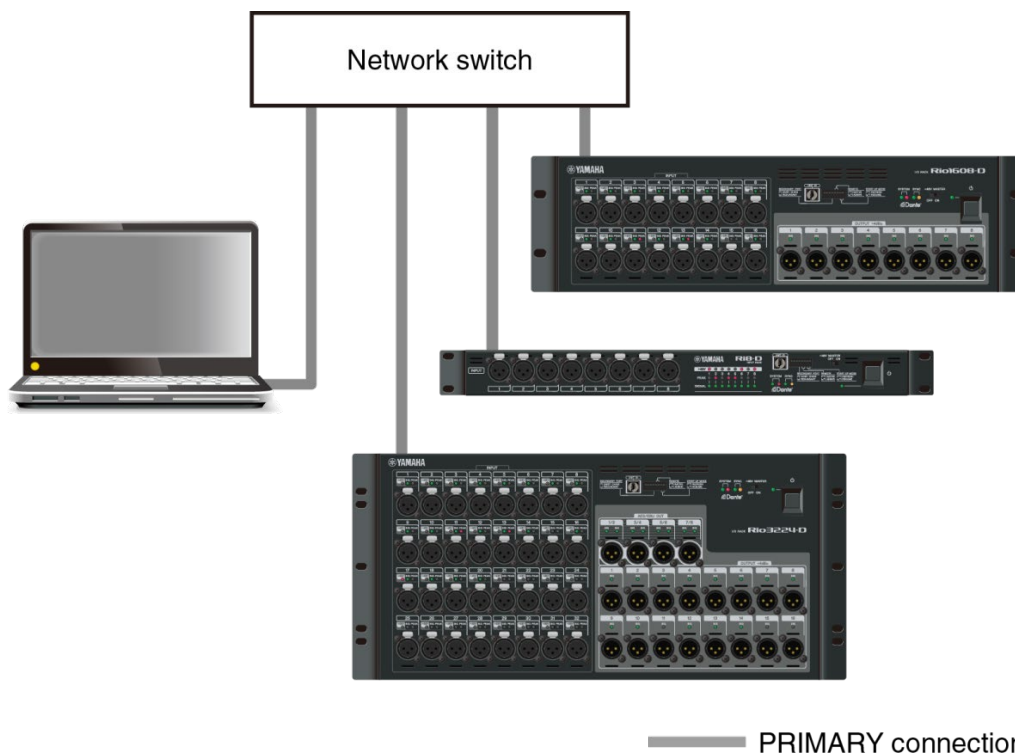
### NOTE

- Dante firmware cannot be updated if the device has been locked with Dante Device Lock. Unlock it from the Dante Controller. Although device firmware can be updated even if locked with Dante Device Lock, the old firmware version before updating is displayed on the Dante Controller and the I/O DEVICE screen of the CL, QL, RIVAGE PM, DM7, DM5, DM3 until the device is unlocked.
- When the device to be updated is a domain member of the DANTE DOMAIN MANAGER, unenroll the device from the DOMAIN, then connect the device and the computer to the same subnet.



This figure is a connection example of the Rio3224-D.

You can perform the update, even when several sets of devices exist on a DANTE Network.



# Network Settings

When setting up, refer to the description in the “[Specify the computer's IP address.](#)”  
If the device is controllable from R Remote, you can perform the update.

For specific instructions and cautions when connecting the devices, refer to the following web site:  
<https://www.yamahaproaudio.com/>

## R Remote Firmware Updater

In this screen, you can update the device firmware.

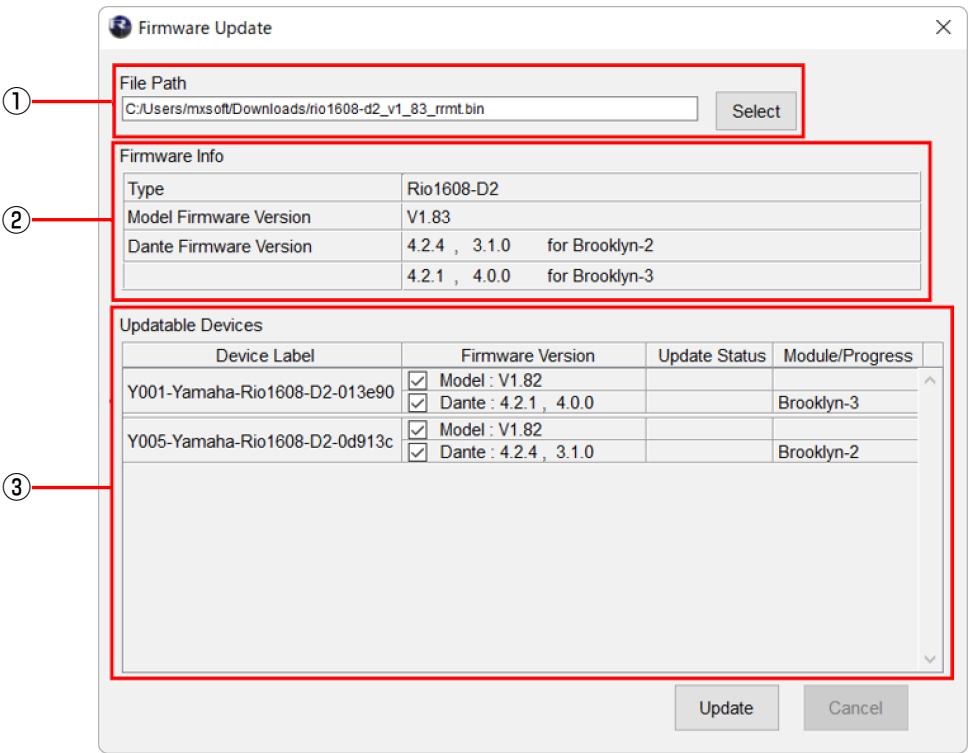
Each model features main unit firmware and Dante firmware. On some models, the main unit firmware and Dante firmware are separate components; on other models, they are integrated into a single component. In either case, use R Remote to update the firmware with a single update file (.bin).

|                                                                      |                                                                                                       |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Models with separate firmware components for the main unit and Dante | Rio3224-D, Rio1608-D, Ri8-D, Ro8-D, RSio64-D, RMio64-D, Rio3224-D2, Rio1608-D2, Tio1608-D, Tio1608-D2 |
| Models with integrated firmware for the main unit and Dante          | Rio3224-D3, Rio1608-D3, RUio1608SB-D, RUio0804-D, RUio16FLX-D                                         |

**NOTE**

- For models that feature integrated firmware for the main unit and Dante, Dante firmware information does not appear on the R Remote Firmware Updater screen.
- When the device to be updated is a domain member of the DANTE DOMAIN MANAGER, the device’s Dante firmware cannot be updated.

Below are the windows of the R Remote Firmware Updater that appear when updating the firmware.



When loading firmware including Brooklyn2 and Brooklyn3

### ① File Path (File selection area)

Select the firmware file to be updated (displayed here).

#### **NOTE**

[Tio1608-D2](#) shares files with Tio1608-D. Firmware prior to V2 cannot be updated. When updating [Tio1608-D2](#), make sure the Tio1608-D Compatibility Mode is disabled.

### ② Firmware Info (File information area)

Displays information of the selected firmware.

### ③ Updatable Devices (Device information area)

Displays information about the devices to be updated.

Displays the device label, the firmware version (Model and Dante) and the status. When the device is a domain member of the DANTE DOMAIN MANAGER, the Dante firmware version is not displayed since the information cannot be retrieved.

#### **NOTE**

For [Rio3224-D3](#) and [Rio1608-D3](#), the Dante firmware version is not displayed in the Firmware Version column, nor is the Dante information displayed in the Module/Progress column.

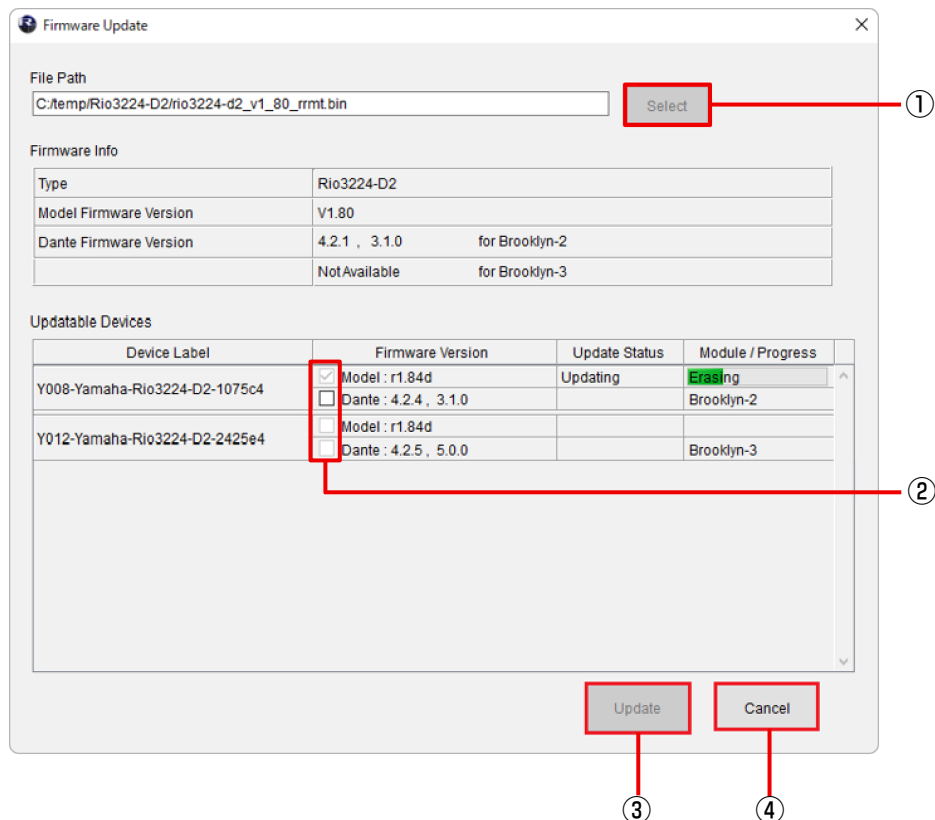
- The Update Status column displays the following information.

| Message   | Meaning                                                |
|-----------|--------------------------------------------------------|
| Waiting   | Waiting for start of update                            |
| Updating  | Update currently in progress                           |
| Cancelled | Update was cancelled.                                  |
| Finished  | Update has finished. The device needs to be restarted. |
| Completed | Update has finished and been confirmed.                |
| Failed    | Update has failed.                                     |

- The “Module / Progress” column of each firmware displays the following information.

|                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model:</b>                                                                                                                     | <a href="#">Rio3224-D3</a> , <a href="#">Rio1608-D3</a> :<br>Transferring (transferring data) → Writing (displays the module type)<br><a href="#">RMio64-D</a> :<br>Writing<br><a href="#">Rio3224-D2</a> , <a href="#">Rio1608-D2</a> , <a href="#">Rio3224-D</a> , <a href="#">Rio1608-D</a> , <a href="#">RSio64-D</a> , <a href="#">Ri8-D</a> , <a href="#">Ro8-D</a> , <a href="#">RUio1608SB-D</a> , <a href="#">RUio16FLX-D</a> , <a href="#">RUio0804-D</a> , <a href="#">Tio1608-D2</a> , <a href="#">Tio1608-D</a> :<br>Erasing → Transferring (and writing) |
| <b>Dante:</b><br>(The information appears only for models that feature separate firmware components for the main unit and Dante.) | When loading the device:<br>Brooklyn2/Brooklyn3 (displays the module type)<br>Updating:<br>Transferring → Writing                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**NOTICE** Do not turn off the device or disconnect the cable while the update is in progress. The device may be damaged if you fail to follow these instructions properly.



When loading firmware including only Brooklyn2

### ① [Select] button

Selects the file including the device firmware and the Dante firmware to be updated. The file contains firmware for the device itself and for Dante.

| Models                                                                         | File Name                |
|--------------------------------------------------------------------------------|--------------------------|
| Rio3224-D3, Rio1608-D3                                                         | Rio-D3_firmware_v*.*.bin |
| Rio3224-D, Rio1608-D, Ri8-D, Ro8-D, RSio64-D, RMio64-D, Rio3224-D2, Rio1608-D2 | xxxx_v*_*_*_rrmt.bin     |
| RUio1608SB-D, RUio0804-D, RUio16FLX-D                                          | RUio-D_firmware_V*.*.bin |
| Tio1608-D, Tio1608-D2                                                          | tio-d_v*_*_*_rrmt.bin    |

The characters “xxxx” represent the product name and “\*\_\*\_\*” (or \*.\*.\*) represents the firmware version number (e.g., “rio3224-d\_v4\_10\_rrmt.bin”).

#### **NOTE**

The [Select] button is occasionally grayed-out and you cannot select the firmware. This may happen when network interface for Dante is not configured correctly. In this case, from Dante Controller, select your network interface in the Configure Dante Interfaces dialog, and make sure that the devices are shown in Dante Controller.

### ② Checkbox

Selects the device firmware (Model) and/or the Dante firmware with each device to be updated.

#### **NOTE**

- For devices with a Dante module that are displayed as Not Available in Dante firmware in the Firmware Info (file information area), the check boxes are grayed out because the model firmware cannot be updated.
- For the Rio3224-D3 and Rio1608-D3 units running firmware version V1.03 or earlier, updating the firmware via R Remote V7.0 is not supported; consequently, the checkbox is grayed out and cannot be selected. For more information, refer to the list of supported models and versions.

### ③ [Update] button

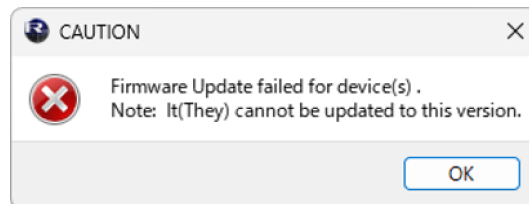
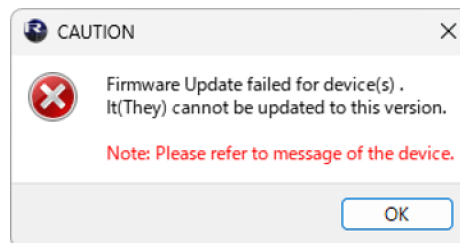
Starts the update process.

**NOTE**

In **Rio3224-D2** and **Rio1608-D2**, the change correspondence of the board is implemented by V1.80 or later of the main body firmware (Model). Therefore, if the version is V1.80 or later, it may not be possible to downgrade to a lower version., and under that condition, the check box cannot be selected. In that case, after pressing the [Update] button, a message will be displayed stating that the downgrade cannot be performed.

**NOTE**

**Tio1608-D2** cannot be downgraded below V2.0. After pressing the [Update] button, a message will be displayed stating that the downgrade cannot be performed.

**④ [Cancel] button**

Stops the update operation of the device that has not been updated yet.

## Update operation

---

This section describes how to update the firmware.

Firmware files can be downloaded from the following website:

<https://www.yamahaproaudio.com/>

**1.** Start R Remote. Choose [Tool] > [Firmware Update] from the menu of R Remote.

Firmware Updater starts up.

**2.** (In the case of **RMio64-D**) Quit the NUAGE Workgroup Manager if it is running.

**3.** Press the [Select] button and select the firmware to be updated.

Devices that can be updated appear in the device information area.

**NOTE**

Assign the identical subnet to the device's IP address and the computer's IP address. For models that feature separate main unit firmware and Dante firmware components, you also need to assign the identical subnet to the Dante module's IP address. If you are using static IP addresses or IP addresses assigned by the DHCP server, check the IP address setting.

**NOTE**

When you select an old firmware which is not supported by R Remote, "invalid file" appears and the update cannot be started.

**NOTE**

If the firmware of the device is an older version than the firmware file, the checkbox for its device will be automatically checked. If the firmware of the device is a newer version or a same version, you will need to check the checkbox of the firmware to update manually.

**NOTE**

When the firmware to be updated is selected, the "RRMT\_\*\*\*\*" folder is temporarily generated under your user folder of the computer. Do not move or delete this folder and its contents since these folders and files are used for updating. These folders and files are automatically deleted when you close the "R Remote Firmware Updater."

**4.** Press the [Update] button to start the update.

**5.** When the update is complete, a popup window appears. Press the [OK] button.

**6.** To enable the new firmware, turn the updated device off and then on again.

If updated correctly, [Update Status] on the R Remote Firmware Updater will change from "Finished" to "Completed."

## Detecting the device

---

If you select the firmware file, all detected devices on the network that correspond to the file are displayed on the Device



information area.

Also, until the update is actually started, new detected devices corresponding to the file are added to the list as needed.

Conversely, when a device is missing or disconnected due to the cable having been unplugged or some other reason, a "disconnected" indication is shown on the Firmware Version column of the device.

## In case of failure in updating the firmware

|                  |                                                                                                                                                                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported Models | <a href="#">Rio3224-D2</a> , <a href="#">Rio1608-D2</a> , <a href="#">Rio3224-D</a> , <a href="#">Rio1608-D</a> ,<br><a href="#">RMio64-D</a> , <a href="#">RSio64-D</a> , <a href="#">Ri8-D</a> , <a href="#">Ro8-D</a> , <a href="#">Tio1608-D2</a> , <a href="#">Tio1608-D</a> |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Even if the update has failed, you can update the firmware again after R Remote detects the device. However, when a device is turned off while the update is in progress, the device cannot be started up, and it will not be shown on the Device information area of R Remote, making it necessary to take the following actions for each problem.

### When the device name is shown in red on the network grid view of the Dante Controller

→ Dante firmware has entered failsafe mode. Restore the Dante firmware and import and update the latest Dante firmware using Dante Updater that comes with the Dante Controller.

1. You can obtain the Dante firmware from the firmware file.
2. Open R Remote and perform steps 1 through 3 of the "[Update operation](#)" (first time only).

The "RRMT\_\*\*\*\*" folder is generated below your user folder of the computer.

#### **NOTE**

Do not close the R Remote Firmware Update window until updating by Dante firmware import is complete.

For detailed procedures, please refer to "Fail-Safe Mode" and "Updating the firmware" in the Dante Firmware Update Guide.

### When the device's red indicators light or flash

→ The firmware of the device is damaged. Use R Remote Recovery Updater to update the firmware. Details on updating are as given below.

#### **R Remote Recovery Updater Supported Models**

[Rio3224-D2](#), [Rio1608-D2](#), [Rio3224-D](#), [Rio1608-D](#), [RSio64-D](#), [Ri8-D](#), [Ro8-D](#), [Tio1608-D2](#), [Tio1608-D](#)

#### **NOTE**

Models other than those listed above do not support R Remote Recovery Updater. For more information, contact qualified Yamaha service personnel.

Follow the steps below to update the firmware.

1. Turn off the power to the device.
2. **For DIP switch models, take note of the DIP switch settings of the device.**

[Rio3224-D](#), [Rio1608-D](#), [RSio64-D](#), [Ri8-D](#), [Ro8-D](#), [Tio1608-D2](#), [Tio1608-D](#):

Follow the instructions in step 5 to change DIP switch settings. Take note of the original DIP switch settings in order to restore the settings after the update has been completed.

3. Disconnect the Ethernet cable from the Dante [PRIMARY] connector and [SECONDARY] connector on the rear panel of the device.

4. Connect the Dante [PRIMARY] connector on the rear panel of the device to the Ethernet connector on the computer using an Ethernet cable.
5. Turn on the power as described below.
  - **For Rio3224-D2 and Rio1608-D2 :**  
Turn the device on while holding down the **⏻ (INC) button and the encoder.**
  - **For DIP switch models:**  
Set DIP switch 8 down (ON), the other switches up (OFF), and then turn the device on.

The device starts in Update mode. The device in Update mode shows:

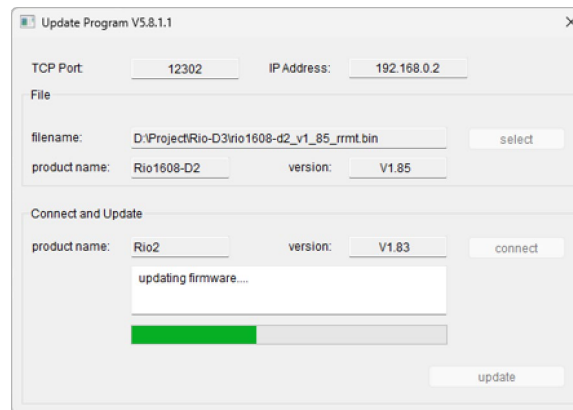
|                                                            |                                                                                                                                       |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rio3224-D2, Rio1608-D2, Rio3224-D, Rio1608-D, Ri8-D</b> | All the +48V indicators start flashing.                                                                                               |
| <b>Ro8-D</b>                                               | The right red [SYSTEM] indicator and the right orange [SYNC] indicator start flashing.                                                |
| <b>RSio64-D</b>                                            | All the red indicators of SLOT and WORD CLOCK, and the right red indicator of SYSTEM and the right orange indicator of SYNC light up. |
| <b>Tio1608-D, Tio1608-D2</b>                               | The STATUS INPUT/OUTPUT indicators start flashing.                                                                                    |

6. Set your computer's IP address and subnet mask.

|              |               |
|--------------|---------------|
| IP address:  | 192.168.0.101 |
| Subnet mask: | 255.255.255.0 |

For details on settings, refer to the instructions in "[Specify the computer's IP address.](#)"

7. Start the R Remote Recovery Updater.



8. Press the [Select] button and select the firmware "**xxxx\_v\*\_\*\*\_rrmt.bin**" to be updated.

**NOTE**

The characters "**xxxx**" represent the product name and "**\*\_\*\***" represents the firmware version number (e.g., "rio3224-d\_v4\_10\_rrmt.bin").

**NOTE**

When you select an old firmware file which is not supported by R Remote, an "invalid file" message appears and you cannot update the firmware. In this situation, use the exclusive update software for each product which is compressed with the old firmware. For details on updating, refer to the update guide for the exclusive update software for each product.

9. Press the [Connect] button.

The device name and the firmware version are displayed in the "Connect and Update" column.

10. Press the [Update] button to start the update.

"Updating firmware...." appears while updating.

11. After the update is complete, close the R Remote Recovery Updater.

When the update is complete, “Update was completed. Close this Update Program.” appears.

**12.** Turn off the power to the device.

**13.** For DIP switch models, restore the DIP switches to their original settings.

## Messages

The following error, warning, and confirmation messages may be displayed on the popup window. Please follow the instructions.

### ■ Error messages

| Message                                                                                                                                                         | Possible cause                                                                                                                                                                             | Action                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cannot unpack the file.<br>File path may be too long.<br>Make sure that the file path is less than 260 characters.                                              | Failed the temporary unpacking of the firmware file. File path may be too long.                                                                                                            | Make sure that the file path is less than 260 characters.                                                                                                                                                                                                                                                                                                                                                      |
| Cannot unpack the file.<br>User directory cannot be edited.<br>Make sure that edits to this directory are permitted.                                            | Failed the temporary unpacking of the firmware file. User directory cannot be edited.                                                                                                      | Make sure that edits to this directory are permitted.                                                                                                                                                                                                                                                                                                                                                          |
| Invalid file.<br>Select a valid file.                                                                                                                           | Invalid file or unsupported file was selected. The firmware file for R Remote contains the device firmware and the Dante firmware, unlike in previous files before R Remote was supported. | Select a valid firmware file. You can find "-rrmt" in a file name of the firmware file supported by R Remote.                                                                                                                                                                                                                                                                                                  |
| Unexpected error occurred.<br>Please restart the R Remote software and try again.                                                                               | Unexpected error occurred.                                                                                                                                                                 | Restart the R Remote software and try again.                                                                                                                                                                                                                                                                                                                                                                   |
| Dante Control and Monitoring service not found.<br>Make sure that the Dante Controller is installed and the service is running. Then restart R Remote software. | Dante Control and Monitoring service is not running.                                                                                                                                       | Make sure that the Dante Controller is installed and the service is running. Then restart R Remote software.                                                                                                                                                                                                                                                                                                   |
| Firmware update failed for device(s).<br>Check network connection and try again.                                                                                | Firmware update failed for device(s).                                                                                                                                                      | <div>Check the network settings (page <a href="#">15</a>) and network connection, and then try again.</div> <div>If the device has been locked with Dante Device Lock, unlock it from the Dante Controller, and then try again.</div> <div>If the device is connected to your computer via a network, connect your computer directly to the Dante [PRIMARY] connector of the device, and then try again.</div> |
| Dante Network Setting Failed.<br>Check Dante Interfaces and try again.                                                                                          | Network settings for Dante Firmware Update has failed.                                                                                                                                     | Change the Dante network settings using the Dante Controller. Refer to "Dante Controller User's Guide" for details.                                                                                                                                                                                                                                                                                            |

### ■ Warning Messages

| Message                                                | Cause and action                                                                    |
|--------------------------------------------------------|-------------------------------------------------------------------------------------|
| Update in progress.<br>Wait until update is completed. | The Close button [X] was pressed during the update. Wait until update is completed. |

## ■ Confirmation Messages

| Message                                                               | Cause and action                                                                                                                                                                                     |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cancel update?<br>This will cancel the update of all waiting devices. | The [Cancel] button was pressed during the update. Press the [Yes (Y)] button to cancel the update or press the [No (N)] button to continue the update.                                              |
| Close?<br>One or more devices have not been updated yet.              | The Close button [X] was pressed while one or more devices which failed the update exists. Press the [Yes (Y)] button to quit R Remote or press the [No (N)] button to continue the update.          |
| Select file?<br>One or more devices have not been updated yet.        | The [Select] button was pressed while one or more devices which failed the update exists. Press the [Yes (Y)] button to select a firmware file or press the [No (N)] button to cancel the selection. |

## ■ Other Messages

| Message                                 |
|-----------------------------------------|
| New updatable device found.             |
| Firmware update successfully completed. |

## Troubleshooting

| Problem                                                          | Possible cause                                                                                    | Action                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The device is not connected.                                     | The device's power switch is not on.                                                              | Turn the power switch on.                                                                                                                                                                                                                                        |
|                                                                  | The device's DIP switch settings are incorrect.                                                   | Refer to " <a href="#">Set on the devices</a> ," and make the appropriate settings.                                                                                                                                                                              |
|                                                                  | The cables are not connected properly.                                                            | If the orange [SYNC] indicator is blinking, the cable is either broken or not connected correctly. Connect the cable correctly.                                                                                                                                  |
|                                                                  |                                                                                                   | If you're using REDUNDANT mode, connect to the network switch that is connected to the [PRIMARY] connector.                                                                                                                                                      |
|                                                                  | The computer's IP address setting is incorrect.                                                   | Set the computer's IP address to match the device's DIP switch setting.                                                                                                                                                                                          |
|                                                                  | Network card selection is incorrect.                                                              | In the " <a href="#">Network Setup</a> " dialog box, select the network card that communicates with the device.                                                                                                                                                  |
|                                                                  | Firmware is old.                                                                                  | Update the firmware to the version supported by R Remote using exclusive update software for each product. For information about the firmware version which is supported by R Remote, refer to " <a href="#">System Requirements and Operating Conditions</a> ." |
|                                                                  | The R series unit is in AD8HR mode.                                                               | Set DIP switches 5 and 6 in the upward position to select NATIVE mode.                                                                                                                                                                                           |
|                                                                  | The device is connected to a different subnet from the computer due to DANTE DOMAIN MANAGER, etc. | Connect the device and the computer to the same subnet.                                                                                                                                                                                                          |
| Audio is not input / Input level is low.                         | HA gain is not at an appropriate level.                                                           | Set the HA gain to an appropriate level.                                                                                                                                                                                                                         |
|                                                                  | The external device is not outputting a signal.                                                   | Output a signal from the source device and make sure that the SIG indicators on the appropriate channels will light.                                                                                                                                             |
|                                                                  | Phantom power is not being supplied even though a condenser microphone is connected.              | Turn the [+48V ACTIVE] switch* ON. (* [+48V MASTER] appears for a device other than the Tio1608-D2, Rio3224-D3, or Rio1608-D3, or the Tio1608-D2 is being used in Tio1608-D Compatibility Mode.)                                                                 |
|                                                                  |                                                                                                   | Turn phantom power on for the corresponding channel.                                                                                                                                                                                                             |
|                                                                  | REFRESH mode is selected with the CL, QL, RIVAGE PM, DM7, DM5, DM3 series not connected.          | Select RESUME mode.                                                                                                                                                                                                                                              |
| Adjusting the HA gain does not change the audio level.           | Gain compensation is on.                                                                          | If you don't need gain compensation, turn gain compensation off.                                                                                                                                                                                                 |
| [UNIT ID] rotary switch and DIP switch settings are not applied. | The settings were changed while the power was on.                                                 | Turn off the power before changing the settings.                                                                                                                                                                                                                 |
| The device is not recognized.                                    | Communication is blocked by the Windows firewall.                                                 | Perform the following procedure so that R Remote is not blocked by the Windows firewall.                                                                                                                                                                         |
|                                                                  |                                                                                                   | <ol style="list-style-type: none"> <li><a href="#">Open Control Panel</a>.</li> <li>In the upper right, set "View by" to [Category].</li> </ol>                                                                                                                  |

|                                                                                    |                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    |                                                                                                                    | <p>3. Click [System and Security].</p> <p>4. Click [Allow an app through Windows Firewall].</p> <p>5. In "Allowed apps and features," select the checkbox for "Yamaha R Remote" and also select the checkbox at the right.</p> <p>6. Click the [OK] button to close Control Panel.</p>                                                                                                                                                                                                                                                               |
| The device is unexpectedly disconnected.                                           | (Mac) App Nap is not disabled.                                                                                     | Select the [Prevent App Nap] checkbox.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                    | The computer has entered sleep mode.                                                                               | Set the computer so that it does not enter sleep mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| The device to be updated is not displayed.                                         | The Ethernet cable is not properly connected.                                                                      | Directly connect the computer to the Dante PRIMARY connector of the device using an Ethernet cable. When you want to update the firmware via a network, check the connection between the devices to be updated and the computer to which R Remote is installed via a network (page <a href="#">44</a> ).                                                                                                                                                                                                                                             |
|                                                                                    | The network settings are not correct.                                                                              | Make the network settings according to the instructions in the " <a href="#">Specify the computer's IP address.</a> " For the <a href="#">RMio64-D</a> , enable the IPv6 on the computer which is used to operate R Remote.                                                                                                                                                                                                                                                                                                                          |
|                                                                                    | The firmware file for updating is not selected.                                                                    | Select the firmware file for updating (page <a href="#">45</a> ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                    | The DIP switches of the device are not set up correctly.                                                           | Refer to the " <a href="#">Set on the devices.</a> " For devices other than the <a href="#">RMio64-D</a> , turn the device on with DIP switches 7 and 8 up when you update the device. Make sure to change the DIP switches' settings only after the device's power has been turned off.                                                                                                                                                                                                                                                             |
|                                                                                    | The network card that communicates with the device is not selected on the computer to which R Remote is installed. | Select a network card for communication with the device from the " <a href="#">Network Setup</a> " dialog box.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                    | Communication is blocked by the Windows firewall.                                                                  | <p>Perform the following procedure so that R Remote is not blocked by the Windows firewall.</p> <ol style="list-style-type: none"> <li>1. <a href="#">Open Control Panel.</a></li> <li>2. In the upper right, set "View by" to [Category].</li> <li>3. Click [System and Security].</li> <li>4. Click [Allow an app through Windows Firewall].</li> <li>5. In "Allowed apps and features," select the checkbox for "Yamaha R Remote" and also select the checkbox at the right.</li> <li>6. Click the [OK] button to close Control Panel.</li> </ol> |
|                                                                                    | The device is connected to a different subnet from the computer due to DANTE DOMAIN MANAGER, etc.                  | Connect the device and the computer to the same subnet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Update failed.                                                                     | The device to be updated is locked by Dante Device Lock.                                                           | Unlock the Dante Device Lock of the device.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                    | ---                                                                                                                | Refer to " <a href="#">Messages</a> " to solve the problem.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| The [Select] button is occasionally grayed-out and you cannot select the firmware. | A network interface for Dante is not configured correctly.                                                         | Select your network interface in the Configure Dante Interfaces dialog from Dante Controller, and make sure that the devices are shown in Dante Controller.                                                                                                                                                                                                                                                                                                                                                                                          |

