YAMAHA

AUDIO INTERFACE
INTERFACE AUDIO
INTERFAZ DE AUDIO
АУДИОИНТЕРФЕЙС
音频界面
신호변 환장치
オーディオインターフェース

RUio16-D

EN **Owner's Manual**

DE **Benutzerhandbuch**

FR **Mode d'emploi**

ES **Manual de instrucciones**

PT **Manual do Proprietário**

IT **Manuale di istruzioni**

RU **Руководство пользователя**

ZH **使用说明书**

KO **사용설명서**

JA **取扱説明書**

About VST Rack
https://www.yamaha.com/2/vst_rack

English
Deutsch
Français
Español
Português
Italiano
Русский
中文
한국어
日本語

FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!
This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA

3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

- Relocate either this product or the device that is being affected by the interference.
- Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.
- In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you cannot locate the appropriate retailer, please contact Yamaha Corporation of America, 6600 Orangethorpe Ave., Buena Park, CA90620, USA.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

(529-M04 FCC class B YCA 01)

COMPLIANCE INFORMATION STATEMENT
(Supplier's declaration of conformity procedure)

Responsible Party :	Yamaha Corporation of America
Address :	6600 Orangethorpe Ave., Buena Park, Calif. 90620
Telephone :	714-522-9011
Type of Equipment :	AUDIO INTERFACE
Model Name :	RUio16-D

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
1) this device may not cause harmful interference, and
2) this device must accept any interference received including interference that may cause undesired operation.

* This applies only to products distributed by Yamaha Corporation of America. (FCC SDoC)

IMPORTANT

Please record the serial number of this unit in the space below.

Model RUio16-D

Serial No.

The serial number is located on the bottom or rear of the unit. Retain this Owner's Manual in a safe place for future reference.

* This applies only to products distributed by Yamaha Corporation of America. (Ser.No)

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe place for future reference.

⚠ WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

If you notice any abnormality

- If any of the following problems occur, immediately unplug the USB cable from the computer.
  - The USB cable becomes frayed or damaged.
  - Unusual smells or smoke are emitted.
  - Some object, or water has been dropped into the product.
  - There is a sudden loss of sound during use of the product.
  - Cracks or other visible damage appear on the product.

  Then have the product inspected or repaired by qualified Yamaha service personnel.

Do not open

- This product contains no user-serviceable parts. Do not attempt to disassemble the internal parts or modify them in any way.

Water warning

- Do not expose the product to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

Fire warning

- Do not place any burning items or open flames near the product, since they may cause a fire.

Hearing loss

- Before turning the power of all devices on or off, make sure that all volume levels are set to the minimum. Failing to do so may result in hearing loss, electric shock, or device damage.
- When turning on the AC power in your audio system, always turn on the power amplifier LAST, to avoid hearing loss and speaker damage. When turning the power off, the power amplifier should be turned off FIRST for the same reason.
- Do not use headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

⚠ CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others. These precautions include, but are not limited to, the following:

Location and connection

- Do not place the product in an unstable position or a location with excessive vibration, where it might accidentally fall over and cause injury.
- Keep this product out of reach of children. This product is not suitable for use in locations where children are likely to be present.
- If the product is mounted in a rack, carefully read the section “Installing in a Rack” on page 19. Inadequate ventilation can result in overheating, possibly causing damage to the product(s), malfunction, or even fire.
- Do not place the product in a location where it may come into contact with corrosive gases or salt air. Doing so may result in malfunction.
- Before moving the product, remove all connected cables.

Maintenance

- Remove the USB cable from the computer when cleaning the product.

Handling caution

- Do not rest your weight on the product or place heavy objects on it.

NOTICE

To avoid the possibility of malfunction/damage to the product, damage to data, or damage to other property, follow the notices below.

Handling and maintenance

- Do not connect this product to a public Wi-Fi and/or Internet service directly. Only connect this product to the Internet through a router with strong password protections. Consult your router manufacturer for information on optimum security practices.
- Do not use the product in the vicinity of a TV, radio, or other electric products. Otherwise, the product, TV, or radio may generate noise.
- Do not expose the product to excessive dust or vibration, or extreme cold or heat, in order to prevent the possibility of panel disfiguration, unstable operation, or damage to the internal components.
- Do not install in locations where temperature changes are severe. Otherwise, condensation may form on the inside or the surface of the product, causing it to break.
- If there is reason to believe that condensation might have occurred, leave the product for several hours without turning on the power until the condensation has completely dried out, in order to prevent possible damage.
- Do not place vinyl, plastic or rubber objects on the product, since this might cause alteration or discoloration of the panel.
- When cleaning the product, use a dry and soft cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths, since this might cause alteration or discoloration.

Information

About functions bundled with the product

- This product uses Dante Broadway. Refer to the Audinate website (English) for details on the open source licenses for the particular software. https://www.audinate.com/software-licensing
- XLR-type connectors are wired as follows (IEC60268 standard): pin 1: ground, pin 2: hot (+), and pin 3: cold (-).

About this manual

- The illustrations as shown in this manual are for instructional purposes only.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.
- VST and eLicenser are registered trademarks of Steinberg Media Technologies GmbH.
- Software may be revised and updated without prior notice.

About disposal

- This product contains recyclable components. When disposing of this product, please contact the appropriate local authorities.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the product, or data that is lost or destroyed.

The model number, serial number, power requirements, etc., may be found on or near the name plate, which is at the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

Model No.

Serial No.

(bottom_en_01)

Contents

PRECAUTIONS **3**
NOTICE 4
Information 5
Introduction **7**
Main Features **7**
How This Manual is Organized 7
Included Accessories (Please Check) 7
VST Rack 8
Yamaha Steinberg USB Driver 8
Dante Controller 8
Updating the Firmware 8
Panel Controls and Functions **9**
Before Using This Product **14**
Using with USB Bus Power 14
Using with a USB Power Adaptor or USB Mobile Battery 14
Basic Operations **15**
Example Using Analog Input/Output 15
How to Connect via Dante **17**
Daisy Chain Network 17
Star Connection 17
Attaching the Cable Hook **18**
Attaching the Rubber Feet **18**
Installing in a Rack **19**
Restoring the Factory Default Settings (Initialization) **20**
Messages **20**
General Specifications **22**
Dimensions **23**

Introduction

Thank you for purchasing the RUio16-D audio interface. This product is for use by sound engineers, and uses VST plug-ins to expand the effects used by mixers. Make sure to read through this Owner's Manual before using this product to make effective use of its various features. Also, make sure to keep this manual on hand after you have read it.

Main Features

• Dante-Analog-USB audio interface

This product features 16 Dante input/outputs and two analog input/outputs, and a maximum of 16 inputs can be selected to transmit data to a computer via USB. It can be used for a wide variety of applications, such as acoustic measurement utilizing the +48V phantom power built into the analog inputs, outputting audio via Dante processed with effects by a computer to a mixer to create a plug-in system and so on.

• Rock-solid housing

This product features a compact yet rock-solid housing, designed to stand up to the rigors of touring. EtherCON has been added to the Dante input/output connectors, and the analog input jacks use an XLR design with latch. The USB-C port also features a locking mechanism to minimize the risk of trouble due to cables getting yanked out.

• Highly reliable plug-in solutions made possible

Along with the use of the Yamaha software-based VST Rack, this product makes it possible to build a highly stable plug-in environment. In the event that a problem occurs with the VST Rack, the unit will automatically bypass the audio processing on the plug-in side, which prevents any trouble that might stop the sound on the entire system.

How This Manual is Organized

Owner's Manual (this book)

This manual explains how to set up the unit and use its basic operations.

VST Rack User's Guide (HTML)

This guide explains how to use the VST Rack application software.

https://manual.yamaha.com/pa/app/vst_rack/

Included Accessories (Please Check)

- USB 2.0 cable (type-A to type-C, 1.5 m) × 1
- USB 2.0 cable (type-C to type-C, 1.5 m) × 1
- Cable hook (refer to "Attaching the Cable Hook," page 18) × 1
- Rubber feet × 4
- Owner's Manual (this book, including warranty) × 1
- VST Rack Pro Download Information (leaflet) × 1

VST Rack

VST Rack is an application that lets you build a software plug-in rack in combination with the RUio16-D. The software can also be used to configure the settings of this unit.
Before using this product, download and install the VST Rack software from the website shown below onto your computer.

https://www.yamaha.com/2/vst_rack/

You will need to create a "My Steinberg" account to download the VST Rack. See the website for details.

NOTE

A download access code is required to download this software. The download access code is shown in the "VST Rack Download Information" leaflet, included with this product.

Read the "VST Rack User's Guide" to learn about the functions and how to use this software.

Yamaha Steinberg USB Driver

This software is for exchanging data between this product and your computer.

The Yamaha Steinberg USB Driver is included in the downloadable VST Rack package.

Dante Controller

Dante Controller is an application for configuring a Dante network and for routing audio. Use Dante Controller when connecting to or configuring devices that support Dante. This software is available from the Audinate website.

At a minimum, you will need to make the following settings with the Dante Controller.

- Redundant/daisy chain settings
- Input/output patching settings
- Clock leader settings
- Sampling frequency settings

See the Dante Controller Owner's Manual for more information on this software.

Updating the Firmware

This product uses firmware that can be updated to improve the operability, add functionality and correct issues. Information on any firmware updates (if available) can be found on the following website.

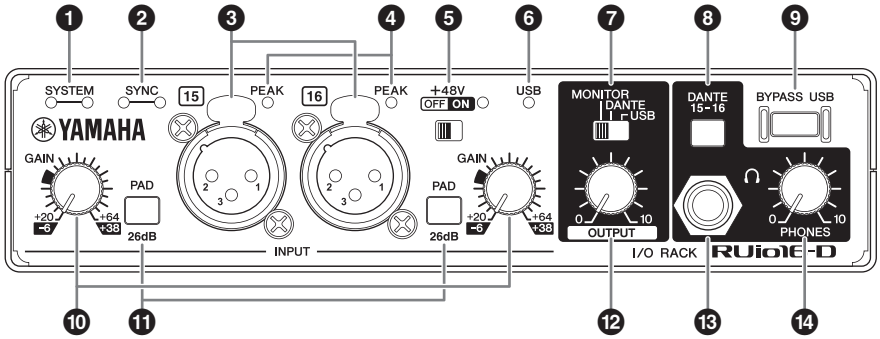
http://www.yamahaproaudio.com/

NOTE

You may need to update the firmware of other devices in your Dante network, depending on the version.

Panel Controls and Functions

Front panel



❶ Dante [SYSTEM] indicators

These indicators show the operating status of this unit.

Indicator display	Operating status
SYSTEM Lights up green	Normal

An abnormality has occurred if you have turned on the power but the green indicator is dark and the red indicator is either lit or flashing. If this happens, refer to “Messages” (page 20).

❷ Dante [SYNC] indicators

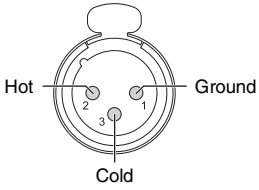
These indicators show the synchronization status of the Dante network and of this unit.

Indicator display	Operating status
SYNC Lights up green	The unit is functioning correctly as the word clock follower.
SYNC Flashes green	The unit is functioning correctly as the word clock leader.

An abnormality has occurred if you have turned on the power but the green indicator is dark and the orange indicator is either lit or flashing. If this happens, refer to “Messages” (page 20).

❸ INPUT [CH15]/[CH16] jacks

These are XLR-type analog input jacks.
The jack polarities are shown below (IEC 60268).



❹ [PEAK] indicators

This indicator lights when the volume of the input sound is too high (when it is only 3 dB before clipping). If the indicator lights frequently, turn the [GAIN] knob to the left to lower the volume.

❺ [+48V] switch

Turns the phantom power (+48V) on (lit) or off (unlit). When you turn this switch on, phantom power will be supplied to the XLR jack connected to the INPUT [CH15]/[CH16] jacks. Turn this switch on when using a phantom powered condenser microphone.

NOTICE

When using phantom power, observe the following to prevent this unit or any external devices from malfunctioning, or from noise being generated.

- **Do not connect or disconnect any devices while the phantom power switch is turned on.**
- **Set the [OUTPUT] knob to the minimum setting before turning the phantom power switch on/off.**
- **When connecting devices not requiring phantom power to the INPUT [CH15]/[CH16] jacks, make sure to turn the phantom power switch off.**

NOTE

When the phantom power switch is turned on/off, the input signals from INPUT [CH15]/[CH16] will be muted for several seconds.

❻ [USB] indicator

This indicator lights up when the power is turned on and the unit is able to communicate with the computer. The indicator blinks when the unit cannot communicate with the computer.

❼ [MONITOR/DANTE/USB] switch

This switch lets you select the signal to be output to the OUTPUT jacks.

MONITOR	USB from PC (MONITOR L/R (17/18))
DANTE	Dante input 15/16
USB	USB from PC 15/16

If the unit is not connected to a computer, the [USB] setting outputs the Dante 15/16 or INPUT 15/16 signals, and the [MONITOR] setting outputs the INPUT 15/16 signals.

❽ [DANTE 15-16] switch

This switch lets you select the signal to be output to the PHONES jack.

Switched on	Dante input 15/16
Switched off	USB from PC (MONITOR L/R (17/18))

If the unit is not connected to a computer, the INPUT 15/16 signals are output when this is switched off.

❾ [BYPASS USB] switch

When this is turned on, input/output to and from the computer will be bypassed and the audio will be output as-is without going through the computer. This reduces noises that may occur if VST Rack has stopped operating or if incorrect audio data has been output due to a problem with your computer.
The switch will light red when bypass is active.

NOTE

- In combination with VST Rack, this offers a function for detecting any abnormalities that may have occurred on the computer and automatically turning the bypass on.
- The unit continuously operates in bypass mode when not connected to a computer.

About output

When this unit is starting up and you press the [BYPASS USB] switch, the signal from the computer can be output once the switch's light turns off.

The unit is continuously in bypass mode when not connected to a computer.

⑩ [GAIN] knob

Adjusts the input signal level from the INPUT jacks.

⑪ [PAD] switch

When this is turned on, the levels of sound inputted to this unit will be attenuated. Turn this on if the sound is distorting or if the [PEAK] indicators are lighting up.

NOTE

A noise may be heard when you operate this switch. Set the [GAIN] knob to minimum (0) before using this switch.

⑫ [OUTPUT] knob

Adjusts the output signal level from the [OUTPUT +4dBu] jacks.

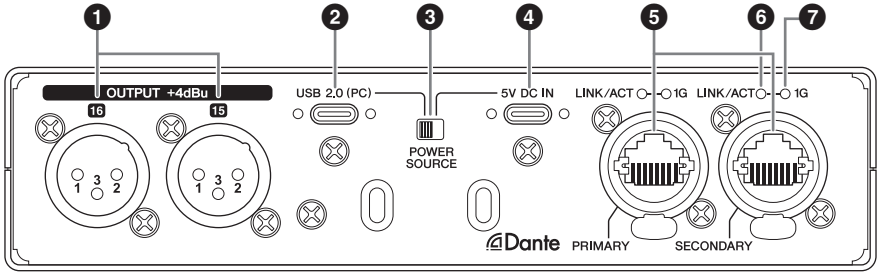
⑬ [PHONES] jack

Connect your headphones here. The jack supports stereo phone plugs.

⑭ [PHONES] knob

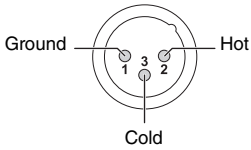
Adjusts the output signal level for the headphones.

Rear Panel



❶ [OUTPUT +4dBu] jacks

These are XLR-type analog output jacks. Connect an analog mixer, monitor speakers or related equipment here. You can adjust the output level with the [OUTPUT] knob on the front panel of this unit.



❷ [USB 2.0 (PC)] port

Connect your computer to this port.

NOTICE

When connecting your computer to the [USB 2.0 (PC)] port, observe the following to prevent the computer or this unit from freezing or shutting down, which could lead to data loss.

- **Observe the following before connecting/disconnecting the USB cables.**
  - **Quit all open software applications.**
  - **Check whether data is still being transmitted from this unit.**
- **Wait at least six seconds between connecting/disconnecting the USB cables.**
- **Make sure to use the USB cables included with this unit.**

❸ [POWER SOURCE] switch

This switch selects the jack used to supply power on this unit. Switch this to “USB 2.0 (PC)” to supply power from the [USB 2.0 (PC)] jack, or switch this to “5V DC IN” to supply power from the [5V DC IN] jack.

❹ [5V DC IN] jack

For connecting a USB power adapter or USB mobile battery. Connect a USB type-C cable to this jack.
Use a power supply when connecting this unit to a computer that does not supply sufficient bus power. (This unit does not include a USB power adapter or USB mobile battery.)

NOTICE

- **Read the safety precautions for the USB power adapter that you are using.**
- **Use a USB power adapter that can supply power via USB cable.**
  Output voltage: 4.8–5.2 V
  Output current: 1.5 A or greater

Using the 5V DC IN jack

Even when this unit is connected to a computer, you can power this unit from an external power supply via the [5V DC IN] jack if the [POWER SOURCE] switch is switched to [5V DC IN]. Using an external power supply prevents the unit from operating erratically due to insufficient power from your computer's USB port, and prevents noise-related problems caused by the power supply.

❺ Dante [PRIMARY] connector Dante [SECONDARY] connector

This is an etherCON jack to which you connect Dante-enabled devices like a Yamaha digital mixer, using an Ethernet cable (CAT5e or better is recommended).

NOTICE

Use an STP (shielded twisted pair cable) to avoid electromagnetic interference. Make sure that the gold part of the connector and the cable shield are securely in contact by using conductor tape or similar material.

NOTE

- The etherCON latch faces downward on this product. Use caution when unplugging the cable.
- Do not connect devices besides those which are Dante-enabled or support GbE (including computers).
- Cables up to a length of 100 m[*1] can be used.

  *1: This length may differ depending on the cable type.
- Do not use the EEE function[*2] of network switches in a Dante network.

  Although power management should be negotiated automatically in switches that support EEE, some switches do not perform the negotiation properly.

  This may cause EEE to be enabled in Dante networks when it is not appropriate, resulting in poor clock synchronization performance and occasional audio dropouts.

  Therefore, we strongly recommend the following:

  - When using a managed switch, turn off the EEE function on all ports used by Dante. Do not use a switch on which the EEE function cannot be disabled.
  - For unmanaged switches, do not use a switch that supports the EEE function. These switches cannot turn off the EEE function.

  *2: EEE (Energy Efficient Ethernet) is a technology that reduces switch power consumption the Ethernet devices during periods of low network traffic. This is also known as Green Ethernet or IEEE802.3az.

❻ [LINK/ACT] indicators

These indicators flash when the Dante [PRIMARY]/[SECONDARY] connectors are connected to a Dante network.

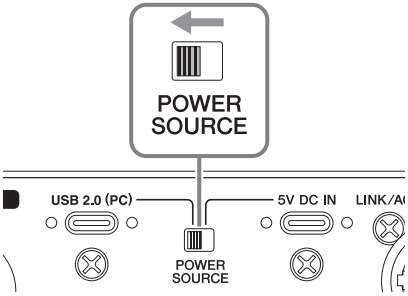
❼ [1G] indicators

These indicators light up when the Dante [PRIMARY]/[SECONDARY] connectors are connected to a Dante network on a gigabit connection.

Before Using This Product

Using with USB Bus Power

1. Move the [POWER SOURCE] switch on the rear panel to the left.



2. Connect the included USB cable to the [USB 2.0] port on the rear panel.

3. Connect the included USB cable to the USB type-C port on the computer.

4. The indicators on the front panel light when the power is turned on.

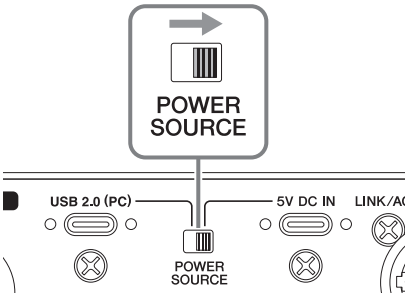
NOTE

- Use a USB type-C to USB type-C cable when powering this unit via USB bus power.
- There may not be enough power supplied from the computer, depending on the computer's specs or heat produced. This may cause the RUio16-D to operate unpredictably. To ensure stable operations, use a USB power adapter.

Using with a USB Power Adaptor or USB Mobile Battery

If the power supplied via bus power is insufficient, external power may need to be supplied from a commercially available USB power adapter or USB mobile battery.

1. Move the [POWER SOURCE] switch on the rear panel to the right.



2. Insert the plug of the USB power adapter or USB mobile battery into the [5V DC IN] port on the rear panel.

3. The indicators on the front panel light when the power is turned on.

WARNING

Before turning on the power, be sure to set the [GAIN] knob to the minimum setting. Failure to do so may result in hearing loss, electric shock, or damage to the device.

NOTE

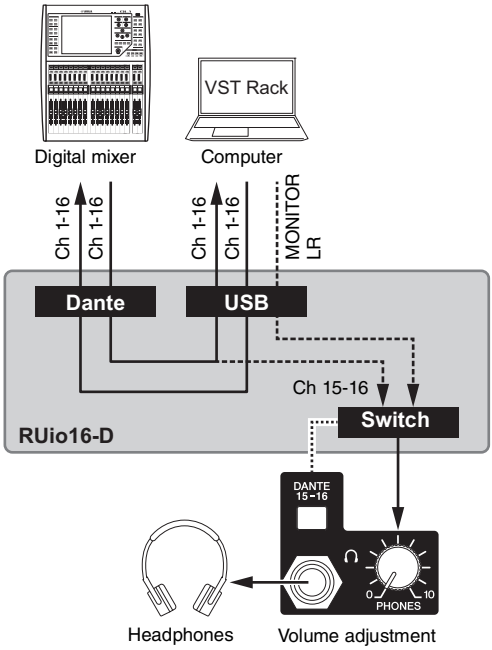
Switching the [POWER SOURCE] switch will temporarily reset this unit.

Basic Operations

With this unit, you can process the signals from a Dante-enabled device such a digital mixer that are coming into input channels 1–16, send them to your computer via USB, process the signals using the effects in VST Rack, output the resulting signals via Dante channels 1–16 and play them back on the Dante-enabled device.

NOTE

- Use the Dante Controller for Dante audio patching.
- Check the sounds below in your headphones as necessary.
  DANTE 15-16 switch OFF: MONITOR L/R (17/18) on your computer
  DANTE 15-16 switch ON: Dante 15/16 input to this unit



Example Using Analog Input/Output

You can use analog I/O channels 15/16 for various applications while applying effects to the signals of Dante channels 1–14.

Example 1: Using the unit as a two-channel effect processor for an analog mixer

- This processes the audio signal from analog input jacks 15/16 using the effects in VST Rack, and outputs to analog.
  Set the [MONITOR/DANTE/USB] switch to "**USB**."

Example 2: Sending audio (such as a mic signal) to a Dante-enabled device

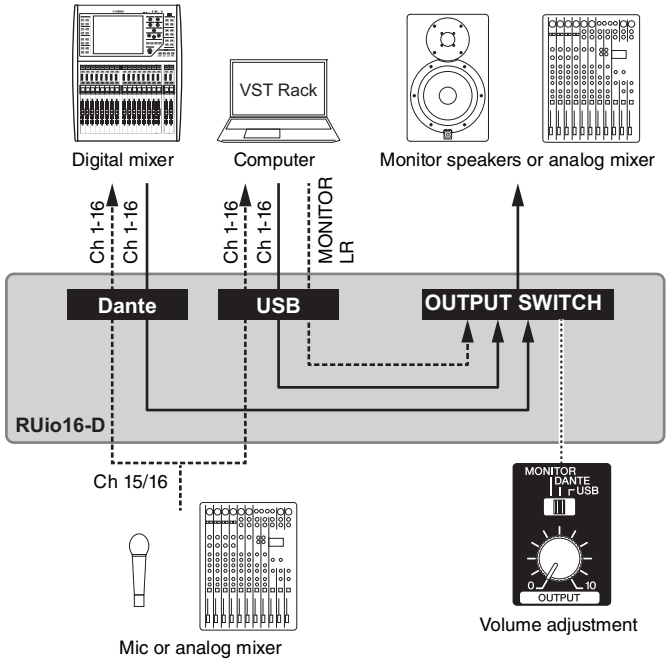
- This sends the audio from devices connected to INPUT 15/16 to DANTE 15/16.

Example 3: Listening to audio from your computer or Dante via monitor speakers

- This outputs the analog signal from the computer's MONITOR L/R. Set the [MONITOR/DANTE/USB] switch to "**MONITOR**."
- This outputs the analog signal that is input from DANTE 15/16. Set the [MONITOR/DANTE/USB] switch to "**DANTE**."

NOTE

- When connecting to the INPUT 15/16 jacks, the analog signal is sent to the Dante output and to the computer via USB.
- You can also use the PHONES output.
- To listen to the sound from your computer without using VST Rack, select "RUio16-D MONITOR L/R" as the playback audio device, and set the OUTPUT switch to "MONITOR."
- When bringing in the sound from INPUT 15/16 using software other than VST Rack, select "RUio16-D 15–16" as the recording audio device. Note that you may not be able to select this device depending on the OS and software.

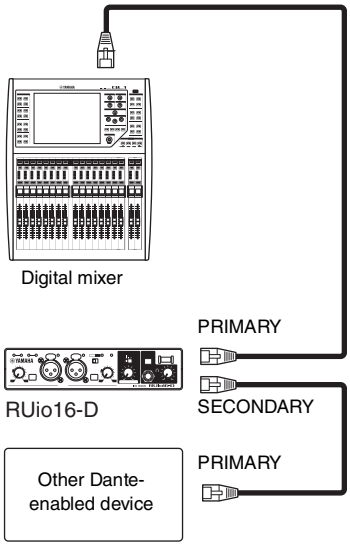


How to Connect via Dante

There are two ways to connect this product to a Dante network.

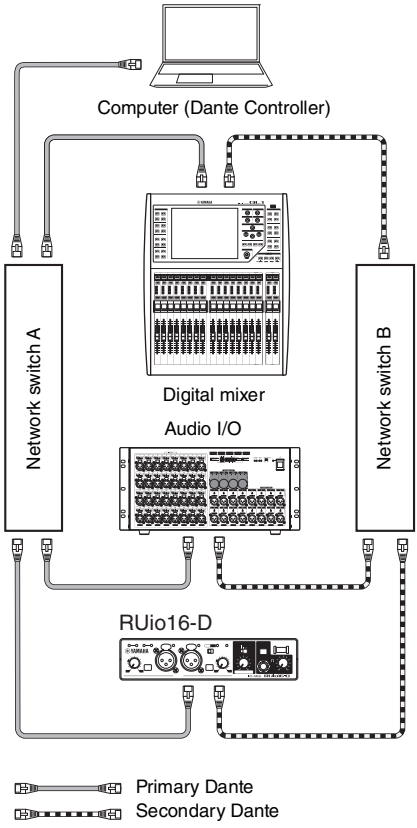
Daisy Chain Network

A daisy chain is a wiring scheme in which multiple devices are connected together in sequence. In this way, networking is simple and requires no network switches.



Star Connection

With a star connection, the network switches are at the center of the network, to which other devices are connected. This kind of connection will also support large-scale networks over a wide range of bands, through the use of network switches that support GbE. For star connections, we recommend using network switches that offer a variety of functions to control and monitor networks (such as clock synchronization of desired data lines, QoS for prioritizing audio transmission and so on).
Also, by creating a redundant network when using a star connection, you can build an environment that is much more robust in terms of failure than a daisy-chain network.



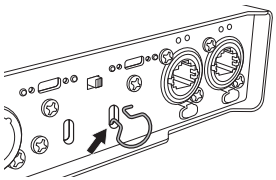
NOTE

- This product is set up for use in a daisy chain by factory default. If you wish to use a star connection, configure the settings with Dante Controller.
- See the Audinate website for more information on Dante.

Attaching the Cable Hook

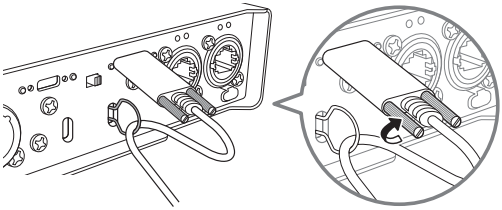
Use the following steps to attach the cable hook that is included with this product, if you will use it. The cable hook helps prevent the USB cable from being accidentally yanked out during recording or in other situations.

1. Insert one of the tips of the cable hook that is included with this unit into the bottom part of the security slot, located at the center of the rear panel.



2. Squeeze the other side of the hook and insert the other tip into the top part of the security slot.

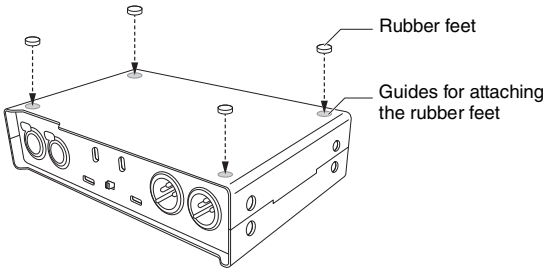
3. Thread the USB cable through the cable hook, and plug the USB connector into the USB port.



Twist the screws clockwise on the USB cable to lock it in place.

Attaching the Rubber Feet

Attach the rubber feet onto this product if you will be using it on a table or platform with a slippery surface.
Attach the rubber feet in the positions shown in the illustration, and place the unit on a level surface.



Installing in a Rack

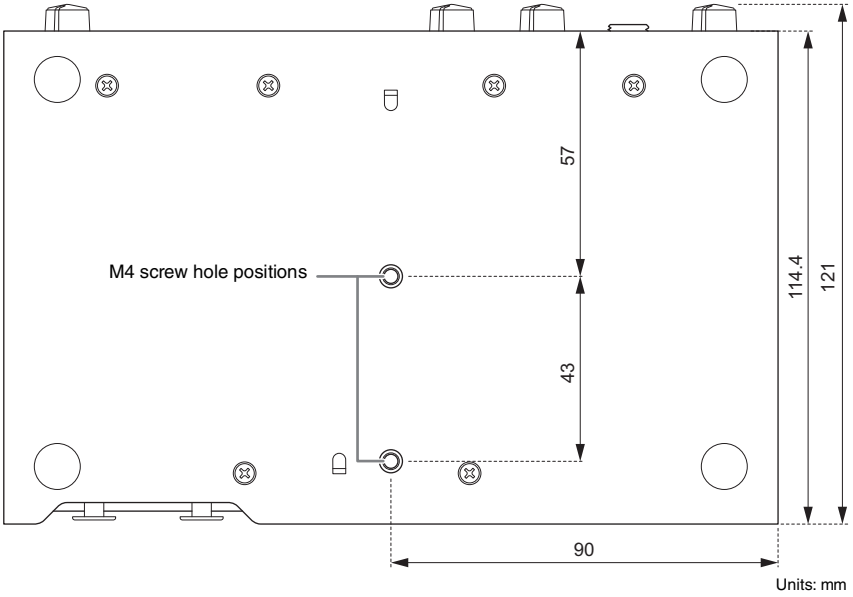
You can install this unit onto a standard 19-inch rack shelf, using screws to hold it in place.

Have ready two small M4 screws with a 0.7 mm pitch and a length of 6 mm. Line the threads of the screws up with those of the screw holes at the bottom of this unit, and install the screws into the panel. Check the dimensional drawing for the hole positions.

NOTICE

- **The rubber feet should not be attached when using screws to hold the RUio16-D in place.**
- **Make sure that the mounted screws are sufficiently tightened.**

Bottom of this unit



NOTICE

This unit is rated for operation at ambient temperatures ranging from 0 to 40 degrees Celsius. When mounting the unit with other devices in a rack, the heat generated from other devices can cause the overall temperature inside the rack to rise, which may have an adverse effect on the performance of this unit. Be sure to observe the following requirements when rack-mounting this unit to avoid heat buildup:

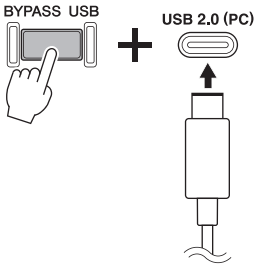
- **When mounting the unit in a rack with devices such as power amplifiers that generate a significant amount of heat, leave at least 1U of space between this unit and other equipment. Also, either leave the open spaces uncovered or install appropriate ventilating panels to maintain sufficient air flow.**

Restoring the Factory Default Settings (Initialization)

Follow the steps below to initialize this device if you wish to reset the parameters configured using VST Rack or reset the Dante Broadway settings to their factory defaults.

1. Unplug the USB cable from the [5V DC IN] and [USB 2.0 (PC)] ports, and turn off the power.

2. Insert the USB cable while holding down the [BYPASS USB] switch on the front panel of this unit.



All indicators on the front panel will flash while initialization is in progress.
Once initialization is finished, all indicators will go dark, and then return to their normal lit status.

The following parameters will change as a result of initialization.

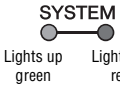
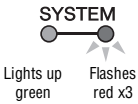
Parameter	Setting
Dante Device ID	1
Bypass enable/disable	Enabled

Messages

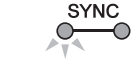
Errors, warnings, and other information messages on the RUio16-D are displayed via the front panel indicators.

Error message

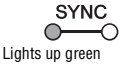
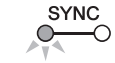
[SYSTEM] indicators	Description	Status
SYSTEM Flashes red x2	An internal error has occurred.	The device has failed. Contact your Yamaha dealer for repair.
SYSTEM Flashes red x3	Communication cannot occur because the MAC address setting has been corrupted.	

[SYSTEM] indicators	Description	Status
	As the settings have been changed using the Dante Controller, they do not match the actual Dante settings.	If the Device Lock setting was enabled from Dante Controller, disable the setting.
	The internal memory has been corrupted.	If the problem persists even after turning the power off and on again, consult your Yamaha dealer for repair.

Warning Messages

[SYNC] indicators	Description	Status
	The Dante network line is not connected.	Make sure that the Ethernet cables have not been removed or short-circuited.
	A non-GbE-compatible device is connected.	When transferring audio via Dante, use a device that supports GbE.
	The [SECONDARY] connector has taken over communications during redundant network operation.	Check the line connected to the [PRIMARY] connector.
	An abnormality has occurred on the circuit connected to the [SECONDARY] connector during redundant network operation.	Check the circuit connected to the [SECONDARY] connector.

Information Messages

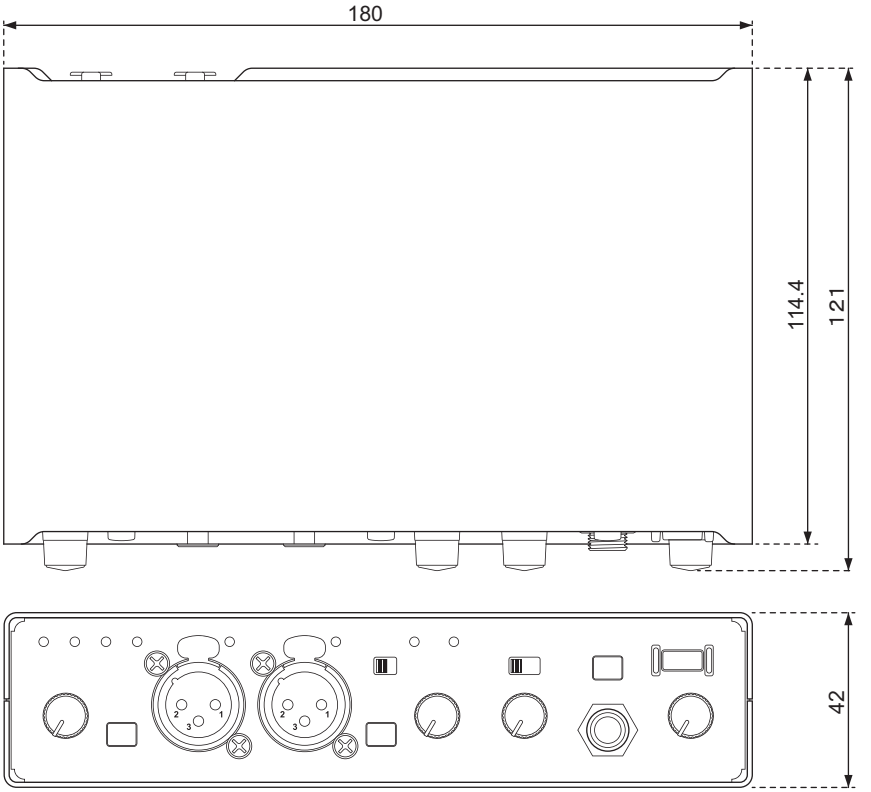
[SYNC] indicators	Description	Status
	Now synchronizing within the Dante network.	Please wait until the unit finishes starting up or until finishes synchronization. This may take up to 45 seconds to complete.
	The unit is functioning correctly as the word clock follower.	This indicates that the device is operating as the word clock follower and the clock is synchronized.
	The unit is functioning correctly as the word clock leader.	The unit is operating as the word clock leader.

General Specifications

Sampling frequencies	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
Signal delay	Less than 250 µs, Analog IN to Analog OUT @fs=96 kHz, BYPASS USB mode
Power supply and voltage	5 V/1.5 A
Power requirements	7.5 W
Dimensions (W × H × D)	180 mm × 42 mm × 121 mm
Weight	1.0 kg
Operating temperature range	0–40°C
Storage temperature range	-20–60°C
Included accessories	USB 2.0 cable (type-A to type-C, 1.5 m) × 1, USB 2.0 cable (type-C to type-C, 1.5 m) × 1, cable hook × 1, rubber feet × 4, Owner's Manual × 1, VST Rack Pro Download Information × 1

The contents of this manual apply to the latest specifications as of the date of publication. Visit the Yamaha website to download the latest version of this manual.

Dimensions



Units: mm

Information for users on collection and disposal of old equipment:



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.
For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

For business users in the European Union:

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union:

This symbol is only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

(weee_eu_en_02)

Verbraucherinformation zur Sammlung und Entsorgung alter Elektrogeräte



Befindet sich dieses Symbol auf den Produkten, der Verpackung und/oder beiliegenden Unterlagen, so sollten benutzte elektrische Geräte nicht mit dem normalen Haushaltsabfall entsorgt werden.
In Übereinstimmung mit Ihren nationalen Bestimmungen bringen Sie alte Geräte bitte zur fachgerechten Entsorgung, Wiederaufbereitung und Wiederverwendung zu den entsprechenden Sammelstellen.

Durch die fachgerechte Entsorgung der Elektrogeräte helfen Sie, wertvolle Ressourcen zu schützen, und verhindern mögliche negative Auswirkungen auf die menschliche Gesundheit und die Umwelt, die andernfalls durch unsachgerechte Müllentsorgung auftreten könnten.

Für weitere Informationen zum Sammeln und Wiederaufbereiten alter Elektrogeräte kontaktieren Sie bitte Ihre örtliche Stadt- oder Gemeindeverwaltung, Ihren Abfallentsorgungsdienst oder die Verkaufsstelle der Artikel.

Information für geschäftliche Anwender in der Europäischen Union:

Wenn Sie Elektrogeräte ausrangieren möchten, kontaktieren Sie bitte Ihren Händler oder Zulieferer für weitere Informationen.

Entsorgungsinformation für Länder außerhalb der Europäischen Union:

Dieses Symbol gilt nur innerhalb der Europäischen Union. Wenn Sie solche Artikel ausrangieren möchten, kontaktieren Sie bitte Ihre örtlichen Behörden oder Ihren Händler und fragen Sie nach der sachgerechten Entsorgungsmethode.

(weee_eu_de_02)

Informations concernant la collecte et le traitement des déchets d'équipements électriques et électroniques



Le symbole sur les produits, l'emballage et/ou les documents joints signifie que les produits électriques ou électroniques usagés ne doivent pas être mélangés avec les déchets domestiques habituels.
Pour un traitement, une récupération et un recyclage appropriés des déchets d'équipements électriques et électroniques, veuillez les déposer aux points de collecte prévus à cet effet, conformément à la réglementation nationale.

En vous débarrassant correctement des déchets d'équipements électriques et électroniques, vous contribuerez à la sauvegarde de précieuses ressources et à la prévention de potentiels effets négatifs sur la santé humaine qui pourraient advenir lors d'un traitement inapproprié des déchets.

Pour plus d'informations à propos de la collecte et du recyclage des déchets d'équipements électriques et électroniques, veuillez contacter votre municipalité, votre service de traitement des déchets ou le point de vente où vous avez acheté les produits.

Pour les professionnels dans l'Union européenne :

Si vous souhaitez vous débarrasser des déchets d'équipements électriques et électroniques, veuillez contacter votre vendeur ou fournisseur pour plus d'informations.

Informations sur la mise au rebut dans d'autres pays en dehors de l'Union européenne :

Ce symbole est seulement valable dans l'Union européenne. Si vous souhaitez vous débarrasser de déchets d'équipements électriques et électroniques, veuillez contacter les autorités locales ou votre fournisseur et demander la méthode de traitement appropriée.

(weee_eu_fr_02)

Información para usuarios sobre la recogida y eliminación de los equipos antiguos



Este símbolo en los productos, embalajes y documentos anexos significa que los productos eléctricos y electrónicos no deben mezclarse con los desperdicios domésticos normales.
Para el tratamiento, recuperación y reciclaje apropiados de los productos antiguos, llévelos a puntos de reciclaje correspondientes, de acuerdo con la legislación nacional.

Al deshacerse de estos productos de forma correcta, ayudará a ahorrar recursos valiosos y a impedir los posibles efectos desfavorables en la salud humana y en el entorno que de otro modo se producirían si se trataran los desperdicios de modo inapropiado.

Para obtener más información acerca de la recogida y el reciclaje de los productos antiguos, póngase en contacto con las autoridades locales, con el servicio de eliminación de basuras o con el punto de venta donde adquirió los artículos.

Para los usuarios empresariales de la Unión Europea:
Si desea desechar equipos eléctricos y electrónicos, póngase en contacto con su vendedor o proveedor para obtener más información.

Información sobre la eliminación en otros países fuera de la Unión Europea:
Este símbolo solo es válido en la Unión Europea. Si desea desechar estos artículos, póngase en contacto con las autoridades locales o con el vendedor y pregúnteles el método correcto.

(weee_eu_es_02)

Informações para os utilizadores relativas à recolha e eliminação de equipamentos usados



Este símbolo, presente em produtos, embalagens e/ou incluído na documentação associada, indica que os produtos elétricos e eletrónicos usados não devem ser eliminados juntamente com os resíduos domésticos em geral.
O procedimento correto consiste no tratamento, recuperação e reciclagem de produtos usados, pelo que deve proceder à respetiva entrega nos pontos de recolha adequados, em conformidade com a legislação nacional em vigor.

A eliminação destes produtos de forma adequada permite poupar recursos valiosos e evitar potenciais efeitos prejudiciais para a saúde pública e para o ambiente, associados ao processamento incorreto dos resíduos.

Para mais informações relativas à recolha e reciclagem de produtos usados, contacte as autoridades locais, o serviço de eliminação de resíduos ou o ponto de venda onde foram adquiridos os itens relevantes.

Informações para utilizadores empresariais na União Europeia:
Para proceder à eliminação de equipamento elétrico e eletrónico, contacte o seu revendedor ou fornecedor para obter informações adicionais.

Informações relativas à eliminação em países não pertencentes à União Europeia:
Este símbolo é válido exclusivamente na União Europeia. Caso pretenda eliminar este tipo de itens, contacte as autoridades locais ou o seu revendedor e informe-se acerca do procedimento correto para proceder à respetiva eliminação.

(weee_eu_pt_02a)

Informazioni per gli utenti sulla raccolta e lo smaltimento di vecchia attrezzatura



Questi simboli sui prodotti, sull'imballaggio e/o sui documenti che li accompagnano, indicano che i prodotti elettrici ed elettronici non devono essere mischiati con i rifiuti generici.
Per il trattamento, il recupero e il riciclaggio appropriato di vecchi prodotti, si prega di portarli ai punti di raccolta designati, in accordo con la legislazione locale.

Smaltendo correttamente questi prodotti si potranno recuperare risorse preziose, oltre a prevenire potenziali effetti negativi sulla salute e l'ambiente che potrebbero sorgere a causa del trattamento improprio dei rifiuti.

Per ulteriori informazioni sulla raccolta e il riciclaggio di vecchi prodotti, si prega di contattare l'amministrazione comunale locale, il servizio di smaltimento dei rifiuti o il punto vendita dove sono stati acquistati gli articoli.

Per utenti imprenditori dell'Unione europea:
Se si desidera scartare attrezzatura elettrica ed elettronica, si prega di contattare il proprio rivenditore o il proprio fornitore per ulteriori informazioni.

Informazioni sullo smaltimento negli altri Paesi al di fuori dell'Unione europea:
Questi simboli sono validi solamente nell'Unione Europea; se si desidera scartare questi articoli, si prega di contattare le autorità locali o il rivenditore e richiedere informazioni sulla corretta modalità di smaltimento.

(weee_eu_it_02)

Important Notice: Guarantee Information for customers in European Economic Area (EEA) and Switzerland

Important Notice: Guarantee Information for customers in EEA* and Switzerland — English

For detailed guarantee information about this Yamaha product, and Pan-EEA* and Switzerland warranty service, please either visit the website address below (Printable file is available at our website) or contact the Yamaha representative office for your country. * EEA: European Economic Area

Wichtiger Hinweis: Garantie-Information für Kunden in der EWR* und der Schweiz — Deutsch

Für nähere Garantie-Information über dieses Produkt von Yamaha, sowie über den Pan-EWR*- und Schweizer Garantieservice, besuchen Sie bitte entweder die folgend angegebene Internetadresse (eine druckfähige Version befindet sich auch auf unserer Webseite), oder wenden Sie sich an den für Ihr Land zuständigen Yamaha-Vertrieb. *EWR: Europäischer Wirtschaftsraum

Remarque importante: informations de garantie pour les clients de l'EEE et la Suisse — Français

Pour des informations plus détaillées sur la garantie de ce produit Yamaha et sur le service de garantie applicable dans l'ensemble de l'EEE ainsi qu'en Suisse, consultez notre site Web à l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement Yamaha dans votre pays de résidence. * EEE : Espace Economique Européen

Belangrijke mededeling: Garantie-informatie voor klanten in de EER* en Zwitserland — Nederlands

Voor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vind een afdrukbaar bestand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europese Economische Ruimte

Aviso importante: información sobre la garantía para los clientes del EEE* y Suiza — Español

Para una información detallada sobre este producto Yamaha y sobre el soporte de garantía en la zona EEE* y Suiza, visite la dirección web que se incluye más abajo (la version del archivo para imprimir esta disponible en nuestro sitio web) o póngase en contacto con el representante de Yamaha en su país. * EEE: Espacio Económico Europeo

Avviso importante: informazioni sulla garanzia per i clienti residenti nell'EEA* e in Svizzera — Italiano

Per informazioni dettagliate sulla garanzia relativa a questo prodotto Yamaha e l'assistenza in garanzia nei paesi EEA* e in Svizzera, potete consultare il sito Web all'indirizzo riportato di seguito (è disponibile il file in formato stampabile) oppure contattare l'ufficio di rappresentanza locale della Yamaha. * EEA: Area Economica Europea

Aviso importante: informações sobre as garantias para clientes da AEE* e da Suíça — Português

Para obter uma informação pormenorizada sobre este produto da Yamaha e sobre o serviço de garantia na AEE* e na Suíça, visite o site a seguir (o arquivo para impressão está disponível no nosso site) ou entre em contato com o escritório de representação da Yamaha no seu país. * AEE: Área Econômica Européia

Σημαντική σημείωση: Πληροφορίες εγγύησης για τους πελάτες στον ΕΟΧ* και Ελβετία — Ελληνικά

Για λεπτομερείς πληροφορίες εγγύησης σχετικά με το παρόν προϊόν της Yamaha και την κάλυψη εγγύησης σε όλες τις χώρες του ΕΟΧ και την Ελβετία, επισκεφτείτε την παρακάτω ιστοσελίδα (Εκτυπώσιμη μορφή είναι διαθέσιμη στην ιστοσελίδα μας) ή απευθυνθείτε στην αντιπροσωπεία της Yamaha στη χώρα σας. * ΕΟΧ: Ευρωπαϊκός Οικονομικός Χώρος

Viktigt: Garantiinformation för kunder i EES-området* och Schweiz — Svenska

För detaljerad information om denna Yamahaprodukt samt garantiservice i hela EES-området* och Schweiz kan du antingen besöka nedanstående webbaddress (en utskriftsvänlig fil finns på webbplatsen) eller kontakta Yamahas officiella representant i ditt land. * EES: Europeiska Ekonomiska Samarbetsområdet

Viktig merknad: Garantiinformasjon for kunder i EØS* og Sveits — Norsk

Detaljert garantiinformasjon om dette Yamaha-produktet og garantiservice for hele EØS-området* og Sveits kan fås enten ved å besøke nettaddressen nedenfor (utskriftsversjon finnes på våre nettsider) eller kontakte kontakte Yamaha-kontoret i landet der du bor. *EØS: Det europeiske økonomiske samarbeidsområdet

Vigtig oplysning: Garantioplysninger til kunder i EØO* og Schweiz — Dansk

De kan finde detaljerede garantioplysninger om dette Yamaha-produkt og den fælles garantiserviceordning for EØO* (og Schweiz) ved at besøge det websted, der er angivet nedenfor (der findes en fil, som kan udskrives, på vores websted), eller ved at kontakte Yamahas nationale repræsentationskontor i det land, hvor De bor. * EØO: Det Europæiske Økonomiske Område

Tärkeä ilmoitus: Takuutiedot Euroopan talousalueen (ETA)* ja Sveitsin asiakkaille — Suomi

Tämän Yamaha-tuotteen sekä ETA-alueen ja Sveitsin takuuta koskevat yksityiskohtaiset tiedot saatte alla olevasta nettiosoitteesta. (Tulostettava tiedosto saatavissa sivustolla mme.) Voitte myös ottaa yhteyttä paikalliseen Yamaha-edustajaan. *ETA: Euroopan talousalue

Ważne: Warunki gwarancyjne obowiązujące w EOG* i Szwajcarii — Polski

Aby dowiedzieć się więcej na temat warunków gwarancyjnych tego produktu firmy Yamaha i serwisu gwarancyjnego w całym EOG* i Szwajcarii, należy odwiedzić wskazaną poniżej stronę internetową (Plik gotowy do wydruku znajduje się na naszej stronie internetowej) lub skontaktować się z przedstawicielstwem firmy Yamaha w swoim kraju. * EOG — Europejski Obszar Gospodarczy

Důležité oznámení: Záruční informace pro zákazníky v EHS* a ve Švýcarsku — Česky

Podrobné záruční informace o tomto produktu Yamaha a záručním servisu v celém EHS* a ve Švýcarsku naleznete na níže uvedené webové adrese (soubor k tisku je dostupný na našich webových stránkách) nebo se můžete obrátit na zastoupení firmy Yamaha ve své zemi. * EHS: Evropský hospodářský prostor

Fontos figyelmeztetés: Garancia-információk az EGT* területén és Svájcban élő vásárlók számára — Magyar

A jelen Yamaha termékre vonatkozó részletes garancia-információk, valamint az EGT*-re és Svájcra kiterjedő garanciális szolgáltatás tekintetében keresse fel webhelyünket az alábbi címen (a webhelyen nyomtatható fájlt is talál), vagy pedig lépjen kapcsolatba az országában működő Yamaha képviseleti irodával. * EGT: Európai Gazdasági Térség

Oluline märkus: Garantiiteave Euroopa Majanduspiirkonna (EMP)* ja Šveitsi klientidele — Eesti keel

Täpsema teabe saamiseks selle Yamaha toote garantii ning kogu Euroopa Majanduspiirkonna ja Šveitsi garantiiteeninduse kohta, külastage palun veebisaiti aljärgneval aadressil (meie saidil on saadaval prinditav fail) või pöörduge Teie regiooni Yamaha esinduse poole. * EMP: Euroopa Majanduspiirkond

Svarīgs paziņojums: garantijas informācija klientiem EEZ* un Šveicē — Latviešu

Lai saņemtu detalizētu garantijas informāciju par šo Yamaha produktu, kā arī garantijas apkalpošanu EEZ* un Šveicē, lūdzu, apmeklējiet zemāk norādīto tīmekļa vietnes adresi (tīmekļa vietnē ir pieejams drukājams fails) vai sazinieties ar jūsu valsti apkalpojošo Yamaha pārstāvniecību. * EEZ: Eiropas Ekonomikas zona

Dėmesio: informacija dėl garantijos pirkėjams EEE* ir Šveicarijoje — Lietuvių kalba

Jei reikia išsamios informacijos apie šį „Yamaha“ produktą ir jo techninę priežiūrą visoje EEE* ir Šveicarijoje, apsilankykite mūsų svetainėje toliau nurodytu adresu (svetainėje yra spausdintinas failas) arba kreipkitės į „Yamaha“ atstovybę savo šalyje. *EEE – Europos ekonominė erdvė

Dôležité upozornenie: Informácie o záruke pre zákazníkov v EHP* a Švajčiarsku — Slovenčina

Podrobné informácie o záruke týkajúce sa tohto produktu od spoločnosti Yamaha a garančnom servise v EHP* a Švajčiarsku nájdete na webovej stránke uvedenej nižšie (na našej webovej stránke je k dispozícii súbor na tlač) alebo sa obráťte na zástupcu spoločnosti Yamaha vo svojej krajine. * EHP: Európsky hospodársky priestor

Pomembno obvestilo: Informacije o garanciji za kupce v EGP* in Švici — Slovenščina

Za podrobnejše informacije o tem Yamahinem izdelku ter garancijskem servisu v celotnem EGP in Švici, obiščite spletno mesto, ki je navedeno spodaj (natisljiva datoteka je na voljo na našem spletnem mestu), ali se obrnite na Yamahinega predstavnika v svoji državi. * EGP: Evropski gospodarski prostor

Важно съобщение: Информация за гаранцията за клиенти в ЕИП* и Швейцария — Български език

За подробна информация за гаранцията за този продукт на Yamaha и гаранционното обслужване в паневропейската зона на ЕИП* и Швейцария или посетете посочения по-долу уеб сайт (на нашия уеб сайт има файл за печат), или се свържете с представителния офис на Yamaha във вашата страна. * ЕИП: Европейско икономическо пространство

Notificare importantă: Informații despre garanție pentru clienții din SEE* și Elveția — Limba română

Pentru informații detaliate privind acest produs Yamaha și serviciul de garanție Pan-SEE* și Elveția, vizitați site-ul la adresa de mai jos (fișierul imprimabil este disponibil pe site-ul nostru) sau contactați biroul reprezentanței Yamaha din țara dumneavoastră. * SEE: Spațiul Economic European

Važna obavijest: Informacije o jamstvu za države EGP-a i Švicarske — Hrvatski

Za detaljne informacije o jamstvu za ovaj Yamahin proizvod te jamstvenom servisu za cijeli EGP i Švicarsku, molimo Vas da posjetite web-stranicu navedenu u nastavku ili kontaktirate ovlaštenog Yamahinog dobavljača u svojoj zemlji. * EGP: Europski gospodarski prostor

https://europe.yamaha.com/warranty/

URL_5

ADDRESS LIST

NORTH AMERICA

CANADA
Yamaha Canada Music Ltd.
135 Milner Avenue, Toronto, Ontario, M1S 3R1, Canada
Tel: +1-416-298-1311

U.S.A.
Yamaha Corporation of America
6600 Orangethorpe Avenue, Buena Park, CA 90620, U.S.A.
Tel: +1-714-522-9011

CENTRAL & SOUTH AMERICA

MEXICO
Yamaha de México, S.A. de C.V.
Av. Insurgentes Sur 1647 Piso 9, Col. San José Insurgentes, Delegación Benito Juárez, CDMX, C.P. 03900, México
Tel: +52-55-5804-0600

BRAZIL
Yamaha Musical do Brasil Ltda.
Praça Professor José Lannes, 40, Cjs 21 e 22, Brooklin Paulista Novo CEP 04571-100 – São Paulo – SP, Brazil
Tel: +55-11-3704-1377

ARGENTINA
Yamaha Music Latin America, S.A., Sucursal Argentina
Olga Cossettini 1553, Piso 4 Norte, Madero Este-C1107CEK, Buenos Aires, Argentina
Tel: +54-11-4119-7000

PANAMA AND OTHER LATIN AMERICAN/CARIBBEAN REGIONS
Yamaha Music Latin America, S.A.
Edif. Torre Banco General, Piso 7, Urbanización Marbella, Calle 47 y Aquilino de la Guardia, Ciudad de Panamá, República de Panamá
Tel: +507-269-5311

EUROPE

THE UNITED KINGDOM/IRELAND
Yamaha Music Europe GmbH (UK)
Sherbourne Drive, Tilbrook, Milton Keynes, MK7 8BL, U.K.
Tel: +44-1908-366700

GERMANY
Yamaha Music Europe GmbH
Siemensstrasse 22-34, 25462 Rellingen, Germany
Tel: +49-4101-303-0

SWITZERLAND/LIECHTENSTEIN
Yamaha Music Europe GmbH, Branch Switzerland in Thalwil
Seestrasse 18a, 8800 Thalwil, Switzerland
Tel: +41-44-3878080

AUSTRIA/BULGARIA/ CZECH REPUBLIC/HUNGARY/ ROMANIA/SLOVAKIA/SLOVENIA
Yamaha Music Europe GmbH Branch Austria
Schleiergasse 20, 1100 Wien, Austria
Tel: +43-1-60203900

POLAND
Yamaha Music Europe GmbH Sp.z o.o. Oddział w Polsce
ul. Wielicka 52, 02-657 Warszawa, Poland
Tel: +48-22-880-08-88

MALTA
Olimpus Music Ltd.
Valletta Road, Mosta MST9010, Malta
Tel: +356-2133-2093

NETHERLANDS/BELGIUM/ LUXEMBOURG
Yamaha Music Europe Branch Benelux
Clarissenhof 5b, 4133 AB Vianen, The Netherlands
Tel: +31-347-358040

FRANCE
Yamaha Music Europe
7 rue Ambroise Croizat, Zone d'activités de Pariest, 77183 Croissy-Beaubourg, France
Tel: +33-1-6461-4000

ITALY
Yamaha Music Europe GmbH, Branch Italy
Via Tinelli N.67/69 20855 Gerno di Lesmo (MB), Italy
Tel: +39-039-9065-1

SPAIN/PORTUGAL
Yamaha Music Europe GmbH Ibérica, Sucursal en España
Ctra. de la Coruña km. 17,200, 28231 Las Rozas de Madrid, Spain
Tel: +34-91-639-88-88

GREECE
Philippos Nakas S.A. The Music House
19th klm. Leof. Lavriou 190 02 Peania – Attiki, Greece
Tel: +30-210-6686168

SWEDEN/FINLAND/ICELAND
Yamaha Music Europe GmbH Germany filial Scandinavia
JA Wettergrensgata 1, 400 43 Göteborg, Sweden
Tel: +46-31-89-34-00

DENMARK
Yamaha Music Denmark, Fillial of Yamaha Music Europe GmbH, Tyskland
Generatorvej 8C, ST. TH. , 2860 Søborg, Denmark
Tel: +45-44-92-49-00

NORWAY
Yamaha Music Europe GmbH Germany - Norwegian Branch
Grini Næringspark 1, 1332 Østerås, Norway
Tel: +47-6716-7800

CYPRUS
Yamaha Music Europe GmbH
Siemensstrasse 22-34, 25462 Rellingen, Germany
Tel: +49-4101-303-0

RUSSIA
Yamaha Music (Russia) LLC.
Room 37, entrance 7, bld. 7, Kievskaya street, Moscow, 121059, Russia
Tel: +7-495-626-5005

OTHER EUROPEAN REGIONS
Yamaha Music Europe GmbH
Siemensstrasse 22-34, 25462 Rellingen, Germany
Tel: +49-4101-3030

AFRICA

Yamaha Music Gulf FZE
JAFZA-16, Office 512, P.O.Box 17328, Jebel Ali FZE, Dubai, UAE
Tel: +971-4-801-1500

MIDDLE EAST

TURKEY
Yamaha Music Europe GmbH Merkezi Almanya Türkiye İstanbul Şubesi
Mor Sumbul Sokak Varyap Meridian Business 1.Blok No:1 113-114-115
Bati Atasehir Istanbul, Turkey
Tel: +90-216-275-7960

OTHER REGIONS
Yamaha Music Gulf FZE
JAFZA-16, Office 512, P.O.Box 17328, Jebel Ali FZE, Dubai, UAE
Tel: +971-4-801-1500

ASIA

THE PEOPLE'S REPUBLIC OF CHINA
Yamaha Music & Electronics (China) Co.,Ltd.
2F, Yunhedasha, 1818 Xinzha-lu, Jingan-qu, Shanghai, China
Tel: +86-400-051-7700

INDIA
Yamaha Music India Private Limited
P-401, JMD Megapolis, Sector-48, Sohna Road, Gurugram-122018, Haryana, India
Tel: +91-124-485-3300

INDONESIA
PT Yamaha Musik Indonesia Distributor
Yamaha Music Center Bldg. Jalan Jend. Gatot Subroto Kav. 4, Jakarta 12930, Indonesia
Tel: +62-21-520-2577

KOREA
Yamaha Music Korea Ltd.
11F, Prudential Tower, 298, Gangnam-daero, Gangnam-gu, Seoul, 06253, Korea
Tel: +82-2-3467-3300

MALAYSIA
Yamaha Music (Malaysia) Sdn. Bhd.
No.8, Jalan Perbandaran, Kelana Jaya, 47301 Petaling Jaya, Selangor, Malaysia
Tel: +60-3-78030900

SINGAPORE
Yamaha Music (Asia) Private Limited
Block 202 Hougang Street 21, #02-00, Singapore 530202, Singapore
Tel: +65-6740-9200

TAIWAN
Yamaha Music & Electronics Taiwan Co.,Ltd.
2F., No.1, Yuandong Rd., Banqiao Dist., New Taipei City 22063, Taiwan (R.O.C.)
Tel: +886-2-7741-8888

THAILAND
Siam Music Yamaha Co., Ltd.
3, 4, 15, 16th Fl., Siam Motors Building, 891/1 Rama 1 Road, Wangmai, Pathumwan, Bangkok 10330, Thailand
Tel: +66-2215-2622

VIETNAM
Yamaha Music Vietnam Company Limited
15th Floor, Nam A Bank Tower, 201-203 Cach Mang Thang Tam St., Ward 4, Dist.3, Ho Chi Minh City, Vietnam
Tel: +84-8-3818-1122

OTHER ASIAN REGIONS
http://asia.yamaha.com/

OCEANIA

AUSTRALIA
Yamaha Music Australia Pty. Ltd.
Level 1, 80 Market Street, South Melbourne, VIC 3205, Australia
Tel: +61-3-9693-5111

REGIONS AND TRUST TERRITORIES IN PACIFIC OCEAN
http://asia.yamaha.com/

Head Office/Manufacturer: Yamaha Corporation 10-1, Nakazawa-cho, Naka-ku, Hamamatsu, 430-8650, Japan
Importer (European Union): Yamaha Music Europe GmbH Siemensstrasse 22-34, 25462 Rellingen, Germany
Importer (United Kingdom): Yamaha Music Europe GmbH (UK) Sherbourne Drive, Tilbrook, Milton Keynes, MK7 8BL, United Kingdom
PA57

雅马哈乐器音响（中国）投资有限公司
上海市静安区新闸路 1818 号云和大厦 2 楼
客户服务热线：4000517700
公司网址：https://www.yamaha.com.cn

厂名：雅马哈电子（苏州）有限公司
厂址：江苏省苏州市苏州新区鹿山路 18 号

ヤマハ株式会社
〒430-8650 静岡県浜松市中区中沢町10-1

Yamaha Pro Audio global website
http://www.yamahaproaudio.com/

Yamaha Downloads
https://download.yamaha.com/

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