



CEILING MICROPHONE

RM-CG

Installation Manual

EN

VJK6330

English

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

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

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

CAUTION

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

If you notice any abnormality

- If any of the following problems occur, immediately turn off the PoE injector or the PoE network switch and disconnect the cable.

- The LAN cable 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.

Location and connection

- 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.

Location and connection

- Always consult a professional installer if the product installation requires construction work, and make sure to observe the following precautions.

- Choose mounting hardware and an installation location that can support the weight of the product.
- Avoid locations that are exposed to constant vibration.
- Use the required tools to install the product.
- Inspect the product periodically.

- When connecting this product with a PoE injector or the PoE network switch, use a CAT5e or higher LAN cable, which supports the maximum power supply voltage (57 V) of the IEEE 802.3at standard. If you connect a cable that does not comply with specifications, or connect a flat type or slim type cable, fire or malfunctions might occur.

- Do not damage the LAN cable. Failure to observe this precaution could result in fire, electric shock, or damage to the product.

- Do not place heavy objects on the cable.

- Do not process the cable in any way.

- Do not use staples to fix the cable in place.

- Do not apply excessive force to the cable.

- Be sure to keep the cable away from anything hot.

- Do not place the product in an unstable position or a location with excessive vibration, where it might accidental fall 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.

- When installing the product:
 - Do not cover it with any cloth.
 - Make sure the top surface faces up; do not install on its sides or upside down.
 - Do not use the product in a confined, poorly-ventilated location.

Inadequate ventilation can result in overheating, possibly causing damage to the product(s), 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.

- Do not route cables where someone might trip over them, such as in a location where people pass. Tripping on a cable may cause a person or this product to fall down, resulting in personal injury or damage to 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 a cable with wet hands.

NOTICE

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

Handling and maintenance

- Do not connect this product to public Wi-Fi and/or Internet directly. Only connect this product to the Internet through a router with strong password-protects. Consult your router manufacturer for information on security best 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 disfigurement, 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.
- 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.
- Do not place the face down with the grille attached, as deformation of the grille may result.

INFORMATION

About functions/data bundled with the product

- This is a class A product. Operation of this product in a residential environment could cause radio interference.
- Refer to the website below for the licensing terms of the open source software used in this product.
<https://download.yamaha.com/>
- This product uses Dante Ultimo. Refer to the Audinate website (English) for details on the open source license for the particular software.
<https://www.audinate.com/software-licensing>

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.
- Software may be revised and updated without prior notice.
- The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file.

About disposal

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

MAIN SPECIFICATION

General

Description	Ceiling Microphone
Color	Black, White
Dimensions (W x D x H)	W560 mm x D560 mm x H90 mm (including protrusions/microphone panel: H22 mm)
Weight	5.6 kg (including grille)
Power requirements	PoE (IEEE802.3af), DC 48 V
Maximum Power Consumption	7.2 W
In Operation	Temperature 0 °C – 40 °C Humidity 30% – 90% (No condensation)
Storage	Temperature -20 °C – 60 °C Humidity 20% – 90% (No condensation)
Indicator	Front (Mute/Unmute & Status) Network port
Mount	Ceiling Mount (*can't replace a grid ceiling panel) Wire mount VESA mount
Dust Protection	IP5X for dust protection (with Terminal cover)
Plenum Rating	UL2043 (with Terminal cover)

Network

Dante/PoE port	Dante, Remote Control, Web GUI, PoE Cable Requirements: CAT5e or higher, STP
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Reference manuals

- For details on connecting this unit to the RM-CR, refer to the RM-CR Reference Manual.
- For details on the functions and specifications of this unit, refer to the RM-CG Reference Manual.

Both publications are available on the Yamaha website.

<https://download.yamaha.com/>

ACCESSORIES

(For details on the shapes, refer to the back page.)

- Installation Manual (this manual) (1)
- Grille (1)
- Mounting screw for grille (M3 x 8 mm) (5*)
- Screw cover (4)
- Cable tie (1)
- Terminal cover (1)
- Safety wire (1)
- U-shaped bracket (1)
- Mounting screw for U-shaped bracket (M4 x 20 mm) (5*)
- C-ring (1)
- Mounting screw for C-ring (2)
- Cutout template (1)
- Temporary mounting bracket (2)

* Includes one spare.

Installation

For recessing into the ceiling, refer to the procedure on the back page.

WARNING:

- Before installing, confirm that the locations where the unit and the safety wire are to be installed are strong enough.
- For the following work, use a safety wire, and be careful not to fall or cause the unit or surrounding structures to be dropped or damaged.

NOTICE:

- To supply power, confirm that the unit is securely installed, and then connect the LAN cable to a PoE injector or PoE network switch that complies with IEEE802.3af.
- Cables up to a maximum length of 100 m can be used.
- In order to prevent electromagnetic interference, use STP (shielded twisted pair) cables.

When using a VESA mounting bracket for ceiling mounting

Prepare a VESA100-compatible mounting bracket and mounting screws.

For details on attaching the VESA mounting bracket, refer to its manual. The following is an example.

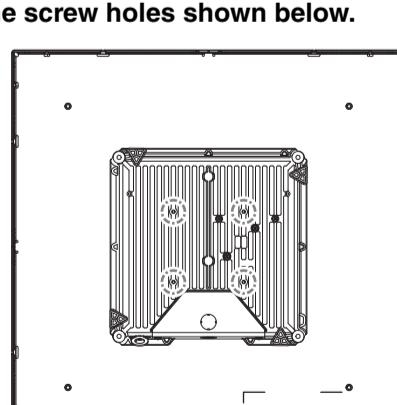
If the terminal cover will not be used, skip steps 1 and 2-1, 8 and 10 on the back side. However, the dustproofness and plenum ratings will not be met.

1. Make a hole in the terminal cover to pass the conduit through.

Make a cable hole in the terminal cover according to the orientation of the conduit. The cable hole can be made in the terminal cover horizontally or vertically.

We recommend using nippers. The terminal cover may become deformed if you try to make the hole by hitting or prying the cover with a flathead screwdriver, etc.

2. Attach the VESA mounting bracket to the unit by using the screw holes shown below.



3. Attach the VESA mounting bracket to the ceiling.

For the remainder of the procedure, continue with steps 2-6 to 2-10 and step 4 on the back side.

When hanging with wires

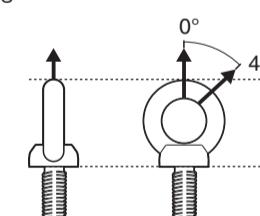
Prepare wires and eyebolts (M6 x 13 mm or less) with sufficient load capacity for hanging.

NOTE:

Use eyebolts that meet local regulations and safety standards.

NOTICE:

The strength of an eyebolt depends on its installation angle. Install an eyebolt within a range of 0° to 45° from vertical.



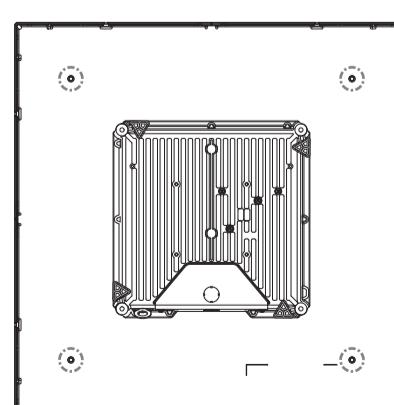
If the terminal cover will not be used, skip steps 1 and 2-1, 8 and 10 on the back side. However, the dustproofness and plenum ratings will not be met.

1. Make a hole in the terminal cover to pass the conduit through.

Make a cable hole in the terminal cover according to the orientation of the conduit. The cable hole can be made in the terminal cover horizontally or vertically.

We recommend using nippers. The terminal cover may become deformed if you try to make the hole by hitting or prying the cover with a flathead screwdriver, etc.

2. Install the eyebolts into the unit by using the screw holes shown below.



3. Install the unit by attaching it to the wires hanging from the ceiling, making sure that the unit is horizontal.

For the remainder of the procedure, continue with steps 2-6 to 2-10 and step 4 on the back side.

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 equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

(class A)

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

Responsible Party: Yamaha Corporation of America
Address: 6600 Orangetherope Avenue, Buena Park, CA 90620, U.S.A.
Telephone: 714-522-9011
Type of Equipment: Ceiling Microphone
Model Name: RM-CG

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following 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.

(SDoc)

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

