

VIDEO LIGHTING CONVERTER

VC-1-DMX

English

日本語

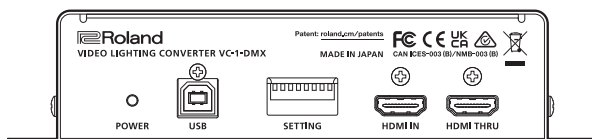
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DMX configuration software

You can configure the DMX channels by connecting this unit to a computer that's running DMX configuration software. For details, refer to "Using VC-1-DMX configuration software" (Web).

1. Visit the following website on your computer or other device.

<https://proav.roland.com/manuals/>

2. Choose "VC-1-DMX" as the product name.

Checking the Included Items

Check that all of the included items are present.

If any of the included items are missing, contact your dealer.

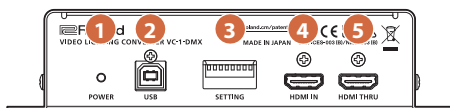
- | | |
|--|--|
| <input type="checkbox"/> VC-1-DMX unit | <input type="checkbox"/> Rubber foot x 4 |
| <input type="checkbox"/> AC adaptor | <input type="checkbox"/> Owner's Manual |
| <input type="checkbox"/> Plug holder | <input type="checkbox"/> Leaflet "USING THE UNIT SAFELY" |

Before using the unit, ensure that its system program is at the most recent version. For information on available upgrades for the system program, see the Roland website (<https://proav.roland.com/>).

"Before using this unit, carefully read "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (the leaflet "USING THE UNIT SAFELY" and the Owner's Manual (p. 6)). After reading, keep the document(s) where it will be available for immediate reference.

Panel Descriptions

Front Panel



1 POWER indicator

Once you connect the AC adaptor, this unit powers up and the POWER indicator lights up red.

2 USB port

You can configure the DMX channels by connecting this to a computer on which dedicated software is installed. The dedicated software for use with this unit can be downloaded from the Roland website.

<https://roland.cm/VC-1-DMX/>

3 SETTING switches

Use a thin pen tip or other such tool to configure the operation settings. For the values, refer to "Configuring the Operation Settings" (p. 4).

4 HDMI IN connector

Connect an HDMI source device such as a computer or BD player for video input. Video signals up to a resolution of full HD (1080/60p) can be input. HDCP-protected video can also be input.

5 HDMI THRU connector

Outputs the video signal input from the HDMI IN connector as-is. Connect a device that receives HDMI video here, such as a TV monitor.

■ Attaching the rubber feet

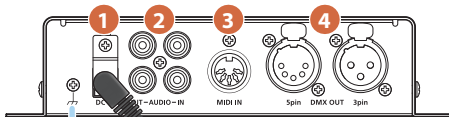
This unit can be placed on a table or other surface, and you can use screws or bands to affix it to a wall or other flat place for use.

When placing the unit on a table, attach the included rubber feet in the places shown in the illustration before use.

* When turning the unit over, handle the unit carefully; do not drop it.

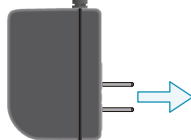


Rear Panel



■ Ground terminal

Connect this to an external earth or ground. This should be connected when necessary.



To AC outlet

1 DC IN jack

Connect the included AC adaptor here. Use only the AC adaptor that came with this unit.

2 AUDIO IN/OUT jacks

Connect an audio device.

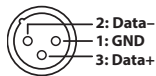
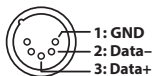
3 MIDI IN connector

You can connect a device here that outputs MIDI, to control DMX lighting from that external MIDI device.

4 DMX OUT 5-pin connector/3-pin connector

These are output connectors for DMX signals. Use either the 5-pin or the 3-pin connector, depending on what DMX lighting equipment you are using.

* Pin assignment of DMX OUT connectors



■ Attaching the plug holder

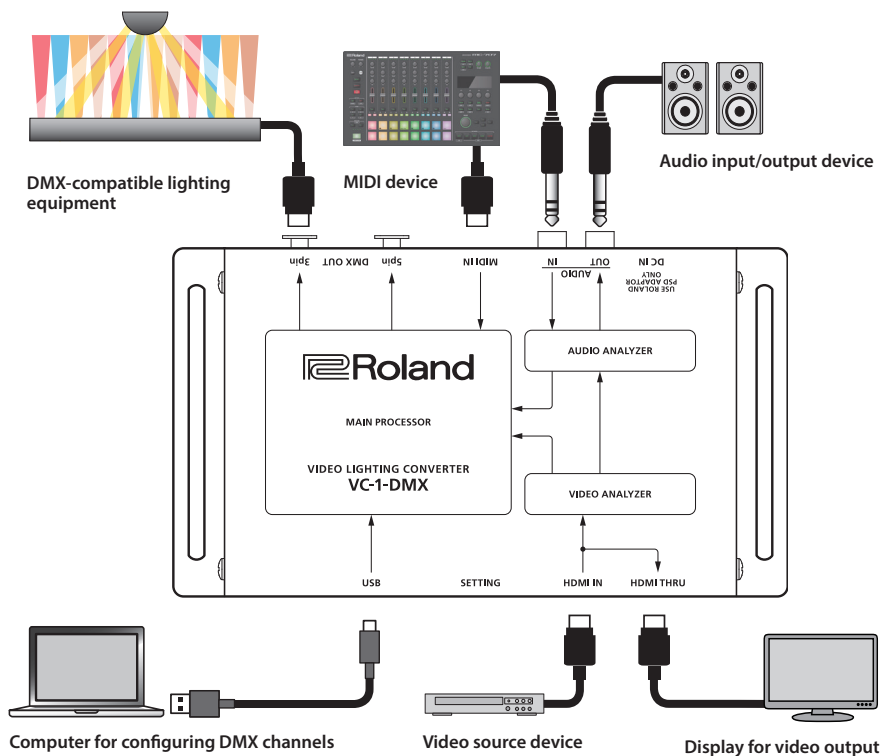
Use the plug holder to stabilize the adaptor and prevent the plug from accidentally coming loose.

To attach the plug holder, first remove the screw just above the DC IN jack, align the plug holder as shown in the illustration below and then use the screw you just removed to affix the plug holder onto the unit.



Basic Operations

Connection Example



* Do not use a USB cable that is designed only for charging a device. Charge-only cables cannot transmit data.

Turning the Power On

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

1. Mute the audio output of the devices connected to this unit.
2. Connect the included adaptor to the DC IN jack of this unit, and plug the adaptor into an AC outlet.
This turns the power on.
3. Adjust the volume of the external devices.

Turning the Power Off

1. Mute the audio output of the external devices.
2. Disconnect this unit's adaptor from the power outlet, and turn off the power of this unit.

NOTE

Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

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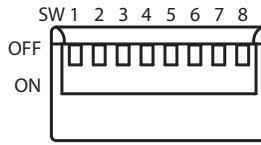
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Configuring the Operation Settings

Use the SETTING switches (1–8) on the front panel to configure the operation settings of this unit. The following settings can be modified by switching these eight switches on/off.



SETTING

SW 1/2

Sets how fast the outputted DMX signals change.

SW 1	SW 2	Setting
OFF	OFF	Sudden changes are also output.
OFF	ON	Sudden changes are not output.
ON	OFF	Changes smoothly.
ON	ON	Changes slowly.

SW 3/4

Switches the DMX channel map.

The VC-1-DMX has four maps, and you can save different settings to each one.

SW 3	SW 4	Setting
OFF	OFF	Map 1
OFF	ON	Map 2
ON	OFF	Map 3
ON	ON	Map 4

SW 5

Sets whether to flash (beat flash) the lights in time with the beat of the detected audio.

SW	Setting
OFF	Does not flash the lights.
ON	Flashes the lights in time with the beat.

SW 6

This sets the brightness of the beat flash.

SW	Setting
OFF	The standard brightness.
ON	Double the standard brightness.

SW 7

This sets the color of the beat flash.

SW	Setting
OFF	Flashes with a set color.
ON	Flashes with a color that matches the color on the screen.

SW 8

Sets what to do when the input sound is silent.

SW 8	Setting
OFF	The unit keeps analyzing the video and keeps the lighting on.
ON	The unit stops analyzing the video and turns the lighting off.

MEMO

You can connect this unit to your computer and use VC-1-DMX configuration software to make even more detailed settings.

For details, refer to "Using VC-1-DMX configuration software" (Web).

Input/Output Format

HDMI IN / THRU connectors

VIDEO * HDCP Supported * Multi-format Supported	480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p, VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz), HD (1280 x 720/60 Hz), WXGA (1280 x 800/60 Hz), SXGA (1280 x 1024/60 Hz), FWXGA (1366 x 768/ 60 Hz), SXGA+ (1400 x 1050/60 Hz), UXGA (1600 x 1200/60 Hz), FHD (1920 x 1080/60 Hz) * The refresh rate is the maximum value of each resolution. * Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11.
Audio	Linear PCM, 48 kHz, 24 bits, stereo

AUDIO IN / OUT connectors

Nominal Input / Output Level	-10 dBu
Maximum input / output level	+8 dBu
Input impedance	15 kΩ
Output Impedance	1 kΩ

* 0 dBu = 0.775 Vrms

DMX OUT 5pin / 3pin connectors

DMX channel	512 channels (1 universe)
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Main Specifications

HDMI IN / THRU connectors	Type A x 1
Audio input / output connectors	RCA phono type x 2 (stereo)
DMX output connectors	XLR type (3 pin x 1, 5 pin x 1)
Control connectors	MIDI IN connector, USB port (USB B, Hi-Speed USB) x 1
Functions	Video Synchronized Lighting Control, Audio Synchronized Lighting Control, MIDI Synchronized Lighting Control, Lighting Speed Control, HDMI Audio De-embedder
Power supply	AC Adaptor
Power consumption	5.7 W
Dimensions	180 (W) x 115 (D) x 41 (H) mm
Weight	570 g (excluding AC adaptor)
Accessories	Leaflet "USING THE UNIT SAFELY", Owner's Manual, AC adaptor, Plug holder, Rubber foot x 4

* This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

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USING THE UNIT SAFELY



WARNING

Use only the supplied AC adaptor and the correct voltage

Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.



CAUTION

Keep small items out of the reach of children

To prevent accidental ingestion of the parts listed below, always keep them out of the reach of small children.



- Accessories
 - Rubber Feet
 - Plug Holder
- Removable Parts
 - Screws



CAUTION

Handle the ground terminal carefully

If you remove the screw from the ground terminal, be sure to replace it; don't leave it lying around where it could accidentally be swallowed by small children. When refastening the screw, make that it is firmly fastened, so it won't come loose.



IMPORTANT NOTES

Placement

- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.

Repairs and Data

- Before sending the unit away for repairs, be sure to make a backup of the data stored within it; or you may prefer to write down the needed information. Although we will do our utmost to preserve the data stored in your unit when we carry out repairs, in some cases, such as when the memory section is physically damaged, restoration of the stored content may be impossible. Roland assumes no liability concerning the restoration of any stored content that has been lost.

Additional Precautions

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, try to make a habit of creating regular backups of the data you've stored in the unit.
- Roland assumes no liability concerning the restoration of any stored content that has been lost.
- This unit allows you to switch lights at high speed. For some people, viewing such lights can cause headache, nausea, or other discomfort. Roland Corporation will accept no responsibility for any such health problems that may occur in yourself or in viewers.
- Do not use connection cables that contain a built-in resistor.

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