

DM® Essentials 4K60 4:4:4 Receiver for HDMI® and USB 2.0 Signal Extension over CATx Cable, Wall Plate



- *Point-to-point extension of an HDMI® AV signal and USB 2.0 data signals over CAT5e or higher cable*
- *DM® Essentials transmission distance up to 130 ft (40 m) for UHD and 4K signals or up to 230 ft (70 m) for 1080p, WUXGA, and 2K signals*
- *4K60 4:4:4 capability*
- *HDR10, HDR10+, and Dolby Vision® video formats*
- *Compliance with HDCP 2.3*
- *CEC (Consumer Electronics Control) pass-through capability*
- *EDID pass-through capability*
- *Two-gang wall plate design with black finish*
- *Decorator style faceplate required (FP-G2-DM Series sold separately)*
- *Power from the remote DM Essentials transmitter (surface mountable only)*

The HD-RXU-4KZ-101-2G-B is a DM® Essentials 4K60 4:4:4 wall plate receiver designed to interoperate with a DM Essentials HD-TXU-4KZ Series transmitter for the extension of HDMI® and USB 2.0 signals. This is useful in applications where an AV source is located remotely from its destination, such as a display, projector, or codec solution. A CAT5e or higher twisted pair cable (Crestron [DM-CBL-8G](#) or

[DM-CBL-ULTRA](#) sold separately) must be used to connect the HD-RXU-4KZ-101-2G-B to the DM Essentials transmitter.¹

The HD-RXU-4KZ-101-2G-B is available in black (model HD-RXU-4KZ-101-2G-B-B).

Interoperability with HD-TXU-4KZ Series Transmitters

For interoperability between the HD-RXU-4KZ-101-2G-B and an HD-TXU-4KZ Series transmitter, the DM Essentials input port of the HD-RXU-4KZ-101-2G-B must be connected to the DM Essentials output port of the HD-TXU-4KZ Series transmitter.

NOTE: USB 2.0 data extension is not supported if the HD-RXU-4KZ-101-2G-B is paired with a DM Essentials transmitter other than an HD-TXU-4KZ Series transmitter or paired with a DMPS Essentials HD-PS Series switcher.

4K60 4:4:4 and HDR Support

The HD-RXU-4KZ-101-2G-B supports video resolutions up to 4K60 with 4:4:4 color sampling. HDR10, HDR10+, and Dolby Vision® video formats are also supported.²

USB 2.0 Data Extension

Two USB 2.0 host ports are provided on the HD-RXU-4KZ-101-2G-B, enabling connection to a wide variety of supported USB 2.0 peripheral devices.³

Two-Gang Wall Plate Design

The HD-RXU-4KZ-101-2G-B is designed to mount into a 2-gang U.S. electrical box or plaster ring (not included). The HD-RXU-4KZ-101-2G-B can receive power from the remote DM Essentials transmitter (surface mountable only).⁴

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Specifications

Video

Input Signal Type	DM® Essentials with HDR10, HDR10+, Dolby Vision®, Deep Color, and 4K60 4:4:4 support ²
Output Signal Type	HDMI® with HDR10, HDR10+, Dolby Vision, Deep Color, and 4K60 4:4:4 support (DVI compatible) ⁵
Copy Protection	HDCP 2.3
Resolutions	Common resolutions are listed in the following table.

Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
Progressive	4096x2160 DCI 4K & 3840x2160 4K UHD	24 Hz	4:4:4	12 bit
		30 Hz	4:4:4	12 bit
		60 Hz	4:2:2	12 bit
		60 Hz	4:4:4	8 bit
	2560x1600 WQXGA	60 Hz	4:4:4	8 bit
	1920x1080 FHD 1080p	60 Hz	4:4:4	12 bit

NOTE: The maximum supported resolution is 4K60 with 4:4:4 color sampling. Custom resolutions are supported at pixel clock rates up to 600 MHz.

Audio

Input Signal Type	DM Essentials
Output Signal Type	HDMI
Digital Formats	Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, Dolby Atmos®, DTS®, DTS ES, DTS 96/24, DTS HD® High Res, DTS-HD Master Audio, DTS:X®, LPCM up to 8 channels

Communications

HDMI	HDCP 2.3, EDID, CEC pass-through
DM Essentials	HDCP 2.3, EDID pass-through; USB 2.0 up to 300 Mbps
USB	USB signal extension via USB 2.0 host ports

Connectors

HDMI OUT	(1) HDMI Type A connector, female; HDMI digital video/audio output; DVI compatible ⁵
HOST	(2) USB Type-A connectors, female; USB 2.0 host ports; USB signal extender ports for connection to USB mice, keyboards, or other USB 2.0 peripheral devices; ³ Available Power: 500mA @ 5VDC per port
DM IN	(1) 8-pin RJ-45 yellow connector, female, shielded; DM Essentials input port for connection to a DM Essentials output port of a DM Essentials transmitter or DMPS Essentials switcher ¹
24V 0.75A	(1) 2-pin 3.5 mm detachable terminal block; 24VDC power input; Optional power pack (sold separately, required only if the HD-RXU-4KZ-101-2G-B is used with a wall plate transmitter) ⁴
Ground	(1) Chassis ground lug

Controls and Indicators

PWR	(1) LED, indicates that power is being applied to the device. Amber indicates that the device is booting. Green indicates that the device is operational.
HDMI OUT	(1) Green LED, indicates that the device is transmitting an HDMI signal
LINK	(1) Green LED, indicates that a DM Essentials link is established.
RESET	(1) Push button, restores factory default settings
DM IN	(2) LEDs on RJ 45 connector. Green indicates that a DM Essentials link is established. Flashing amber indicates non-HDCP video, and solid amber indicates HDCP video.

Power

Power Pack	Input: 100-240VAC Output: 24VDC 0.75A Model: PW-2407WUL (sold separately, required only if the HD-RXU-4KZ-101-2G-B is used with a wall plate transmitter) ⁴
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Environmental

Temperature	32° to 104°F (0° to 40°C)
Humidity	20% to 90% RH (non-condensing)

Construction

Composition	Metal housing and bracket with black polycarbonate front label overlay
Mounting	Mounts in a 1-gang (or larger) 2-1/4 inch (57 mm) deep U.S. electrical box or plaster ring (not included)
Faceplate	Requires a decorator style faceplate (FP-G2-DM series, sold separately)

Dimensions

Height	4.12 in. (105 mm)
Width	3.57 in. (91 mm)
Depth	1.70 in. (43 mm)

Weight

6.87 oz (195 g)

Compliance

Regulatory Model: M202047007

Intertek® Listed for US and Canada, CE, IC, FCC Part 15 Class B digital device

To search for product certificates, refer to support.crestron.com/app/certificates.

Model

HD-RXU-4KZ-101-2G-B-B

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Available Accessories

For a list of available accessories, visit the [HD-RXU-4KZ-101-2G-B-B](#) product page.

Notes:

- For DM Essentials connections, use Crestron [DM-CBL-8G](#), Crestron [DM-CBL-ULTRA](#), or third-party CAT5e or higher cable. For information about the maximum transmission distance for each cable type, refer to [Online Help Answer ID 1001567](#).
To safeguard against unpredictable environmental electrical noise that may impact performance at resolutions above 1080p, shielded cable and connectors are recommended for all applications and are required when bundling multiple cables in a wire run. Cables are sold separately.
- 4K60 4:4:4 performance and HDR support require the use of cables and couplers with a minimum TMDS bandwidth of 18 Gbps. If 4K60 4:2:0 or 4K30 4:4:4 performance is acceptable, cables and couplers with a minimum bandwidth of 10.2 Gbps may be used. Bandwidth loss is cumulative; therefore, performance may be reduced when inserting multiple cables and couplers inline.
- The HD-RXU-4KZ-101-2G-B is engineered to deliver maximum compatibility with the widest possible range of USB devices. Crestron does not guarantee that all USB devices are compatible with the HD-RXU-4KZ-101-2G-B.
- When a DM Essentials wall plate receiver is paired with a DM Essentials surface-mountable transmitter, the power pack included with the transmitter is used to power both devices.
If a DM Essentials wall plate receiver is paired with a DM Essentials wall plate transmitter, the devices must be powered independently by a [PW-2407WUL](#) power pack (sold separately) for each device. A wall plate receiver and wall plate transmitter cannot provide power to the remote device with which it is paired.
- The HDMI output requires an appropriate adapter or interface cable to accommodate a DVI signal. [CBL-HD-DVI](#) interface cables are sold separately.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at patents.crestron.com.

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