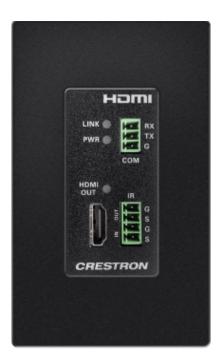


DM[®] Essentials 4K60 4:4:4 Receiver for HDMI[®], RS-232, and IR Signal Extension over CATx Cable, Wall Plate



- Point-to-point extension of HDMI®, RS-232, and IR 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
- Bidirectional RS-232 and IR pass-through capability
- EDID pass-through capability
- One-gang wall plate design with black finish
- Decorator style faceplate required (FP-G Series sold separately)
- Power from the remote DM Essentials transmitter (surface mountable only) or DMPS Essentials switcher

The HD-RXC-4KZ-101-1G is a DM® Essentials 4K60 4:4:4 wall plate receiver designed to interoperate with a DM® Essentials transmitter or DMPS Essentials switcher for the transmission of HDMI®, RS-232, and IR signals. A CAT5e or higher twisted pair cable (Crestron <u>DM-CBL-8G</u> or <u>DM-CBL-ULTRA</u> sold separately) is needed to connect the HD-RXC-4KZ-101-1G to the DM Essentials transmitter or DMPS Essentials switcher. For 1080p, WUXGA, and 2K signals, a cable length of up to

230 ft (70 m) is supported. For UHD and 4K signals, a cable length of up to 130 ft (40 m) is supported. 1

The HD-RXC-4KZ-101-1G is available in black (model HD-RXC-4KZ-101-1G-B).

Interoperability with a DM Essentials Transmitter or DMPS Essentials Switcher

The DM Essentials input port of the HD-RXC-4KZ-101-1G must be connected to a DM Essentials output port of a DM Essentials transmitter or DMPS Essentials switcher. Examples of supported DM Essentials 4K60 4:4:4 transmitters are the HD-TXC-4KZ-101 and HD-TXCA-4KZ-101. Supported DMPS Essentials switchers are the HD-PS622, HD-PS621, HD-PS402, and HD-PS401.

The DM Essentials input port of the HD-RXC-4KZ-101-1G must be connected to a DM Essentials output port of a DM Essentials transmitter or DMPS Essentials switcher. Examples of supported DM Essentials transmitters are the HD-TXU-4KZ-111-E, HD-TXU-4KZ-111-2G, HD-TXU-4KZ-211, HD-TXC-4KZ-101, and HD-TXCA-4KZ-101. Supported DMPS Essentials switchers are the HD-PS622, HD-PS621, HD-PS402, and HD-PS401.

The HD-RXC-4KZ-101-1G can be configured and controlled only when it is used with a DMPS Essentials switcher. The web interface of the switcher can be used to configure the HD-RXC-4KZ-101-1G. In addition, control system programming and .AV Framework™ software support of the HD-RXC-4KZ-101-1G is hosted by the switcher.

4K60 4:4:4 and HDR Support

The HD-RXC-4KZ-101-1G supports video resolutions up to 4K60 with 4:4:4 color sampling. HDR10, HDR10+, and Dolby Vision® video formats are also supported.²

One-Gang Wall Plate Design

The HD-RXC-4KZ-101-1G is designed to mount into a 1-gang U.S. electrical box or plaster ring (not included). The HD-RXC-4KZ-101-1G can receive power from the remote DM Essentials transmitter (surface mountable only) or DMPS Essentials switcher.³





DM[®] Essentials 4K60 4:4:4 Receiver for HDMI[®], RS-232, and IR Signal Extension over CATx Cable, Wall Plate

Specifications

TypeVision®, Deep Color, and 4K60 4:4:4 suppOutputHDMI® with HDR10, HDR10+, Dolby VisionSignal TypeDeep Color, and 4K60 4:4:4 support (DV	DM® Essentials with HDR10, HDR10+, Dolby			
	•			
compatible) ⁴				
Copy HDCP 2.3 Protection				
Resolutions Common resolutions are listed in the following table.				
	Color Depth			
4096x2160 24 Hz 4:4:4 12	2 bit			
	2 bit			
	2 bit			
	bit			
Progressive 2560x1600 WQXGA 60 Hz 4:4:4 8 k	bit			
1920x1080 FHD 60 Hz 4:4:4 12 1080p	2 bit			
Interlaced 1920x1080 HD 1080i 30 Hz 4:4:4 12	2 bit			
NULE: The maximum supported resolution is 4K60				
nput Signal Type DM Essentials Dutput Signal HDMI				
with 4:4:4 color sampling. Custom resolutions are supported at pixel clock rates up to 600 MHz. Audio nput Signal Type DM Essentials	DTS			
with 4:4:4 color sampling. Custom resolutions are supported at pixel clock rates up to 600 MHz. Audio nput Signal Type DM Essentials Dutput Signal HDMI Type Digital Formats Dolby Digital®, Dolby Digital EX, Doll Digital Plus, Dolby® TrueHD, Dolby Atmos [®] , DTS®, DTS ES, DTS 96/24, D HD [®] High Res, DTS-HD Master Audio DTS:X [®] , LPCM up to 8 channels	DTS			
with 4:4:4 color sampling. Custom resolutions are supported at pixel clock rates up to 600 MHz. Audio nput Signal Type DM Essentials Dutput Signal HDMI Type Digital Formats Dolby Digital®, Dolby Digital EX, Doll Digital Plus, Dolby® TrueHD, Dolby Atmos®, DTS®, DTS ES, DTS 96/24, D HD® High Res, DTS-HD Master Audio DTS:X®, LPCM up to 8 channels	DTS io,			
with 4:4:4 color sampling. Custom resolutions are supported at pixel clock rates up to 600 MHz. Audio nput Signal Type DM Essentials Dutput Signal HDMI Type Digital Formats Dolby Digital®, Dolby Digital EX, Doll Digital Plus, Dolby® TrueHD, Dolby Atmos®, DTS®, DTS ES, DTS 96/24, D HD® High Res, DTS-HD Master Audio DTS:X®, LPCM up to 8 channels	DTS io,			

IR	Bidirectional IR signal pass-through up to 60 kHz
Connectors	
IR IN/OUT	 (1) 4-pin 3.5 mm detachable terminal block; Comprised of (1) IR input port and (1) IR output port; IR IN is for connection from a Crestron IR control port or other IR signal source and passes the IR input signal to the IR OUT port on the DM Essentials transmitter; IR OUT is for connection to an IR emitter (IRP2, sold separately) and transmits the IR signal from the IR IN port on the DM Essentials transmitter; Supports IR up to 60 kHz
СОМ	 (1) 3-pin 3.5 mm detachable terminal block; Bidirectional RS-232 port; Passes RS-232 TD/RD data to/from the COM port on a DM Essentials transmitter; Supports up to 115.2k baud
HDMI OUT	(1) HDMI Type A connector, female; HDMI digital video/audio output; DVI compatible ⁴
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, 5}
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-RXC-4KZ-101-1G is used with a wall plate transmitter) ³
Ground	(1) Chassis ground lug
Controls and Ind	
LINK	(1) Green LED, indicates that a DM Essentials link is established.
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





DM® Essentials 4K60 4:4:4 Receiver for HDMI®, RS-232, and IR Signal Extension over CATx Cable, Wall Plate

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.	A Fo HI No
Power		
Power Pack (Optional)	Input: 100-240VAC Output: 24VDC 0.75A Model: <u>PW-2407WUL</u> (sold separately, required only if the HD-RXC-4KZ-101-1G is used with a wall plate transmitter) ³	2
Environmental		
Temperature	32° to 104°F (0° to 40°C)	3
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)	4
Faceplate	Requires a decorator style faceplate (<u>FP-G</u> series, sold separately)	Th dis
Dimensions		rep
Height	4.12 in. (105 mm)	ad yo
Width	1.72 in. (44 mm)	,o Th
Depth	2.19 in. (56 mm)	<u>~~</u>
Weight		Th pa
5.40 oz (153 g)		Ce inf
Compliance		Cr reg
Regulatory Model	M202045001	ot tro
Intertek® Listed fo FCC Part 15 Class	r US and Canada, CE, IC, B digital device	St or co

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

Model

HD-RXC-4KZ-101-1G-B

DM® Essentials 4K60 4:4:4 Receiver for HDMI®, RS-232, and IR Signal Extension over CATx Cable, Wall Plate, Black

Available Accessories

For a list of available accessories, visit the HD-RXC-4KZ-101-1G-B product page.

Notes: 1.

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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 HDMI 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.
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.
When a DM Essentials receiver is paired with a DMPS Essentials switcher, the switcher provides power to the DM Essentials receiver.
If a DM Essentials wall plate receiver is paired with a DM Essentials wall plate transmitter, the devices must be powered independently by a <u>PW-2407WUL</u> 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. <u>CBL-HD-DVI</u> interface cables are sold separately.
product may be purchased from select authorized Crestron dealers and ibutors. To find a dealer or distributor, please contact the Crestron sales esentative for your area. A list of sales representatives is available online at v.crestron.com/How-To-Buy/Find-a-Representative or contact us for tional information by visiting www.crestron.com/contact/our-locations for local contact.
product is covered under the Crestron standard limited warranty. Refer to v.crestron.com/warranty for full details.
specific patents that cover Crestron products are listed online at ints.crestron.com.
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Specifications are subject to change without notice.





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Rev 08/22/24



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