

# HD-RX-4KZ-101

## DM Lite® 4K60 4:4:4 Receiver for HDMI® Signal Extension over CATx Cable



- *Interoperability with a DM Lite® transmitter or DMPS Lite™ switcher*
- *Point-to-point extension of an HDMI® signal over a CAT5e or higher cable*
- *DM Lite 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*
- *Compact, surface-mountable design*
- *Power from 24VDC power pack (included) or from remote DM Lite transmitter or DMPS Lite switcher*

The HD-RX-4KZ-101 is a DM Lite® 4K60 4:4:4 receiver designed to interoperate with a DM Lite® transmitter or DMPS Lite™ switcher for the transmission of an HDMI® signal. A CAT5e or higher twisted pair cable is used to connect the HD-RX-4KZ-101 to the DM Lite transmitter or DMPS Lite 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.<sup>1</sup>

### Interoperability with a DM Lite Transmitter or DMPS Lite Switcher

The DM Lite input port of the HD-RX-4KZ-101 must be connected to a DM Lite output port of a DM Lite transmitter or DMPS Lite switcher. Examples of supported DM Lite 4K60 4:4:4 transmitters are the HD-TX-4KZ-101, HD-TX-4KZ-111, HD-TXA-4KZ-101, HD-TXC-4KZ-101, and HD-TXCA-4KZ-101. Supported DM Lite 4K60 4:2:0 transmitters are the HD-TX-101-C-E, HD-TXC-101-C-E, HD-TX-301-C-E, HD-TX-101-C-1G-E, HD-TXC-101-C-1G-E, and HD-TX-201-C-2G-E. Supported DMPS Lite switchers are the HD-PS622, HD-PS621, HD-PS402, and HD-PS401.

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

### 4K60 4:4:4 and HDR Support

The HD-RX-4KZ-101 supports video resolutions up to 4K60 with 4:4:4 color sampling. HDR10, HDR10+, and Dolby Vision® video formats are also supported.<sup>2</sup>

### Compact, Surface-Mountable Design

Compact in design, the HD-RX-4KZ-101 can be mounted onto a flat surface such as a wall behind a flat-panel display or a ceiling above a projector. It can also be attached to a single rack rail in the back of an equipment cabinet. The HD-RX-4KZ-101 can receive power from the included power pack or from the remote DM Lite transmitter or DMPS Lite switcher.<sup>3</sup>

# HD-RX-4KZ-101

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### Specifications

#### Video

|                           |  |
|---------------------------|--|
| <b>Input Signal Type</b>  | DM Lite® with HDR10, HDR10+, Dolby Vision®, Deep Color, and 4K60 4:4:4 support <sup>2</sup>              |
| <b>Output Signal Type</b> | HDMI® with HDR10, HDR10+, Dolby Vision, Deep Color, and 4K60 4:4:4 support (DVI compatible) <sup>4</sup> |
| <b>Copy Protection</b>    | HDCP 2.3   |
| <b>Resolutions</b>        | 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       |
| Progressive | 2560x1600 WQXGA                     | 60 Hz      | 4:4:4          | 8 bit       |
|             | 1920x1080 FHD 1080p                 | 60 Hz      | 4:4:4          | 12 bit      |
| Interlaced  | 1920x1080 HD 1080i                  | 30 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

|                           |  |
|---------------------------|--|
| <b>Input Signal Type</b>  | DM Lite  |
| <b>Output Signal Type</b> | HDMI   |
| <b>Digital Formats</b>    | 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

|                |                                  |
|----------------|----------------------------------|
| <b>HDMI</b>    | HDCP 2.3, EDID, CEC pass-through |
| <b>DM Lite</b> | HDCP 2.3, EDID pass-through      |

#### Connectors

|                   |   |
|-------------------|---|
| <b>HDMI OUT</b>   | (1) HDMI Type A connector, female; HDMI digital video/audio output; DVI compatible <sup>4</sup>   |
| <b>DM LITE IN</b> | (1) 8-pin RJ-45 yellow connector, female, shielded; DM Lite input port for connection to the DM Lite output port of a DM Lite transmitter or DMPS Lite™ switcher <sup>1,5</sup> |
| <b>24V 1.25A</b>  | (1) 2.1 x 5.5 mm DC power connector; 24VDC power input; <a href="#">PW-2420RU</a> power pack included <sup>3</sup>  |
| <b>Ground</b>     | (1) Chassis ground lug  |

#### Controls and Indicators

|                   |   |
|-------------------|---|
| <b>LINK</b>       | (1) Green LED, indicates that a DM Lite link is established.  |
| <b>PWR</b>        | (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.       |
| <b>HDMI OUT</b>   | (1) Green LED, indicates that the device is transmitting an HDMI signal   |
| <b>DM LITE IN</b> | (2) LEDs on RJ 45 connector. Green indicates that a DM Lite link is established. Flashing amber indicates non-HDCP video, and solid amber indicates HDCP video. |

#### Power

|                              |  |
|------------------------------|--|
| <b>Power Pack (Included)</b> | Input: 100-240VAC<br>Output: 24VDC 2.5A<br>Model: <a href="#">PW-2420RU</a> <sup>3</sup> |
|------------------------------|--|

#### Environmental

|                    |                                |
|--------------------|--------------------------------|
| <b>Temperature</b> | 32° to 104°F (0° to 40°C)      |
| <b>Humidity</b>    | 20% to 90% RH (non-condensing) |

#### Enclosure

|                 |  |
|-----------------|--|
| <b>Chassis</b>  | Metal, black finish, vented sides, 2 mounting brackets included      |
| <b>Mounting</b> | Freestanding, surface mountable, or attachment to a single rack rail |

# HD-RX-4KZ-101

## DM Lite® 4K60 4:4:4 Receiver for HDMI® Signal Extension over CATx Cable

### Dimensions

|               |                   |
|---------------|-------------------|
| <b>Height</b> | 4.13 in. (105 mm) |
| <b>Width</b>  | 4.18 in. (106 mm) |
| <b>Depth</b>  | 1.08 in. (27 mm)  |

### Weight

11.82 oz (335 g)

### Compliance

#### Regulatory Model: M202047002

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](http://support.crestron.com/app/certificates).

### Model

#### HD-RX-4KZ-101

DM Lite® 4K60 4:4:4 Receiver for HDMI® Signal Extension over CATx Cable

### Included Accessories

#### PW-2420RU

Desktop Power Pack, 24VDC, 2.5A, 2.1 mm

### Available Accessories

For a list of available accessories, visit the [HD-RX-4KZ-101](http://HD-RX-4KZ-101) product page.

### Notes:

- For DM Lite 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 surface-mountable DM Lite receiver is paired with a surface-mountable DM Lite transmitter, either the power pack included with the receiver or the transmitter can be used to power both devices. A power pack must not be connected to both devices simultaneously.  
  
When a surface-mountable DM Lite receiver is paired with a wall plate DM Lite transmitter, the power pack included with the receiver must be used to power both devices.  
  
When a DM Lite receiver is paired with an HD-PS622, HD-PS621, HD-PS402, or HD-PS401 DMPS Lite switcher, the switcher provides power to the DM Lite receiver. The DM Lite receiver must not be connected to the included power pack.
- The HDMI output requires an appropriate adapter or interface cable to accommodate a DVI signal. CBL-HD-DVI interface cables are sold separately.
- Examples of supported DM Lite 4K60 4:4:4 transmitters are the HD-TX-4KZ-101, HD-TX-4KZ-111, HD-TXA-4KZ-101, HD-TXC-4KZ-101, and HD-TXCA-4KZ-101. Supported DM Lite 4K60 4:2:0 transmitters are the HD-TX-101-C-E, HD-TXC-101-C-E, HD-TX-301-C-E, HD-TX-101-C-1G-E, HD-TXC-101-C-1G-E, and HD-TX-201-C-2G-E. Supported DMPS Lite switchers are the HD-PS622, HD-PS621, HD-PS402, and HD-PS401.

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## DM Lite® 4K60 4:4:4 Receiver for HDMI® Signal Extension over CATx Cable

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](http://www.crestron.com/How-To-Buy/Find-a-Representative) or contact us for additional information by visiting [www.crestron.com/contact/our-locations](http://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](http://www.crestron.com/warranty) for full details.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open-source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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### HDMI

Specifications are subject to change without notice.

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