

VisionLink RCX

Remote camera extender for Camera Link over fiber



Features

Extender adapts base mode Camera Link over fiber Attaches to the device's MDR26 connector, replacing Camera Link cables Joins with a second extender to form a fiberoptic extension cord Enables remote operation for distances beyond the limits of electrical cable Provides electrical isolation of camera from host Supports data rates of up to 255 MB/s Supports triggering / serial via Camera Link or externally via optional Lemo Supports the full Camera Link pixel clock range of 20-85 MHz (base mode)

Description

The VisionLink RCX is a remote extender for AIA Camera Link devices. It extends base mode Camera Link over fiber to exceed the limits of electrical cabling. Similar in size to a standard Camera Link connector, the extender supports data rates up to 255 MB/s and pixel clock rates of 20-85 MHz.

Two extenders combine to form a fiberoptic extension cord between the camera and an EDT or third-party Camera Link framegrabber. Through the Camera Link standard MDR26 (or, with an adapter, the SDR26) connector on each device, one extender attaches to the camera and the other to the framegrabber. A fiberoptic cable then connects the two extenders by the SFP transceiver on the back of each.

Triggering / serial is provided via Camera Link, or externally via an optional Lemo connector.

Applications

Astronomy / biology / microscopy Aerial mapping / traffic systems Commercial film / multimedia Medical and nuclear imaging Remote scientific monitoring Manufacturing / inspection Machine vision / robotics Security / surveillance Scanning / archiving

| Product Type | VisionLink RCX is a remote camera extender for base mode Camera Link over fiberoptic cable. | | | | |
|------------------------|---|---|---|--|--|
| Memory | FIFOs for up to several lines of data; no frame memory | | | | |
| Data Rates | Base mode | Up to 255 MB/s | Up to 255 MB/s | | |
| Data Format (I/O) | Camera Link | | | | |
| Camera Link Compliance | Version Modes Pixel clock rate Serial Control Connector | 2.0 Base 20–85 MHz 9600 to 115,200 baud C1–CC4 One MDR26 | | | |
| EU Compliance | CE RoHS WEEE | TBD TBD WEEE directive 2002/96 | 5/EC | | |
| Laser Safety | Class 1 (for EDT-supplied transceivers) | | | | |
| Noise | 0 dB | | | | |
| Transceiver | One fiberoptic SFP with duplex LC; standard Wavelength Cable 850 nm 62-µ MMF 850 nm 50-µ MMF 1310 nm 9-µ SMF For longer ranges (10 to 100+ kilometers) | Range at 1.25 Gb/s 300 meters 500 meters 10 kilometers | Range at 2.5 Gb/s 150 meters 250 meters 5 kilometers s are available in various wav | Range at 3.125 Gb/s 70 meters 150 meters 4 kilometers elengths; contact EDT. | |
| Triggering / Serial | Camera Link CC1–CC4, SERTC, SERTFG CC1-CC4, SERTFG Optional 7-pin Lemo ECG.0B.307.CLV; mate to FGG.0B.307.CLAD.56 | | | .307.CLAD.56 | |
| Power | Consumption 2 watts at 4.75 to 28 V DC Supply 4.75 to 28 V DC Connector (standard) 2-conductor Switchcraft 712RA; mate to Switchcraft 760K Connector (optional)* 7-pin Lemo ECG.0B.307.CLV; mate to FGG.0B.307.CLAD.56 * The optional Lemo connector provides external control either for triggering and single serial, or for dual serial (one via Camera Link and one via an independent port). | | | | |
| Cabling / Adapters | Cabling is purchased separately; consult EDT for options.Fiber connection polishStandard physical contact (PC)Camera Link adapters (SDR-to-MDR and MDR-to-MDR)Available for applications with special requirements | | | | |
| Physical | Weight Dimensions (add 2.2 in. for required 90° ben | for LC) 2.4 x 1.6 x 0.75 in., excl | 4.1 oz. with a typical transceiver, or 3.5 oz. with no transceiver 2.4 x 1.6 x 0.75 in., excluding connectors and thumbscrews 3.3 x 1.6 x 0.75 in., including connectors and thumbscrews (screwed in) | | |
| Environmental | Temperature (operating / non-operating) Humidity (operating / non-operating) | TBD TBD | | | |

Ordering Options

| Part number | Description |
|-------------|--------------------------|
| 053-14947 | Extender |
| 053-15048 | Extender, Lemo |
| 037-14141 | Transceiver, 1310 nm SFP |
| 037-12657 | Transceiver, 850 nm SFP |

International Distributors



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