

VisionLink RCX

Remote camera extender over fiber for Camera Link, base mode



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 (tens to thousands of meters from host computer) 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 Camera Link base mode over fiber. The camera can be tens to thousands of meters from the host, depending on cabling and transceivers.

Similar in size to a standard Camera Link connector, the extender supports data rates up to 255 MB/s and pixel clock frequencies of 20-85 MHz.

Two extenders combine to form a fiberoptic extension system 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 Manufacturing / inspection Machine vision / robotics Security / surveillance Scanning / archiving Remote sensing



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Memory	FIFOs for up to several lines of data; no frame memory				
Data Rates	Base mode		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 CC1-CC4 One MDR26		
EU Compliance	TBD				
Laser Safety	Class 1 (for EDT-supplied transceivers)				
Noise	0 dB				
Transceiver	Each extender has one fiber Wavelength 850 nm 850 nm 1310 nm For longer ranges (10 to 10	Cable 62-µ ММF 50-µ ММF 9-µ SMF	Range at 1.25 Gb/s 300 meters 500 meters 10 kilometers	Range at 2.5 Gb/s 150 meters 250 meters 5 kilometers	Range at 3.125 Gb/s 70 meters 150 meters 4 kilometers elengths; contact EDT.
Triggering / Serial	Camera Link External triggering / auxiliary serial		CC1-CC4, SERTC, SERTFG Optional 7-pin Lemo ECG.0B.307.CLV; mate to FGG.0B.307.CLAD.56		
Power	Consumption Supply Connector (standard) Connector (optional)		Less than 2 watts at 4.75 to 28 V DC 4.75 to 28 V DC 2-conductor Switchcraft 712RA; mate to Switchcraft 760K 7-pin Lemo ECG.0B.307.CLV; mate to FGG.0B.307.CLAD.56		
Cabling / Adapters	Cabling is purchased separately; consult EDT for options. Fiber connection polish Standard physical contact (PC) Camera Link adapters (SDR-to-MDR and MDR-to-MDR) Available for applications with special requirements				
Physical	Weight Dimensions		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	Component VisionLink RCX (with no transceivers) Transceiver, 850nm Transceiver, 1310nm		Temperature (operating / non-operating) -40 to +60° C / -40 to +60° C -20 to +85° C / -40 to +85° C 0 to +70° C / -40 to +85° C		
System and Software	Computer system requireme Software for updating exten				

Ordering Options

Part number(s)	Description
053-14947	Extender
053-15048	Extender + Lemo
037-12657	Transceiver, 850 nm SFP
037-15346	Transceiver, 1310 nm SFP+

Bold is default. Ask about custom options.



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