

VisionLink XF

Remote camera extender over fiber for Camera Link, extended full mode



The VisionLink XF is a fiber extender for base through extended full (80-bit) mode Camera Link. The fiber provides electrical isolation and allows the camera to be tens to thousands of meters from the host computer, depending on transceivers and cabling.

Each extender supports data rates up to 850 MB/s, with a pixel clock of 20-85 MHz.

The extenders work in pairs. One unit connects to the camera and the other to an EDT or third-party frame grabber via Camera Link cables. Fiberoptic cable then connects the two units for a complete extension system.

Triggering / serial is provided via Camera Link, or externally via a Lemo power connector which can replace the standard Switchcraft power connector.

Features

Extender adapts Camera Link modes (base through 80-bit) over fiber Supports base through 80-bit mode up to 85 MHz Joins with a second extender to form a fiber-optic extension system

Enables remote operation (tens to thousands of meters from host computer)

Provides electrical isolation of camera from host

Supports triggering / serial via Camera Link or externally via optional Lemo

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

Memory	FIFOs for up to several lines of data; no frame memory			
Data Rates	Up to 850 MB/s (maximum Camera Link rate)			
Data Format (I/O)	Camera Link			
Camera Link Compliance	Version 2.0 Modes Base through extended full (80-bit) mode Pixel clock rate 20-85 MHz Serial 9600 to 115,200 baud Control CC1-CC4 Connector Two SDR26			
EU Compliance	CE RoHS WEEE	TBD TBD WEEE directive 2002/96		
Laser Safety	Class 1 (for EDT-supplied transceivers)			
Noise	0 dB			
Transceiver	Each extender has one fiberoptic SFP+ (10 Gb, Wavelength 850 nm 850 nm 1310 nm For longer ranges (10 to 100+ kilometers):	Cable 62.5-μ MMF (0M1) 50-μ MMF (0M3) 9-μ SMF	Range at 10 Gb/s 33 meters 300 meters Up to 10 kilometers s are available in various wavelengths; contact EDT.	
Triggering / Serial	Camera Link External triggering / auxiliary serial		CC1–CC4, SERTC, SERTFG Optional 7-pin Lemo ECG.OB.307.CLV; mate to FGG.OB.307.CLAD.56	
Power	Consumption Supply Connector (standard) Connector (optional)*	12 V DC 2-conductor Switchcraf	Less than 5 watts at 12 V DC 12 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	Required cabling is purchased separately; see Camera Link cables Fiberoptic cable Fiber connection polish	able See Transceiver section above		
Physical	Weight Dimensions	6.6 oz. 3.00" W x 3.25" L x 1.2!	6.6 oz. 3.00" W x 3.25" L x 1.25" H	
Environmental	Component VisionLink XF (with no transceivers) Transceiver, 850nm Transceiver, 1310nm	-40 to +60° C / -40 to + 0 to +70° C / -40 to +85	Temperature (operating / non-operating) -40 to +60° C / -40 to +60° C 0 to +70° C / -40 to +85° C -5 to +75° C / -40 to +85° C	

Ordering Options

Part number(s)	Description	
053-15258 / 053-15329	1 extender, camera end: Switchcraft / Lemo	
053-15332 / 053-15333	1 extender, frame grabber end: Switchcraft / Lemo	
037-15280 / 037-15346	2 transceivers, SFP+: 850 / 1310 nm	
016-15341 / 016-15340	Cables, Camera Link (1 meter): 4 SDR-to-SDR / 4 SDR-to-MDR (or 2 of each type)	
Contact EDT	1 cable: fiber-optic	
Bold is default. Ask about custom options.		

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