

# VisionLink XF

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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

## **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

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 Modes Pixel clock rate Serial Control Connector	2.0 Base through extended full (80-bit) mode 20-85 MHz 9600 to 115,200 baud CC1-CC4 Two SDR26
EU Compliance	TBD	
Laser Safety	Class 1 (for EDT-supplied transceivers)	
Noise	0 dB	
Transceiver	Wavelength 850 nm 850 nm 1310 nm	duplex LC; standard wavelengths and cables include  Cable Range at 10 Gb/s 62.5-\(mu\) MMF (0M1) 33 meters 50-\(mu\) MMF (0M3) 300 meters 9-\(mu\) SMF Up to 10 kilometers nd bidirectional transceivers are available in various wavelengths; contact E
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, revision 00 XF only Supply, revision 10 and above Connector (standard) Connector (optional)	Less than 5 watts at 12 V DC 12 V DC 12 V — 24 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 below Camera Link cables (1 meter each) Fiber-optic cable Fiber connection polish	and consult EDT for options.  SDR-to-MDR or SDR-to-SDR  See Transceiver section above  Standard physical contact (PC)
Physical	Weight Dimensions	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	Temperature (operating / non-operating) -40 to +60° C / -40 to +60° C 0 to +70° C / -40 to +85° C 0 to +70° C / -40 to +85° C
System	Computer system requirements are framegrabber-dependent; for details, see the user's guide for your framegrabber.	
МТВГ	w/o fan w/fan *Fan not a critical component if adequate external co	100,000 hrs 28,000 hrs*

## Ordering Options

Part number(s)
053-15258 / 053-15329 Extender, camera end: Switchcraft / Lemo
053-15332 / 053-15333 Extender, frame grabber end: Switchcraft / Lemo
037-13789 / 037-15346 Transceiver, SFP+ (in extender): 850 / 1310 nm
016-15340 Cabling, Camera Link (1 meter): SDR-to-MDR
016-15341 Cabling, Camera Link (1 meter): SDR-to-SDR
Cabling: fiber-optic

Bold is default. Ask about custom options.



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