

# CFL-3 Camera Fiber-Link Extender

## Supports Base Configurations, Two Fibers



### The Logical Solution

Machine-vision and security applications often need to locate cameras in different locations from the controlling computers. Long distance image transmission, security and resolution become top priority in these environments. The Thinklogical™ Camera Fiber-Link extension system was developed for the Camera-Link™ standard for high performance digital cameras and frame grabbers.

### The Features

- Supports Camera-Link™ base configurations with pixel clocks from 20-85MHz
- Extend camera signals up to 1000 meters (3280 feet) using standard multi-mode fiber
- Transparent Camera-Link™ operation
- Small form factor, units are self-contained and do not require user adjustments
- Signal transmission via fiber optic cable – no RF interference
- Serial Port (RJ45) with RS232 interface
- Class 1M laser product

### The System

The Camera Fiber-Link system consists of a pair of components that are interconnected using a duplex multi-mode fiber optic cable, allowing Camera-Link™ video support up to 1000 meters (3280 feet) from the host computer.

Each system consists of a Camera side unit and a Frame Grabber side unit (both units are similar in appearance, but are labeled differently). Each extender supports the camera signals, as well as serial connections (both the SerTFG and SerTC within the MDR cable, and three pairs of RS-232 lines). The CFL-3 supports Base configurations and requires two fibers. The units are housed in a compact metallic enclosure small enough to mount easily in cramped environments.

The CFL-3 is available with SC-, ST-, or LC-type fiber connectors.

To compliment its line of Camera Fiber-Link extenders for the Camera-Link™ standard, Thinklogical™ has also developed high performance USB 2.0 and Firewire 800 camera extenders. Please contact a Thinklogical™ sales representative for details.

## Copper Connectors

### Camera Side

Video	MDR-26 (1)
Serial	RJ45
Power	2.5mm connector
Fiber Connectors	SC, ST, or LC (2)

### Frame Grabber Side

Video	MDR-26 (1)
Serial	RJ45
Power	2.5mm connector
Fiber Connectors	SC, ST, or LC (2)

### Cables Included

MDR-26 Camera-Link™ Cable, 2 meters (2)

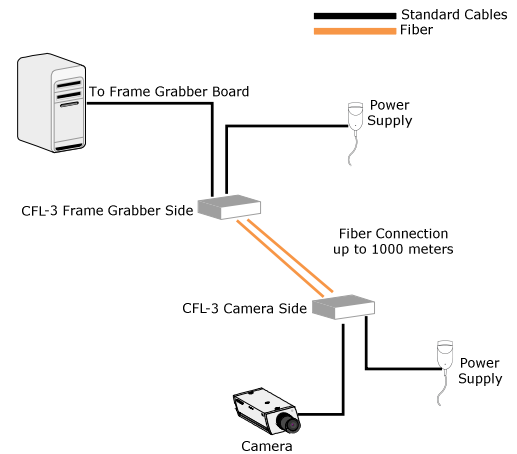
#### **KIT-000013-R which contains:**

- DB9 Male to RJ45 Female Adaptor (1)
- DB9 Female to RJ45 Female Adaptor (1)
- CAT 5 Cable, 3 meters (2)

## Specifications

Pixel Clock	20-85 MHz
Supply Voltage	+5.0 VDC
Operating Temp.	0°-50°C; (32°-122°F)
Humidity	5-95% RH, non-condensing
Dimensions	Height: 1.25" (3.2cm)
And Weights	Depth: 5.44" (13.8cm)
	Width: 6.88" (17.5cm)
	Weight: 1lb (0.45kg) each
	Shipping Weight: 6lb
	(2.72kg) pair
	(Tolerance: ± .039"; .100cm)
Optical Cable	Two fibers, multi-mode
	50 or 62.5 micron
	(available, not supplied)
Optical Distance	Up to 1000 meters
	(3280 feet)
Power Consumption	<10 watts per unit
DC Adapter	AC/DC adapter universal
	Input 100-240VAC, 50-60Hz
	(supplied)
Compliance	Approvals for US, Canada,
	and European Union
Warranty	12 months from date of
	shipment.
Extended warranties available	

## Typical Application for CFL-3



*Supports all Camera-Link™ base configurations with pixel clock from 20-85 MHz and extends camera signals up to 1000 meters (3280 feet) using standard multi-mode fiber*

## Ordering Information

Part Number	Description
CFL-000003-SC	Camera Fiber-Link Extender Pair, Base, SC
CFL-000003-SCTX	Camera Fiber-Link Extender Camera Side, Base, SC
CFL-000003-SCRX	Camera Fiber-Link Extender Frame Grabber Side, Base, SC
CFL-000003-ST	Camera Fiber-Link Extender Pair, Base, ST
CFL-000003-STTX	Camera Fiber-Link Extender Camera Side, Base, ST
CFL-000003-STRX	Camera Fiber-Link Extender Frame Grabber Side, Base, ST
CFL-000003-LC	Camera Fiber-Link Extender Pair, Base, LC
CFL-000003-LCTX	Camera Fiber-Link Extender Camera Side, Base, LC
CFL-000003-LCRX	Camera Fiber-Link Extender Frame Grabber Side, Base, LC

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