

# QUICK START GUIDE

# Camera Fiber-Link CFL-4000

Hi-Speed Base/Medium/Full Extender

Thinklogical's Camera Fiber-Link System® uses a Camera Side Unit and a Frame Grabber Side Unit connected by duplex, multi-mode, fiber-optic cables to allow Camera Link video support up to 500 meters (1640 feet) from the host computer *with no loss of signal or resolution and without the use of amplifiers or repeaters of any kind.*

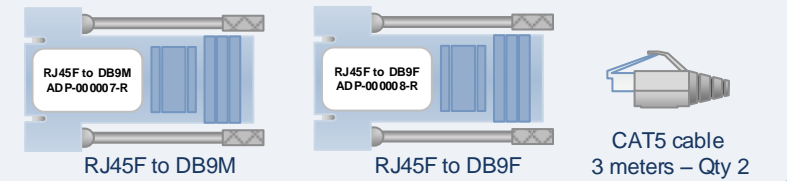
With Thinklogical's industrial enhancements, the Camera Fiber-Link System is ideal for any application.

- Supports all Camera-Link base/medium/full configurations with a pixel clock from 20-85MHz.
- Threaded screw-lock input power connectors
- Compact, light-weight design

## STEP 1: Verify the contents.

When you receive your Thinklogical® CFL-4000 Camera Fiber-Link system, you should find the following items:

- Camera Fiber-Link (CFL-4000 Camera Side) Transmitter
- Camera Fiber-Link (CFL-4000 Frame Grabber Side) Receiver
- 5VDC Power Supply – Quantity 2
- MDR-26 Cable, 2 Meters (CBL-000007-002MR) – Quantity 2
- Camera Fiber-Link Adapter/Cable Kit (KIT-000013-R) – Quantity 1



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**STEP 2:** Connect **multi-mode fiber optic cables** between the Frame Grabber side unit and the Camera side unit (up to 500 meters). Be sure not to kink or pinch the cables and keep all bend radii to no less than 3 inches.

Connect:  
L1 to L1, L2 to L2 and L3 to L3

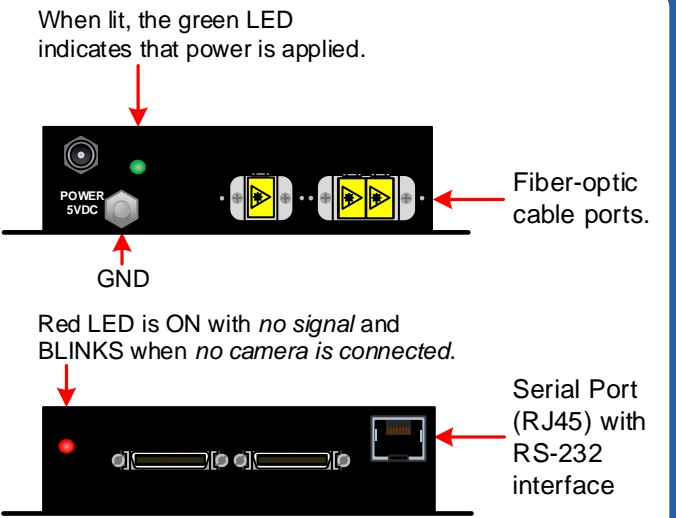
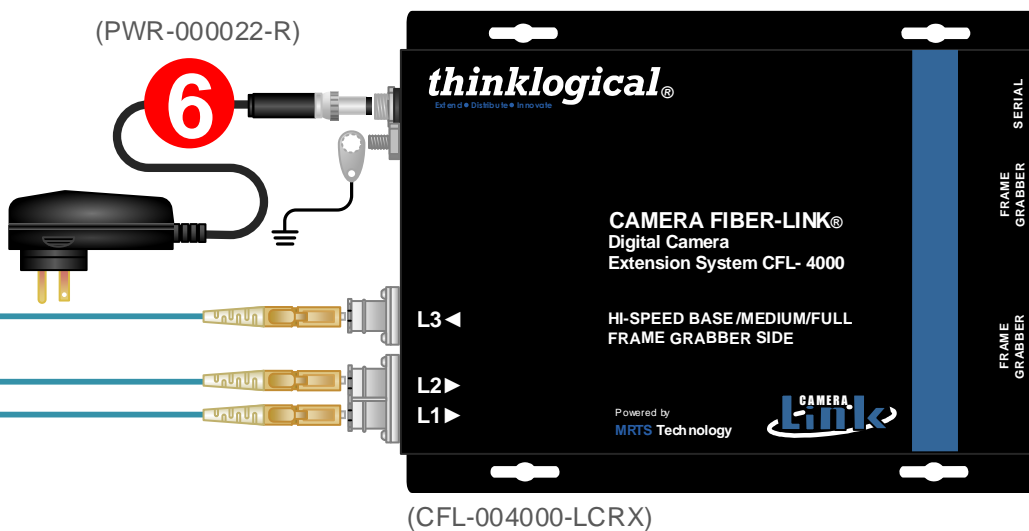
Multi-Mode Fiber models are available with SC-, ST-, or LC-type fiber connectors.

To complement its line of Camera Fiber-Link extenders, Thinklogical also offers high performance **USB 2.0** and **Firewire 800** Camera Extenders. Please contact a Thinklogical sales representative for details.

## Camera Fiber-Link Sample Rate:

- Communications from Camera to Frame Grabber, SerTFG-Differential pair with serial communications to frame grabber: 97MHz.
- Communications from Frame Grabber to Camera, SerTC-Differential pair with serial communications to the camera: 97MHz.
- Camera Control 1 (CC1), Camera Control 2 (CC2), Camera Control 3 (CC3), Camera Control 4 (CC4) are sampled at 97MHz.
- Serial Port Communications sampled at ~ 32MHz from Camera to Frame Grabber (RX, DSR, CTS) and at 97MHz from Frame Grabber to Camera (RTS, TX, DTX).

**STEP 6:** Connect the 5VDC power supply to the Frame Grabber Side Unit (Rx) and plug it into a standard AC source.



**STEP 7:** Using the two MDR-26 Cables (CBL-000007-002MR), connect the CPU's frame grabber to the Frame Grabber Side Unit (Rx).

**STEP 5:** If using external sensors, lighting, etc., two CAT5 cables and RJ45F to DB9M and DB9F adapters (KIT-000013-R) are included to connect your serial device(s) through the Camera Side and Frame Grabber Side units.

**STEP 4:** Using two MDR-26 Cables, connect the camera to the Camera Side Unit (Tx) and turn the camera ON.

**STEP 8:** Open your frame grabber application. Verify that all system features are functioning properly.

