

# Camera Fiber-Link CFL-6000 Hi-Speed Base

## QUICK START GUIDE

The Camera Fiber-Link System-6000 from Thinklogical™ uses one or more Camera Side Units and a Frame Grabber Side Unit interconnected 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.

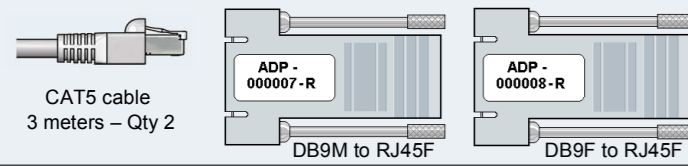
With industrial enhancements such as threaded screw-lock input connectors for standard 5V-12V input power, or for our 12V-24V input power designed for rugged industrial environments, and our compact, light-weight design, the Camera Fiber-Link System is ideal for any application.

Visit our website at [www.thinklogical.com](http://www.thinklogical.com) to see our complete line of Camera Fiber-Link and other fiber-optic extender products.

**1** STEP 1: Check the contents to ensure that you've received all the items included with your system.

When you receive your Thinklogical™ CFL-6000 Camera Fiber-Link system, you should find the following items:

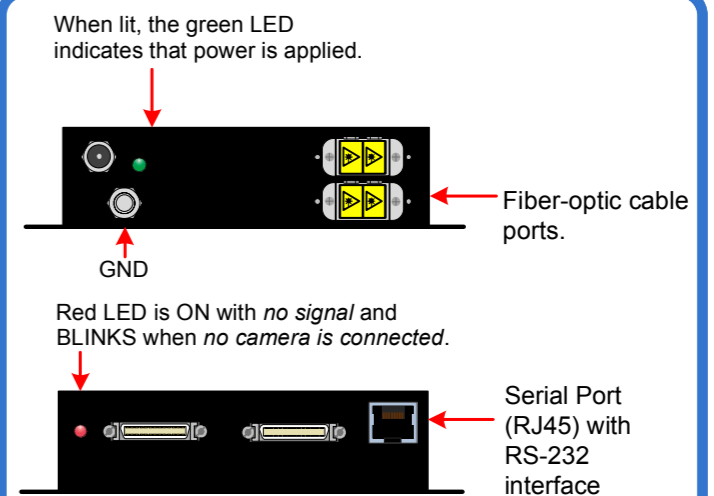
- Camera Fiber-Link (CFL-3000 Camera Side) Transmitter – Qty 2
- Camera Fiber-Link (CFL-6000 Frame Grabber Side) Receiver
- AC Power Supply – Qty 3 (Standard or Industrial Option)
- MDR-26 Cable, 2 Meters (CBL-000007-002MR) – Qty 4
- Camera Fiber-Link Adapter/Cable Kit (KIT-000013-R) – Qty 1



### 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).

Supports one dual base Frame Grabber or two individual Frame Grabbers with a pixel clock of 20-85MHz.



**7** STEP 7: Connect one of the standard 5V-12V power supplies (PWR-000022-R) to the Frame Grabber Side Unit (Rx) and plug it into a standard AC source. If the unit is the industrial option, use the supplied 12V-24V power supply (PWR-000033-R).

**6** STEP 6: Using two of the MDR-26 Cables (CBL-000007-002MR), connect the CPU's frame grabbers to the Frame Grabber Side Unit (Rx).

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

**3** STEP 3: (Optional) If using external sensors, lighting, etc., two CAT5 cables and RJ45 to DB9M and DB9F adapters (KIT-000013-R) are included to connect your serial device(s) to the Camera Side and Frame Grabber Side units.

**4** STEP 4: Connect one of the standard 5V-12V power supplies (PWR-000022-R) to each of the two Camera Side Units (Tx) and plug them into a standard AC source. If the unit is the industrial option, use the supplied 12V-24V power supply (PWR-000033-R).

**2** STEP 2: Using two of the MDR-26 Cables (CBL-000007-002MR), connect Cameras 1 and 2 to the Camera Side Units (Tx) 1 and 2, then turn the cameras on.

**5** STEP 5: Connect the standard, multi-mode fiber optic cables between the Frame Grabber Side unit and the two Camera Side units (up to 500 meters). Be sure not to kink or pinch the cables and keep all bend radii to no less than 3 inches.

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

Single-Mode Fiber option models use APC (Angled Physical Contact) SC-type connectors.

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

**thinklogical™**

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