Quick Start Guide

Camera Fiber-Link CFL-3000
Hi-Speed Base

Step 1: Verify the contents.
When you receive your Thinklogical CFL-3000 Camera Fiber-Link system, you should find the following items:
- Camera Fiber-Link (CFL-3000 Camera Side) Transmitter
- Camera Fiber-Link (CFL-3000 Frame Grabber Side) Receiver
- SVDC Power Supply – Quantity 2
- MDR-26 Cable, 2 Meters (CBL-000007-002MR) – Quantity 1
- Camera Fiber-Link Adapter/Cable Kit (KIT-000013-R) – Quantity 1

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 and L2 to L2

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

Step 3: Connect the 5VDC power supply (PWR-000022-R) to the Camera Side Unit (Tx) and plug it into a standard AC source.

Step 4: Using an MDR-26 cable connect the camera to the Camera Side Unit (Tx) and turn the camera ON.

Step 5: 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) through the Camera Side and Frame Grabber Side units.

Step 6: Connect the 5VDC power supply (PWR-000022-R) to the Frame Grabber Side Unit (Rx) and plug it into a standard AC source.

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

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

When it, the green LED indicates that power is applied.

Fiber-optic cable ports.
Serial Port (RJ45) with RS-232 interface

Step 6 Diagram:
- Cable connections from Frame Grabber to Camera Side Unit
- Cable connections from Camera Side Unit to Frame Grabber

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PHONES: 1-800-291-3211
WWW: www.thinklogical.com
EMAIL: support@thinklogical.com