CrystalLink USB 3.0®

USB3.0 Fiber Optic Extender

- ➢ Extend USB3.0 advanced digital cameras up to 330ft (100m) over fiber
- ➢ Supports USB3.0 throughput up to 5Gbps
- ➢ Industrial locking connectors for USB & Power
- ➢ Uses one duplex LC Multimode fiber
- ➢ Integrated 2-port USB Hub
- ➢ Secure, isolated, high-speed extension
- ➢ Plug-and-play product. No drivers or jumpers
- ➢ Supports all major operating systems

CrystalLink USB3.0 Product Features

- ■ Extends USB3.0 devices beyond the standard 3m cable limit for USB3.0 peripherals, up to 100m.
- ■ Integrated 2-port hub provides support for 2 different USB3.0 peripherals.
- ■ Uses standard 50/125µm Multimode fiber cable terminated with duplex LC type connectors.
- ■ Fiber cable ensures high-speed (up to 5Gbps) transmission, electrical isolation, high reliability and transmission security.
- ■ Secure USB device connection using USB3.0 Vision type locking connectors.
- ■ Plug-and-Play installation, no configuration, driver installation or set-up required
- ■ Supports all major operating systems: Windows®, Mac OS X® and Linux®
- ■ Installation consists of:
  - - Connecting the Receiver to your USB3.0 camera or other USB 3.0 device.
  - - Connect the Transmitter to your computer or host device USB port.
  - - Connect the Transmitter to the Receiver with up to 330ft (100m) of Multimode fiber cable.
  - - Apply power and the installation is complete.
- ■ Transmitter and Receiver units require a +5VDC power adapter (included)

Product Overview

The *CrystalLink USB3.0* extender is a professional and industrial grade extender, ideally suited for the remote and secure operation of advanced digital USB3.0 cameras. Other USB3.0 devices can be remotely located using the *CrystalLink USB3.0* extender, at a distance of up to 50 metres.
The extender must be connected to a USB3.0 host port and the camera or other remote devices must be USB3.0 compliant.
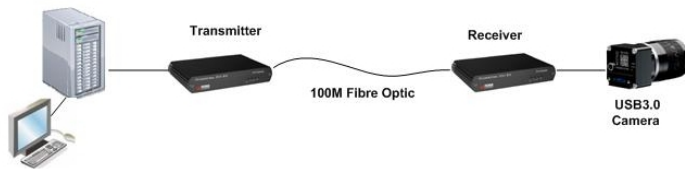The Receiver unit features an integrated 2-port USB3.0 hub for simultaneous operation of 2 remotely located USB devices. These devices can be connected and locked to the Receiver unit using USB3.0 Vision type locking connectors. The power connectors on the product are also secure locking type.

CrystalLink USB3.0 Applications …

The *CrystalLink USB3.0* extender is ideal for use in industrial control areas, connecting cameras for security and monitoring systems, post production editing, broadcast applications, storage retrieval, medical monitoring and operations in hazardous or secure environments.

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Typical Operating Mode

Control your USB3.0 camera up to 330ft (100m) away

CrystalLink USB3.0   The transmitter unit connects to your computer and the receiver unit connects to your remote USB3.0 device.

The transmitter and receiver unit are connected together with up to 330 feet (100m) of multimode (OM2/OM3) fiber optic cable. Use of fiber patch cables will reduce operating distance of the product.

USB3.0 Support The *CrystalLink USB3.0* features a 2-port USB3.0 hub that enables USB devices such as medical, surveillance or industrial robotic cameras to be operated remotely. The user would typically operate the camera, using a keyboard, mouse or joystick, and a monitor, located at the host PC. The remote unit provides 900mA of power to each USB port.

Installation The *CrystalLink USB3.0* chassis is small and lightweight, and can easily be installed at a remote user location. The transmitter unit can be mounted in a purpose-built 19" rackmount shelf or otherwise connected to a rack frame.

Fiber optic cable should be either OM2 (50/125µm) for non-camera applications at 50 metres, or OM3 (50/125µm) for USB3.0 camera operation at 100 metres.

Locking USB Connector   **Locking Power Connector**

Specifications

Dimensions	Width	Depth	Height
Transmitter (in/mm)	3.94 / 100	2.99 / 76	1.02 / 26
Receiver (in/mm)	3.94 / 100	2.99 / 76	1.02 / 26

Distance	USB3.0 330ft (100m) for USB Camera USB3.0 165ft (50m) other USB devices
USB Device Support	USB3.0 up to 5Gbps
USB Host Support	xHCI controllers
Local Connectors	1* USB3.0 type B locking. Power Jack 1* duplex LC Fiber connector
Remote Connectors	2* USB3.0 Type A Locking. Power Jack 1* duplex LC Fiber connector
Interconnect Cable	Fiber Optic Multimode OM2 (50/125µm) up to 50 metres OM3 (50/125µm) up to 100 metres
Power	Local - 100-240VAC, 5VDC Remote - 100-240VAC, 5VDC
Max Current at RX	900mA at each USB port
Environmental	Temp - 32 °F - 104°F (0°C – 40°C) Humidity: 20%-80%, relative humidity, non-condensing
Approvals	FCC, CE, AIA USB3 Vision, RoHS2

Part Number

CLK-2U3FM-100M	CrystalLink USB3.0 Extender
RM-CL/USB	Shelf, wall or under desk bracket

Transmitter   **Receiver**

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