CrystalView DVI Fiber

Digital Fiber KVM extender

Extends keyboard, video, and mouse signals up to:

650ft (200m) w/ 62,5µm Multimode-Fiber
1300ft (400m) w/ 50.0µm Multimode-Fiber
33,000ft (10,000m) w/9.0µm Singlemode-Fiber

Supports DVI-D video at resolutions up to 1920 x 1200 @60Hz over all allowed distances all lower resolutions with refresh rates of at least 75Hz

User selectable DDC table

Serial and Audio option

Supports Singlemode and Multimode fiber cables

PS/2 or USB keyboard and mouse support

Single or Dual video models

Easily adapted to your system

Features and Benefits

- Supports:
  - DVI-D video modes
  - PS/2 or USB keyboards and mice
  - Bi-Directional serial (Optional)
  - Full CD Quality stereo audio (Optional)
- Extend a KVM station from a CPU using fiber cable up to 6 miles
- Video resolutions up to 1920 x 1200 @ 60Hz
- Full 60 Hz frame rate for resolutions up to 1600 x 1200 @ 60 Hz and at least 30 Hz for lower resolutions
- Supports 18/24–Bit color (Selectable)
- Single and Dual video models available
- Local access available on all models
- Compatible with all operating systems
- Fully automatic KVM sharing on local access models
- Status and Data error indicators on all units
- Easy installation and operation

The CrystalView™ DVI Fiber Advantage

The CrystalView DVI Fiber is the KVM extender of choice for businesses that need to extend and operate a computer, server, or KVM switch from a great distance. The CrystalView DVI Fiber makes this possible by the use of singlemode or multimode fiber cable. You can fully operate and control a computer or server from as far away as 6 miles using 9 µm singlemode fiber. The CrystalView DVI Fiber supports all combinations of DVI-D monitors and video cards.
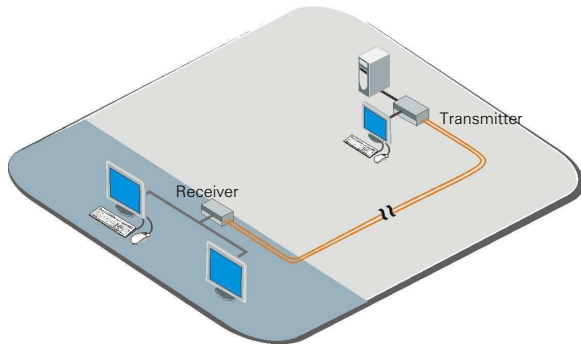
The system consists of two units; a transmitter and a receiver. The transmitter connects to your CPU's keyboard, DVI-D monitor, and mouse connectors, or to a Rose KVM switch. The receiver connects to a keyboard, DVI-D video monitor and mouse or KVM station. The transmitter and receiver are connected together with fiber cable. The receiver can be up to 6 miles from the transmitter using 9µm Singlemode.

All models are available with both transmitter and receiver KVM access. The transmitter's KVM access allows an additional KVM station to be connected to the transmitter unit. If your system requires dual video, the CrystalView DVI Fiber dual video model can fully support it.

Fiber makes extended distances easy to reach

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Typical Application

Dual DVI Video model Application
Digitally access a computer from two locations,
locally and remotely

CrystalView DVI Fiber basics
The CrystalView DVI Fiber system consists of a transmitter that connects to a PC, or server and a receiver that connects to a keyboard, monitor, and mouse or a KVM switch. The transmitter and receiver units are connected together with up to 6 miles of standard fiber cable.

Models
The CrystalView DVI Fiber is available in a PS/2 or USB model. All models allow for a second KVM station next to the PCs, providing operation from the transmitter or the receiver unit. There is also a dual video model for systems that need to digitally transmit a second video source.

Installation
Installing the CrystalView DVI Fiber units is as easy as connecting the KVM station to the receiver, connecting the CPU to the transmitter, and connecting the transmitter to the receiver with fiber cable.

Keyboard and Mouse emulation
The CrystalView DVI Fiber uses a microprocessor to emulate the keyboard and mouse. Only the transmitter unit has to be connected for the PC to boot properly.

Part Numbers – Multi-Mode Fiber Extender kits

CRK-2DFMPD1D	PS/2 model
CRK-2DFMUD1D	USB model
CRK-2DFMPD2D	PS/2 Dual Video
CRK-2DFMUD2D	USB Dual Video

Part Numbers–Single-Mode Fiber Extender kits

CRK-2DFSPD1D	PS/2 model
CRK-2DFSUD1D	USB model
CRK-2DFSPD2D	PS/2 Dual Video
CRK-2DFSUD2D	USB Dual Video

kits include transmitter and receiver units

/AUD part number suffix = serial and audio option

Specifications

Dimensions	4.1W x 5.6D x 1.7H (in)
	103W x 143D x 42H (mm)
Weight	1.20 lbs / 0.6 kg (each)
Operating Temp	5˚C – 45˚C / 41˚F – 113˚F
Storage Temp	-25˚C – 60˚C / -13˚F – 140˚F
Humidity	80% max, non-condensing
Resolution	1920 x 1200 @60Hz over all allowed distances all lower resolutions with refresh rates of at least 75Hz
Connectors	Video – DVI – I
	Keyboard – MiniDIN6 / USB Type A
	Mouse – MiniDIN6 / USB Type A
	Fiber – LC fiber
Power	90-240 VAC to 5.0 VDC / app. 10W
Power Requirements	Local unit: 750 ma max
	Remote Unit: 750 ma max
Max distance	650ft (200m) 62,5μm Multimode
	1300ft (400m) 50.0μm Multimode
	33,000ft (10km) 9.0μm Singlemode
Indicators (LEDs)	Front panel – power
	Video check LED
	RJ45 LEDs – Data error / status
Approvals	CE
Serial Data:	Baud Rate up to 19,200
	Data Flow - Format independent
	Flow control - RTS, CTS, DTR, DSR
Audio Data:	Signal level 5V p-p
	Impedance 47KΩ
	Connectors 3.5mm stereo jack
	Transmission 16 bit, 38.4KHz Digitized audio
	Microphone - Powered or un-powered
	Speakers - Powered

CrystalView DVI Fiber
(PS/2 model)

CrystalView DVI Fiber
(USB model)

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