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.
Typical Application  

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-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**: 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