

## Digital fiber KVM extender

Extends keyboard, video, and mouse signals up to 33,000 feet away

Uses only two fibers

Supports PC or Sun

Dual version allows another KVM near computer or KVM switch

Available as standalone, rack mounted, or as cards mounted in a chassis

## Features and Benefits

- Digital operation for a clear picture unaffected by distance
- Video resolutions up to: 1280 x 1024
- 24 bit color resolution
- Several models available
  - PC single access
  - PC dual access (has second KVM station)
  - Sun single access
- Chassis version for high density mounting
- Uses only two fibers (dual fiber cable)
- Immune to lightning, power surge, and electromagnetic and radio interference
- Provides security by reducing possibility of tapping into fiber
- Status LEDs show link status and error conditions
- Distance vs. fiber type:
  - 9/125 $\mu$  Singlemode fiber – 33,000 feet (10km)
  - 50/125 $\mu$  Multimode fiber – 1,200 feet (400m)
  - 62.5/125 $\mu$  Multimode fiber – 600 feet (200m)
- Compatible with Windows, Solaris, UNIX, Linux, and other operating systems
- Compatible with all Rose KVM products
- Rackmount kits available in 19", 23", or 24" sizes
- Flash firmware can be upgraded by user

## The CrystalView™ *fiber* Advantage . .

Whether you want to place computers in a secure rack, are contending with cables in a hazardous electromagnetic area, or simply need greater distance between your KVM workstation and your computers, CrystalView fiber excels at extending your KVM signals. Units are available as standalone units or as cards mounted in a chassis.

CrystalView fiber is perfect for development labs, television studios, kiosks, banks, educational institutions, airports, offices, shipboard, aircraft, as well as harsh industrial environments such as factories or manufacturing plants. Fiber is virtually immune to lightning, power surges, electromagnetic interference, and radio frequency interference (RFI). Since the data sent is digital, you'll always have a clear picture which is not always possible when using Cat5 extenders.

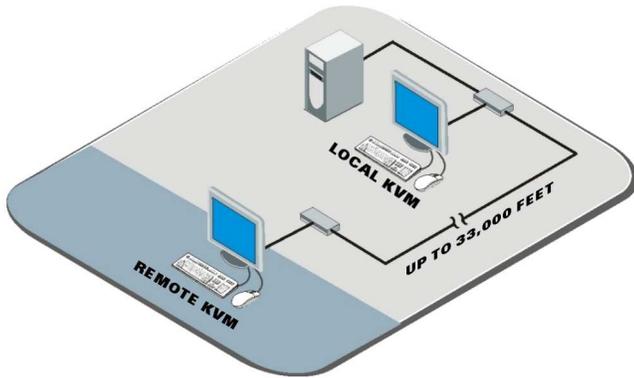
Maybe you want to relocate your computer for protection against a harsh environment, an insecure area, or a better place for maintenance. Then again maybe the computers have to stay where they are and it's the operator that needs to be in a control room or at an office desk.

Compatible with all Rose KVM products. CrystalView fiber offers a perfect solution for any application when you need a greater distance, a clearer picture, more reliability, or more security between computers or servers and workstations.



Fiber gives you greater distance, clarity, security, and noise immunity

## Typical Application



Accessing a computer from two locations, one locally, the other is 33,000 feet away

**CrystalView fiber overview** The CrystalView fiber models are sold in pairs as a transmitter and a receiver unit. The transmitter connects to your computer and the receiver connects to your keyboard, monitor, and mouse. A dual unit has an extra connection for another keyboard, monitor, and mouse on the transmitter unit. You can also get a chassis that accepts up to 10 transmitters or receivers with a common power supply for higher density rack mounting. Transmitter and receiver are connected together with standard dual fiber cable terminated with SC-type connections.

**Distance and fiber cable types** CrystalView fiber models are supplied as either Multimode or Singlemode. Fiber optic cable is specified by core size/cladding size. Multimode cable can be either 50/125 micron (up to 1200 feet) or 62.5/125 micron (up to 600 feet). Singlemode cable is 9/125 micron (up to 33,000 feet). Cabling may be ordered from Rose in any length.

**CrystalView fiber platforms** CrystalView fiber is available to support PC or Sun computers. The PC model is available in a single version or as a dual version with a second KVM station on the transmitter unit. The Sun model is available as single version only.

**CrystalView fiber chassis** The CrystalView fiber chassis accommodates up to 10 transmitters or receivers in a single 4U rack mount unit with a common power supply. Typically transmitters will be mounted in the chassis and connected to computers in the same or a nearby rack. The receiver units are then deployed in various locations.

**Installation** It is a straightforward operation to install the units. Connect the transmitter to the computer, The receiver to a keyboard, monitor, and mouse and the fiber optic cable from the transmitter to the receiver.

**Operation** Observe the status LEDs on the rear of the unit, the green LEDs should be lit and the red LEDs should be off. On the PC dual unit, there is a two second timeout between local and remote keyboard and mouse. Both monitors should be active though.

**Extending a Rose KVM switch** In addition to extending the KVM station from a computer, you can also use the CrystalView fiber with Rose switches. You can connect the CrystalView fiber in one of four ways: between computers and KVM workstation, between computers and KVM switch, between KVM switch and KVM workstation, and between KVM switch and KVM switch.

**Keyboard and Mouse Emulation** CrystalView fiber has complete keyboard and mouse emulation. A keyboard or mouse does not have to be connected to the receiver unit for your CPU to boot. In fact the CPU will boot with only the transmitter unit connected. This feature ensures that you CPU will always operate regardless of whether the receiver unit is actually connected or powered. The remote keyboard and mouse may be plugged in and out at any time.

**Flash Memory** To support the latest devices and provide continuing features and support, CrystalView fiber PC model is flash upgradeable using a programming tool on your computer.

Part number	Platform	Fiber type	Access
CRK-2DFM/PC	PC	Multimode	Dual
CRK-2DFS/PC	PC	Singlemode	Dual
CRK-1DFM/SUN	Sun	Multimode	Single
CRK-1DFS/SUN	Sun	Singlemode	Single

Note: CRK P/Ns consist of a transmitter unit and a receiver unit  
RM-UMnn Rack mount kit, nn = 19", 23", or 24"

Contact Rose Electronics for details about the Chassis version

### Bulk Fiber Wire

WIR-50MMDFn	Multimode dual fiber, 50/125 $\mu$ with SC-type
WIR-62MMDFn	Multimode dual fiber, 62.5/125 $\mu$ with SC-type
WIR-09SMDFn	Multimode dual fiber, 09/125 $\mu$ with SC-type

### SC-type Connector fiber Cable

CAB-50MMDFCn	Multimode dual fiber, 50/125 $\mu$ with SC-type
CAB-62MMDFCn	Multimode dual fiber, 62.5/125 $\mu$ with SC-type
CAB-09SMDFCn	Multimode dual fiber, 09/125 $\mu$ with SC-type

### Specifications

Dimensions	8.8"W x 6.3"D x 1.75" H (1U) 22.4cm W x 16.0cm D x 4.45cm H
Weight	6.6 lbs / 1.5 kg each unit
Resolution	640 x 480 @ 60, 70, 75, 85Hz 800 x 600 @ 60, 70, 75, 85Hz 1024 x 768 @ 60, 70, 75, 85Hz 1280 x 1024 60, 70, 75Hz
KVM connectors	Video: VGA in – HD15M, VGA out – HD15F PS/2 keyboard: MiniDin-6F PS/2 mouse: MiniDin-6F Sun keyboard/mouse: MiniDin-8F
Fiber cables	Multimode fiber 50/125 $\mu$ with SC connectors Multimode fiber 62.5/125 $\mu$ with SC connectors Singlemode fiber 9/125 $\mu$ with SC connectors
Power supply	90-240VAC 47-60 Hz, 5A, External
Power dissipation	6 watts, does not include peripherals
Rack mount options	19", 23", and 24"
Chassis	Electro galvanized steel
Environment	10°C-45°C, 0%-80% non-condensing relative humidity
Laser wavelength	Multimode: 850nm, Singlemode: 1300nm
Laser power	Multimode: IEC <400 $\mu$ W, FDA < 70 $\mu$ W Singlemode: IEC ,2000 $\mu$ W, FDA <180 $\mu$ W
Laser safety	The Multimode transceivers are Class 1 laser products and comply with IEC 825-1 and FDA 21 CFR 1040 and 1040.1.1 The Singlemode transceivers are Class 1 laser products and comply with EC60825-1 and FDA 21 CFR 1040 and 1040.1.1



Rear view of CrystalView fiber dual PC model



Rear view of CrystalView fiber chassis with 10 PC dual transmitters

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DS-CRVF 2.3

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