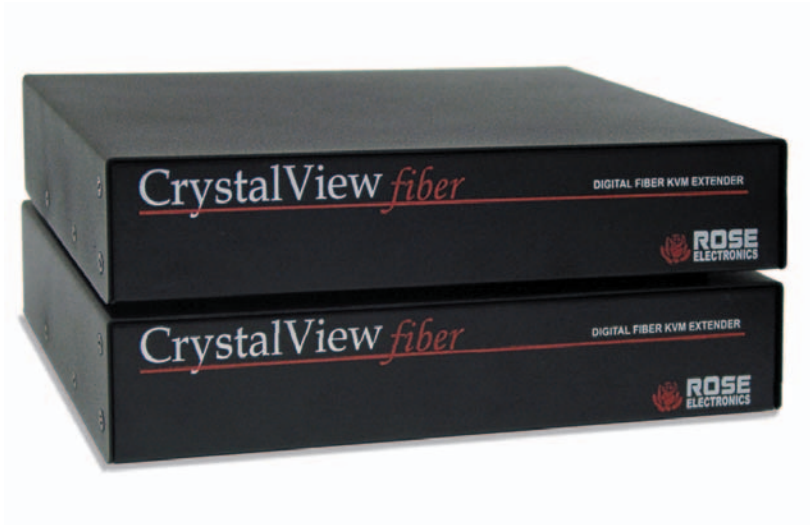


CrystalView fiber



Digital fiber KVM extender

Extends keyboard, video, and mouse signals up to 30,000 feet away

Uses only two fibers

Supports PC, Sun, or USB

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 resolution 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
 - USB 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
- Distances vs. fiber type:
 - 9/125 μ singlemode fiber - 30,000 feet (10km)
 - 50/125 μ multimode fiber - 1,200 feet (400m)
 - 62.5/125 μ multimode fiber - 600 feet (200m)
- Compatible with Windows, Solaris, Unix, Linux, and other operating systems
- Compatible with all Rose KVM products
- 1U rack mount - 19", 23" or 24"
- 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 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 in which you need greater distance, a clearer picture, more reliability, or more security between computers or servers and workstations.

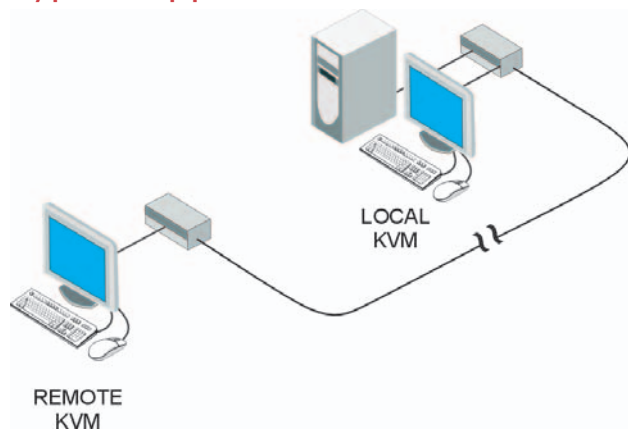


Fiber gives you greater distance, clarity, security, and noise immunity



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Typical Applications



Accessing a computer from two locations, one is local, the other is 30,000 feet away

CrystalView fiber overview CrystalView fiber models are sold in pairs as a transmitter unit 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 connectors.

Distance and fiber cable type 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 or 62.5/125 micron. Singlemode cable is usually 9/125 micron. Use 62.5/125 micron multimode cable for up to 600 feet, 50/125 micron multimode cable for up to 1200 feet, and 9/125 micron singlemode cable for up to 30,000 feet. Cabling may be ordered from Rose in any length.

CrystalView fiber platforms CrystalView fiber is available for three computer types: PC, Sun, and USB. 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. The USB model is single access, but dual access can be easily implemented by adding a low cost USB hub.

CrystalView fiber chassis The crystal view fiber chassis is designed for mounting 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. The chassis can also be used in campus environments to interconnect KVM switches and server banks together.

Installation It is a straightforward operation to install the units. Using straight-through cables, connect the transmitter to the computer. At the receiver, plug the keyboard, monitor, and mouse or USB device directly into the receiver unit. Connect the fiber optic cables, plug in the power, power on the units, and your KVM connection should be active.

Please note that the units are a class 1 laser product and you should not look into the fiber ends while the unit is powered on and the fiber is connected.

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 your 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 upgradable using a programming tool on your computer.

Part Numbers

Standalone units

Part number	Platform	Fiber type	Access
CRK-1DFM/PC	PC	Multimode	Single
CRK-1DFS/PC	PC	Singlemode	Single
CRK-2DFM/PC	PC	Multimode	Dual
CRK-2DFS/PC	PC	Singlemode	Dual
CRK-1DFM/SUN	Sun	Multimode	Single
CRK-1DFS/SUN	Sun	Singlemode	Single
CRK-1DFM/USB	USB	Multimode	Single
CRK-1DFS/USB	USB	Singlemode	Single
RM-UMnn	Rack mount kit, nn= 19", 23", or 24"		

Chassis version

Contact Rose for further details about this version

Bulk Fiber Wire

WIR-50MMDFnnn	Multimode dual fiber, 50/125 μ
WIR-62MMDFnnn	Multimode dual fiber, 62.5/125 μ
WIR-09SMDFnnn	Singlemode dual fiber, 09/125 μ

SC-Type Connector fiber Cable

CAB-50MMDFSCnnn	Multimode dual fiber, 50/125 μ , with SC-Type
CAB-62MMDFSCnnn	Multimode dual fiber, 62.5/125 μ , with SC-Type
CAB-09SMDFSCnnn	Singlemode dual fiber, 09/125 μ , with SC-Type

Specifications

Dimensions	8.8" W x 6.3" D x 1.75" H (1U) 22.4 cm. W x 16.0 cm. D x 4.45 cm. H
Weight	6.6 lbs / 3.0 kg complete package 3.3 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 - HD15 male, VGA out - HD15 female PS/2 keyboard: MiniDin-6F PS/2 mouse: MiniDin-6F Sun keyboard/mouse: MiniDin-8F USB: Transmitter - type B, Receiver - up to four type A devices
Fiber cables	Multimode fiber 50/125 μ or 62.5/125 μ with SC connectors Singlemode fiber 9/125 μ with SC connectors
Power Supply	90-240 V AC, 47-630 Hz, .5A, External
Power dissipation	6 watts, does not include peripherals
Rack mount options	19", 23" and 24"
Chassis	Electro galvanized steel
Environmental	0°-55° C, 0%-80% non-condensing relative humidity
Laser wavelength	Multimode: 850 nm, Singlemode: 1300 nm
Laser power	Multimode: IEC <400 μ W, FDA <70 μ W Singlemode: IEC <2000 μ W, FDA <180 μ 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 IEC 60825-1 and FDA 21 CFR 1040. and 1040.1.1.



Rear view of CrystalView fiber dual PC model
Receiver is above and transmitter is below



Rear view of CrystalView fiber chassis with power supply and 10 PC dual transmitters installed