CrystalView CAT5 Rack

KVM access over CAT5 cable

Extends the distance from 6 to 12 PC's up to 1,000 feet

Video resolutions up to 1600 x 1200

Single or dual models. Dual models provide an additional KVM station at the local unit

Serial and stereo audio options available on all 6-port models

Stereo audio and serial data can be transmitted in either direction across the CAT5 link simultaneously

Features and Benefits

- Extend 6 to 12 KVM stations from 6 to 12 CPUs using a single CAT5 twisted pair, solid core cable (Up to 1,000 feet)

- Video resolutions up to 1600 x 1200 at 200 feet, 1280 x 1024 at 300 feet, 1024 x 768 at 1,000 feet

- Compatible with the Rose Electronics family of KVM switches such as the ServeView Pro, UltraView Pro, UltraMatrix, and other KVM switches

- Compatible with Windows, Windows NT, OS/2, UNIX, Linux and other operating systems

- Fully automatic KVM sharing on a first-come, first-serve basis using the dual models

- Uses a microprocessor to emulate the keyboard and mouse. The keyboard and mouse on the Remote units do not have to be connected for the PC to boot; only the local units must be connected to the PC

- The local unit can invoke a private mode to inhibit usage of the remote unit (Dual models only)

- On the dual models, the connected computer's video is displayed on both the local and remote monitors

- No external power needed for most applications (Power adapter is needed for video only applications and when connecting the local unit to a KVM switch)

- Bi-directional serial and stereo audio options (Serial and audio models only)

- Stereo audio can be transmitted in either direction across the CAT5 link simultaneously (Serial and audio models only)

- Rack mountable chassis

The CrystalView Rack Advantage .

The CrystalView CAT5 Rack is the KVM extender of choice for businesses big and small that need to extend several KVM stations away from CPUs.

The CrystalView CAT5 Rack allows you to position 6 or 12 CPUs up to 1,000 feet away from the KVM stations using common twisted pair CAT5 cable. Each CrystalView module is completely independent from the other modules.

Access to your computers or servers is made convenient in a variety of situations. You can locate users away from hazardous industrial environments, locate CPUs away from areas vulnerable to theft of hardware and data, reduce noise and heat, increase desk space, and floor space.

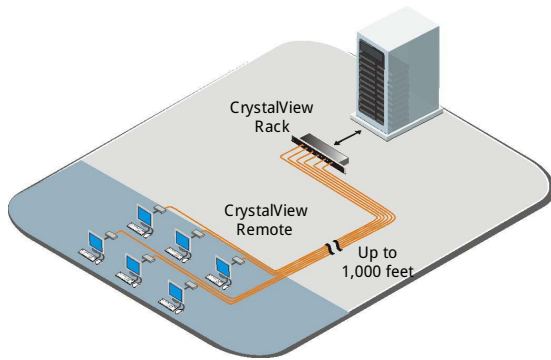The CrystalView CAT5 Rack is available in the following models.

  6 – single locals
  6 – single locals with serial and audio
  6 – dual locals
  6 – dual locals with serial and audio
12 – single locals
  6 – single remotes
  6 – single remotes with serial and audio

All models use a microprocessor to emulate the keyboard and mouse for plug and play operation. The keyboard and mouse on the Remote Unit does not have to be connected for the PC to boot; only the Local unit connected to a PC.

The CrystalView Rack is designed for plug-and-play operation. Connect the computers, a KVM station, and a CAT5 cable between the local and remote units, and its ready to use.

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Typical Application

CrystalView Rack

CrystalView Remote

Up to 1,000 feet

Convenient access to rack mounted computers

Introduction   The CrystalView CAT5 Rack is a versatile and powerful product that extends the range of access to your computers up to 1,000 feet using industry standard CAT5 twisted pair cable.

The CrystalView system consists of the local CrystalView Rack and a remote unit for each local module used. The local unit connects to your computers, servers, or a Rose Electronics KVM switch. The remote unit connects to a keyboard, video monitor and mouse or KVM station. The local and remote units are connected together with industry standard CAT5 cable. Each CrystalView CAT5 rack module (6 to 12) connects to a remote CrystalView unit.

The dual models offer an additional KVM station connection at each local module. The local KVM station can have direct access to the connected computer or switch. The local user can invoke a private mode to inhibit the remote KVM station.

The serial and audio models support most standard serial devices and full stereo audio.

Installation   Installing the CrystalView CAT5 Rack unit is a very easy process. First, mount the CrystalView CAT5 Rack securely in your console rack. Next, connect each module (6 to 12) to a CPU's keyboard, monitor, and mouse ports using the appropriate CPU adapter cable. Connect a CAT5 cable between each module's RJ45 connector to a CrystalView remote unit's RJ45 connector. Connect a KVM station to the remote unit and power up the CPUs, and the remote unit.

When installing the serial and audio model, connect stereo audio speakers and a microphone to the audio jacks, and a serial device to the serial port.

Operation   Once the Remote and Local Unit modules are connected and configured, the Remote KVM station's keyboard, video monitor and mouse will function as if it were directly connected to the CPU. All applications, upgrades and PC configurations can be performed normally.
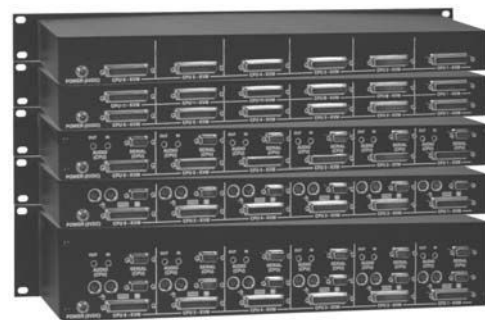
The Local unit is active during boot-up. To activate a KVM station, simply press a key or move the mouse. A lockout feature disables activity from a KVM station until the "In Use" station is inactive for more than 2 seconds.

Part Numbers

CRV-6SLP	6-Single local units (1U)
CRV-6DLP	6-Dual local units (1U)
CRV-12SLP	12-Single local units (1U)
CRV-6SRP	6 Single remote units (1U)
CRV-R	Single remote unit
CRV-MR	Single Mini Remote unit**
CAB-08UTPnnn*	Cable - CAT5 UTP (25-1,000 feet)
CAB-CX0606Cnnn*	Cable (coax) - To CPU or KVM switch (PS/2)
CAB-ZX0606Cnnn*	Cable (std) - To CPU or KVM switch (PS/2)
CAB-CXVSMMnnn*	Cable - To KVM switch (DB25 connectors)
CAB-D9MFnnn*	Cable -Local to CPU serial port
CAB-SPMMnnn*	Cable - 3.5mm stereo audio
TFR-05D400FSUB	Optional 5.0 V power adapter.

/AUD part number suffix = Serial and audio options

/SW part number suffix = power adapter

* nnn = length in feet   ** Max length = 150' using the Mini remote

Specifications

Dimensions	Width	Depth	Height	Weight
1U Models	17in	4.2in	1.75in	3.75 - 4.00lbs
2U Models	17in	4.2in	3.50in	5.00 - 5.50lbs

Chassis	Aluminum

Resolution	
< 200'	1600 x 1200
200' – 300'	1280 x 1024
300' – 1,000'	1024 x 768

Connectors	
CPU in	DB25F
Video out	HD15F (Dual model only)
Keyboard	PS/2 – MiniDIN-6F (Dual model only)
Mouse	PS/2 – MiniDIN-6F (Dual model only)
Serial	DB9F (Serial-Audio model only)
Audio	2-3.5mm jack (Serial-Audio model only)
CAT5	RJ45F

Power	Optional 5VDC external power adapter
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 - 47K Transmission - 16 bit, 38.4KHZ – Digitized Microphone - Powered or un-powered Speakers - Powered
Environmental	0℃ - 45℃ / 0% - 80% RH non-condensing
Approvals	CE

6-Single, 12-Single, 6-Single serial/audio, 6-Dual, 6-Dual serial/audio

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