

# CRYSTALVIEW™ RACK



## KVM access over Cat-5 cable

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

Video resolutions up to 1280x1024

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

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

Stereo audio and serial data can be transmitted in either direction across the CAT-5 link simultaneously

## Features and Benefits

- Extend 6 or 12 KVM stations from a CPU using a single CAT-5 twisted pair, solid core cable (Up to 1,000 feet.)
- Video resolutions up to 1024 x 768 at 1,000 feet, 1280 x 1024 at 300 feet
- Compatible with Rose Electronics family or KVM switches such as ServeView, UltraView and UltraMatrix
- 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
- The CrystalView uses a microprocessor to emulate the keyboard and mouse for plug-and-play operation. 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 computers video is displayed on both the local and remote monitors
- Bi-directional serial and stereo audio options (Serial and audio models only)
- Stereo audio can be transmitted in either direction across the CAT-5 link simultaneously (Serial and audio models only)
- Rack mountable chassis
- One year limited warranty

## The CrystalView™ Rack Advantage. . .

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

The CrystalView Rack allows you to position 6 or 12 CPUs up to 1,000 feet away from the KVM stations using common twisted pair CAT-5 cable.

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 and floor space.

Each CrystalView module in the Rack is completely isolated from the other modules

The CrystalView Rack is available in the following models.

- 6 – single local CrystalViews
- 6 – single local CrystalViews with serial and audio
- 6 – dual local CrystalViews
- 6 – dual local CrystalViews with serial and audio
- 12 – single local CrystalViews

The CrystalView Rack is designed for plug-and-play operation. Connect the computer or server to the local unit, the KVM station to the remote unit, the CAT-5 cable to the local and remote units, and its ready to use.



## Typical application



**Introduction** – The CrystalView Rack is a versatile and powerful product that extends the range of access to your computers up to 1,000 feet using industry standard CAT-5 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 computer, server, 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 CAT-5 cable. Each CrystalView rack module (6 or 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 video is displayed on both the local and remote monitors. 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 Rack unit is an easy process. First, mount the CrystalView Rack securely in your console rack. Next, connect each module (6 or 12) to a CPU's keyboard, monitor, and mouse ports using the appropriate CPU adapter cable. Proper cable strain relief should be observed to reduce the strain on the connectors. 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 local unit, the CPUs, and the remote unit.

With the dual model, you may connect local KVM stations to the CrystalView Rack providing access from either the local KVM station or the remote KVM station.

Using the serial and audio model, connect stereo audio speakers or a microphone, and connect to a serial device.

**Operation** - Once the Remote and Local Units 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 CrystalView "Dual" version allows additional KVM stations to be connected to the Local Unit. The CPU can be operated from the Remote or Local KVM station but not simultaneously.

The Local Unit is active during boot-up. To activate a KVM station, simply press any key on the keyboard or move the mouse. A lockout feature disables activity from a KVM station until the "In Use" KVM stations keyboard and mouse are inactive for more than 2 seconds.

### Part Numbers

CRV-6SLP	6-Single local units
CRV-6SLP/AUD	6-Single local units with serial and audio
CRV-6DLP	6-Dual local units
CRV-6DLP/AUD	6-Dual local units with serial and audio
CRV-12SLP	12-Single local units
CRV-R	CrystalView Remote unit
CRV-R/AUD	CrystalView Remote unit with serial and audio
CRV-MR	CrystalView Mini Remote unit**
CRV-MR/AUD	CrystalView mini Remote unit with serial and audio**
CAB-08UTPnnn*	Cable - CAT-5 UTP (25-1,000 feet)
CAB-CX0606Cnnn*	Cable (coax) - To CPU or KVM switch (PS/2 connectors)
CAB-ZX0606Cnnn*	Cable (std) - To CPU or KVM switch (PS/2 connectors)
CAB-CXVSMMnnn*	Cable - To KVM switch (DB25 connectors)
CAB-D9MFnnn*	Cable -Local to CPU serial port
CAB-SPMMnnn*	Cable - 3.5mm stereo audio

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

### Specifications -

Dimensions	Width	Depth	Height	Weight
1U models	17in	4.2in	1.75in	3.75 - 4.00lbs
2U model	17in	4.2in	3.50in	5.00 - 5.50lbs
Chassis	Aluminum			
Resolution	< 150'	1024 x 768 (CrystalView Mini remote units)		
	< 300'	1280 x 1024		
	300 - 1,000'	1024 x 768		
Connectors				
	CPU in	DB25F		
	Video out	HD15F		
	Keyboard	PS/2 - MiniDIN-6		
	Mouse	PS/2 - MiniDIN-6		
	Serial	DB9F		
	Audio	3.5mm stereo jack		
	CAT-5	RJ45		
Power	Optional remote 5VDC external power adapter			
Serial Data	Baud rate Up to 19,2000			
	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 audio			
	Microphone - Powered or un-powered			
	Speakers - Powered			
Environmental	0°C - 45°C / 0% - 80% RH non-condensing			



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