



## CAT5 or Fiber DVI KVM Switch

Supports DVI Video resolution up to 1920 x 1200 @ 60Hz

Multifunction device – configures easily for use as:

- KVM switch
- Crosspoint switch
- Multiplex Repeater

Supports USB keyboard and mouse

Extend distances up to:

- 800ft. (120 m) over CAT5,
- 1350ft. (200 m) over multimode 62.5 $\mu$
- 2600ft. (400 m) over multimode 50 $\mu$
- 33,000ft. (10 km) over singlemode 9 $\mu$

Optional serial and audio

## Features and Benefits

- Extends distances up to 400 feet (120 M) over CAT5 cable or 33,000 feet (10 km) over fiber cable.
- Supports DVI-D video
- Video resolution up to 1920 x 1200 @ 60Hz
- Supports USB keyboard/Mouse
- Selectable operating modes for modifying the unit to perform as a KVM switch, a Crosspoint switch, or a Multiplex repeater.
  - The KVM switch mode can be configured as a 7 to 1 KVM switch or a 3 to 1 Dual head KVM switch
  - In the Crosspoint switch mode, each port can be configured as an input or output. This allows configuration for 1 input to 7 outputs, 2 x 6, 3 x 5, 4 x 4, 5 x 3, 6 x 2, or 7 inputs to 1 output
  - The Multiplex repeater mode allows for a DVI signal source to be extended and distributed. The distribution can be configured for 1 DVI video source to 7 displays, 2 x 3, or 4 DVI sources to 4 displays
- Compatible with all operating systems
- Serial and Audio options
- Rack Mounts kits available for rack mounting in a 19" / 1U rack

## The Orion™ DVI Advantage . . .

The Orion LC multifunction DVI KVM Switch is a unique product that offers three operating modes in a single product; a KVM Switch, a Crosspoint switch, or a Multiplex repeater. Each operating mode can also be configured to support several different system arrangements. Simple dip switch settings determine the operating mode for the unit. Selecting / switching channels can be done by keyboard commands, serial string commands, or the front panel push button.

The Orion LC interfaces to Rose Electronics CrystalView DVI CATx extender family. These extenders offer single or dual head video, local access and serial/audio options.

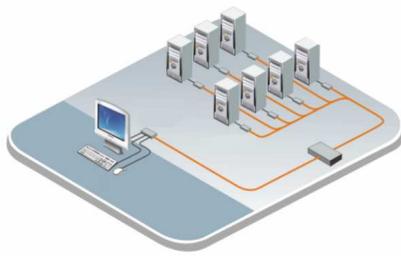
As a DVI KVM switch, you can switch up to 7 computers to one user station or 3 Dual head computers to one user station. Connect a second stage to the unit and you now have access to 49 computers from one user station (9 Dual head computers).

Select the Crosspoint switch operating mode and each of the eight ports can be used as an input or an output. This offers the flexibility of switching 1 to 7 DVI inputs to 1 to 7 DVI outputs. An example of this flexibility is to connect three surveillance cameras to three input ports and five monitors to five output ports.

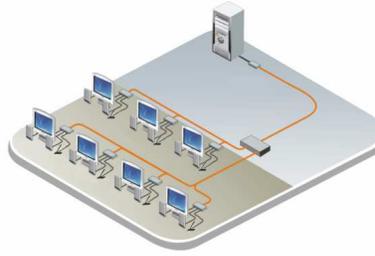
Setting the operating mode to the Multiplex Repeater mode gives you the flexibility of extending and distributing 1 to 4 video sources to 1 to 4 video displays. Any combination of sources to displays that total 4 can be configured. (1 to 7, 2 to 3, or 4 to 4)



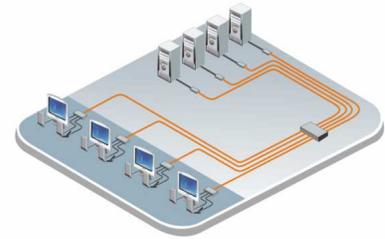
## Typical Applications



KVM Switch



Multiplex Repeater



Crosspoint Switch

### Cables... Cabling from the transmitters to Orion LC:

- CAT5 cable,
  - 400ft max from Orion LC to the receiver
  - 400 ft max from Orion LC to the transmitter
- MultiMode cable – 62.5 $\mu$ 
  - 650ft max from Orion LC to the receiver
  - 650 ft max from Orion LC to the transmitter
- MultiMode cable – 50 $\mu$ 
  - 1,300 ft max from Orion LC to the receiver
  - 1,300 ft max from Orion LC to the transmitter
- SingleMode cable - 9 $\mu$ 
  - 33,000 ft max from Orion LC to the receiver
  - 33,000 ft max from Orion LC to the transmitter
- Cabling from the computers and the transmitter uses Rose Electronics DVI-CPU adapter cable. The keyboard, DVI monitor, and mouse connect directly to the receiver.

**Installation...** The installation of the Orion LC will vary depending upon the operating mode the unit will be configured for. Dip Switches are set to configure the unit for the needed operating mode, KVM switch, Crosspoint switch, or Multiplex Repeater. Cable connections will vary depending on the configuration needed and operating mode.

**Operation...** Operating the Orion LC can be done by simple push button switching. Pressing the push button will switch to the next channel or next macro. The serial interface allows you to send switching commands to the unit using a RJ45 to DB9 cable connected to the unit and a computer's serial port. Keyboard commands can also be used to place the unit in the command mode. In the command mode, you can to switch ports, sequence through all channels, and other functions.

**Keyboard:** The transmitter and receiver units have a USB Type A keyboard connector

**Monitor:** The monitor connector is either a 24 pin or 30 pin DVI-I video connector. (30 pin connector is for serial and audio models only)

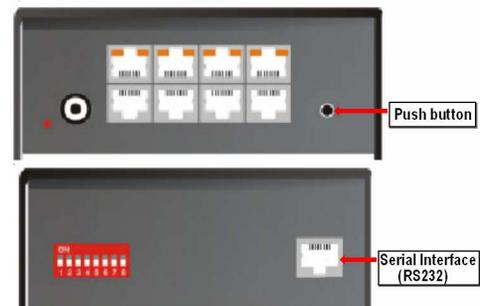
**Mouse:** The transmitter and receiver units have a USB Type A mouse connectors

### Part Numbers

ORS-LC08TP	8 port CATx, DVI USB 2.0
ORS-LC08FM	8 port Multimode, DVI USB 2.0
ORS-LC08FS	8 port Singlemode, DVI USB 2.0

### Specifications

<b>Dimensions</b>	4.0 W x 5.6 D x 1.7 H (in) 103 W x 143 D x 42 H (mm)
<b>Weight</b>	1.3 lbs (0.6 kg)
<b>Resolution</b>	Up to 1920 x 1200 @ 60Hz
<b>Connectors</b>	RJ45F
<b>Power</b>	90 – 240 VAC, 47 – 63 Hz, 0.5A - +5VDC, 2000mA, auto switching
<b>Switching</b>	KVM Switch – Keyboard, Push Button, Serial interface Crosspoint Switch – Push Button, Serial interface Multiplex repeater – None
<b>Operating mode selection</b>	Dip Switch settings
<b>Video</b>	DVI-D
<b>Keyboard/Mouse</b>	USB
<b>Distance</b>	400 ft (120m over CAT5) (AWG24–solid cable) 200 ft (70m over CATx) (AWG26/8 – stranded cable) 650 ft (200m) over multimode 62.5 $\mu$ 1,300 ft (200m) over multimode 50 $\mu$ 33,000 ft (10km) over multimode 9 $\mu$
<b>Environmental</b>	
Operating temp	41°F-113°F (5°C-45°C)
Storage temp	-13°F-140°F (-25°C-60°C)
Humidity	80% non-condensing
<b>Certificates</b>	CE



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