Rose Electronics has been in business for 35 years. Founded by engineers with backgrounds in the oil and gas industry and IC chip design, the company adopts a philosophy of building highly reliable products at a fair price. The company is headquartered in Houston, Texas with offices in Europe and Asia.

Rose specializes in switching, extension, and processing of video, audio, and data with transport using copper, fiber, or IP. The customer base spans a wide variety of industries in the commercial, industrial, and ProAV space. Solutions encompass broadcast, command and control, data centers, digital signage, education, entertainment, financial, government, house of worship, medical, military, presentation venues, retail, security, transportation, and others.
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</table>
Multi-User KVM Matrix Switches

Rose provides a full range of matrix switches, from small 2x4 desktop switches to enterprise digital KVM matrix switches that can support thousands of ports. Matrix architecture can use analog or digital switching backplanes or can use IP-based switching utilizing 1G or 10G Ethernet switches. An extensive range of video formats is supported including HDMI, DisplayPort, SDI, DVI, and VGA with resolutions up to 4K60. Audio may be embedded with the video or be separate digital or analog formats. Data may be USB 3.1, USB 2.0, serial, infrared, or others.

<table>
<thead>
<tr>
<th>Product</th>
<th>Video</th>
<th>Cabling</th>
<th>Computers</th>
<th>Users</th>
<th>Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orion X</td>
<td>HDMI, DisplayPort, SDI, DVI-D, DVI-I/VGA, Dual-link DVI</td>
<td>CATx/Fiber</td>
<td>1-575</td>
<td>1-575</td>
<td>Option</td>
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<tr>
<td>Orion XC</td>
<td>HDMI, DisplayPort, SDI, DVI-D, DVI-I/VGA, Dual-link DVI</td>
<td>CATx/Fiber</td>
<td>1-79</td>
<td>1-79</td>
<td>Option</td>
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<tr>
<td>UltraLink 10G</td>
<td>HDMI, Optional: DisplayPort, 12G-SDI</td>
<td>CATx/Fiber</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>✓</td>
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<tr>
<td>Xcion</td>
<td>HDMI</td>
<td>CATx</td>
<td>1-48</td>
<td>1-48</td>
<td>No</td>
</tr>
<tr>
<td>Xcion+</td>
<td>DVI-I</td>
<td>CATx/Fiber</td>
<td>1-48</td>
<td>1-48</td>
<td>Option</td>
</tr>
<tr>
<td>Xtensys</td>
<td>VGA</td>
<td>CATx</td>
<td>1-64</td>
<td>1-64</td>
<td>No</td>
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<tr>
<td>UltraMatrix E-Series</td>
<td>VGA</td>
<td>Coax</td>
<td>1-16</td>
<td>1-4</td>
<td>No</td>
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</tbody>
</table>

Orion X Series
Modular Enterprise KVM Matrix Switch

Orion X series is a sophisticated switching system with many versatile features. It is a three-component system consisting of transmitters at the video or computer source, a central switch, and receivers at the user station or display.

The Orion X switch chassis is very scalable, accepting 8-port I/O cards. The cards, as well as the transmitters and receivers, are available with either CATx or fiber interfaces. Each port of the switch is automatically configured to be an input or an output port depending on whether a transmitter or receiver unit is connected to it. This simplifies your system planning, because you do not have to decide in advance how many input or output ports – only the total number of ports.

Software utilities have been developed to enhance the functionality of the product. The utilities available are:

- JAVA Tool, Extended Switching and Presets
- Additional API
- SNMP and Syslog for unit monitoring
- Cascading / Stacking
- Multi-Screen Control

<table>
<thead>
<tr>
<th>Ports</th>
<th>Cards (8-port)</th>
<th>Rack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>6</td>
<td>3U</td>
</tr>
<tr>
<td>80</td>
<td>10</td>
<td>4U</td>
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<tr>
<td>160</td>
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<td>9U</td>
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<tr>
<td>288</td>
<td>36</td>
<td>13U</td>
</tr>
<tr>
<td>576</td>
<td>72</td>
<td>25U</td>
</tr>
</tbody>
</table>

576-port chassis
288-port chassis
160-port chassis
80-port chassis
48-port chassis
Orion XC Series

Fixed Enterprise KVM Matrix Switch

Orion XC is a fixed port version of the Orion X series switches. The Orion XC switch is available in a range of 1U and 2U chassis with a fixed port configuration. This reduces the cost and makes the unit more compact. It is a three-component system consisting of transmitters at the video or computer source, a central switch, and receivers at the user station or display.

The available link interface formats are CATx, single-mode fiber with 1G (1.25 Gbps) or 2.5G (3.125 Gbps) high-speed SFPs, or universal ports, which can support either SDI or USB 3.0.

There are various arrangements of interface ports with all CATx, all fiber, all universal, or mixed versions in the 64-port and 80-port switches.

<table>
<thead>
<tr>
<th>Same Port Models</th>
<th>Ports</th>
<th>All CATx</th>
<th>All Fiber</th>
<th>All Universal</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>16</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>32</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>48</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>64</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>80</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</table>

<table>
<thead>
<tr>
<th>Mixed Port Models</th>
<th>Total Ports</th>
<th>CATX Ports</th>
<th>Fiber Ports</th>
<th>Universal Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>48</td>
<td>16</td>
<td></td>
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<tr>
<td>80</td>
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<tr>
<td>80</td>
<td>48</td>
<td>32</td>
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</tr>
</tbody>
</table>
UltraLink 10G Video, USB, Audio over 10G Ethernet

UltraLink 10G gives you the power and flexibility to easily build simple or complex high performance KVM or AV applications. Transmitter units are cabled to video sources or computers. Receiver units are cabled to displays or user stations. All units are then connected to a central 10G Ethernet switch. This IP based distributed any-to-any matrix switch contains video memory, which gives it advanced features, such as visually lossless or uncompressed video resolution, seamless switching, video wall functionality, and multiviewer capabilities at each display. Switching and control is based on a secure web server architecture to make access and control available from any device with a web browser. This product is suitable for broadcast stations, entertainment venues, digital signage, industrial sites, military bases, airports and train stations, office environments, and many other applications.

- Connect over fiber to 33,000 ft (10 km) or CATx to 330 ft (100 m)
- Video resolution up to 4K60
- Extremely low video latency
- Transparent and switchable high-speed USB 2.0
- Supports HDMI, and optional DisplayPort or 12G-SDI inputs
- Seamless switching gives instant display change
- Flexible audio architecture – embedding, de-embedding, and down-mixing of HDMI and analog audio
- Every display can be a multiviewer
- Build video walls from multiple receivers and displays
- Infrared, serial, and headset support are standard
- Transmitter has built-in video loop-out with multiple inputs
- Receiver has built-in KVM switch function
- 1G Ethernet LAN port to connect computers to 10G network
- Switching and control from wall panels, computers, mobile phones, or OSD and hot-keys
- Based on SDVoE technology
**Xcion**

Switchable KVM Extender in CATx or Fiber

Supports HDMI or DVI/VGA, USB 2.0, audio, and serial

Units function as extenders when connected point-to-point, or as a switch when connected to a gigabit Ethernet switch

Switch mode supports up to 48 Xcion endpoints

Manage connections by OSD menu or through the Xcion Switch Manager software

---

**UPGRADE OPTIONS**

These features are pre-installed on the extenders, and they are enabled by entering quick activation codes.

- Matrix Switching System (Up to 48 endpoints)
- Bi-directional analog stereo audio and RS-232
- USB memory - support for memory sticks and hard drives
- Analog VGA video input - transmitted as DVI

---

**Xcion+**

CATx or Fiber Extender

DVI/VGA, USB 2.0, Audio, Serial

Full-featured KVM Extender

Includes ALL features of the original Xcion

Includes ALL activated upgrade options

Expanded switching matrix supports up to 2,000 end-points

Switching Manager software

---

* For more information on Xcion extension specifications, including maximum distances and video resolution, go to page 12.

---

<table>
<thead>
<tr>
<th>Product</th>
<th>Video</th>
<th>Cabling</th>
<th>Computers</th>
<th>Users</th>
<th>Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xcion</td>
<td>HDMI</td>
<td>CATx</td>
<td>1-48</td>
<td>1-48</td>
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<tr>
<td>Xcion</td>
<td>DVI-I</td>
<td>CATx</td>
<td>1-48</td>
<td>1-48</td>
<td>Option</td>
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<tr>
<td>Xcion+</td>
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<td>CATx</td>
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<td>✓</td>
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<tr>
<td>Xcion+</td>
<td>DVI-I</td>
<td>Fiber</td>
<td>1-2,000</td>
<td>1-2,000</td>
<td>✓</td>
</tr>
</tbody>
</table>
**Xtensys**

**VGA over CATx KVM Switch**

Connect multiple users to multiple computers using CATx cable

- Models for 1-16 users and 1-64 CPUs
- Locate switches up to 1,000 ft (300 m) from computers
- Auto equalization and skew compensation for perfect VGA display
- Multi-platform keyboard and mouse support: USB, PS/2
- Serial terminal support
- Each computer port can connect to a computer or serial device
- Advanced security features
- Configuration and access through on-screen display (OSD)
- Local port for quick access to the switch

---

**UltraMatrix E-Series**

**1-4 User KVM Switch, VGA, USB, PS/2**

- Up to 4 users can access and control up to 1,000 computers and network devices
- VGA video resolution up to 1920x1200, and PS/2 or USB keyboard and mouse
- Fixed port configurations and plug-in expansion ensures low system cost and makes the system easy to expand and maintain
- Switching can be done from hot-key, OSD, or serial port
- Multi-platform units have serial VT220 terminal emulation for access to UNIX hosts, routers, and other serial devices
- Security system with login and computer group lists prevents unauthorized configuration and access
- Advanced on-screen display (OSD) makes configuration easy and informs you of status with user-friendly messages
- Status screen shows inter-box communication, current connections, computer power, and other information
- Flash memory for free firmware upgrades with product enhancements and new software features are available at www.rose.com
- Rackmount kits available in 19", 23", and 24" sizes

---

**UltraMatrix E-Series Models**

<table>
<thead>
<tr>
<th>Users</th>
<th>Computers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>16</td>
</tr>
</tbody>
</table>
Rose offers an extensive portfolio of desktop and rackmount KVM switches for connecting from two to hundreds of computers to a single KVM console. They are available in HDMI, DVI, DisplayPort, and VGA with combined USB and audio in resolutions up to 4K60. Users can switch between computers using a keyboard, front panel, on-screen display (OSD), or RS-232 port.

### Single-User KVM Switches

Rose offers an extensive portfolio of desktop and rackmount KVM switches for connecting from two to hundreds of computers to a single KVM console. They are available in HDMI, DVI, DisplayPort, and VGA with combined USB and audio in resolutions up to 4K60. Users can switch between computers using a keyboard, front panel, on-screen display (OSD), or RS-232 port.

### MultiVideo

**1x4 Multi-Head KVM Switch**
- Dual-head or quad-head video input
- DisplayPort or HDMI video in or out
- Resolution up to 3840x2160
- HDMI, DisplayPort, or analog audio support
- Switch CPU peripherals together or independently
- Supports USB 2.0 devices and USB-HID devices

### Secure KVM Switches

**Full Range of Products**
- NIAP certified
- HDMI, DisplayPort, and DVI
- 2-port, 4-port, and 8-port
- Single, dual, or quad-head
- Optional CAC port
- Secure EDID learning

Learn more at ROSE.COM

---

<table>
<thead>
<tr>
<th>Product</th>
<th>Video</th>
<th>Cabling</th>
<th>Connectors</th>
<th>Computers</th>
<th>Max. Resolution</th>
<th>Heads</th>
</tr>
</thead>
<tbody>
<tr>
<td>MultiVideo</td>
<td>HDMI</td>
<td>HDMI, USB, Audio, Serial</td>
<td>HDMI, USB A/B, 3.5mm jack, DB9(F)</td>
<td>4</td>
<td>4K @ 60</td>
<td>2, 4</td>
</tr>
<tr>
<td>MultiVideo</td>
<td>DisplayPort</td>
<td>DisplayPort, USB, Audio, Serial</td>
<td>DisplayPort, USB A/B, 3.5mm jack, DB9(F)</td>
<td>4</td>
<td>4K @ 60</td>
<td>2, 4</td>
</tr>
<tr>
<td>MultiVideo</td>
<td>Dual-link DVI</td>
<td>DVI, USB, Audio</td>
<td>DVI(F), USB A/B, 3.5mm jack</td>
<td>4</td>
<td>3840x2160 @ 30</td>
<td>2, 3, 4</td>
</tr>
<tr>
<td>MultiVideo</td>
<td>VGA</td>
<td>Coax</td>
<td>DB25</td>
<td>2, 4, 8</td>
<td>1920x1200 @ 60</td>
<td>2, 4</td>
</tr>
<tr>
<td>Xtensys Compact</td>
<td>VGA</td>
<td>CATx</td>
<td>RJ45</td>
<td>2, 4, 8</td>
<td>1920x1200 @ 60</td>
<td>1</td>
</tr>
<tr>
<td>Vista</td>
<td>HDMI</td>
<td>HDMI, USB, Audio, Serial</td>
<td>HDMI (F), USB A/B, 3.5mm jack, DB9(F)</td>
<td>4</td>
<td>4K @ 60</td>
<td>1</td>
</tr>
<tr>
<td>Vista</td>
<td>DisplayPort</td>
<td>DisplayPort, USB, Audio, Serial</td>
<td>DisplayPort, USB A/B, 3.5mm jack, DB9(F)</td>
<td>4</td>
<td>4K @ 30</td>
<td>1</td>
</tr>
<tr>
<td>Vista</td>
<td>DVI-I</td>
<td>DVI, USB, Audio</td>
<td>DVI(F), USB A/B, 3.5mm jack</td>
<td>8</td>
<td>1920x1200 @ 60</td>
<td>1</td>
</tr>
<tr>
<td>Vista Plus</td>
<td>Dual-link DVI-I</td>
<td>DVI, USB, Audio</td>
<td>DVI(F), USB A/B, 3.5mm jack</td>
<td>4, 8</td>
<td>3840x2160 @ 30</td>
<td>1</td>
</tr>
<tr>
<td>Vista LC</td>
<td>DVI</td>
<td>DVI, USB, Audio</td>
<td>DVI(F), USB A/B, 3.5mm jack</td>
<td>12</td>
<td>1920x1200 @ 60</td>
<td>1</td>
</tr>
<tr>
<td>Vista KM III</td>
<td>VGA</td>
<td>VGA, PS/2, Audio</td>
<td>HD15(F), Mini-din6, 3.5mm jack</td>
<td>2</td>
<td>1920x1200 @ 60</td>
<td>1</td>
</tr>
<tr>
<td>UltraView</td>
<td>No Video</td>
<td>USB, Audio</td>
<td>USB, 3.5mm jack</td>
<td>4, 8</td>
<td>No Video</td>
<td>1</td>
</tr>
<tr>
<td>UltraView Pro</td>
<td>VGA</td>
<td>Coax</td>
<td>DB25</td>
<td>4, 8, 12, 16</td>
<td>1920x1200 @ 60</td>
<td>1</td>
</tr>
</tbody>
</table>
AV Switches

AV matrix switches route multiple audio/video sources (computers, cameras, media players, Blu-ray Disc players, etc.) to multiple output displays (flat panel displays, projectors, video conference codecs, etc.). Matrix switches can route any input to any output or to multiple outputs at the same time.

<table>
<thead>
<tr>
<th>Product</th>
<th>Video</th>
<th>Output Resolution</th>
<th>Distance</th>
<th>Input/Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>UltraMatrix AV Pro</td>
<td>HDMI, HDBaseT, 3G-SDI, DVI, Fiber, VGA</td>
<td>3840x2160 @ 30</td>
<td>100 ft</td>
<td>8x8, 16x16, 32x32, 64x64, 144x144</td>
</tr>
<tr>
<td>UltraMatrix AV</td>
<td>HDMI</td>
<td>1920x1200 @ 60</td>
<td>20 ft</td>
<td>16x16</td>
</tr>
<tr>
<td>UltraMatrix AV</td>
<td>DVI</td>
<td>1920x1200 @ 60</td>
<td>20 ft</td>
<td>4x4, 8x8, 16x16</td>
</tr>
<tr>
<td>UltraMatrix AV</td>
<td>VGA</td>
<td>1920x1200 @ 60</td>
<td>50 ft</td>
<td>8x8, 16x16, 16x32</td>
</tr>
<tr>
<td>Vista AV</td>
<td>DVI</td>
<td>1920x1200 @ 60</td>
<td>20 ft</td>
<td>2x1, 4x1, 8x1, 16x1</td>
</tr>
</tbody>
</table>

UltraMatrix AV

AV Matrix Switch
Video resolution up to 1080p
Supports 7.1 Digital Surround Sound audio
"Learn Mode" acquires the EDID information for any output monitor, once learned, the monitors do not have to be connected for the computers to boot
Switch a video source to any output monitor using either the front panel push buttons, remote matrix switching software, optional IR controller, or serial commands to the unit
Intuitive RoseControl software makes switching, routing, and controlling the video displays quick and easy
Optional Ethernet interface for control over network
HDCP compliant
Rack mount options
UltraMatrix AV Pro

4K UHD Modular Matrix Switch

The UltraMatrix AV Pro is a high performance audio and video cross-point switch connecting any input to any output, including seamless switching from older legacy video formats.

- Automatic built-in scaling and conversion
- 4-port modular I/O card design
- Supports any mix of HDMI, HDBaseT, 3G-SDI, DVI, VGA, and audio
- 4K video resolution is supported through HDMI
- High-bandwidth up to 10.2 Gbps
- Control by front panel, LAN, IR, or serial
- Smart EDID management
- HDCP compliant
- Dual internal power supplies
- Available in 8x8, 16x16, 32x32, 64x64, and 144x144 port models

1. Select a Chassis
2. Choose Input Cards
3. Choose Output Cards
4. Add on Extender units as required

HDBaseT transmitter and receiver units are used with the HDBaseT input and output cards to connect the switch and extender units up to 233 ft (70 m) over a single CATx cable.

Fiber transmitter and receiver units utilizing SFP modules with single LC connectors are used with fiber input and output cards to connect the switch and extender units. Multi-mode fiber can reach up to 1,000 ft (300 m). Single-mode fiber can reach up to 1.2 miles (2 km).
**KVM Extenders**

Extenders form a huge product segment for Rose. Video, USB, serial, audio, or others may be separate or combined. Transmission media may be IP, CATx, fiber, coax, hybrid, or wireless.

<table>
<thead>
<tr>
<th>Extender</th>
<th>Video</th>
<th>Cabling</th>
<th>Distance</th>
<th>Max. Resolution</th>
<th>Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orion XTender</td>
<td>HDMI</td>
<td>CATx/Fiber</td>
<td>460ft/3,300ft/33,000ft</td>
<td>3840x2160 @ 60</td>
<td>Option</td>
</tr>
<tr>
<td>Orion XTender</td>
<td>DisplayPort</td>
<td>CATx/Fiber</td>
<td>460ft/3,300ft/33,000ft</td>
<td>3840x2160 @ 60</td>
<td>Option</td>
</tr>
<tr>
<td>Orion XTender</td>
<td>Dual-link DVI</td>
<td>CATx/Fiber</td>
<td>460ft/3,300ft/33,000ft</td>
<td>3840x2160 @ 60</td>
<td>Option</td>
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<tr>
<td>Orion XTender</td>
<td>Single-link DVI</td>
<td>CATx/Fiber</td>
<td>460ft/3,300ft/33,000ft</td>
<td>1920x1200 @ 60</td>
<td>Option</td>
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<tr>
<td>Orion XTender</td>
<td>DVI (VGA)</td>
<td>CATx/Fiber</td>
<td>460ft/3,300ft/33,000ft</td>
<td>1920x1200 @ 60</td>
<td>Option</td>
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<tr>
<td>Orion XTender</td>
<td>SDI</td>
<td>CATx/Fiber</td>
<td>460ft/3,300ft/33,000ft</td>
<td>1920x1080 @ 60</td>
<td>Option</td>
</tr>
<tr>
<td>Xcion</td>
<td>HDMI</td>
<td>CATx</td>
<td>500ft</td>
<td>1920x1200 @ 60</td>
<td>No</td>
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<tr>
<td>Xcion+</td>
<td>DVI-I</td>
<td>CATx/Fiber</td>
<td>492ft/1,640ft/65,600ft</td>
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<td>Option</td>
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<tr>
<td></td>
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<td>CATx/Fiber</td>
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<tr>
<td>CrystalView Exact</td>
<td>DisplayPort</td>
<td>CATx</td>
<td>330ft</td>
<td>3840x2160 @ 60</td>
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<tr>
<td>CrystalView EX</td>
<td>HDMI</td>
<td>CATx</td>
<td>330ft</td>
<td>3840x2160 @ 30</td>
<td>✓</td>
</tr>
<tr>
<td>CrystalView EX</td>
<td>DVI</td>
<td>CATx</td>
<td>330ft</td>
<td>1920x1200 @ 60</td>
<td>Via USB</td>
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<tr>
<td>CrystalView EX Multi</td>
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<td>CATx</td>
<td>330ft</td>
<td>1920x1200 @ 60</td>
<td>Option</td>
</tr>
<tr>
<td>CrystalView EX Multi</td>
<td>DVI x 1-4</td>
<td>CATx</td>
<td>330ft</td>
<td>1920x1200 @ 60</td>
<td>Option</td>
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<tr>
<td>CrystalView</td>
<td>DVI</td>
<td>CATx</td>
<td>460ft</td>
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<td>Option</td>
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<td>CrystalView</td>
<td>DVI</td>
<td>Fiber</td>
<td>MM:1,300/SM:33,000ft</td>
<td>1920x1200 @ 60</td>
<td>Option</td>
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<tr>
<td>CrystalView Quad</td>
<td>DVI x 1-4</td>
<td>CATx</td>
<td>460ft</td>
<td>1920x1200 @ 60</td>
<td>Option</td>
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<tr>
<td>CrystalView Quad</td>
<td>DVI x 1-4</td>
<td>Fiber</td>
<td>MM:3,300ft/SM:33,000ft</td>
<td>1920x1200 @ 60</td>
<td>Option</td>
</tr>
<tr>
<td>CrystalView Pro</td>
<td>DVI-D, DVI-I (VGA)</td>
<td>Fiber</td>
<td>MM:1,640ft/SM:33,000ft</td>
<td>1920x1200 @ 60</td>
<td>Option</td>
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<tr>
<td>CrystalView USB2</td>
<td>VGA</td>
<td>CATx</td>
<td>330ft</td>
<td>1920x1200 @ 60</td>
<td>Option</td>
</tr>
<tr>
<td>CrystalView Plus USB</td>
<td>VGA</td>
<td>CATx</td>
<td>1,000ft</td>
<td>1600x1200 @ 60</td>
<td>Option</td>
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<tr>
<td>CrystalView CAT5</td>
<td>VGA</td>
<td>CATx</td>
<td>1,000ft</td>
<td>1600x1200 @ 60</td>
<td>Option</td>
</tr>
<tr>
<td>CrystalView Mini USB</td>
<td>VGA</td>
<td>CATx</td>
<td>150ft</td>
<td>1600x1200 @ 60</td>
<td>Option</td>
</tr>
<tr>
<td>ViewLink</td>
<td>VGA</td>
<td>CATx</td>
<td>1,000ft</td>
<td>1920x1200 @ 60</td>
<td>No</td>
</tr>
</tbody>
</table>
**Orion XTender**

**Modular CATx/Fiber Extender**

**2/4/6/21-Card Chassis**

The modular design of the Orion XTender allows users to extend desktop control of remote computers or to relocate them in a secure and managed space away from desktop, control room, or hazardous environments.

Whether you need single, dual, or quad-head video displays with control from a USB or PS/2 keyboard, mouse, or touchscreen, this modular and feature packed family can be configured to fit your needs.

Run them point to point or connect them to an Orion-X or Orion-XC switch. Now you can route your video, audio, and USB control to whatever destination you desire. Your source and destination video format need not be the same.

A wide range of chassis sizes with provision for redundant power make the Orion XTender a versatile product. You can use the larger sizes where multiple sources are in the same location and use the smaller units throughout your facility near user work stations.

Connection status LED’s are located on the front panel to indicate the operating status of the unit. The chassis are all rack mountable and all connectors are on the same side of the chassis for convenience and ease of access.

Common applications include control rooms, broadcast studios, outside broadcast vans, concert and theatre venues, AV distribution, medical imaging, and other industrial/military applications.

---

**EXTEND YOUR KVM STATIONS AND COMPUTERS**

- Up to 460 ft (140 m) using CATx cable
- Up to 3,300 ft (1 km) using multi-mode fiber
- Up to 33,000 ft (10 km) using single-mode fiber

**VIDEO INTERFACES AVAILABLE**

- HDMI and DisplayPort video up to 4K @ 60Hz
- Single-link DVI video up to 1920x1200 @ 60Hz
- Dual-link DVI video up to 4K @ 30Hz
- Dual-head DVI video using one cable up to 1920x1200 @ 60Hz
- DVI-I (VGA) video up to 1920x1200 @ 60Hz with optional scaling
- SDI video up to 1920x1080p

**OTHER INTERFACES AVAILABLE**

- USB-HID, USB 2.0, and USB 3.0 devices
- PS/2 keyboard and mouse
- Serial RS-232 and RS-422, up to 115.2 Kbps
- Analog stereo microphone and speaker
- Digital audio (Mini-XLR, Coaxial, Optical)
- Intel OPS displays
- IP access via the Orion XT IP Box

**OTHER OPTIONS AVAILABLE**

- Redundant power
- Redundant link
KVM EXTENDERS

**CrystalView EX**

**HDMI or DVI, USB 2.0**
Extends HDMI or DVI video and USB 2.0 up to 330 ft (100 m)
Uncompressed video resolution up to 3840x2160 on HDMI
Video resolution for DVI up to 1920x1200
Three remote high-speed USB 2.0 device ports supplying 500 mA power
USB 2.0 throughput of up to 40 Mbps
Use USB keyboards, mice, printers, scanners, flash drives, and other devices

**CrystalView EX Multi**

Multi-head CATx Extender, HDMI or DVI, USB 2.0, Audio
Extends up to four video signals and USB 2.0 up to 330 ft (100 m)
Uncompressed video resolution up to 1920x1200
Three high speed USB 2.0 device ports supplying 500 mA power
USB 2.0 throughput of up to 40 Mbps
Supports audio via USB or optional dedicated channel
Use USB keyboards, mice, printers, scanners, flash drives, audio devices, touch screens, web cams, game controllers, and more

**CrystalView Exact**

**DisplayPort, USB, LAN Extender**
Extends DisplayPort 1.2, USB 3.1/2.0/1.1, and Gbit Ethernet on CATx to 330 ft (100 m)
Supports 4K60 video and USB 3.1 gen 1 data up to 5 Gbps
Four USB-A Gen 1 ports on the receiver unit, each with 1.5A power
Expandable to 30 ports with the use of USB hubs
Optimum performance with CAT6a and CAT7 (solid core) UTP/STP cabling
**Xcion**

**CATx/Fiber Extender, HDMI/DVI, USB 2.0, Audio, Serial**

Full HD digital or analog video 1920x1200 @ 60Hz

Units can run point-to-point or through a gigabit Ethernet switch

Extend multi-mode fiber up to 1,640 ft (500 m)

Single-mode fiber up to 12.4 mi (20 km)

CATx extension up to 492 ft (150 m)

**Xcion+**

**CATx/Fiber Extender, DVI/VGA, USB 2.0, Audio, Serial**

Full-featured KVM Extender

Includes ALL features of the original Xcion

Includes ALL activated upgrade options

Expanded switching matrix supports up to 2,000 end-points

Switching Manager software for simplified control and switching

**ViewLink**

**Miniature CATx Extender**

**VGA, USB & PS/2**

Video resolution up to 1920x1200 at 300 ft (90 m)

1024x768 at 1,000 ft (300 m)

Automatic equalization provides clear video over any type of CATx cable

Optional automated video skew adjustments for different pair lengths in cable

Video-only and touchscreen models available

**EXPANDBLE EXTENDERS**

Xcion and Xcion+ extenders support point-to-point extension, LAN extension, and any to any LAN matrix configurations.

See Multi-User KVM Switches section on page 4 for more details.

**XCION UPGRADE OPTIONS**

These features are pre-installed on the extenders, and they are enabled by entering quick activation codes.

- Matrix Switching System (Up to 48 endpoints)
- Bi-directional analog stereo audio and RS-232
- USB memory - support for memory sticks and hard drives
- Analog VGA video - transmitted as DVI
CrystalView Micro HDMI

**4K60 HDMI Fiber Extender**
- Up to 1 km on a single OM4 multi-mode fiber
- HDMI and embedded audio up to 4K60
- Full DDC and CEC pass through
- Use existing fiber installation with or without patch panels
- Plug-and-play installation
- LED indicates status of link and verifies operation

CrystalView Micro DL

**Compact DVI Fiber Extender**
- Supports dual-link DVI-D video
- Connects directly to DVI ports
- Video resolution up to 3840x2400 @ 24 Hz
- Extends up to 1,000 ft (300 m)
- Dual SC type connection to two-strand multi-mode fiber cable
- Auto-detect EDID information

CrystalView HDBaseT HDMI

**4K60 HDMI HDBaseT Extender**
- Extends HDMI signals to 330 ft (100 m) using CAT6 cable and HDBaseT technology
- Resolutions up to 4K60 and 1080p60
- Bi-directional IR and RS-232 interfaces
- Supports HDCP 2.2, 3D video, and HDMI audio
- Power-over-Cable (PoC) for remote unit power

CrystalView Micro LT

**Compact DVI Fiber Extender**
- Supports single-link DVI-D video
- Video resolution up to 1920x1200 @ 60 Hz
- Connects directly to DVI ports
- Duplex LC type connectors
- Extend up to 4,920 ft (1,500 m) over single-mode fiber cable
- Extend up to 1,640 ft (500 m) over multi-mode fiber cable
- Auto-detect EDID information

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**Audio/Video Extenders**

Rose has a diverse portfolio of audio/video extenders that extend HDMI, DisplayPort, DVI, and VGA video sources and audio signals over CATx, fiber, and active optical cables.

### Extender Specifications

<table>
<thead>
<tr>
<th>Extender</th>
<th>Video</th>
<th>Cabling</th>
<th>Distance</th>
<th>Max. Resolution</th>
<th>Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extensiv Active Optical Cable</td>
<td>HDMI 2.0/2.1</td>
<td>Fiber</td>
<td>30-330 ft</td>
<td>7680x4320 @ 60</td>
<td>✓</td>
</tr>
<tr>
<td>Extensiv Active Optical Cable</td>
<td>DisplayPort 1.4</td>
<td>Fiber</td>
<td>30-330 ft</td>
<td>7680x4320 @ 30</td>
<td>✓</td>
</tr>
<tr>
<td>Extensiv Active Optical Cable</td>
<td>DP 1.2 to HDMI 2.0</td>
<td>Fiber</td>
<td>100 ft</td>
<td>3840x2160 @ 60</td>
<td>✓</td>
</tr>
<tr>
<td>Extensiv Active Optical Cable</td>
<td>DVI</td>
<td>Fiber</td>
<td>30-330 ft</td>
<td>2560x1600 @ 30</td>
<td>No</td>
</tr>
<tr>
<td>Extensiv Active Optical Cable</td>
<td>USB C to HDMI (HDMI 1.4 Alt Mode)</td>
<td>Fiber</td>
<td>100 ft</td>
<td>3840x2160 @ 60</td>
<td>✓</td>
</tr>
<tr>
<td>CrystalView HDBaseT HDMI</td>
<td>HDMI</td>
<td>CATx</td>
<td>330 ft</td>
<td>3840x2160 @ 60</td>
<td>✓</td>
</tr>
<tr>
<td>CrystalView Micro HDMI</td>
<td>HDMI</td>
<td>Fiber</td>
<td>3,280 ft</td>
<td>3840x2160 @ 60</td>
<td>✓</td>
</tr>
<tr>
<td>CrystalView Micro LT</td>
<td>Single-link DVI</td>
<td>Fiber</td>
<td>MM: 4,920 ft / SM: 1,640 ft</td>
<td>1920x1200 @ 60</td>
<td>No</td>
</tr>
<tr>
<td>CrystalView Micro DL</td>
<td>Dual-link DVI</td>
<td>Fiber</td>
<td>MM: 1,000 ft</td>
<td>3840x2160 @ 30</td>
<td>No</td>
</tr>
<tr>
<td>CrystalView Micro</td>
<td>Single-link DVI</td>
<td>Fiber</td>
<td>MM: 1,000 ft</td>
<td>1920x1200 @ 60</td>
<td>No</td>
</tr>
</tbody>
</table>
This revolutionary state-of-the-art optical cable family transmits high resolution video, audio, and data up to 100 m. All of the optics and electronics are embedded into the cable head to provide a sleek and streamlined installation. No external power supply is needed because all of the power is supplied by the interface. Unlike the traditional concept of using a transmitter and receiver unit at each end, you just plug the cable in like a regular cable. Rose produces a wide variety of AOC cables in HDMI, DisplayPort, DVI, and USB.

Lengths of 33 ft (10 m), 66 ft (20 m), 100 ft (30 m), 165 ft (50 m), 230 ft (70 m), and 330 ft (100 m) are available. Jackets can be plenum rated (CMP), low smoke zero halogen (LSZH), or armored. Detachable style removes the cable head from either end to allow running the cable through a conduit. These products are perfect for digital signage, presentation venues, hotel and restaurant, medical facilities, retail locations, board rooms, industrial settings, military sites, and many other environments.
Rose has a diverse portfolio of USB extenders that allow USB ports on devices to be extended over CATx, fiber, active optical cables, or active copper cables. Rose has solutions that support USB 1.1, 2.0, and 3.1 Gen 1.

### CrystalLink USB 3-2-1

**USB 3.1 Extenders**

- **USB 3.1 gen 1 data rate up to 5 Gbps**
- Supports all USB 3.1, 2.0, and 1.1 devices simultaneously at full bandwidth
- Integrated 4-port USB hub
- 100/1000 Ethernet channel extension
- Secure, isolated, high-speed extension
- Plug-and-play product, no drivers or jumpers
- Supports all major operating systems

### CrystalLink USB 3.1 Active Copper Cable

**USB 3.1 Extender to 50 ft (15 m)**

- Supports speeds up to 5 Gbps
- Powered by the USB host
- Supplies 900 mA current
- LED indicates status
- Plug and play
- Rugged industrial design

### CrystalLink USB 3.1 Dual Port

**USB 3.1 Fiber Extender**

- Extends USB 3.1 devices up to 330 ft (100 m)
- Uncompromised throughput of USB 3.1 gen 1 rate of 5 Gbps
- Uses standard 50/125µm multi-mode fiber cable terminated with one duplex LC type connector
- Fiber cable ensures high-speed transmission, electrical isolation, high reliability, and transmission security
- The transmitter unit is USB interface powered

### CrystalLink USB 2.0 CATx/Fiber Extender

**USB 2.0 CATx/Fiber Extender**

- Extends USB 2.0 to 330 ft (100 m) over CATx
- 1,640 ft (500 m) over multi-mode fiber cable
- 33,000 ft (10 km) over single-mode fiber cable
- Four remote USB 2.0 device ports supplying 500 mA power
- USB 2.0 throughput of up to 480 Mbps
- Use USB keyboards, mice, printers, scanners, flash drives, audio devices, touch screens, web cams, game controllers, and other devices
Rose portfolio of video wall processors support both HD and 4K environments with fixed port and modular options. Cost effective plug and play solutions provide you with the flexibility to support a variety of applications.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UltraVista Pro</td>
<td>DVI-D Dual-link: 3840x2160 @ 30</td>
<td>DVI-D Dual-link: 3840x2160 @ 30</td>
<td>Ethernet</td>
<td>Any via serial port</td>
</tr>
<tr>
<td></td>
<td>DVI-D Single-link: 1920x1200 @ 60</td>
<td>DVI-D Single-link: 1920x1200 @ 60</td>
<td>Serial port</td>
<td>Any via any other port</td>
</tr>
<tr>
<td>UltraVista 4K</td>
<td>DVI-D Dual-link: 4096x2160 @ 30</td>
<td>DVI: 1920x1200 @ 60</td>
<td>Ethernet</td>
<td>Any via cascade</td>
</tr>
<tr>
<td></td>
<td>HDMI 4K: 4096x2160 @ 30</td>
<td></td>
<td>Serial port</td>
<td>Any via cascade</td>
</tr>
<tr>
<td></td>
<td>DisplayPort 1.1a: 3840x2400 @ 30</td>
<td></td>
<td>IR Control</td>
<td>Any via splitter</td>
</tr>
<tr>
<td>UltraVista 4K60</td>
<td>HDMI: 4K @ 60 (4:2:0: 10 bits)</td>
<td>DVI: 1920x1200 @ 60</td>
<td>Ethernet</td>
<td>Any via splitter</td>
</tr>
<tr>
<td></td>
<td>HDMI: 4K @ 60 (4:4:4 8 bits)</td>
<td></td>
<td>Serial port</td>
<td>Any via splitter</td>
</tr>
<tr>
<td>UltraVista Plus</td>
<td>DVI-D Dual-link: 2560x2048 @ 60</td>
<td>DVI-I/VGA: 1920x1200 @ 60</td>
<td>USB port</td>
<td>1x4, 2x2, 4x1</td>
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<td></td>
<td>others at reduced frame rate</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DVI-D Single-link: 1920x1200 @ 60</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

UltraVista Pro

Video Wall Image Processor

Hardware based, OS-free architecture for real time quality and reliability

Input video input formats include VGA, YpbPr, CVBS, DVI Single-link, DVI Dual-link, HDMI, SDI, and DisplayPort

Output video in VGA, DVI Single-link, DVI Dual-link, HDMI, and SDI

Input and output resolutions up to 1920x1200 @ 60Hz or 3840x2400 @ 30Hz for 4K cards

HDMI inputs are HDCP compliant

Multi-screen management to support displays with different resolutions

Control software supports user presets and user preview of all inputs

Background underlay on to which video tiles can be laid

Fonts, color, and size of on-screen display (OSD) can be edited

Seamless switching with millisecond response time

Bezel compensation

UltraVista 4K60

UHD Video Wall Processor, 4K60

Output resolution from 640x480 to 1920x1200 in 2x2 format

Input resolution HDMI 4K2K@60Hz (YUV 4:4:4)

Each DVI/HDMI output has an independent controllable display area

Resize, position and zoom the video output

Stereo audio output is provided

EDID from the default resolution table or from direct connection

Controller software is included, and software management via the USB or Ethernet ports

Image parameters and layouts can be saved in flash memory and recalled for later use

Supports IR remote control

HDCP compliant
Rose provides multiviewers that take multiple video sources from computers, DVD/Blu-ray players, cameras, etc. and tile them in multiple formats on a single screen or video wall. Optional KVM switching between computer sources is also available.

<table>
<thead>
<tr>
<th>Product</th>
<th>Video</th>
<th>Resolution</th>
<th>KVM Control</th>
<th>Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td>QuadraVista 4K60</td>
<td>HDMI</td>
<td>4K60 4:4:4</td>
<td>No</td>
<td>✓</td>
</tr>
<tr>
<td>QuadraVista</td>
<td>HDMI</td>
<td>1920x1200 @ 60</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>QuadraVista QF</td>
<td>DVI</td>
<td>1920x1200 @ 60</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>QuadraVista II</td>
<td>DVI</td>
<td>1920x1200 @ 60</td>
<td>✓</td>
<td>No</td>
</tr>
</tbody>
</table>

QuadraVista QF

4 HDMI/DVI/VGA Inputs + Digital Audio
Connect four VGA, DVI, or HDMI sources with USB or PS/2 keyboard/mouse
Supports 10-bit color for maximum video clarity
Display video sources in quad, picture-in-picture, full, or windowed mode with name of source
Switch a USB 2.0 device or Dolby 7.1 output from any computer
Can be controlled from keyboard, mouse, front panel, USB, serial port, or touchscreen
Audio input from HDMI sources, digital and analog audio output
Four USB 2.0 ports for printers, memory sticks, and other high-speed devices

QuadraVista HDMI 4K60

4K60, Front Panel Presets
Displays up to four HDMI video sources on a single monitor
Input resolutions from 640x480 @ 60Hz to 1920x1200 @ 60Hz
Supports HDMI 2.0 output resolution up to 4K60 (4:4:4 8 bits)
Window size and position are software adjustable
HDCP 1.4 compliant
Analog stereo audio output
Output display parameters such as layout, resolution, titles, and borders are software controllable
Up to eight different layouts can be saved
Resize, position, zoom, pan, and blend output video
Configure output through RS-232 or Ethernet
28-key IR remote control
Rotation of input image by +90° or -90°
Supports pixel by pixel mapping in a 2x2 configuration
Automatically upscale 1920x1080 @ 60Hz output resolution to 4K2K
Two EDID selections, and custom EDID can be loaded from a file
Firmware updates via configuration software
Software management package included with the product
Rose video splitters support HDMI, DVI, or VGA. The remote displays may be directly connected or extended over CATx or active optical cables. Units can be daisy chained to support additional displays.

### Video Splitters

**VideoSplitter HDMI / HDBaseT**

**1x4 HDMI 4K60**

- Distributes and extends one HDMI 2.0 source with IR and RS-232 to four extended distance displays up to 230 ft away
- HDMI input and CATx/HDBaseT output to receivers near displays
- Receivers are powered by the video splitter
- One HDMI loop out for local display or to cascade additional units for increased number of displays
- HDCP 2.2 compliant
- EDID management

<table>
<thead>
<tr>
<th>Product</th>
<th>Video</th>
<th>Max. Resolution</th>
<th>Distance</th>
<th>Outputs</th>
<th>Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td>VideoSplitter HDMI / HDBaseT</td>
<td>HDMI</td>
<td>4K @ 60</td>
<td>130 ft (4K60), 230 ft (1080p)</td>
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<td>✓</td>
</tr>
<tr>
<td>VideoSplitter HDMI 4K60</td>
<td>HDMI</td>
<td>4K @ 60</td>
<td>10 ft</td>
<td>2, 4, 8</td>
<td>✓</td>
</tr>
<tr>
<td>VideoSplitter HDMI PT</td>
<td>HDMI</td>
<td>4K @ 30</td>
<td>10 ft</td>
<td>2</td>
<td>✓</td>
</tr>
<tr>
<td>VideoSplitter DVI Audio</td>
<td>DVI</td>
<td>1920x1200 @ 60</td>
<td>33 ft</td>
<td>2, 4</td>
<td>✓</td>
</tr>
<tr>
<td>VideoSplitter DVI (No Audio)</td>
<td>DVI</td>
<td>1920x1200 @ 60</td>
<td>33 ft</td>
<td>2, 4, 8</td>
<td>No</td>
</tr>
<tr>
<td>CrystalView DVI Multi</td>
<td>DVI</td>
<td>1920x1200 @ 60</td>
<td>220 ft</td>
<td>2, 4, 8</td>
<td>No</td>
</tr>
<tr>
<td>VideoSplitter VGA</td>
<td>VGA</td>
<td>1920x1200 @ 60</td>
<td>50 ft</td>
<td>2, 4, 8, 12, 16</td>
<td>No</td>
</tr>
<tr>
<td>VideoSplitter VGA CAT5</td>
<td>VGA</td>
<td>1920x1200 @ 60</td>
<td>1,000 ft</td>
<td>6, 12</td>
<td>Option</td>
</tr>
</tbody>
</table>

**VideoSplitter HDMI 4K60**

- 2, 4, or 8 HDMI outputs
- Distribute a single HDMI video signal to multiple displays
- Supports HDMI video up to 4K @ 60 Hz 4:4:4 8 bits
- HDCP 2.2 / 1.4 compliant
- Rotary dial to setup built-in EDID or EDID learning from display
- Cascading feature to increase number of output displays

**VideoSplitter HDMI/HDBaseT**

**1x4 HDMI 4K60**

- Distributes and extends one HDMI 2.0 source with IR and RS-232 to four extended distance displays up to 230 ft away
- HDMI input and CATx/HDBaseT output to receivers near displays
- Receivers are powered by the video splitter
- One HDMI loop out for local display or to cascade additional units for increased number of displays
- HDCP 2.2 compliant
- EDID management
KVM Rack Drawers

These products are used in data centers, broadcast, Pro AV, and digital signage applications. Available in a wide variety of formats, they support up to 4K60 video resolution.

<table>
<thead>
<tr>
<th>Product</th>
<th>Resolution</th>
<th>LCD Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3840x2160</td>
<td>1920x1200</td>
</tr>
<tr>
<td>RackView 4K</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>RackView</td>
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<tr>
<td>RackView Widescreen</td>
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<tr>
<td>RackView Sideways</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>RackView LCD Drawer</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>RackView LCD Panel Mount</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>RackView Multi-Display</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

RackView 4K

Ultra High Definition
3840x2160 native resolution
DisplayPort 1.2 video input
Supports 1920x1080, 1920x1200

RackView

KVM Rack Drawer
HDMI, DVI, VGA, or S-Video input
Optional touchscreen

RackView Dual Rail

Dual Rail Feature
Independent sliding keyboard and LCD

RackView Sideways

High Resolution LCD
Innovative sideways sliding drawer
Left or right-side opening
3840x1080 available in 23" LCD

RackView Widescreen

Wide Format Display
DVI or VGA video input
USB keyboard and touchpad or trackball

RackView Multi-Display

Triple or Dual Screen
Right or left mounted dual display
2U 22" short depth design
RackView LCD Panel Mount

Rack Mounted LCD
Available in 17", 19", 20", 21", 23", and 24" models with widescreen, HD, and touchscreen formats

RackView LCD Drawer

Foldaway LCD Drawer
Available in many sizes, standard and widescreen.

RackView Keyboard

Foldaway Keyboard Drawer
Keyboard and Mouse
Standard or short depth
USB and PS/2 connectors

Accessories

Remote Control Keypads

Versatile KVM Switch Control
80-Key Keypad: 8x10 key array
24-Key Keypad: 4x6 key array
4, 8, or 16 single row keysticks
User-programmable keys
Functions as a customized control panel

Remote Control Panel & Remote Control Switches

Control KVM Switches with push buttons through a serial port connection

TransVue HDMI 4K2K Scaler

Upscale and downscale HDMI 4K60 and 1080p
Splits HDMI input to 2 outputs, one is loop-out and other is scaled
Supports 4096x2160, 3840x2160, and 1080p video resolutions
Features HDCP and CEC support

Translator VGA to HDMI Converter

Video Converter/Scaler
Powerful OSD for video adjustments
Noise reduction and video enhancement
Stereo and S/PDIF audio input converts to HDMI audio output
Specializing in Connectivity of Video, Audio, and USB via Fiber, CATx, and IP

Solutions for Broadcast, Command and Control, Data Centers, Digital Signage, Education, Entertainment, Financial, Government, House of Worship, Industrial, Medical, Military, Presentation Venues, Retail, Security, Transportation, and others