Orion UltraMatrix AV HD
16x16 HDMI Video Matrix Switch

16-port HDMI Video Matrix Switch

▸ Switches 16 HDMI inputs to 16 HDMI outputs
▸ Transmits uncompressed 1080p video up to 40 feet
▸ Switching via front panel, RS-232, IR, and TCP/IP
▸ Video sources independently routed to any display
▸ Supports 7.1 Digital Surround Sound Audio
▸ HDMI and HDCP 1.4 compliant

Features and Benefits

- HDMI Output resolutions up to 1080p
- Input sources and output displays can each be up to 40 feet from the switch
- Supports 7.1 Digital Surround Sound audio
- Unique "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 IR control available
- Model available with built-in LAN card for TCP/IP control
- HDMI input is HDCP 1.4 compliant
- Set-up multimedia presentations where information is displayed from multiple computers
- Rack mountable options

The UltraMatrix AV HD Advantage . . .

The UltraMatrix AV HD is the perfect addition to new or existing installations that need to display up to 16 HDMI video sources on 1 to 16 remote HDMI displays. Any video source can be displayed on 1, 2 or all monitors.

The unit provides easy front panel selection of the video source to be displayed on each remote monitor. Just press a button to select the source, and then select the destination. The front panel display shows which inputs are connected to which displays.

Selection can also be performed by using the RoseControl software to send switching commands to the unit. With one click on the cross-point, that computer's video is instantly switched to the selected HDMI monitor. The RoseControl software is installed on a computer or laptop external to the switch and connected to the RS232 port on the unit.

The matrix can also be controlled through an optional IR controller, allowing the unit to be controlled from a distance.

Models with the optional LAN card can be assigned an IP address, allowing control from a web browser anywhere in the world.

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Typical Application

Models   The UltraMatrix AV HD is available in a two models. The standard model has 16 HDMI inputs and 16 HDMI outputs. The second model adds a built-in LAN card to provide TCP/IP access to the unit.

Installation   The UltraMatrix AV HD is very simple to install. Connect HDMI cables from up to 16 HDMI sources to the unit's input ports. Then connect up to 16 HDMI monitors to the unit using HDMI cables.

Operation   The UltraMatrix AV HD can be controlled from a serially connected computer or laptop running RoseControl software. This allows easy selection of the computer video stream to be displayed on each HDMI monitor. Each video source can be routed to any video output port and to any number of output ports. Route video source #1 to output #1, source #2 to outputs #2, #3, #10, and #14 by simply clicking on the source destination cross-point. The same operations can be performed on the model with the built-in LAN card using a web browser from anywhere in the world.

Rear View

Specifications

Part Number	Description
UMA-16Hx16H	Standard model
UMA-16Hx16H/RCI	Model with built-in LAN card option

Dimensions

Width (in/mm)	Depth (in/mm)	Height (in/mm)	Weight (lbs/kg)
19.0/482.6	13.0/330.2	5.25/133.35	15/6.8

Video Resolution

HDTV Resolutions	480p, 720p, 1080i, 1080p
TV Resolution	480i
HDMI Output	Up to 1080p

Connectors

Video In	16xHDMI Type A 19-pin Female TDMS
Video Out	16xHDMI Type A 19-pin Female TDMS
Serial Port	1xDB9 Female
LAN port (UMA-16Hx16H/RCI)	1xRJ45 Female

Cables

Video In	HDMI Male to Male (up to 40 ft)
Video Out	HDMI Male to Male (up to 40 ft)
Serial Port	Straight through DB9 Male to DB9 Female RS-232 cable
LAN port	CATx cable

Controls

Front Panel	Switching and menu selector buttons
Software	RoseControl Software through RS-232 port
IR	Through optional IR Control Interface
LAN	Through a browser on UMA-16Hx16H/RCI

Power

Adapter	100-240 VAC, 50-60 Hz, 60 W

Environmental

Operating Temperature	32°F to 104°F/0°C to 40°C
Storage Temperature	20°F to 140°F/-20°C to 60°C
Operating Humidity	10% to 85%, non-condensing
Storage Humidity	10% to 85%, non-condensing

Approvals

	FCC, CE, RoHS

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