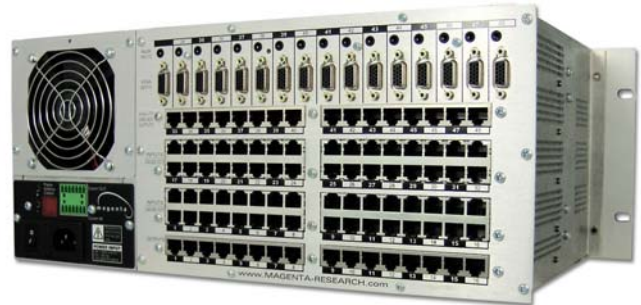


Mondo Direct™ VGA + Audio Input Cards

The Pro A/V Industry's Cat5 Switch Platform Adds Direct-connect Convenience

Integrated transmitters reduce rack space, lower installation costs and eliminate UTP cable input lengths



Mondo Matrix™ with Mondo Direct™ Input Cards:
(shown) 16 VGA + 32 UTP inputs x 16 outputs
#221R-16V32x16

Magenta Research's Mondo Matrix™ scalable Cat5 switcher now offers Mondo Direct™ Input Cards, enabling the direct input of video and audio sources. Available configurations include Mondo Direct-inputs only, Mondo Direct plus RJ-45 inputs and various matrix sizes (examples below).

Each Mondo Direct card has inputs for 16 sources, delivering video plus audio to a Mondo Matrix switcher. This eliminates the need for stand-alone MultiView™ Series transmitters, removes UTP cable input lengths, reduces rack space and lowers installation labor costs. Two Mondo Direct cards plus 16 RJ-45 outputs fit into each 4U modular Mondo frame.

Examples of Mondo Matrix configurations with Mondo Direct Input Cards:

- 32 VGA + audio direct inputs x 16 RJ-45 outputs (32x16 total), 1 frame, 4U rack space
- 16 VGA + audio direct inputs + 32 RJ-45 inputs x 16 RJ-45 outputs (48x16 total), 1 frame, 4U
- 16 VGA + audio direct inputs + 32 RJ-45 inputs x 32 RJ-45 outputs (48x32 total), 2 frames, 8U
- 32 VGA + audio direct inputs x 32 RJ-45 outputs (32x32 total), 2 frames, 8U
- 32 VGA + audio direct inputs x 128 RJ-45 outputs 32x128 total), 8 frames, 32U

Mondo Direct cards incorporate Magenta's proprietary MultiView technology, allowing RGBHV, component* (see specifications) or S-video, plus balanced left/right audio—to be distributed anywhere from one to 2,000 feet with superior image quality.

Companion Products Include:



MultiView 250A
Receiver
400R3284



MultiView K-500TD
Twin-Display Receiver
4003377



MultiView AK500
Receiver
4003299

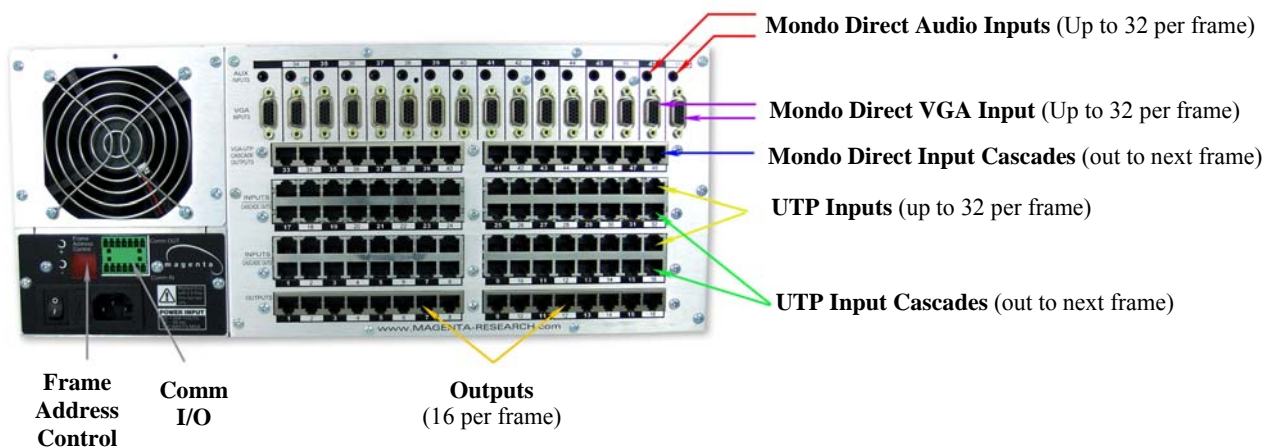


MultiView AK1000
Receiver
400R3093



MultiView AK1500 DP
Receiver
400R3097

Mondo Matrix™ with Mondo Direct™ Input Cards Back Panel



Mondo Matrix Benefits

- Configurable from 16x16 to 256x256—in steps of 16 inputs or outputs—to meet a wide-range of larger-scale full-matrix switching applications
- Audio and/or serial pairs can be switched separately
- Enables high-resolution video, audio and serial distribution to 2000 feet (610 meters)
- Video, audio and/or serial signals are switched in combination, greatly reducing complexity
- Cat5 / RJ45 inputs and outputs, rather than BNC's, lead to a dramatic reduction in:
 - connections
 - power consumption
 - rack space
 - installation labor

Mondo Direct Benefits

- Removes UTP cable input lengths
- Eliminates need for stand-alone MultiView transmitters and power supplies
- Further reduces rack space needed
- Additionally lowers installation labor
- Mondo Direct transmitters incorporate MultiView technology, allowing input of RGBHV, RGB, YUV, component, S-video, PAL, or HDTV analog video plus audio
- Configurations from 16x16 to 32x128, in increments of 16 inputs and/or outputs

Specifications:

Video & Aux Signals

Signal configuration: 4 identical, individually routable channels per RJ-45 jack.

Input impedance: 100Ω balanced (compatible with all MultiView equipment)

Nominal input amplitude: 1 Volt P-P

Dynamic headroom: >3dB

Gain from transmitter input to receiver output through switch: Unity

Coupling from transmitter input to receiver output: DC

Circuitry bandwidth: >220MHz

Signal type: 1,2,3,4 & 5 component video + aux channels (Via MultiView)

Input connectors: Thirty-two (32) HD15F (Full Population) +

Thirty-two (32) RJ-45 Female (Full Population)

Loop out connectors: Sixty-four (64) RJ-45 Female (Full Population)

Output connectors: Sixteen (16) RJ-45 Female

Switch speed: 50 ns upon recognition of commands

Video

***Note:** Video sources must be DC coupled with the black level referenced to 0 volts. AC coupled signals must utilize MultiView UTx Transmitters, which feature DC restore capability.

Video Support: VGA, SVGA, XGA, XGA-2, RGBHV, RGB, S-Video, Component* Video modes

Resolution and Refresh Rate: To 2048 x 1536 at up to 72 Hz

Audio

Input Connectors: Thirty-two (32) 3.5 mm (Full population)

Channels: Right/Left summed

Type: Line Level 600 Ohm Unbalanced

Required Source Impedance

Video OUT: 75 ohms;

Audio models: Audio OUT: 600 ohms maximum

Required Destination Impedance: Video IN: 75 ohms;

Audio models: Audio IN: 600 ohms minimum SPDIF audio models: 75 Ohm.

Control

Protocol to switch: RS-232/RS-422, Selectable; 9600 baud standard

Protocol between master and slave frames: RS-232

Interface connector, input: 7 position Phoenix

Interface connector, output: 7 position Phoenix

All input to output switching commands are received and processed by the master frame. Additional frames used within the matrix are connected in a daisy chain and receive processed complex routing commands from the master frame.

Power

Power input: 90~264 V / 50~60 Hz

Consumption: 150 W Max

Environmental

Temperature/humidity: Storage -40° to +158°F (-40° to +70°C) / 10% to 90% non-condensing

Operating: 0° to +100°F (0° to +37°C) / 10% to 90%, non-condensing

Mechanical

Rack mount: Standard, 4U 19" EIA

Enclosure type: Front Panel: Powder coat chassis, passivated aluminum

Enclosure dimensions: 6.7" H x 19" W x 10.5" D (170 mm H x 483 mm W x 267 mm D)

Mass: 16 lbs (7.3 kg) fully populated

Vibration: ISTA/NSTA 1A in carton (International Safe Transit Association)

Compliances: CE; FCC Class A Safety: EN60950

MTBF: 100,000 hours, nominal

Warranty: 1 Year

Magenta Research is the industry-recognized leader in the adaptive distribution and switching of video/audio/serial signals over Cat5 cable, and more recently, DVI over fiber and/or Cat6. Over nine years, Magenta has developed the highest-performance, most flexible video-over-Cat5 product line, the MultiView Series. The company utilizes patent-pending RepliSync™ and complex, state-variable signal EQ technologies to enable UXGA video distribution at 2,000 feet (610m) and QXGA video at 1,000 ft. (305m). MultiView Series transmitters, receivers, switchers and distributive systems have been installed in a large variety of A/V applications, especially dynamic signage for airport, retail, fast food, museum, casino, theatre, courtroom and corporate applications. Based in New Milford, CT, Magenta utilizes a network of international distributors, manufacturers representatives and resellers to market its enabling technology worldwide.

