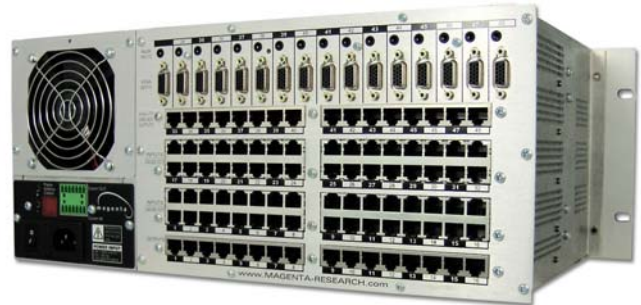


Mondo Direct™ VGA + Audio Input Cards

**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 500A
Receiver 400R3540



MultiView K-500TD
Twin-Display Receiver
400R3377



MultiView AK600DP
Receiver
400R3755

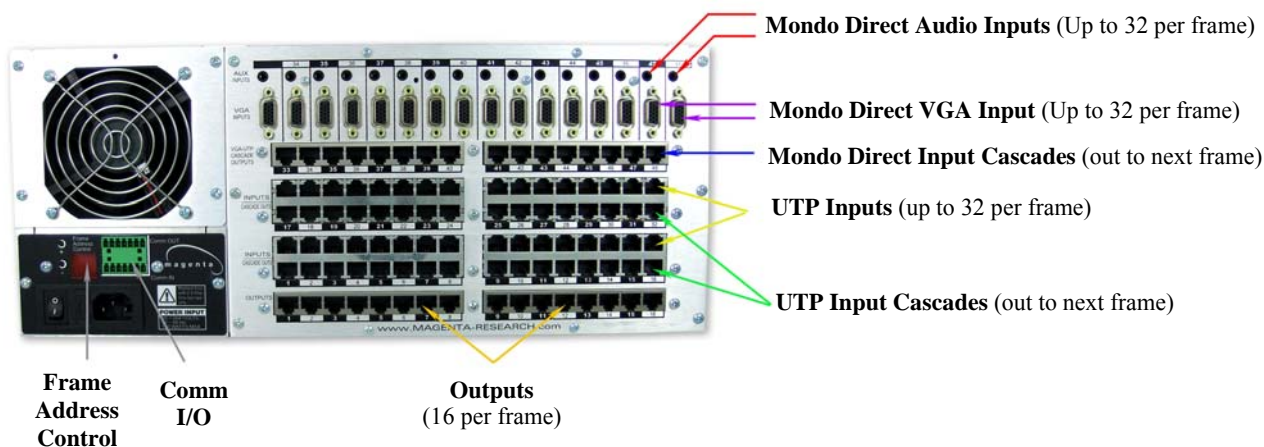


MultiView AK1200DP
Receiver
400R33371



MultiView XR-2000DP
Receiver
400R33584

Mondo Matrix™ with Mondo Direct™ Input Cards Back Panel



Mondo Matrix Benefits

Mondo Direct Benefits

- Configurable from 16x16 to 256x512—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

- 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

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

Resolution: To 1920x1200 (receiver dependent)

***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.

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: 3 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 ten 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 WUXGA video distribution at 2,000 feet (610m). 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.

