

MultiView™ AK500 Series Receivers



**MultiView AK500
4003299**

High-Resolution Video , Audio and Serial over Cat5 / UTP Cable

*Integrated skew compensation,
continuous EQ and flexible configuration
in a robust 500 foot receiver*

MultiView AK500 series receivers deliver QXGA resolution (2048x1536) @ 500 feet (152 meters) @70Hz refresh rate. To ensure crisp display images, the AK500 includes built-in skew compensation, which allows operators to add 10ns of delay (color offset adjustment) on one or all of the red, green or blue color channels. A continuous knob-turn equalization adjustment is featured on the AK500 as well, permitting users to concurrently fine adjust image quality based on actual cable distance—from one to 500 feet.

All AK500s can be user-configured (through jumpers) to handle composite, component, S-video, RGSB or RGBHV video signals. Signal combinations on the base version can include video and analog or SPDIF audio, video and simplex 232 serial or S-video and stereo audio. Other versions can be factory-configured to transport video plus full-duplex RS-232 (AK500 232) or video, stereo and full duplex RS-232 over a single Cat5 (AK500-SA). For daisy-chain applications the AK500 is available in a dual-port configuration (AK500 DP).

Magenta offers four distance tiers of its MultiView Series receivers: 250 feet (76 meters), 500 feet (152 meters), 1000 feet (305 meters) and 1500 feet (457 meters), all of which handle composite through high-resolution RGBHV video. The MultiView AK500 Receiver inhabits the second tier. MultiView users can mix-and-match receivers as needed to adapt to the specific application layout.

The MultiView Series provides a “building block” approach to signal distribution over Cat5. MultiView AK500 Receivers may be linked to a MultiView UTx Universal Transmitter, a PCI card transmitter or MultiView T4/T5 multiple output transmitters, plus MultiView distribution amplifiers and/or matrix switchers in order to cover any application.

Companion Products:



MultiView UTx
Transmitter 4003212



MultiView PCI
Transmitter 4003246



MultiView T4
Transmitter 4002959
T4A (audio): 4002959



MultiView T5
Transmitter 4002941
T5A (audio): 4003006



MultiView 9D
Distribution Amp
2211029

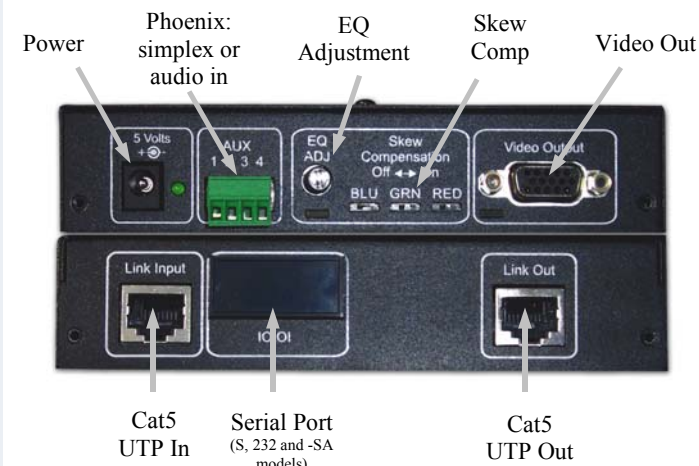


MultiView Matrix
8x8 Switch 4003026
16x16 Matrix: 4003238
Mondo Matrix: 2213001

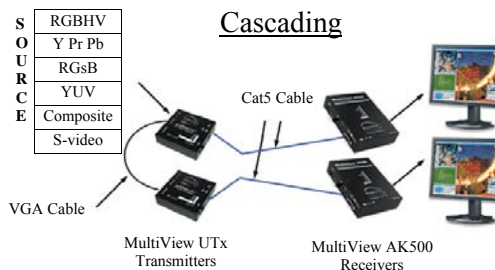
Benefits of MultiView™ AK500:

- Highest-resolution video reproduction to 500 feet (152 meters)
- Dedicated Cat5 cable operates outside existing IT networks
- ESD (electrostatic discharge) protection on all I/O circuits
- Daisy-chain capability reduces transmitter count and cost per source
- High reliability design suitable for harsh environments
- Proprietary RepliSync™ and signal filtering technologies
- Unmatched flexibility with configurations that deliver:
 - Analog L/R mono or stereo audio and video
 - SPDIF digital audio and video
 - Full-modem or simplex serial control and video
 - Duplex serial, stereo audio and video

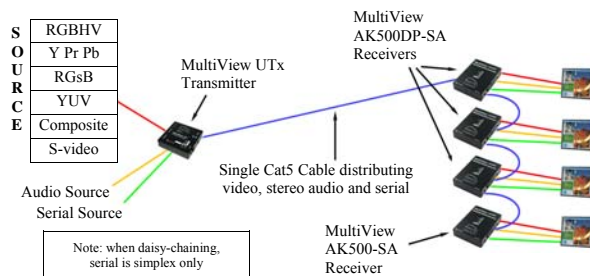
MultiView™ AK500 DP Receiver Front / Back Connectors



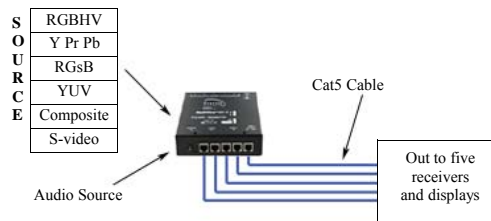
Cat5 Video Distribution Solutions



AK500DP-SA Receivers Daisy-Chained



T5A Transmitter Usage



Specifications

MultiView AK500 Receivers:

MultiView AK500 (4003299)
 MultiView AK500DP (4003274)
 MultiView AK500 232 (4003301)
 MultiView AK500-SA (4003348)
 MultiView AK500DP-SA (4003360)

Cable Required: Category 5, 5e, 6 shielded or unshielded twisted pair

Compliance: EMC; CE; FCC Class A ; Immunities: EN61000

Video Support: QVGA, VGA, SVGA, XGA, SXGA, UXGA, RGBHV, RGB, Composite (NTSC, PAL, SECAM), S-Video, Component Video, widescreen modes, HDTV modes

Maximum Recommended Resolution and Refresh Rate: 2048 x 1536 (QXGA) @ 70Hz @ 500' (152m)

Required Destination Impedance: Video IN: 75 ohms; Audio IN (if any): 600 ohms minimum

Audio Characteristics: Channels: Right/ Left summed; stereo; Line Level 600 Ohm Unbalanced; Connector: Phoenix

Temperature Tolerance: Operating: 32 to 104° F (0 to 40° C); Storage: -4 to +140° F (- 20 to +60° C)

Humidity Tolerance: Up to 80% noncondensing

Enclosure: Powder-coated steel (Galvanneal process)

Serial data transport:

Simplex: included (replaces audio if utilized)
 Full-modem, duplex RS232: AK500-232 version
 Data rate: to 19.2k baud
 Connector: Phoenix (simplex) or DB9 (duplex)

Power: +5 VDC @ 1200 mA max

Consumption: 6 watts maximum

Size: 1.2"H x 4.1"L x 5.5"W (10.4 cm x 3.05 cm x 14.0 cm)

Weight: 1.0 lb. (0.45 kg)

MTBF: 100,000 hours

Compatible Transmitters: MultiView UTx Transmitter (part# 4003212); MultiView UTx-232 Transmitter (# 4003230); MultiView UTx-SA Transmitter (# 4003347); MultiView PCI Card Slot Transmitter (#4003246); MultiView T4 Transmitter four port (#4002959); MultiView T5 Transmitter five port (#4002941); MultiView T4A Transmitter four port with audio (#4002960); MultiView T5A Transmitter five port with audio (#4003006); MultiView T4S Transmitter four port with serial (#4002961); MultiView T5S Transmitter five port with serial (#4003007);

Compatible Distribution Amps: MultiView J8 1x8 port-addressable (#4003225); MultiView 9D 1x9 (#2211029)

Compatible Matrix Switchers: Mondo Matrix full-matrix Cat5 switcher in configurations from 16x16 to 256x256 (#2213001); MultiView Matrix 8x8 (#4003026); MultiView Matrix 16x16 (#4003238)

Magenta Research is the undisputed leader in the adaptive distribution and switching of audio/visual signals over Cat5 cable. Over eight 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 1,500 feet (457m) 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.

