

## MultiView™ K-500 TD/TDC Cat5 Receivers

### Two Outputs Are Better Than One!

“Twin Display” receivers provide dual audio and video outputs—perfect for applications with paired displays



K-500 TD 4003377

K-500 TDC 4003371

The MultiView™ K-500 TD (twin-display) and K-500 TDC (twin-display, chainable) receivers reduce receiver quantities by connecting to two back-to-back or close proximity displays, rather than one display.

The K-500 TD and TDC receivers employ MultiView AK500 technology, including RepliSync™ and proprietary signal algorithms, and are specified to provide QXGA (2048x1536) resolution @ 500 ft. (152m) @ 70Hz refresh. Each receiver uses active electronics to provide two HD15 (VGA) and two 3.5mm min-jack (audio) outputs. K-500 TDC receivers are “daisy-chained” and combined with a K-500 TD receiver at the chain’s end, to address a series of four to twenty-four back-to-back displays. As with all MultiView AK Series receivers, the TD/TDC units feature signal equalization fine-tuning, ensuring clear, crisp display imagery. Setup involves only a simple receiver adjustment while looking at the display, simplifying installations. High-reliability design aspects, such as ESD (Electro-Static Discharge) protection on all input/output circuitry, result in an MTBF (Mean Time Between Failure) of 100,000 hours, and the equipment is suitable for harsh or outdoor environments.

Maximum source-to-display distance over standard Cat5, unshielded twisted pair cable is 500 ft. for computer video, 750 ft. for HDTV or component video and 1000 ft. for composite or S-video. Shielded or plenum-version cable is not needed; all MultiView Series equipment is insensitive to electrical noise. Configuration of the video type is easily accomplished with an external switch.

#### Companion Products:



MultiView UTx  
Transmitter 4003212



MultiView PCI  
Transmitter 4003246



MultiView T4A  
Transmitter 4002959



MultiView T5A  
Transmitter 4002941



MultiView 9D  
Distribution Amp  
2211029

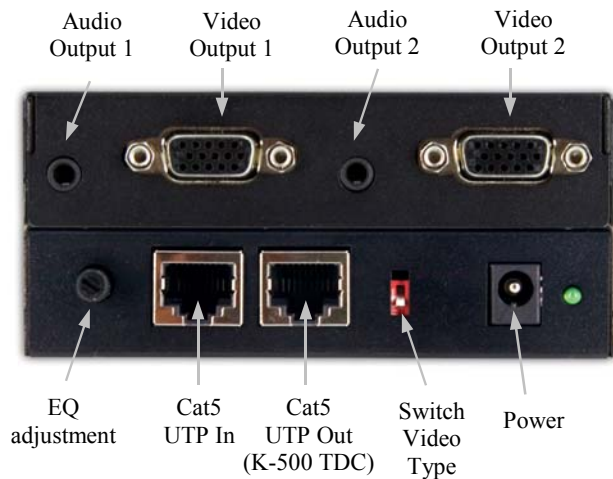


MultiView Matrix  
8x8 Switch 4003026  
Matrix 16x16 4003238

Additional products: see specifications on back

## K-500 TD/TDC Receiver Front / Back Connectors

## Features / Benefits

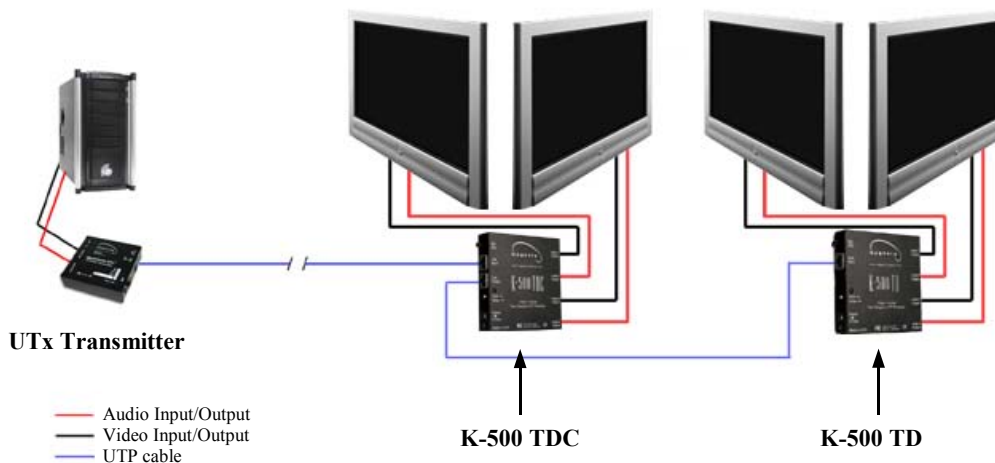


- Two audio outputs and two video outputs per receiver
- 2048x1536 resolution at 500 feet at 70Hz
- Switch video types using external switch
- Distribute any type of analog video plus L/R summed audio
- Daisy-chain up to 12 K-500 TDC Receivers
- Continuous, knob-turn equalization adjustment

### Reduce:

- Capital Expense
- Hardware Count
- Installation Space
- Installation Time

## K-500 TD/TDC Layout Example



## Specifications

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

**Compatible "Skew-Free" Cables:** Belden 7987P/R, Gepko LSK 04

**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:**  
2048x1536 @ 70 Hz

**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

**Connectors:** (2) 3.5 -mm (audio out), (2) HD15 F (video out), (1) RJ- 45 (Cat5 in), (1) RJ- 45 (Cat5 out) [K-500 TDC only]

**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)

**Power:** +5 VDC @ 1200 mA max **Consumption:** 6 watts maximum

**Size:** .95"H x 4.15"W x 3.8"D (2.4 x 10.5 x 9.65 cm) **Weight:** 0.6 lb. (0.27 kg)

**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);  
*Morph-It Dual Transmitter Card* (#4003381);  
*Morph-It Dual Transmitter Card* with local monitor out (#4003382)  
*Morph-It Dual Transmitter Card* with local monitor out & duplex RS-232 (#4003384)  
*Morph-It Dual SA Transmitter Card* local monitor out & stereo audio + duplex RS-232 (#4003383)

**Compatible Distribution Amp:** *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 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. Magenta manufactures the highest-performance, broadest and 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 retail, airport, fast food, museum, casino, theatre, courtroom and corporate applications. In 2005, Magenta introduced the Mondo Matrix, the first multimedia Cat5 matrix switcher that can be scaled incrementally from 16x16 to 256x256. In 2006, Magenta launched the Infinia DVI Series and an industry-first – unlimited DVI extension over optical fiber and/or Cat6 using digital signal repeaters at 10km of fiber or 600 ft. (183m) of Cat6. Based in Connecticut, USA, Magenta utilizes a network of international distributors, manufacturers' representatives and resellers to market its enabling technology worldwide.