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MAGENTA RESEARCH ™

MultiView™ **AK600DP / AK1200DP** Receivers

World's Best Cat5 Distribution Platform Just Got Better!

High-performance MultiView receivers now offer higher resolutions while vastly improving ease-of-use

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MultiView™ AK1200 DP
High Performance UTP/ CatX Receiver

Magenta Research's MultiView AK600DP and AK1200DP Series receivers handle WUXGA (1920x1200) 1080p-resolution video at 600 feet (183 meters) and 1,200 feet (366 meters) respectively. All analog video types are supported; RGBHV, YUV, Y Pb Pr, component, composite, Y/C, S-video, HDTV, PAL, SECAM or RGBS. Standard configurations also offer a choice between L/R summed audio or SPDIF digital audio or simplex serial (RS-232) alongside analog video.

Both receiver models feature a standard UTP output, in order to facilitate the daisy-chaining of up to 12 MultiView receivers. This feature, when combined with a MultiView 9D distribution amplifier, enables the distribution of a single-source to hundreds of displays.

All adjustment controls on the AK600DP and AK1200DP have been simplified for vastly-improved ease-of-use, beginning with (the optional) AkuComp II skew compensation (required when skew-free cabling is not used). A knob is now used to adjust skew-delay with colored LEDs on the unit indicating which color is being delayed. Skew comp has also been increased to 65ns. The same knob, when pressed, cycles from skew adjustment to cable EQ, which is used to adjust for actual UTP cable length.

AK600DP and AK1200DP receivers feature full video-format agility. An external switch, when turned on, offers an auto-detect feature to differentiate between RGBHV and non-RGBHV sources. All video format and fourth-pair configurations (audio/serial) are field configurable.

Additional versions of the two receivers include a video + stereo audio + duplex serial model (AK600DP-SA / AK1200DP-SA) and a video + stereo audio + pollable duplex-serial model (AK600DP-SAP / AK1200DP-SAP), which offers duplex serial interaction even in a daisy-chain application… perfect for digital signage network metric reporting!

Companion Products:

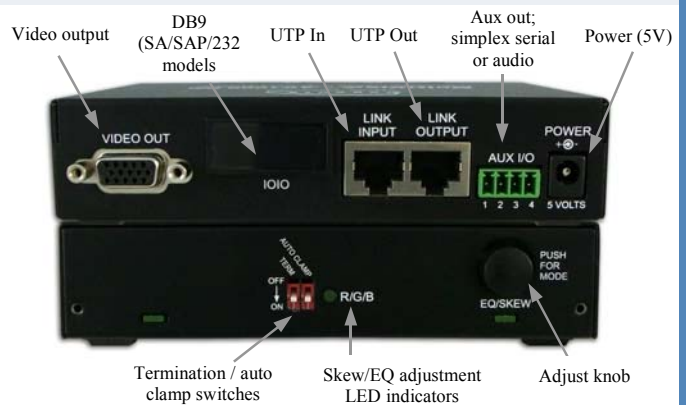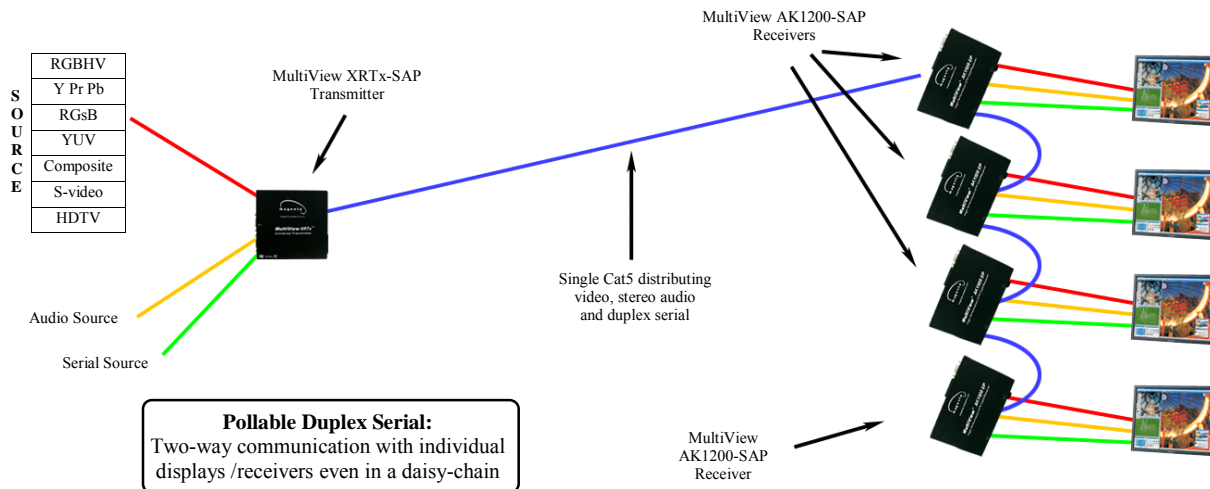| MultiView XRTx Transmitter 400R3588 | MultiView PCI Transmitter 4003246 | MultiView T4A Transmitter 400R2960 | MultiView T5A Transmitter 400R3006 | MultiView 9D Distribution Amp 2211029 | Mondo Matrix Cat5 Switch 16x16—256x512 221R3001 |

Benefits of MultiView™ AK600DP/AK1200DP:

- WUXGA (1920x1200) @ 600/1200 feet (183/366 meters)
- Auto-detection of analog video formats
- Optional 65ns of skew compensation (Aku Comp II)
- One button control for all adjustments (EQ / Skew)
- Standard UTP link output enables daisy-chain receivers
- Electrostatic Discharge (ESD) protection on all I/O circuits
- Rugged, Galvanneal steel enclosure
- Highly immune to electrical noise or vibration
- Dedicated Cat5 cable operates outside existing IT networks
- Unmatched flexibility with configurations that deliver video plus:
  ◦ Analog L/R mono, stereo or SPDIF audio
  ◦ Full-modem or simplex serial control
  ◦ Duplex serial and stereo audio (-SA Series)
  ◦ Pollable duplex serial and stereo audio (-SAP Series)

MultiView AK600DP/AK1200DP Connectors

Video output; DB9 (SA/SAP/232 models); UTP In; UTP Out; Aux out; simplex serial or audio; Power (5V)

Termination / auto clamp switches; Skew/EQ adjustment LED indicators; Adjust knob

Example Application: MultiView AK1200-SAP Receivers Daisy-chained

SOURCE: RGBHV, Y Pr Pb, RGsB, YUV, Composite, S-video, HDTV

MultiView XRTx-SAP Transmitter

Audio Source

Serial Source

MultiView AK1200-SAP Receivers

Single Cat5 distributing video, stereo audio and duplex serial

MultiView AK1200-SAP Receiver

Pollable Duplex Serial:
Two-way communication with individual displays /receivers even in a daisy-chain

Specifications

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

Compliance: CE; FCC Class A, IC Class A

Video Support: All supported VESA modes to WUXGA (1920x1200), RGBHV, RGB, Composite (NTSC, PAL, SECAM), S-Video, Component Video, widescreen modes, HDTV modes including 1080p, 1080i, 720p

Maximum Recommended Resolution: At 600 ft. (183 m) / 1200 ft. (366 meters) or less: a maximum of 1920x1200 (including 1080p)

Required Source Impedance: Video: 75 ohms; Audio (if any): 600 ohms maximum; SPDIF audio models: 75 Ohm.

Required Destination Impedance: Video: 75 ohms; Audio (if any): 600 ohms minimum; SPDIF audio models: 75 Ohm.

Audio Characteristics: Right/Left summed (A option); SA/SAP: Full Stereo Line Level 600 Ohm Unbalanced

Serial Characteristics: Protocol: Asynchronous; transparent to data format; transparent to data rates up to 19.2 kbps full duplex; data rates to 115 kbps simplex, half-duplex modes SA version is 3 wire, fixed baud rate of 9600

Connectors: (1) 4 pin phoenix, (2) RJ-45, (1) HD15 F; (1) DB9M (model dependent)

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:** Steel

Skew Compensation: AkuComp II optional integration; 65ns of skew comp

Power: +5 VDC (PSU sold separately)   **Consumption:** 6 watts maximum

Size: 1.2"H x 5.5"W x 3.6"D (3.0 x 14.0 x 9.2 cm)   **Weight:** 1.0 lb. (0.45 kg)

Part Numbers:

AK600DP-A: 400R3755	AK1200DP-A: 400R3681
AK600DP/CS-A: 400R3760	AK1200DP/CS-A: 400R3685
AK600DP-S: 400R3756	AK1200DP-S: 400R3682
AK600DP/CS-S: 400R33761	AK1200DP/CS-S: 400R3686
AK600DP-SPDIF: 400R3758	AK1200DP-SPDIF: 400R3683
AK600DP/CS-SPDIF: 400R3762	AK1200DP/CS-SPDIF: 400R3687
AK600DP-232: 400R3763	AK1200DP-232: 400R3688
AK600DP/CS-232: 400R3764	AK1200DP/CS-232: 400R3689
AK600DP-SA: 400R3765	AK1200DP-SA: 400R3690
AK600DP/CS-SA: 400R3767	AK1200DP/CS-SA: 400R3692
AK600DP-SAP: 400R3769	AK1200DP-SAP: 400R3694
AK600DP/CS-SAP: 400R3770	AK1200DP/CS-SAP: 400R3695

While units are field configurable, unique part numbers allow products to be pre-configured in the factory for a specific use.

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 Repli-Sync™ 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.