

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



MultiView AK600DP / AK1200DP

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!

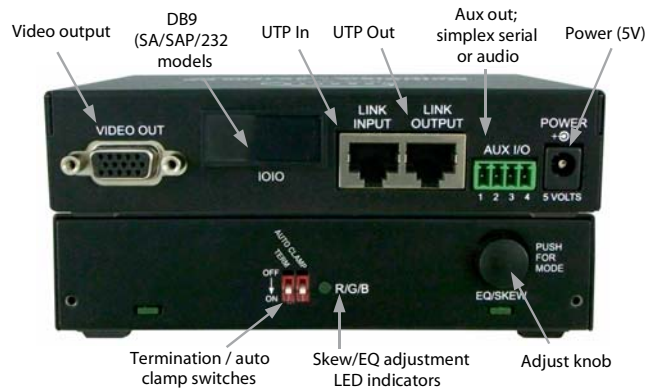
Companion Products:



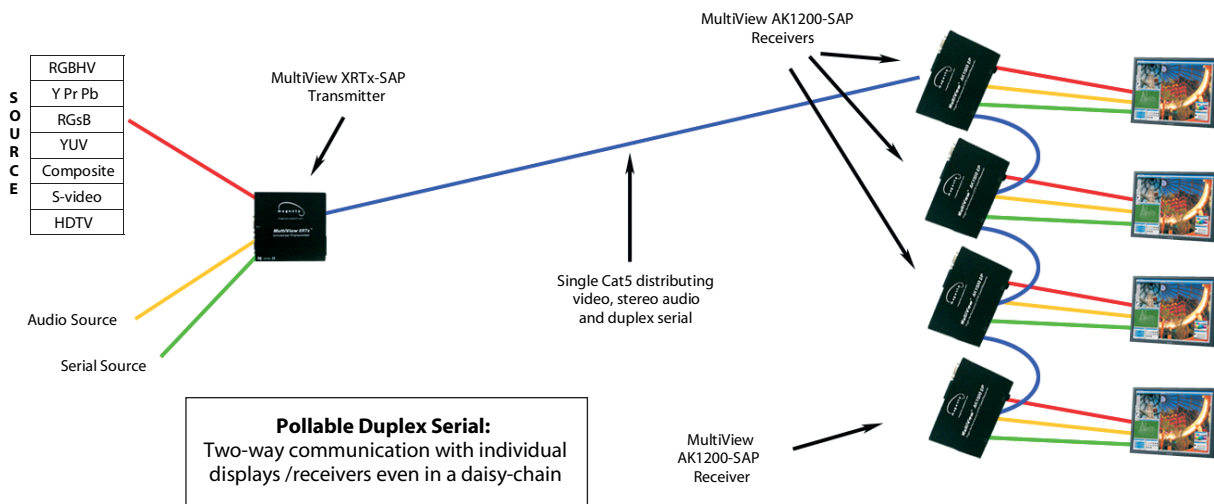
Benefits of MultiView™ AK600DP/AK1200DP:

- 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



Example Application: MultiView AK1200-SAP Receivers Daisy-chained



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	AK1200DP-A
AK600DP-SA	AK1200DP-SA
AK600DP-SAP	AK1200DP/CS-SA
	AK1200DP-SAP
	AK1200DP/CS-SAP

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