



THE CAT-7 VIDEO QUALITY YOU NEED MultiView AK500 C7™

Magenta introduces a true high quality, high performance video transmission solution for CAT-7 cable. The AK500 C7 is built upon Magenta Research's proven and industry leading MultiView signal management solution. CAT-7 also known as Class F or Foiled Twisted Pair (FTP) is a very robust screened cable that's finding great popularity in Europe as well as for special applications where radiated emissions must be of a very low order and where system noise immunity is of equal concern. Magenta's AK500 C7 has been carefully calibrated *specifically* for CAT-7 and unlike other extension products; claiming CAT-7 support the AK500 C7 provides excellent video performance without aperture distortion

smearing effects seen with less sophisticated equipment. Magenta's new AK500 C7 provides a ready to install MultiView extension solution for a broad range of CAT-7 applications whether for a single point-to-point link or a

RAZOR SHARP VIDEO OVER CAT - 7

connectivity rollout that will rely on facility-wide CAT-7 structured cabling. In addition to razor sharp video, the AK500 C7 supports audio and serial communications and is compatible with other MultiView components including the Mondo Matrix video switching platform.



CONNECT WITH CONFIDENCESM

THE QUALITY YOU NEED MultiView AK500 C7*



KEY FEATURES

- CAT-7 cable compatible and optimized
- 500ft/152m distance capability at full resolution
- VESA resolutions up to QXGA
- HD formats 720i/720p, 1080i/1080p
- RGB/H&V,CV,Y/C, YUV all supported (user configurable)
- No compression or latency
- RepliSync for accurate sync signal transmission
- Infinitely variable (not stepped) EQ from zero to full distance capability
- Compatible with MultiView transmitters, distribution and switching components
- Standard version supports mono audio or simplex serial (user configurable)
- Optional version supports stereo audio together with full duplex, addressable serial
- True CAT-7 compensation characteristics – not a repurposed CAT- 5/6 product
- Daisy-chain capability reduces transmitter count and cost per source
- Rack mount kit- permits receivers to be installed in 19" equipment rack

AVAILABLE CONFIGURATIONS

- AK500 C7-A/S:** Video and L/R Summed Audio or transmit only Serial (user configurable)
- AK500 C7-SA:** Video, stereo, audio and full duplex serial
- AK500 C7-SAP:** Video, stereo, audio and full duplex, addressable serial

APPLICATION TYPES

- Digital signage
- Retail video presentation
- Outdoor displays – petrol stations
- Transportation facilities
- Government/Military
- Command and control room displays
- Entertainment and sports facilities
- On board transportation – trains, busses, shipboard
- Pro and Corporate AV
- Information kiosks
- Presentation facilities
- Security
- Educational
- Hospitality
- Sports bars

OPERATIONAL SPECIFICATIONS

Recommended Cable: CAT-7 or FTP per ISO/IEC 11801 Class F or Class Fa

Video Signal Format Support: QVGA,VGA,SVGA,XGA,SXGA,UXGA,RGBHV, RGB, Composite (NTSC, PA, SECAM), S-Video, Component Video, widescreen modes, HDTV modes including: 720p, 720i,1080p and 1080i

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

Video Signal Output Impedance: 75 ohms

Video Signal Output Connector Type: HD15

Audio Characteristics: AK500 C7-A/S: Right + Left channels summed-mono. AK500 C7-SA/-SAP Versions: Full stereo

Audio Signal Output, Back Terminating Impedance: 75 ohms, unbalanced, through female Phoenix connector

Nominal Output Level: 0dbm/775mVRMS

Serial Data Transport: Simplex included in standard model (replaces audio if utilized) /Duplex Optional SAP version / Data Rate: to 115k baud

Connector: Phoenix (simplex) or DB9 (with SA/SAP option)

Power: 5VDC \pm 100mV @1200mA max

Consumption: 6 watts maximum

ESD (electrostatic discharge) protection on all I/O circuits

ENVIRONMENTAL SPECIFICATIONS

Temperature Tolerance: Storage -40 to 158° F (-40 to 70° C)/ 10% to 90% non condensing; Operating +32 to 122° F (0 to +50° C)/ 10% to 90% non-condensing

Cooling: Convection; no fan; no vent apertures

Enclosure: Powder-coated galvanized steel

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

COMPLIANCE

EMC; CE; FCC ClassA; Immunities: EN61000, RoHS

INSTALLATION TYPES

- Casinos
- Command and control centers
- Mission critical secure government/military facilities
- Commercial & recreational shipping and yachting
- Museums
- Retail
- High-end security, education and residential



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*Patent Pending

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