Breakthrough MultiView XR-2000 Receiver widens Magenta’s performance lead in video resolution and distance capabilities

Magenta Research, the recognized leader in video, audio and serial signal distribution and switching over UTP cable and fiber, has extended its video/audio/serial over UTP cable reach to an industry-best 2,000 feet (610 meters) with the introduction of the MultiView XR-2000 Receiver. Signals are sent over a single, uninterrupted cable—no repeaters or splitters needed!

The MultiView XR-2000 Receiver is specified to deliver WUXGA computer video (1920 x 1200) at 2,000 feet of Cat5/6, and features optional 65 nanoseconds (AkuComp II) of color skew correction to enable the use of most standard Cat5/5e UTP cables and reduced-skew Cat6 cables. The receiver is also compatible with VESA-standard video formats such as 1080p, 1080i and 720p HDTV, plus component video, S-video and composite video modes. Standard features include a choice between left/right audio or SPDIF audio or simplex serial capability, plus the inclusion of an RJ-45 link out in order to allow subsequent receivers to be connected in a “daisy-chain” configuration.

A new XR-2000 feature, introduced earlier with Magenta’s Infinea DVI Series, and being introduced in a MultiView receiver for the first time, is display-addressable duplex serial control (-SAP models). -SAP models enables bidirectional communication with individual displays, even when the receivers are daisy-chained together for signal distribution efficiency. A single computer Com port is all that is required for communication with up to a dozen different displays and/or projectors, or even more when using Magenta’s new Octet™ 1x8 digital signage transmitter.

The XR-2000 is also field-configurable for various video formats and signal combinations. Additional XR-2000 versions offer video + stereo audio + duplex RS-232 (-SA) and the previously mentioned video + stereo audio + pollable duplex RS-232 version (-SAP).

The MultiView XR-2000 improves upon the high-performance, high-reliability features that are already a staple of the MultiView Series and now offers vastly improved ease-of-use with the introduction of a single button to control all EQ and skew adjustments. Of course the XR-2000 also boasts Magenta’s patented RepliSync technology for the digitization of horizontal and vertical sync signals, full ESD (electro-static discharge) protection on all input/output circuitry and 9-pole signal optimization algorithms that result in the clearest video images over UTP cable.

Companion Products:

- MultiView XRTx Transmitter 400R3588
- MultiView PCI Transmitter 4000246
- MultiView T4A Transmitter 400R2960
- MultiView T5A Transmitter 400R3006
- MultiView 9D Distribution Amp 221R1029
- Mondo Matrix Cat5 Switch 16x16—256x256 221R3001
**Benefits of MultiView™ XR-2000:**

- Highest-resolution video extension at distances to an industry leading 2,000 feet (610 meters) of cable
- Dedicated Cat5 cable operates outside existing IT networks
- ESD (electrostatic discharge) protection on all I/O circuits
- Pollable Duplex Serial
- High reliability design suitable for harsh environments
- One toggled dial for all EQ and skew compensation adjustments
- 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
  - Pollable-duplex serial, stereo audio and video

**Specifications**

- **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, HD/TV modes including 1080p, 1080i, 720p
- **Maximum Recommended Resolution:** At 2,000 ft. (610 m) or less: 1920 x 1200 (including 1080p)
- **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
- **Temperature Tolerance:** Operating: 52 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:** +12 VDC @ 1200 mA max (PSU sold separately)
- **Consumption:** 14.4 watts maximum
- **Connectors:** (1) 4 pin phoenix, (2) RJ-45, (1) HD15 F, (1) DB9M (model dependent)
- **Skew Compensation:** AkuComp II optional integration; 65ns of skew comp
- **Size:** 1.2"H x 5.6"W x 6.2"D (3.0 x 14.2 x 15.7 cm)
- **Weight:** 2.0 lb. (0.9 kg)

**Part Numbers:**

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<tr>
<th>RGBHV versions</th>
<th>CS (composite / component / S-video) versions</th>
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While units are field configurable, unique part numbers allow products to be pre-configured in the factory for a specific use.