

## 16-CHANNEL ACTIVE UTP VIDEO RECEIVER

### Features

- High quality reconstructed video up to 3,000 ft. (914m) via cat 5 UTP
- Accepts 16-channels of real-time color or monochrome composite video
- Compatible with all passive baluns and UTP enabled cameras
- Highly effective equalization and restoration of amplitude, sync, and color
- Accepts UTP wire bundles containing power, telecom or network traffic
- Exceptional interference rejection
- Complete ground loop (hum-bar) blocking
- Wide range of power options (PSU not included)
- In-rush current limiter and under-voltage lockout
- High efficiency (internal) isolated switching power supply
- Built-in transient (surge) protection including ESD events
- cable length adjustment and video present LED per channel
- 1U 19" receiver arrives rack mount ready (ears on)
- Ideally suited for Digital Video Recorders
- Designed and manufactured in the USA with industrial grade components

### KR3016AR

### *UTP Active Receiver (Front)*



### Overview

The Kenrik KR3016AR is a premium quality 16-channel active receiver that accepts real-time color or monochrome composite (CCTV) video over unshielded twisted pair (UTP) cable from any passive balun or UTP enabled camera up to 3,000 feet.

Due to high-grade components and extensive signal conditioning, the KR1016AR provides exceptional interference rejection as well as highly effective equalization and restoration of amplitude, sync, and color. This allows the video signal to travel within wire bundles containing power, telecom or data traffic such as phone or network cabling systems.

The KR3016AR is designed to provide stable and reliable high quality video to meet the demands of today's high-end digital equipment such as DVR/NVR's and flat panel monitors.

### Advantages

On the receiver's front panel, a 5-position single-screw adjuster and a video present LED indicator are provided to ensure properly working video for each independent channel. On the rear panel, the 100-ohm video enters the unit by connecting the UTP wires to a detachable screw terminal. After the video signal is fully equalized, amplified and balanced, the camera-quality video is delivered at 75-ohm 1Vp-p rating through a female connector.

The Active receiver can be powered with a wide range of AC transformers or DC power sources (from 10.5 to 24VAC, 40VA or 10.5 to 40VDC, 29W) (PSU not included). With isolated power, surge protector, In rush current limiter and under-voltage lockout, this unit has been built to be both flexible and durable to accommodate nearly any system design. As an added measure, this receiver has an internal fan to ensure against heat related problems in a rack environment.

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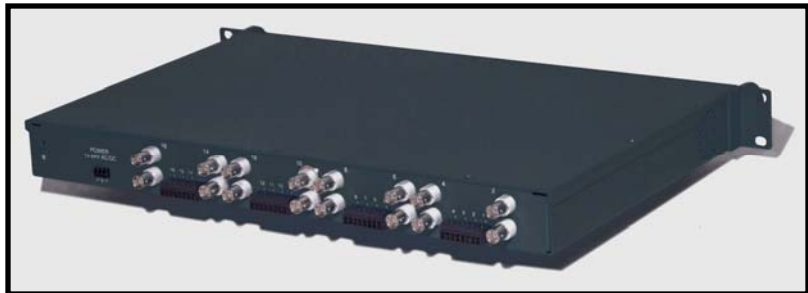
### Video

Video Format	NTSC, PAL, SECAM
Frequency Response	2 Hz to 6 MHz
Wire Type	100 Ohm, 24 AWG min Unshielded Twisted Pair
Wire Category	Cat 3 or better, Optimized for Cat5e or Better
Transient Immunity	IEC 61000-4-2 (ESD) IEC 61000-4-4 (EFT) IEC 61000-4-5 (Lightning)
Common Mode Range	12 Vp-p
Common Mode Rejection	80dB nominal at power line frequency (50/60 Hz) Better than 60dB, DC to 5 MHz at any video input terminal pair

### Mechanical

Dimensions	1.72x18.96x10.52 Inches, 4.6x48.2x26.7 cm (HxWxD)
Unit Weight	9 Lb, (4.08kg)
Material	Industrial grade sheet metal
Power Connector	Detachable 3-Pin plug to an external power supply
UTP Connectors	(16) UTP Video Inputs: Detachable Screw Terminal Blocks
Video outputs	(16) Female BNC Connector to 75-Ohm Coax
Video Present Indicator	Yellow LED for each channel
Unit Power Indicator	Green LED

### KR3016AR UTP Active Receiver (Back)



### Power

Range of Power Input:

- 10.5 to 24 VAC, 50/60 Hz, 40 VA max.
- or**
- 10.5 to 40 VDC at 29 Watts DC max.  
(PSU not included)

### Environmental

Humidity 10 to 85%, non-condensing  
Temperature Operating: 0C to +60C ( 0 to 140F)  
Warranty Three year

### Ordering Information

PART # **KR3016AR** Description: 16-Ch Active Receiver HUB  
PART # **KR1001PB** Description: Single channel Passive Balun  
\*Specifications subject to change without notice.

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### Wire Recommendations

The Kenrik UTP line is designed for use with unshielded twisted pair (UTP) wiring that is 26AWG – 24AWG, or Category 3 and higher cable. It is not recommended to use individually shielded pair wiring. Traditional punch-down block terminals can be used if all resistive capacitive or inductive devices (example: T-taps) are removed. For more information, please review our Technical Document resources online or give us a call.