

SINGLE-CHANNEL ACTIVE UTP VIDEO RECEIVER

KR3001AR

*UTP Active Receiver
(Front)*

Features

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

Overview

The Kenrik KR3001AR is a durable, high quality single-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 KR3001AR provides exceptional interference rejection as well as highly effective equalization and restoration of amplitude, sync, and color.

The KR3001AR is designed to provide stable and reliable high quality video to one individual channel of video that is either experiencing an unusually high amount of interference such as RFI or EMI, a distant camera over 1,000 feet away or a digital device such as a DVR/NVR, digital encoder or a flat panel display that requires above average video quality.

Advantages

On the receiver's front panel, a 5-position single-screw adjuster as well as a LED video indicator is provided to ensure properly working video. On the rear panel, the 100-ohm video enters the unit by connecting the UTP wires to the 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, 3VA or 10.5 to 40VDC, 3W) (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.

SINGLE CHANNEL ACTIVE UTP VIDEO RECEIVER

Video

Video Format	NTSC, PAL, SECAM
Frequency Response	2 Hz to 6 MHz
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
Transient Immunity	IEC 61000-4-2 (ESD) IEC 61000-4-4 (EFT) IEC 61000-4-5 (Lightning)
Common Mode Range	12 Vp-p
Wire Type	100 Ohm, 24 AWG min Unshielded Twisted Pair
Wire Category	Cat 3 or better, Optimized for Cat5e or Better

KR3001AR
UTP Active Receiver
(Back)

Power

Range of Power Input	10.5 to 24 VAC, 50/60 Hz, 3 VA max. or 10.5 to 40 VDC at 3 Watts DC max. (PSU not included)
----------------------	--

Environmental

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

Mechanical

Dimensions	2.0x4.0x4.125 Inches, 5.08x10.16x10.48cm (HxWxL)
Unit Weight	9.9oz, (.31kg)
Material	Extruded Aluminum
Power Connector	Detachable 3-Pin plug to an external power supply
UTP Connectors	(1) UTP Video Input: Detachable Screw Terminal Block
Video outputs	(1) Female BNC Connector to 75-Ohm Coax
Video Present Indicator	Yellow LED
Unit Power Indicator	Green LED

Ordering Information

PART # **KR3001AR** Description: single-channel Active Receiver

PART # **KR1001PB** Description: Single channel Passive Balun

*Specifications subject to change without notice.

KR is a trademark of Kenrik Resources © 2004 Kenrik Resources All Rights Reserved.
The content of this publication is for informational use only and is subject to change without notice, and should not be construed as a commitment by Kenrik Resources. Kenrik Resources assumes no responsibility or liability for any errors or inaccuracies that may appear in the informational content contained in this publication.
Pub. KR/KR1001AR – 2007-11-15.

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.