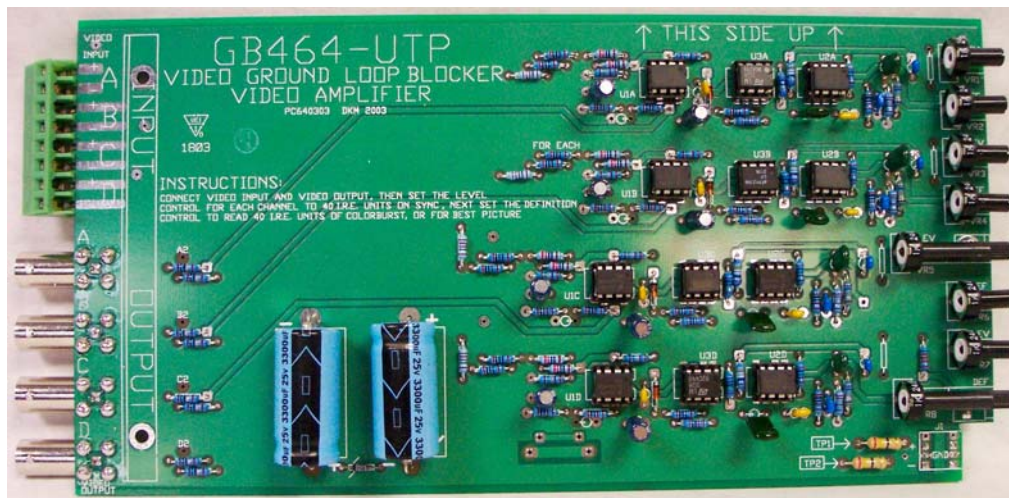


GB464-UTP



GROUND-LOOP BLOCKER FOR UNSHIELDED TWISTED PAIR

The GB464-UTP Ground-Loop Blocker for Twisted Pair wire is an active device used in conjunction with any Unshielded Twisted Pair video transmitter or "Balun" to eliminate Ground Loop Interference and picture quality problems in new and existing twisted wire CCTV video installations. The unit is installed at the monitor site where the video twisted pair signals come together, or at any intermediate point where video signals are monitored. The GB464-UTP operates with any standard CCTV, NTSC or PAL video signal.

This device controls and corrects four channels of CCTV video, each channel is separately adjustable for Video Level and Picture Sharpness. A built-in active ground loop blocker removes the 60 Cycle Bars from the CCTV signal even after they have become part of the video signal. This ground loop isolator will prevent 60 Cycle "Hum Bars" from degrading your twisted pair wire CCTV system.

The Level control can be adjusted to overcome losses due to long wire runs up to 3000 feet, small wire gage or quality, and improper camera source terminations.

The Picture Sharpness control can be used to restore Picture quality to its original sharpness due to long wire runs, poor quality twisted pair wire or wire used in wet locations in twisted pair "Balun" transmission installations. It will also restore the video color-burst on a color camera to improve color camera operation on long wire runs.

This device will prevent Ghosting in the picture by absorbing and eliminating the reflected video Ghost signal. It will also restore the Characteristic Impedance of the down stream video signal to prevent secondary Ghosting in the picture.

GB464-UTP

GROUND-LOOP BLOCKER FOR UNSHIELDED TWISTED PAIR

An optional secondary 75 Ohm "BNC" connector video distribution output can be ordered (GB464-UTP/D). This lets the installer add an extra monitor point or drive any other video equipment without affecting the original video signal.

By installing the GB464-UTP in your existing CCTV system you can avoid the many hours of troubleshooting and trial/error associated with problem installations. For some installations you will find it advantageous to install a GB464-UTP on each group of four channels. It is especially useful in installations requiring lightning protection. Lightning protection devices often induce 60 cycle bars into the video signal because they use a connection to ground that does not equal the video ground at the monitor.

INPUT

Level
Impedance
Video Standard
Connectors
Video Channels
Power Requirements
Current
Card-Cage Requirements

SPECIFICATION

1 Vpp, 140 I.R.E. Units
100 Ohms Balanced
CCTV, NTSC, PAL
Screw Terminal
4 Channels (A-D)
+/- 12 VDC (RMS-400 Card-Cage)
100 mA
RMS-400 Power Supply & Mainframe

PROCESSING

Clamping
Common Mode Rejection
60Hz Rejection
Video Gain
High Frequency Compensation
RF Bandwidth

Tip of SYNC
40 dB Minumum
2 Vpp, Minimum Rejection
-2 to +7 dB
0 to +29dB
30 MHz

OUTPUT

Level
Impedance
Connectors
Channels
Distribution Out (Optional)
Signal to Noise Ratio

1 Vpp, 140 I.R.E. Units
75 Ohms
BNC (Female)
4 Channels (A-D)
4 Channels (E-H)
70dB

COMMERCIAL OPERATING RANGE

Temperature Range
Humidity

0 - 50 Degrees Centigrade
95% Non-Condensing

MECHANICAL

Size

1.00" W X 4.87" H X 10.00 L

RMS-400 REQUIRED CARD-CAGE

Card Slots
Power Requirement

9 Slots
24VAC 100mA Each GB464UTP.doc