

# GB60-UTP



## GROUND-LOOP BLOCKER FOR UNSHIELDED TWISTED PAIR

The GB-60 UTP Ground-Loop Blocker for Twisted Pair wire is an active device used with any Unshielded Twisted Pair video transmitter or passive "Balun" to eliminate Ground Loop Interference and picture quality problems in new and existing 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 GB-60 UTP operates with any standard CCTV, NTSC or PAL video signal.

This device controls and corrects four independent 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 on long wire runs up to 3000 feet and correct for small wire gage or poor quality wire type, it will also correct for improper camera source terminations.

The Picture Sharpness control will restore Picture quality to its original sharpness due to long wire runs, poor quality wire or wire used in wet locations. It will also restore the video color brightness on long wire runs.

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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.

An optional secondary 75 Ohm "BNC" connector video distribution output can be ordered. This lets the installer add an extra monitor point or drive any other video equipment without affecting the original video signal. Order "GB60-UTP/D".

By installing the GB60-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 GB60-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  
Power Connector

### SPECIFICATION

1 Vpp, 140 I.R.E. Units  
100 Ohms Balanced  
CCTV, NTSC, PAL  
Screw Terminal  
4 Channels (A-D)  
24 VDC Wall Mount (Supplied)  
5.5mm x 2.5mm

### PROCESSING

Clamping  
Common Mode Rejection  
Video Gain  
High Frequency Compensation  
RF Bandwidth

Tip of SYNC  
40 dB Typ.  
-2 to +3 dB  
0 to +10 dB  
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

### MECHANICAL

Size  
Temperature Range  
Humidity

5.5" L x 4.3"W x 2"D  
0 - 50 Degrees Centigrade  
95% Non-Condensing