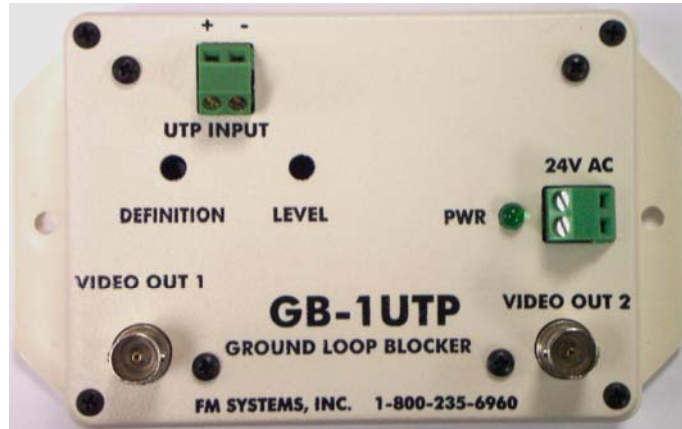


GB-1UTP



UTP GROUND-LOOP BLOCKER AMPLIFIER

The GB-1UTP Ground-Loop Blocker is an active amplifier used 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 CCTV signals come together, or at any intermediate point in the UTP video path. The GB-1 operates with any standard CCTV, NTSC or PAL Unshielded Twisted Pair analog video signal.

This device controls and corrects the video signal with separate adjustable controls for Video Level and Picture Definition. 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 CCTV system at the time of installation and prevents a ground loop from appearing later on.

The Level control can be adjusted to overcome losses due to long UTP wire runs up to 3000 feet, poor wire quality, and improper video terminations. Wire runs can be extended beyond 3000 feet by placing additional GB-1UTP units at intermediate locations with baluns to drive down-stream wire.

The Picture Sharpness control can be used to restore Picture quality to its original sharpness due to long wire runs, and poor quality "Baluns" in UTP installations. It will also restore the video Color-Burst and Chroma signal level to improve color saturation of the picture on long wire runs.

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

GROUND-LOOP BLOCKER AMPLIFIER

The unit has a secondary video distribution output. This lets the installer add an extra monitor point or drive any other video equipment without affecting the original video signal level.

By installing the GB-1UTP in your existing CCTV system you can avoid many hours of troubleshooting trial and error associated with video problem installations. It is especially useful for installations requiring lightning protection. Lightning protection devices often induce 60 cycle bars into the video.

INPUT

Level
Impedance
Video Standard
Connectors
Channels
Power Requirements
Current

SPECIFICATION

1 Volt Peak/Peak Nominal
100 Ohms
CCTV, NTSC, PAL
BNC (Female)
1 Channel
24VAC
50 mA

PROCESSING

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

Tip of SYNC
50 dB Minimum
18 Volts Peak/Peak Minimum
-3 to +4 dB
0 to +16 dB
30 MHz

OUTPUT

Level
Impedance
Connectors
Channels
Signal to Noise Ratio

1 Volt Peak/Peak
75 Ohms
2 BNC (Female)
2 Channels (Dual Output)
70dB

MECHANICAL

Size
Temperature Range
Humidity
Indicator

3.3"W x 2.2"H x 5.5"L
0 - 50 Degrees Centigrade
95% Non-Condensing
Green LED (Power/Video On)

This Unit is also available for coax cable input, when ordering specify the GB-1.

GB-1UTPspc.doc