

# HUM REJECTION UNIT WITH EQUALISATION

TYPE BH132 (OPTO- COUPLED) DATA SHEET

- Coax input / Coax or Twisted Pair output
- **Suitable for colour or monochrome cameras**
- **Opto-coupled circuit for hum rejection**
- Overall gain control from  $-3\text{dB}$  to  $+6\text{dB}$



## Application

With the BH132 inserted into the cable run the input coaxial cable is isolated from the output coaxial cable. This is achieved using an opto-coupler in the circuit. The isolation this provides enables the total rejection of any longitudinal hum caused by circulating earth currents in the cable up to a maximum of 90 volts peak to peak. This prevents the appearance of Hum Bars on the video monitor.

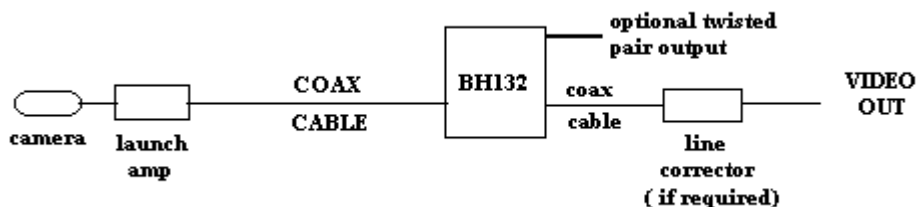
The unit has three lift controls: Gain, High Frequency Lift and Medium Frequency Lift. Adjusting these controls enables the unit to act as a basic line corrector for use over short to medium cable runs when used in conjunction with a launch amplifier.

**Addlestone Electronics Ltd.**  
DESIGNED AND MANUFACTURED IN UK

# TECHNICAL DATA

## BH132

INPUT SIGNAL REQUIREMENTS	Composite video using colour / monochrome video signals or other wide band signals within a frequency bandwidth of 30Hz to 5MHz.
INPUT SIGNAL AMPLITUDE	Nominal 1 volts peak to peak (unbalanced).
OUTPUT SIGNAL AMPLITUDE	Nominal 1 volt peak to peak (unbalanced) or 2 volts peak to peak (balanced)
AT UNITY GAIN	Differential Phase < 3 degrees / Differential Gain < 3%.
INPUT IMPEDANCE	75 ohms.
OUTPUT IMPEDANCE	75 ohms via BNC socket or 150 ohms via twisted pair terminals .
INPUT-OUTPUT CONNECTIONS	75 ohm BNC connectors for unbalanced input. 75 ohm BNC socket for unbalanced output / screw clamp terminals for balanced twisted pair out put.
ELIMINATION OF LONGITUDINAL HUM	Automatic rejection to a maximum of 90 volts peak to peak.
GAIN CONTROL	Adjustable between -3dB and +6dB.
HIGH FREQUENCY LIFT	Adjustable between -3dB and +6dB.
MEDIUM FREQUENCY LIFT	Adjustable between -1dB and +6dB.
OUTPUT BALANCE CONTROL	For twisted pair output only – this is factory set but may be adjusted if required.
POWER REQUIREMENTS	12 Volts dc .Two separate 12v supplies required ( supplied with unit ).
POWER CONSUMPTION	Approximately 0.8 Watts at 230V 50Hz.
PERMISSIBLE AMBIENT OPERATING TEMPERATURE	-10°C to +40°C.
EQUIPMENT CASE DETAILS	Housed in grey polystyrene case, designed for free standing use.
WEIGHT OF EQUIPMENT	270 grammes.
DIMENSIONS OF EQUIPMENT	Length 155 mm Height 44 mm Width 85 mm (excluding connectors )



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