

Specifications

FBI 100 Feedback Isolator

Video

Gain.....	Unity
Bandwidth	10 MHz (-3 dB)

Video input

Number/signal type	2 composite video
Connectors	2 female BNC
Nominal level	1 Vp-p for composite video (including sync)
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 Vp-p with no offset
Impedance	75 ohms
Return loss	<-40 dB @ 1 to 10 MHz
DC offset (max. allowable)	2 V
Input coupling.....	DC

Video output

Number/signal type	2 composite video
Connectors	2 female BNC
Nominal level	1 Vp-p for composite video (including sync)
Minimum/maximum levels.....	Analog: 0.3 V to 1.5 Vp-p with no offset, follows input
Impedance	75 ohms
Return loss	<-40 dB @ 1 to 10 MHz
DC offset	±5 mV with input at 0 offset

Sync

Standards.....	NTSC 3.58, NTSC 4.43, PAL, SECAM
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Audio

Gain	
Overall (from From Source to To Destination)	Unbalanced output: -6 dB; balanced output: 0 dB
From Source to To VCR In	-12 dB
From VCR Out to To Destination	Unbalanced output: +6 dB; balanced output: +12 dB
Frequency response.....	20 Hz to 20 kHz, ±0.05 dB
THD + Noise.....	0.03% @ 1 kHz at nominal level
S/N.....	>90 dB at maximum output (unweighted)
Stereo channel separation	>80 dB @ 1 kHz, >60 dB @ 20 kHz
CMRR	>75 dB @ 20 Hz to 20 kHz

Audio input

Number/signal type	
From Source	1 stereo balanced/unbalanced
From VCR Out	1 stereo, unbalanced
Connectors	
From Source	(1) 3.5 mm captive screw connector, 5 pole
From VCR Out	1 pair RCA

Impedance	>12k ohms unbalanced, 24k ohms balanced, DC coupled
Nominal level	
From Source	+4 dBu (1.23 Vrms)
From VCR Out	-10 dBV (316 mVrms)
Maximum level	
From Source	+27 dBu, (balanced) at 1% THD+N
From VCR Out	+11 dBV, (unbalanced) at 1% THD+N
Input coupling.....	DC

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu.

Audio output

Number/signal type	
To VCR In.....	1 stereo, unbalanced
To Destination.....	1 stereo, balanced/unbalanced
Connectors	
To VCR In.....	1 pair RCA
To Destination.....	(1) 3.5 mm captive screw connector, 5 pole
Impedance	>50k ohms unbalanced, 100k ohms balanced
Maximum level	
From Source	+25 dBu, balanced at 1% THD+N
From VCR Out	+11 dBV, unbalanced at 1% THD+N

Control/remote— feedback isolator

Contact closure	(1) 3.5 mm captive screw connector, 2 pole
Contact closure pin configurations .	Pin 1 = contact, pin 2 = ground (GND) to be controlled by an external control system The control system is to open pin 1 when the VCR is in stop/play mode. The control system is to short and latch pin 1 to pin 2 (ground) when the VCR is in record mode.

General

Power supply.....	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A (max), 12 watts
Power input requirements	12 VDC, 0.2 A
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Cooling.....	Convection, no vents
Mounting	
Rack mount.....	Yes, with optional rack shelf kit
Furniture mount	Yes, with optional brackets
Enclosure type.....	Metal
Enclosure dimensions	1.7" H x 4.4" W x 3.0" D (1U high, quarter rack wide) (4.3 cm H x 11.3 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight.....	0.7 lbs (0.3 kg)
Shipping weight.....	3 lbs (2 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI

Warranty 3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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