

FBI 100

VCR FEEDBACK LOOP ISOLATOR

- Works with VCR to prevent audio/video feedback loops
- Active circuitry provides noise-free operation
- Dual-color LED indicator
- External control via contact closure
- Balanced or unbalanced stereo audio input and output
- Rack-mountable metal enclosure



The Extron FBI 100 is designed to eliminate audio and video feedback loops that occur when a VCR is used for both recording and playback in an A/V system. The FBI 100 works in conjunction with the VCR and external control.



Extron® Electronics

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DESCRIPTION

The Extron **FBI 100** VCR Feedback Loop Isolator is designed to prevent potential feedback loops when a VCR is used for both recording and playback in an A/V system. As the VCR records signals through its A/V input, such as from a video camera and microphone, it outputs the signals back into the system. An audio feedback loop, represented as a progressively loud tone, can occur when the VCR output signal is routed back into its A/V input via a switching system.

For example, feedback is likely to occur in a videoconference environment when mixed audio from the videoconference session is simultaneously recorded and introduced back into the system as an active source.

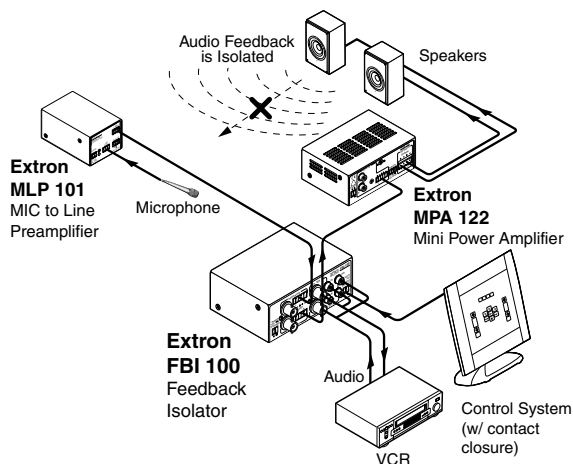
In record mode, the FBI 100 prevents feedback loops by directing the information to be recorded specifically to the VCR's A/V input while isolating the VCR output from the rest of the system. For other VCR modes, such as playback and stop, the VCR outputs to the A/V system as normal.

Contact closure capability provides a simple means of selecting the record or mode of the FBI 100. Part of the VersaTools® line of small, economical, integrator friendly products, the FBI 100 is housed in a 1U, quarter rack width metal enclosure.

FEATURES

- Controls VCR input & output path to prevent audio/video feedback loops
- Active circuitry provides high performance and noise-free operation
- Dual-color LED indicates recording and playback/stop modes
- Contact closure remote control selects record mode or playback/stop mode
- Balanced or unbalanced stereo audio input and output
- Rack-mountable 1U, quarter rack width metal enclosure
- External international power supply included (part # 70-055-01)

APPLICATION DIAGRAM



SPECIFICATIONS

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	Analogue: 0.3 V to 1.5 Vp-p with no offset
Impedance	75 ohms
DC offset (max. allowable).....	2 V
Input coupling.....	DC
VIDEO OUTPUT	
Number/signal type.....	2 composite video
Connectors	2 female BNC
Impedance	75 ohms
SYNC	
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
AUDIO	
Overall (from "From Source" to "To Destination")	
Gain: "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 unbal., 24k ohms bal.
Nominal level: "From Source"	+4 dBu (1.23 Vrms)
"From VCR Out"	-10 dBV (316 mVrms)
Maximum level	+24 dBu, (balanced) at 1% THD+N
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 unbal., 25k ohms bal., DC coupled
Maximum level (Hi-Z).....	>+24 dBu, balanced at 1% THD+N
Maximum level (600 ohm)	>+15 dBm, balanced at 1%THD+N
Input coupling.....	DC
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) Open=Stop/Play mode, Closed=Record mode
GENERAL	
External power supply	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A (max), regulated
Power input requirements.....	12 VDC, 0.2 A
Rack mount	Yes, with optional VersaTools® rack shelf, part #60-190-20 or 60-604-20.
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
Shipping weight	3 lbs (2 kg)
Listings	UL, CUL
Compliances.....	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF.....	30,000 hours
NOTE: All nominal levels are at ±10%.	
Model	Part Number
FBI 100	60-743-01

Specifications are subject to change without notice.



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