

Precaución
 Leer las instrucciones y seguir, antes de usar el equipo.
 Conservar las instrucciones de seguridad para futuras consultas.
 Observar las advertencias e instrucciones de seguridad.
 Evitar el uso de accesorios • No usar herramientas o accesorios que no sean específicamente recomendados por el fabricante, ya que podrían implicar riesgos.

Instrucciones de seguridad • Español

Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin la protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.
 Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (cambio de partes) que se desean suministrada con los equipos.
 Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin la protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.
 Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (cambio de partes) que se desean suministrada con los equipos.

Advertencia

Alimentación eléctrica • Este equipo debe conectarse únicamente a fuente/polo de alimentación eléctrica al equipo, desenchufar todos los cables de alimentación en el panel trasero del equipo, o desenchufar el módulo de alimentación (si fuera independiente), o desenchufar el cable del receptáculo de la pared.
 Precaución de cables de alimentación • Los cables de alimentación eléctrica se deben instalar en lugares donde no sean pisados ni apretados por objetos que se puedan apoyar sobre ellos.
 Reparaciones/mantenimiento • Solicitar siempre los servicios técnicos o personal calificado. El error no incluye las tareas que el usuario debe aceptar. Para evitar riesgo de electrocución, no intentar personalmente la reparación/mantenimiento de este equipo, ya que al abrir o extraer las capas pueden quedar expuestas a voltajes peligrosos u otros riesgos.
 Baterías y accesorios • Si el equipo posee baterías o accesorios removibles, éstas se para evitar el sobrecalentamiento de componentes internos sensibles. Estas baterías nunca se deben obstruir con otros objetos.
 Batería de litio • Existe riesgo de explosión si esta batería se coloca en la posición incorrecta. Cambiar esta batería únicamente con el mismo tipo (o su equivalente) recomendado por el fabricante. Evitar las baterías usadas siguiendo las instrucciones del fabricante.

Atención

Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (cambio de partes) que se desean suministrada con los equipos.
 Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (cambio de partes) que se desean suministrada con los equipos.

Sicherheitsanweisungen • Deutsch

Dieses Symbol soll dem Benutzer zur Bedienung und besonders wichtige Hinweise zur Bedienung und Wartung (Insanahaltung) geben.
 Dieses Symbol soll den Benutzer auf aufmerksam machen, daß im Inneren des Gehäuses dieses Produktes gefährliche Spannungen, die nicht isoliert sind und die einen elektrischen Schock verursachen können, herrschen.
 Lesen der Anleitungen • Bevor Sie das Gerät zum ersten Mal verwenden, sollten Sie alle Sicherheits- und Bedienungsanleitungen genau durchlesen und verstehen.
 Arbeiten der Montage • Die Hinweise zur elektrischen Sicherheit sind zu befolgen. Die Hinweise zur elektrischen Sicherheit sind zu befolgen. Die Hinweise zur elektrischen Sicherheit sind zu befolgen.
 Keine Zusetzgeräte • Verwenden Sie keine Werkzeuge oder Zusetzgeräte, die nicht ausdrücklich vom Hersteller empfohlen wurden, da diese eine Gefährdung darstellen können.
 Elektrische Isolation • Nicht isolieren die Teile des Produktes, die nicht ausdrücklich vom Hersteller empfohlen wurden, da diese eine Gefährdung darstellen können.

Consignes de Sécurité • Français

Ce symbole sert à avertir l'utilisateur que la documentation fournie avec le matériel contient des instructions importantes concernant l'exploitation et la maintenance (réparation).
 Ce symbole sert à avertir l'utilisateur de la présence de tensions dangereuses dans l'appareil de tensions dangereuses non isolées posant des risques d'électrocution.
 Lire les instructions • Préalablement à toutes les consignes de sécurité et d'exploitation, lire et bien le matériel.
 Consignes de Sécurité • Avant d'utiliser le matériel, lire et bien le matériel.
 Respecter les avertissements • Observer tous les avertissements et consignes marqués sur le matériel ou présentés dans la documentation utilisateur.
 Éviter les pièces de fixation • Ne pas utiliser de pièces de fixation ni d'outils non recommandés par le fabricant du matériel car cela risquerait de poser certains dangers.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.
 Read Instructions • Read and understand all safety and operating instructions before using the equipment.
 Safety Instructions • The safety instructions should be kept for future reference.
 Follow all warnings and instructions marked on the equipment or in the user information.
 Avoid Attachment • Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous.

Caution

This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Safety Instructions • English

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

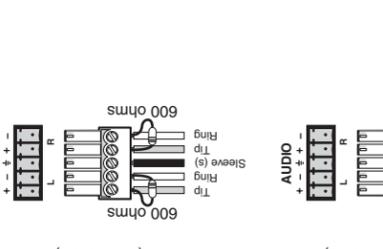
This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.



Connect the audio/video signal source (input) devices (for example, a microphone and/or camera) to the captive screw and/or BNC connectors labeled "From Source," on the FBI 100 rear panel.

Step 3

Connect the audio/video signal source (input) devices (for example, a microphone and/or camera) to the captive screw and/or BNC connectors labeled "From Source," on the FBI 100 rear panel.

Step 2

Mount the FBI 100 on a rack shelf, as illustrated at right, or attach the four feet and place the unit on a table.

Step 1

Turn all of the equipment off, and ensure that the input device (for example, the camera), the VCR, and the output device(s) have been disconnected from the power source.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Warning

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
 This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.



Extron Electronics, USA
 1230 South Lewis Street
 Anaheim, CA 92805
 USA
 714.491.1500
 Fax 714.491.1517

Extron Electronics, Europe
 Beeldschermweg 6C
 3821 AH Amersfoort
 The Netherlands
 +31.33.453.4040
 Fax +31.33.453.4050

Extron Electronics, Asia
 135 Joo Seng Road, #04-01
 PM Industrial Building
 Singapore 368363
 +65.6383.4400
 Fax +65.6383.4664

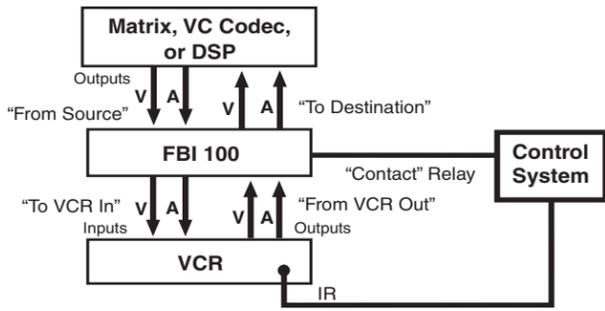
Extron Electronics, Japan
 Kyodo Building
 16 Ichibancho
 Chiyoda-ku, Tokyo 102-0082 Japan
 +81.3.3511.7655
 Fax +81.3.3511.7656

Extron® Electronics
 INTERFACING, SWITCHING AND DISTRIBUTION

Quick Start Guide



FBI 100
Feedback Isolator



FBI 100 connections

Step 4

Connect the VCR audio/video inputs to the L and R stereo RCA and BNC connectors labeled "To VCR In," on the FBI 100 rear panel.

Step 5

Connect the VCR audio/video outputs to the L and R stereo RCA and BNC connectors labeled "From VCR Out," on the FBI 100.

Step 6

Connect the audio/video output devices (for example, an MPA 122 amplifier and/or a projector) to the captive screw and/or BNC connectors labeled "To Destination" on the FBI 100 rear panel.



Step 7

Connect the contact closure control port of a control system to the connector labeled "Contact" on the FBI 100 rear panel. This control system should be the same one that controls the VCR record and playback modes.

Step 8

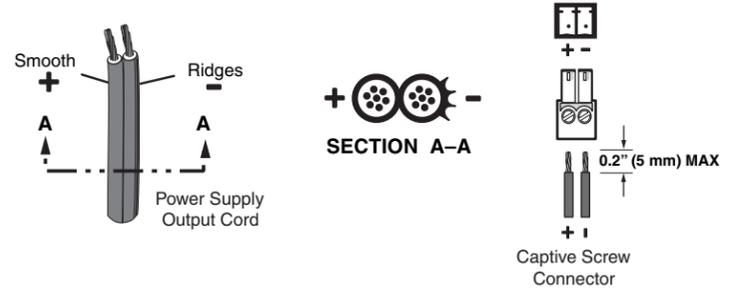
Program the control system to perform as follows:

- When the control system sends a command to the VCR to start recording (record mode), it should also short and latch the FBI 100 "Contact" pin 1 to ground (by relay).
- In the other modes (play or stop), the control system should open the FBI 100 "Contact" pin 1.

Step 9

Wire the FBI 100 power cord and connect it. To wire the power cord, follow these steps, and refer to the illustration below.

- Cut the DC output cord to the length needed.
- Strip the jacket to expose 0.2 inches (5 mm) of the conductors.
- Slide the leads into the supplied captive screw plug; and tighten the screws to lock the wires in place, using an Extron Tweezer or a small screwdriver.



Wiring the power cord

Step 10

Connect power to the output device(s), the FBI 100, the VCR, and the input device(s).

Step 11

Power on the input and output devices, the FBI 100, and the VCR. Insert a blank VHS tape into the VCR.

Specifications

Video

Gain	Unity
Bandwidth	10 MHz (-3 dB)

Sync

Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
-----------------	----------------------------------

Audio

Gain	
From "From Source" to "To VCR In":	-12 dB
From "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)

Audio input

Nominal level	
"From Source"	+4 dBu (1.23 Vrms)
"From VCR Out"	-10 dBV (316 mVrms)

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

Audio output

Nominal level:	
"To VCR In"	-10 dBV (316 mVrms)
"To Destination"	+4 dBu (1.23 Vrms)

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
Warranty	3 years parts and labor

NOTE All nominal levels are at ±10%.

NOTE Specifications are subject to change without notice.