

RGB 190FV

Universal Computer-Video Interface



FEATURES

- **Input:** RGB video on female 15-pin HD connector, cable included
- **Output:** RGB video on female BNC connectors for RGsB, RGBS, or RGBHV
- **Compatible with** VGA–QXGA, Mac, Sun®, and SGI® computers
- **300 MHz (-3 dB) RGB video bandwidth**
- **Horizontal shift control** — Shifts the displayed image left or right on the display screen. Also called "horizontal centering".
- **Includes a 6' (1.8 m), 15-pin HD male-to-male, PC input cable**
- **Includes under-desk mounting kit**, part# 70-077-01
- **DDSP™ - Digital Display Sync Processing** — Allows the sync signal to pass through without altering sync pulse or width. Disables other sync processing features such as horizontal and vertical centering. DIP switch-selectable.
- **Buffered female 15-pin HD local monitor output**
- **Durable metal enclosure**
- **External universal power supply included**, part # 70-055-01

DESCRIPTION

The Extron **RGB 190FV** is a universal, analog computer-video interface with a female 15-pin HD input and a buffered local monitor output. It includes a 15-150 kHz scanning range, 300 MHz (-3 dB) RGB video bandwidth, and is compatible with nearly every computer-video signal, including VGA–QXGA, Mac, Sun®, and SGI®. ID bit termination is provided on pins 4 and 11 of its 15-pin HD input, ensuring that computers requiring local monitors to operate will do so in the event that one is not attached.

For PCs, the **RGB 190FV** ships with a 6-foot 15-pin HD male-to-male VGA input cable. For Macs with 15-pin D connector video outputs, and Sun, SGI, and IBM Power PC workstations with 13W3 video outputs, an optional adapter kit is required.

The **RGB 190FV** features horizontal shift control, simultaneous output of composite and separate H&V sync, sync on green output and serration pulse removal, both DIP switch-selectable, and DDSP™ - Digital Display Sync Processing, also DIP switch-selectable.

Nominal level	0.7 Vp-p for RGB
Minimum / Maximum levels ..	Analog: 0.3 V to 1.45 Vp-p with no offset at unity gain
Impedance	75 ohms
Horizontal frequency	15 kHz to 130 kHz
Vertical frequency	30 Hz to 170 Hz
Return loss	<-41 dB @ 5 MHz
DC offset (max. allowable).....	4 V

VIDEO OUTPUT

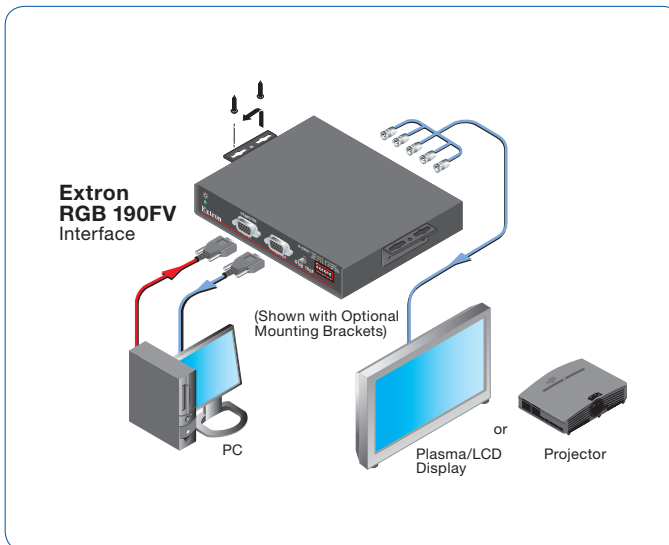
Number / Signal type	1 RGBHV, RGsB, RGsB
Connectors	6 BNC female
Nominal level	0.7 Vp-p for RGB
Minimum / Maximum levels ..	0.7 V to 0.8 Vp-p (switch selectable) with peaking
Impedance	75 ohms
Return loss	-45 dB @ 5 MHz
DC offset	±5 mV with input at 0 offset

SYNC

Input type	RGBHV, RGsB, RGsB (does not strip sync from video)
Output type	RGBHV at all times, RGsB at all times, RGsB (switch selectable)
Input level	2.0 V to 5.5 Vp-p with ±0.2 VDC offset (max.)
Output level	4.0 V to 5.0 Vp-p, unterminated
Input impedance	510 ohms
Output impedance	75 ohms
Max. propagation delay	57 ns
Max. Rise / Fall time	4 ns
Polarity	RGBHV input: positive or negative (follows input) RGsB, RGsB input: negative

GENERAL

External Power Supply	100 VAC to 240 VAC, 50/60 Hz, external, universal; to 12 VDC, 1 A, regulated, included
Power input requirements	12 VDC, 0.35 A
Rack mount	No, but furniture mountable with included under-desk mounting brackets
Enclosure type	Metal
Enclosure dimensions	1.0" H x 5.7" W x 4.5" D 2.5 cm H x 14.5 cm W x 11.4 cm D (Depth excludes connectors.)
Product / Shipping weight	0.9 lbs (0.4 kg) / 3 lbs (2 kg)



SPECIFICATIONS

VIDEO

Gain	Unity (0.7 V), (0.8 V) 15% with 3 dB peaking
Bandwidth	300 MHz (-3 dB)
Max. Rise / Fall time	1.5 ns

VIDEO INPUT AND LOOP-THROUGH

Number / Signal type	1 analog VGA–QXGA, Mac, Sun RGBHV, RGsB, RGsB 1 buffered local monitor loop-through identical to the input
Connectors	(1) female 15-pin HD (input), (1) female 15-pin HD (loop-through)

MODEL

RGB 190FV	Computer-Video Interface	60-486-61
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OPTIONAL ACCESSORIES

MODEL DESCRIPTION	PAGE	PART #
Mac 15-HD Mac Adapter Kit with Audio	page 60	70-156-01
13W3 - 15HD 13W3 Adapter Kit with Audio	page 60	70-157-03
MBD 129 1U, 1/2 & 1/4 Rack Width Through-Desk Mount Kit for Two-Piece Enclosure ...	page 817	70-077-02