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Find the *Extron 190FV* at our website: *Click HERE*

RGB 190FV
RGB 192V

UNIVERSAL ANALOG COMPUTER-VIDEO INTERFACES WITH DDSP™

- 300 MHz (-3 dB) RGB video bandwidth
- Compatible with computer-video resolutions up to QXGA
- Buffered local monitor output
- DDSP™ - Digital Display Sync Processing
- Two-position level/peaking control
- Horizontal shift control
- Active PC audio to balanced audio interfacing
- Selectable stereo or summed mono audio output
- Includes under-desk mounting kit
- 1" high, compact metal enclosure
- Energy-efficient external universal power supply included



RGB 190FV



RGB 192V

The Extron RGB 190FV and RGB 192V are universal, analog computer-video interfaces with DDSP™. They allow computer-video resolutions up to QXGA to be converted for output to projectors and flat panel displays. These interfaces are ideal for smaller classrooms, auditoriums, and conference rooms.

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DESCRIPTION

The Extron **RGB 190FV** and **RGB 192V** are universal, analog computer-video interfaces with DDSP™. They allow computer-video resolutions up to QXGA to be converted for output to projectors and flat panel displays. The RGB 192V also accepts unbalanced computer stereo audio and outputs balanced, line level stereo or mono audio. Extron Digital Display Sync Processing or DDSP technology allows the sync signal to pass through without altering sync pulse or width.

The RGB 190FV and RGB 192V interfaces feature level and peaking control, horizontal shift control, and a buffered local monitor output with ID bit termination. Level and peaking compensate for signal loss due to long cable runs. Horizontal shift allows the image to be adjusted to the left or right when timing differences between source resolutions and refresh rates cause a display to position images in different places.

The RGB 190FV and RGB 192V ship with a 6' (1.8 m) 15-pin HD video, PC audio cable and a 6' (1.8 m) 15-pin HD video cable respectively. Both interfaces are housed in 1" high, compact metal enclosures that easily mount on furniture using the provided under-desk mounting kit.

The RGB 190FV and RGB 192V are ideal for use in applications that require signal amplification and sync processing to ensure compatibility between many different types of displays and computer-video signal sources found in classrooms, auditoriums, and conference rooms.

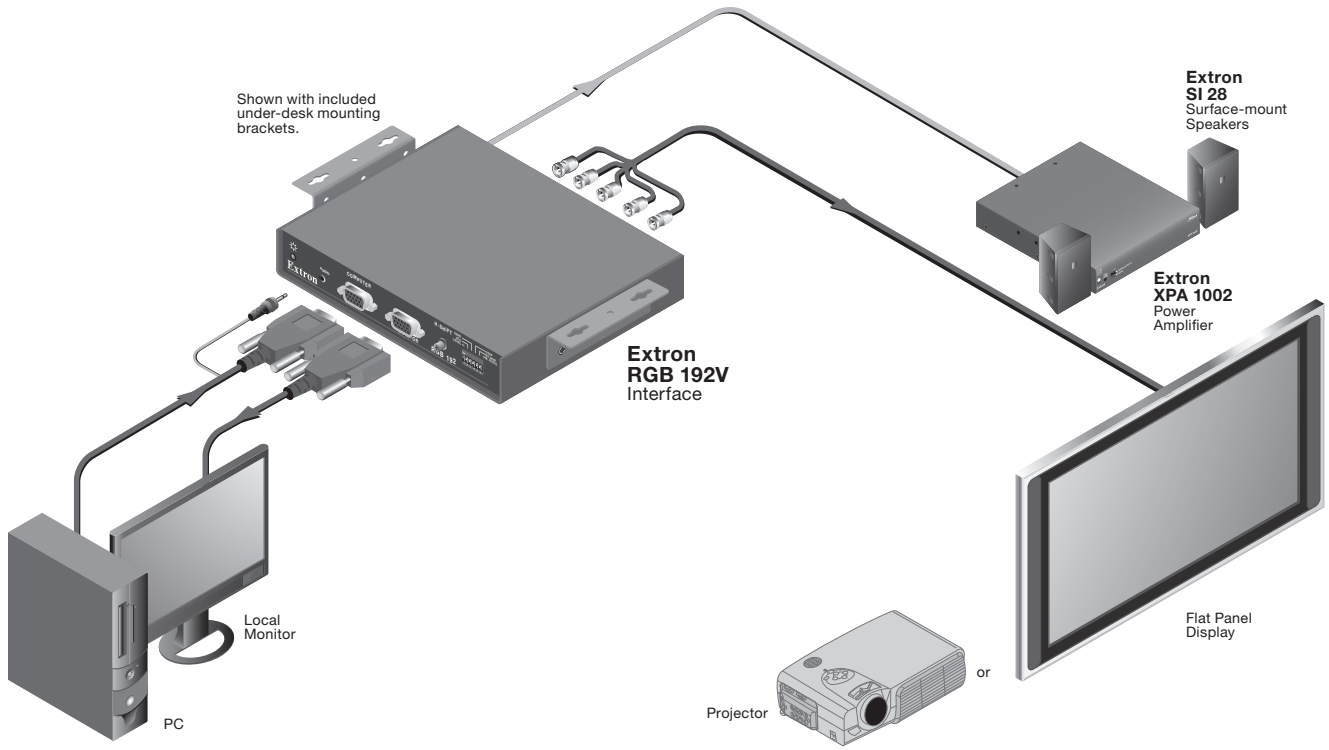
COMMON FEATURES

- **300 MHz (-3 dB) RGB video bandwidth**
- **Compatible with computer-video resolutions up to QXGA**
- **Buffered local monitor output** – Enables local viewing of the computer source.
- **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.
- **Two-position level/peaking control** – Boosts and equalizes video signals to compensate for signal loss and high frequency attenuation that occur in long cable runs.
- **Horizontal shift control** – Shifts the displayed image left or right on the display screen. Also called "horizontal centering".
- **Includes under-desk mounting kit, part # 70-077-01**
- **Energy-efficient external universal power supply included, replacement part # 70-775-01** – Provides worldwide compatibility, low power consumption, and reduced operating costs.

RGB 192V UNIQUE FEATURES

- **Active PC audio to balanced audio interfacing** – Converts computer-generated, unbalanced audio to balanced line level stereo audio for output on a captive screw connector.
- **Selectable stereo or summed mono audio output**

APPLICATION DIAGRAM



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SPECIFICATIONS

VIDEO

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

VIDEO INPUT AND LOOP THROUGH

Number/signal type	1 analog VGA-QXGA, RGBHV, RGBS, 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)
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, RGBS, RGsB
Connectors	6 female BNC
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, RGBS, RGsB (does not strip sync from video)
Output type	RGBHV at all times, RGBS 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) RGBS, RGsB input: negative

AUDIO – RGB 192V ONLY

Gain	Unbalanced output: 0 dB; balanced output: +6 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N	>90 dB at maximum output (14 dBm), balanced, unweighted
Crosstalk	<-90 dB @ 1 kHz
Stereo channel separation	>90 dB @ 1 kHz to 20 kHz

AUDIO INPUT – RGB 192V ONLY

Number/signal type	1 stereo or mono, unbalanced
Connectors	(1) 3.5 mm mini stereo audio jack (tip, ring, sleeve)
Impedance	>10k ohms unbalanced, DC coupled
Nominal level	-10 dBV (316 mVrms, -7.78 dBu)
Maximum level	+9.5 dBu, (unbalanced) at 1% THD+N

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

AUDIO OUTPUT – RGB 192V ONLY

Number/signal type	1 buffered stereo or mono, balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Gain error	±0.1 dB channel to channel
Maximum level (Hi-Z)	>+14 dBm, balanced at 1% THD+N
Maximum level (600 ohm)	>+9 dBm, balanced at 1% THD+N

GENERAL

External power supply	100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 1 A, regulated, included
Power input requirements	12 VDC, 0.35 A
Cooling	Convection, no vents
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
Mounting	
Furniture mount	Yes, with included under-desk mounting kit
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 weight	0.9 lbs (0.4 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
MTBF	30,000 hours
Warranty	3 years parts and labor

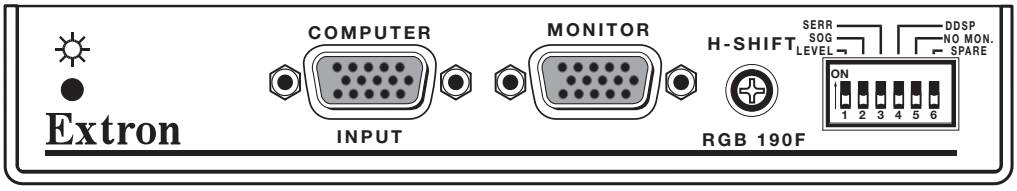
NOTE: All nominal levels are at ±10%.

Model	Version Description	Part number
RGB 190FV	Computer-Video Interface	60-486-61
RGB 192V	Computer-Video Interface with Audio	60-486-01

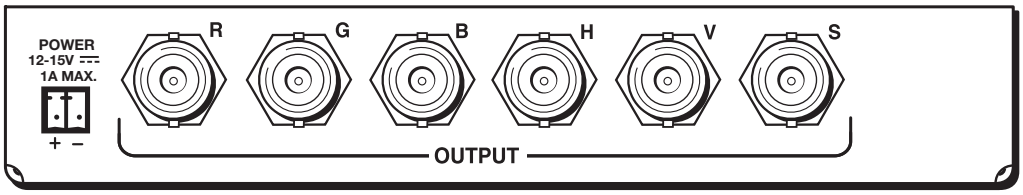
For complete specifications, please go to www.extron.com
Specifications are subject to change without notice.

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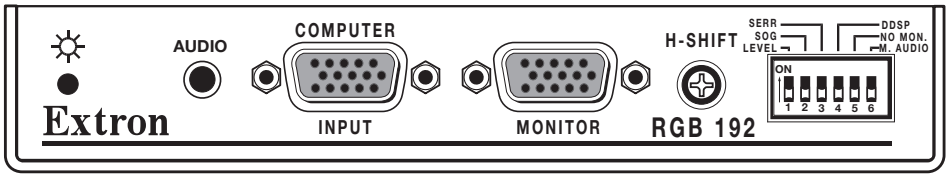
PANEL DRAWINGS



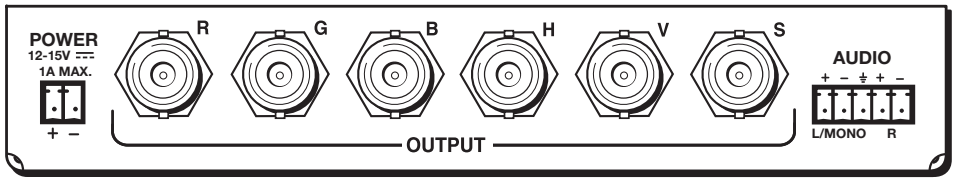
RGB 190FV - Front



RGB 190FV - Back



RGB 192V - Front



RGB 192V - Back

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