

# RGB-DVI 300

RGB to DVI Scaler

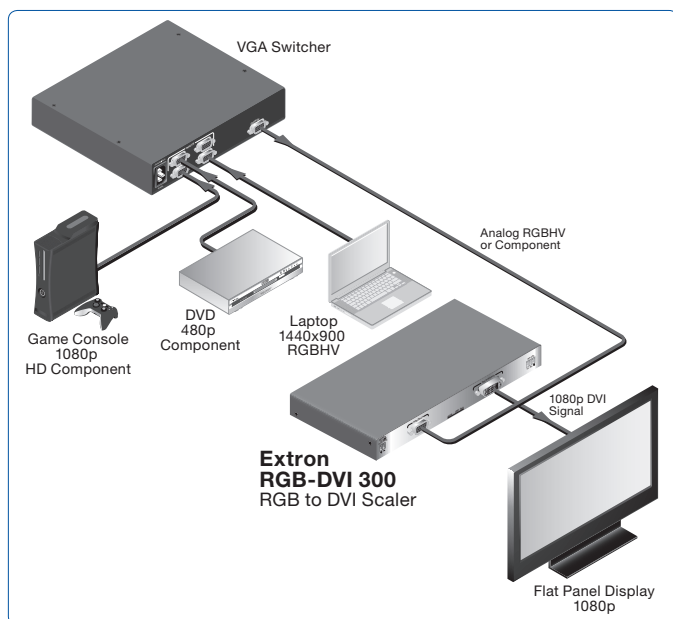


## DESCRIPTION

The Extron **RGB-DVI 300** is a high performance RGB to DVI scaler that converts incoming analog component video and RGBHV signals to DVI-D signals. It accepts HDTV and high resolution computer-video signals up to 1920x1200, and offers multiple output rates up to 1920x1200, including HDTV 1080p/60. The RGB-DVI 300 is housed in a compact, low-profile enclosure for placement behind flat-panel displays, and offers several features for streamlining integration and enhancing system operation, including Auto Input Memory, Auto-Image™ setup, and RS-232 serial control.

## FEATURES

- RGB and HDTV component video to DVI scaling
- Selectable output rates up to 1920x1200, including HDTV 1080p/60
- Auto-Image™ setup
- Auto Input Memory
- EDID Emulation provides selectable resolutions and refresh rates to ensure reliable operation
- Picture controls for brightness, contrast, detail, horizontal and vertical positioning, sizing, and zoom
- On-screen display
- RS-232 control port
- Internal test patterns for calibration and setup
- Power Save Mode



## SPECIFICATIONS

### VIDEO INPUT

Number/signal type	1 RGBHV, RGBS, RGSB, HDTV component video (Y, R-Y, B-Y)
Resolution range	640x480 to 1920x1200* or 480p, 576p, 720p, 1080i, or 1080p
Formats	RGB and HDTV Y, R-Y, B-Y

### VIDEO PROCESSING

Digital sampling	24 bit, 8 bits per color; 162 MHz standard
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### VIDEO OUTPUT

Number/signal type	1 single link DVI-D
RGB-DVI 300	1 single link DVI-D
RGB-HDMI 300 A	1 single link HDMI
Scaled resolutions	640x480 <sup>6,8,9</sup> , 800x600 <sup>6,8,9</sup> , 852x480 <sup>6,8,9</sup> , 1024x768 <sup>6,8,9</sup> , 1024x852 <sup>6,8,9</sup> , 1024x1024 <sup>4,6,8,9</sup> , 1280x768 <sup>6,8,9</sup> , 1280x800 <sup>6,8,9</sup> , 1280x1024 <sup>6,8,9</sup> , 1360x768 <sup>6,8,9</sup> , 1360x768 <sup>6,8,9</sup> , 1365x768 <sup>6,8,9</sup> , 1365x1024 <sup>6,8,9</sup> , 1366x768 <sup>6,8,9</sup> , 1440x900 <sup>6,8,9</sup> , 1400x1050 <sup>6,8</sup> , 1600x1200 <sup>6,8</sup> , 1680x1050 <sup>6,8</sup> , 1920x1200 <sup>6,8</sup> , 2048x1080 <sup>1,2,3,4,5,6,7,8</sup> 480p <sup>8</sup> , 576p <sup>6</sup> , 720p <sup>3,4,5,6,7,8</sup> , 1080p <sup>1,2,3,4,5,6,7,8</sup> , 1080j <sup>6,7,8</sup> <sup>1</sup> = at 23.98 Hz, <sup>2</sup> = at 24 Hz, <sup>3</sup> = at 25 Hz, <sup>4</sup> = at 29.97 Hz, <sup>5</sup> = at 30 Hz, <sup>6</sup> = at 50 Hz, <sup>7</sup> = at 59.94 Hz, <sup>8</sup> = 60 Hz, <sup>9</sup> = 75 Hz; or automatic based on display device or current input rate

### SYNC

Input type	RGBHV, RGBS, RGSB; bi-level YUVp component video, or tri-level HDTV component video
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### AUDIO - RGB-HDMI 300 A

Frequency response	20 Hz to 20 kHz, ±1.1 dB
THD + Noise	0.03% @ 1 kHz at nominal level, 0 dB gain
S/N	>70 dB at rated maximum output

### AUDIO INPUT - RGB-HDMI 300 A

Number/signal type	1 stereo, unbalanced
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### AUDIO OUTPUT - RGB-HDMI 300 A

Number/signal type	1 stereo, digital LPCM 48 kHz (embedded in HDMI output)
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### CONTROL/REMOTE - SCALER

Serial control ports	1 RS-232, 3.5 mm captive screw connector, 3 pole (rear panel) 1 RS-232, 2.5 mm mini stereo jack (front panel)
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### GENERAL

Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	
RGB-DVI 300	
Device	8.1 watts, 12.0 VDC
Device and power supply	10.0 watts, 100-240 VAC, 50-60 Hz
RGB-HDMI 300 A	
Device	9.3 watts, 12.0 VDC
Device and power supply	14.0 watts, 100-240 VAC, 50-60 Hz
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	
Rack mount	Yes, with optional rack shelf kit and RFF 052 false front
Enclosure dimensions	1.0 H x 8.75" W x 6.0" D (half rack wide) (2.5 cm H x 22.2 cm W x 15.2 cm D) (Depth excludes connectors and knobs.)

For complete specifications, please go to [www.extron.com](http://www.extron.com)

MODEL	VERSION DESCRIPTION	PART #
RGB-DVI 300	RGB to DVI Scaler	60-906-01