RGB-HDMI 300 A

RGB TO HDMI SCALER

▸ **Converts and scales RGB and HDTV component video to HDMI**

▸ **Audio embedding with gain, attenuation, and delay control**

▸ **Selectable output rates up to 1920x1200, including HDTV 1080p/60 and 2K**

▸ **Auto Input Format Detection**

▸ **EDID Emulation**

▸ **Picture control adjustments with on-screen display**

▸ **RS-232 control port**

The Extron RGB-HDMI 300 A is a high performance RGB to HDMI scaler that converts incoming analog component video and RGBHV signals to HDMI. It accepts HDTV and high resolution computer-video signals, and offers HDMI output rates up to 1920x1200, including HDTV 1080p/60.

Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **RGB-HDMI 300 A** is a high performance RGB to HDMI scaler that converts incoming analog component video and RGBHV signals to HDMI signals. It accepts HDTV and high resolution computer-video signals up to 1920x1200, and offers multiple, selectable HDMI output rates up to 1920x1200, including HDTV 1080p/60. The RGB-HDMI 300 A also offers audio embedding so that analog audio inputs can be digitized into the scaled HDMI output. It is housed in a compact, low-profile enclosure for discreet installation behind a display or above a projector. The RGB-HDMI 300 A is ideal for applications where displays, equipped only with HDMI inputs, are to be used with sources that output analog RGB, or in an environment with an existing analog RGB and audio signal distribution infrastructure.

FEATURES

▸ Inputs: RGBHV or component video on 15-pin HD; unbalanced stereo on a 3.5 mm stereo mini jack
▸ Output: One HDMI
▸ Audio embedding with gain, attenuation, and delay control – Analog stereo audio signals can be converted to HDMI, together with the video signals.
▸ Auto Input Format Detection – The RGB-HDMI 300 A can be set to detect the incoming RGB or HD component video signal format, automatically reconfiguring itself to provide the appropriate decoding and signal processing.
▸ EDID Emulation – The RGB-HDMI 300 A provides a means for specifying the rate of the incoming signal, ensuring proper communication with the VGA source.
▸ Output Standby Mode – The RGB-HDMI 300 A can be set to automatically mute video and sync output to the display device when no active input signal is detected.
▸ Memory presets – Memory presets are available to store and recall sizing, centering, detail, contrast, and brightness information.
▸ Aspect ratio control
▸ Auto-Image™ setup
▸ Auto Input Memory
▸ HDMI output color space selectable as RGB or component video
▸ 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
▸ 1" high, half rack width metal enclosure

SPECIFICATIONS

VIDEO INPUT	
Number/signal type	1 RGBHV, RGBS, RGsB, HDTV component video (Y, R-Y, B-Y)
Formats	RGB and HDTV Y, R-Y, B-Y

VIDEO OUTPUT	
Number/signal type	
RGB-DVI 300	1 single link DVI-D
RGB-HDMI 300 A	1 single link HDMI
Formats	RGB and YCbCr digital video

AUDIO INPUT — RGB-HDMI 300 A	
Number/signal type	1 stereo, unbalanced

AUDIO OUTPUT — RGB-HDMI 300 A	
Number/signal type	1 stereo, digital LPCM 48 kHz (embedded in HDMI output)

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)

GENERAL	
Power supply	External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts
Power consumption	
RGB-DVI 300	
Device and power supply	10.0 watts, 100-240 VAC, 50-60 Hz
RGB-HDMI 300 A	
Device and power supply	14.0 watts, 100-240 VAC, 50-60 Hz
Temperature/humidity	Storage -40º to +158ºF (-40º to +70ºC) / 10% to 90%, noncondensing Operating +32º to +122ºF (0º to +50ºC) / 10% to 90%, noncondensing
Mounting	
Rack mount	Yes, with optional rack shelf kit and RFF 052 false front
Wall mount	Yes, with optional under-desk or through-desk mounting kit
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.)
Product weight	1.6 lbs (0.7 kg)
Vibration	ISTA/NSTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
Environmental	Complies with the appropriate requirements of WEEE.
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

Model	Version Description	Part number
RGB-HDMI 300 A	RGB and Stereo Audio to HDMI Scaler	60-1074-01

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

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