The Extron RGB-HDMI 300 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. The RGB-HDMI 300 is ideal for applications where newer displays with only HDMI inputs are to be integrated into systems with analog RGB computer-video sources.
The Extron RGB-HDMI 300 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 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.

The RGB-HDMI 300 is ideal for various applications where newer consumer-based displays, equipped only with HDMI inputs, are to be used with sources that output analog RGB computer-video, or in an environment with an existing analog RGB signal distribution infrastructure. It can also be used in systems where consolidation of various source signals to a single, common output resolution is desired. For example, the RGB-HDMI 300 can be installed at the output of a switcher, with its HDMI output feeding the display.

In addition to high performance scaling, the RGB-HDMI 300 includes several integrator friendly features for expediting set-up and system operation. An on-screen display facilitates display of information pertaining to the incoming signal and adjustment of picture settings, including positioning, size, zoom, brightness, contrast, and detail. Internal test patterns are available for calibration and setup. Configurations can be conveniently saved and recalled from up to three memory presets from the front panel, and up to 16 additional presets through RS-232 serial control.

With Auto Input Memory, the RGB-HDMI 300 automatically stores image settings for each new incoming signal. When the signal is recognized again from a newly connected source, image settings are automatically restored. Auto-Image, a feature common to many Extron scalers and signal processors, allows for quick and easy set-up of incoming analog RGB signals.

The RGB-HDMI 300 features RS-232 serial control with front and rear ports. It is housed in a 1" high, half rack width enclosure that allows for discreet installation, such as behind a flat panel display or above a projector.
## Specifications

### Video Input
- **Number/signal type**: 1 RGBHV
- **Connectors**: 1 female 15-pin HD
- **Nominal level**: 0.7 Vp-p for RGB
- **Impedance**: 75 ohms
- **Horizontal frequency**: 30 kHz to 100 kHz
- **Vertical frequency**: 50 Hz to 120 Hz
- **Resolution range**: 640x480 to 1920x1200* or 480p, 576p, 720p, 1080i, or 1080p

### Video Processing
- **Digital sampling**: 24 bit, 8 bits per color; 162 MHz standard
- **Colors**: 16.78 million
- **Video output**: 1 single link HDMI
- **Scaled resolutions**: 640x480 to 1920x1200*

### Video Output
- **Number/signal type**: 1 single link HDMI
- **Connectors**: 1 female HDMI
- **Formats**: RGB and YCbCr digital video

### Sync
- **Input type**: RGBHV
- **Output type**: DVI-D or HDMI digital video
- **Input level**: 0 V to 5.0 Vp-p
- **Input impedance**: 1k ohms

### Control/Remote—Decoder
- **Serial control ports**: 1 RS-232, 3.5 mm captive screw connector, 3 pole (rear panel)
- **Baud rate and protocol**: 9600 baud, 8 data bits, 1 stop bit, no parity
- **Program control**: Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

### General
- **External power supply**: 100 VAC to 240 VAC, 50/60 Hz, external; to 12 VDC, 2 A, regulated
- **Power input requirements**: 12 VDC, 0.8 A

### Optional Accessories
- **HDMI M-M Series High Performance HDMI Male to Male Cables**
  - **HDMI M-M/3**: 3' (90 cm) ................................. 26-650-03
  - **HDMI M-M/6**: 6' (1.8 m) ................................. 26-650-06
  - **HDMI M-M/12**: 12' (3.6 m) ............................... 26-650-12
- **MBU 125**: Under-Desk Mount Kit .......................... 70-077-01

### Cooling
- **Mounting**: Convection, no vents

### Rack Mounting
- **Rack mount**: Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129, 60-604-01); or 1U, 6" deep rack shelf (RSU 126, #60-190-10; RSB 126, 60-604-10)

### Furniture Mounting
- **Furniture mount**: Furniture or wall mountable using optional MBU 125 mounting kit, part #70-077-01

### Regulatory Compliance
- **Safety**: CE, CUL, C-tick, 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

### Notes
- All nominal levels are at ±10%.

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**Model** | **Version Description** | **Part Number**
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RGB-HDMI 300 | RGB to HDMI Scaler | 60-907-01

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**Temperature/humidity**
- Storage: -40° to +158°F (-40° to +70°C)
- Operating: 32° to +122°F (0° to +50°C)

**Cooling**
- Convection, no vents

**Mounting**
- Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129, 60-604-01); or 1U, 6" deep rack shelf (RSU 126, #60-190-10; RSB 126, 60-604-10)

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**Specifications are subject to change without notice.**