

DSC HD-HD

HDMI TO HDMI SCALER

- ▶ HDMI video cross conversion
- ▶ Accepts HDMI video from 480i up to 1920x1200, 1080p/60 and 2K
- ▶ Advanced scaling engine with 30-bit processing and 1080i deinterlacing
- ▶ Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60 and 2K
- ▶ HDCP compliant
- ▶ EDID Minder®
- ▶ Aspect ratio control
- ▶ On-screen menus
- ▶ Internal video test patterns and audio pink noise generator
- ▶ Front panel USB configuration port



The Extron DSC HD-HD is a high performance scaler that converts between HDMI resolutions and frame rates. It accepts video from 480i up to 1920x1200, 1080p, and 2K, and generates output rates up to 1920x1200, including HDTV 1080p/60 and 2K. The DSC HD-HD features a host of professional capabilities for integration in demanding environments, including EDID Minder, test patterns, and aspect ratio control, as well as visual confirmation of HDCP status and signal presence.



Extron Electronics
INTERFACING, SWITCHING AND CONTROL

DESCRIPTION

The Extron **DSC HD-HD** is a compact high performance, HDCP-compliant scaler that converts between HDMI resolutions and frame rates. It accepts video from 480i up to 1920x1200, 1080p, and 2K, and offers high performance upscaling and downscaling with multiple output rates up to 1920x1200, including HDTV 1080p/60 and 2K. The DSC HD-HD features advanced Extron video signal processing with 1080i deinterlacing and Deep Color processing for optimal image quality. It includes many integrator-friendly features such as on-screen display, test patterns, and EDID Minder. The DSC HD-HD is ideal for applications that require scaling HDMI video to match the different capabilities and requirements of sources, displays, videoconferencing codecs, and other equipment. The compact form factor allows simple integration at a source, destination, or in a distribution system.

FEATURES

- ▶ **HDMI video cross conversion**
- ▶ **Accepts HDMI video from 480i up to 1920x1200, 1080p/60, and 2K** – The DSC HD-HD is compatible with standard definition and high resolution video.
- ▶ **Advanced scaling engine with 30-bit processing and 1080i deinterlacing**
- ▶ **Selectable output rates from 640x480 to 1920x1200, including HDTV 1080p/60 and 2K**
- ▶ **HDCP compliant** – Fully supports HDCP-encrypted sources, with selectable authorization for unencrypted content.
- ▶ **Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color, and HD lossless audio formats**
- ▶ **EDID Minder automatically manages EDID communication between connected devices**
- ▶ **Aspect ratio control**
- ▶ **Front panel LED indicators for signal presence, HDCP status, audio format, and power**
- ▶ **On-screen menus**
- ▶ **Output Standby Mode**
- ▶ **Internal video test patterns and pink audio noise generator**
- ▶ **Front panel USB configuration port**
- ▶ **Easy setup and commissioning with Extron's PCS - Product Configuration Software**
- ▶ **1" (2.5 cm) high, quarter rack width metal enclosure**
- ▶ **Highly reliable, energy-efficient external universal power supply included, replacement part #70-775-01**

SPECIFICATIONS

| VIDEO INPUT | | |
|--|---|--------------------|
| Number/signal type | 1 HDMI/DVI digital video | |
| Connector | 1 female HDMI type A | |
| Resolution range | 640x480 @ 60 Hz through 1920x1200 @ 60 Hz, 480i, 576i, 480p, 576p, 720p, 1080i, 1080p, and 2K (2048x1080) | |
| Formats | RGB and YCbCr digital video | |
| Standards | DVI 1.0, HDMI, HDCP | |
| VIDEO PROCESSING | | |
| Digital pixel data bit depth | 8, 10, or 12 bits per channel 165 MHz pixel clock (HDMI) | |
| Colors | 1.07 billion (10-bit processing) | |
| VIDEO OUTPUT | | |
| Number/signal type | 1 HDMI (TMDS) | |
| Connector | 1 female HDMI type A | |
| Peripheral device power | 250 mA | |
| Scaled resolutions | 640x480 ⁸ , 800x600 ⁸ , 1024x768 ⁸ , 1280x768 ⁸ , 1280x800 ⁸ , 1280x1024 ⁸ , 1360x768 ⁸ , 1366x768 ⁸ , 1440x900 ⁸ , 1400x1050 ⁸ , 1600x900 ⁸ , 1680x1050 ⁸ , 1600x1200 ⁸ , 1920x1200 ⁸ HDTV: 480p ^{7,8} , 576p ⁸ , 720p ^{3,4,5,6,7,8} , 1080i ^{6,7,8} , 1080p ^{1,2,3,4,5,6,7,8} , 2K (2048x1080) ^{1,2,3,4,5,6,7,8} 1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz | |
| Standards | DVI 1.0, HDMI, HDCP | |
| COMMUNICATION | | |
| USB control port | 1 female USB mini-B (front panel) | |
| GENERAL | | |
| Power supply | External Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts | |
| 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 Furniture mount: Yes, with optional under-desk mounting kit | |
| Enclosure dimensions | 1.0" H x 4.25" W x 6.0" D (quarter rack wide) (2.5 cm H x 10.8 cm W x 15.2 cm D) (Depth excludes connectors.) | |
| Regulatory compliance | Safety: CE, c-UL, UL EMI/EMC: CE, C-tick, FCC Class A, ICES, VCCI | |
| Warranty | 3 years parts and labor | |
| NOTE: All nominal levels are at ±10%. | | |
| Model | Version Description | Part number |
| DSC HD-HD | HDMI to HDMI Scaler | 60-1489-01 |
| RSU 129 | 1U 9.5" Deep Universal Rack Shelf, Gray | 60-190-01 |
| RSB 129 | 1U 9.5" Deep Basic Rack Shelf, Gray | 60-604-02 |
| MBU 125 | 1U, 1/2 Rack Width Low-Profile Mount Kit | 70-077-01 |

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

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