

IMPORTANT:
Go to www.extron.com for the complete user guide, installation instructions, and specifications before connecting the product to the power source.

DVC RGB-HD A • Setup Guide

The Extron DVC RGB-HD A is a one VGA input, one HDMI output converter that digitizes analog RGBHV video to HDMI, with analog stereo audio embedding. It accepts resolutions from 640x480 up to 1080p @ 60 Hz and 1920x1200 @ 60 Hz with reduced blanking. A USB port allows for system configuration and firmware updates using Extron Simple Instruction Set (SIS) commands or PCS Product Configuration Software. The DVC RGB-HD A allows the adaptation or integration of legacy VGA products into an all-digital audio-video system. It features a dual-purpose signal presence and power LED for troubleshooting, as well as field upgradable firmware.

Installation

ATTENTION:

- Installation and service must be performed by authorized personnel only.
- L'installation et l'entretien doivent être effectués par le personnel autorisé uniquement.

NOTE: For full installation, configuration, connector wiring, and SIS commands, see the *DVC RGB-HD 4K A User Guide*, available at www.extron.com.

Front Panel

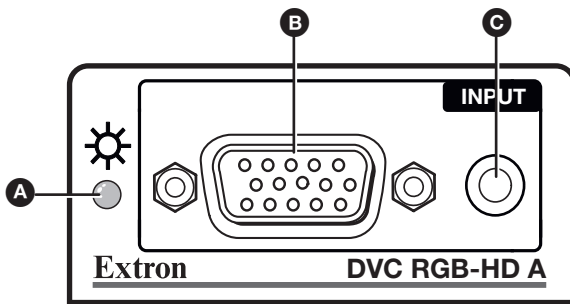


Figure 1. DVC RGB-HD A Front Panel

- A Power and signal status LED** — This bi-color LED lights as follows:
 - **Amber** while the unit is powered by a 12 VDC external power supply
 - **Green** when the DVC detects horizontal sync on the input
- B VGA input** — Connect an RGBHV input, such as a computer, to this 15-pin VGA connector (a male-to-male, 15-pin mini VGA cable is provided for this connection). The DVC digitizes and converts the RGB input signal to DVI or HDMI format.
- C Audio input** — Connect an analog audio input to this 3.5 mm TRS jack. The analog audio input can be embedded onto the TMDS output. TMDS output with embedded analog audio (HDMI RGB Full 4:4:4) is default.

Rear Panel

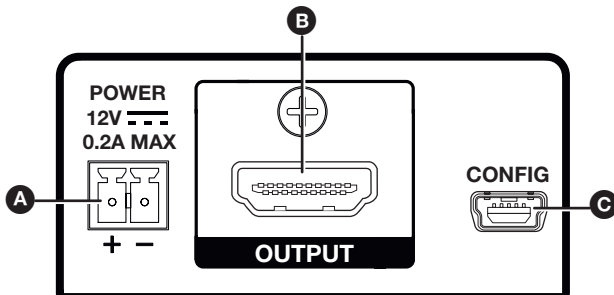
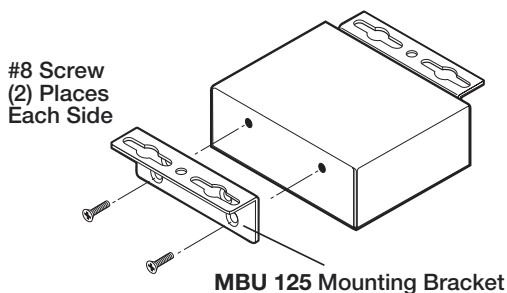


Figure 2. DVC RGB-HD A Rear Panel

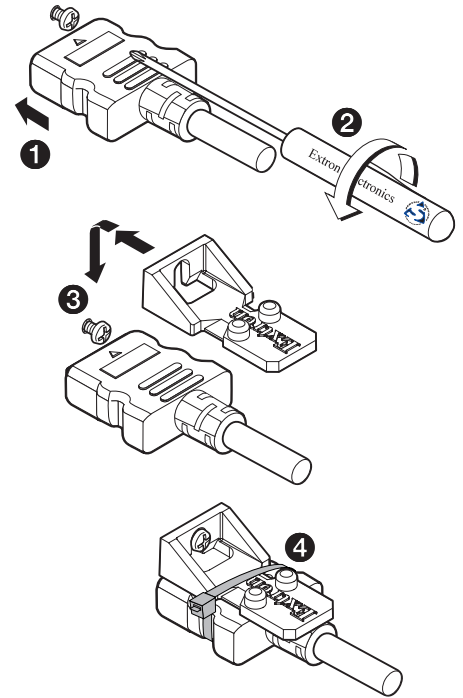
- A Power connector** — Connect a 12 VDC power supply (not included) between this 2-pole, 3.5 mm captive screw connector and a 100 to 240 VAC, 50 Hz or 60 Hz power source.
- B HDMI output connector** — Connect an HDMI sink to this female HDMI connector.
 - **No input signal** — When there is no input signal present, this connector does not output TMDS data or clock activity.
 - **Output 5 V mode** — This mode is configurable via SIS commands (see the *DVC RGB-HD A User Guide* for information on these commands). Select either of the following for the 5 V mode:
 - **Always enabled** (default) — The 5 V pin is always active, regardless of the input status. This enables the unit to detect hot-plug assertion and read the EDID from a connected sink.
 - **Auto** — 5 V output is active only when a source is connected to the input. If no source is connected the 5 V output is disabled.
- C Config port** — Use a USB A-to-mini B cable to connect this port to a USB port on the computer.

Mounting the DVC RGB-HD under Furniture



Installation Overview

- 1. Disconnect power** — Turn off or disconnect all equipment power sources.
- 2. (Optional) Mount the unit** — Mount the DVC RGB-HD A either in a rack using a shelf mounting bracket kit (see the instructions provided with the kit) or under furniture using a furniture mounting kit (see [Mounting the DVC RGB-HD under Furniture](#) on page 1). Extron mounting kits are available at www.extron.com.
- 3. Connect the input** — Connect an RGBHV source to the front panel VGA input connector (see [figure 1, B](#), on the previous page).
- 4. (Optional) Connect the audio input** — Connect analog audio to the 3.5 mm TRS jack on the front panel ([C](#)).
- 5. Connect the digital output** — Connect a digital sink to the rear panel HDMI output connector (see [figure 2, B](#), on the previous page).
- 6. Connect a PC** — Connect a computer to the rear panel USB Config port ([C](#)) to configure the converter via SIS commands or the PCS Configuration Software, available at www.extron.com (see the *DVC RGB-HD A User Guide*, also available on the Extron website, to download the PCS software). If the product firmware needs an update, connect the PC to the USB config port and use the Extron Firmware Loader software, available at www.extron.com, to update the firmware.
- 7. Connect power to the DVC** — Connect a 12 VDC power supply (not included) to the rear panel 2-pole captive screw power connector ([A](#)). The DVC can also share power with another Extron product that has an external 12V power supply.
- 8. Configure the unit** — Configure the DVC RGB-HD A as needed, using SIS commands (see the *DVC RGB-HD A User Guide*) or the PCS software (see the program help file).

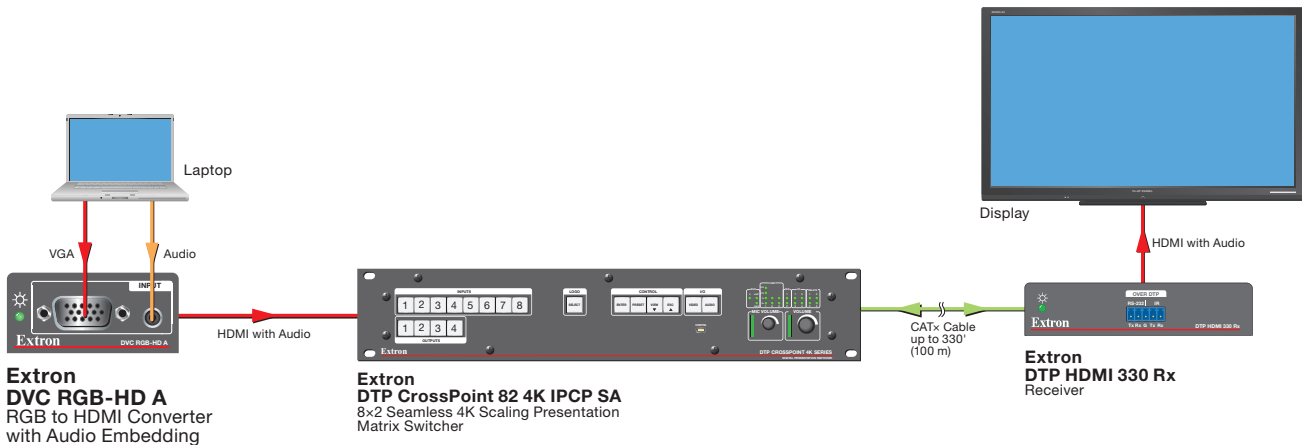


Using the LockIt Cable Lacing Bracket

After connecting an input or output device to an HDMI connector, secure the connector in place with the provided LockIt bracket as follows (see the illustration at right):

- 1.** Plug the HDMI cable into the panel connection (**1**).
- 2.** Loosen the HDMI connection mounting screw from the panel enough to allow the LockIt lacing bracket to be placed over it (**2**).
- 3.** Place the LockIt lacing bracket onto the screw and slide it up against the HDMI connector. Tighten the screw to secure the bracket (**3**).
- 4.** Loosely place the included tie wrap around the HDMI connector and LockIt lacing bracket (**4**).
- 5.** While holding the connector securely against the lacing bracket, tighten the tie wrap, then remove any excess length.

Application Diagram



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