

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

DSC HD-HD • Setup Guide

The Extron DSC HD-HD is an HDCP-compliant HDMI-to-HDMI Scaler that converts between HDMI resolutions and frame rates. It accepts video from 480i up to 1920x1200, 1080p, and 2K, and performs upscaling and downscaling with multiple output rates up to 1920x1200, including HDTV 1080p/60 and 2K. It includes an on-screen display, test patterns, and EDID Minder®.

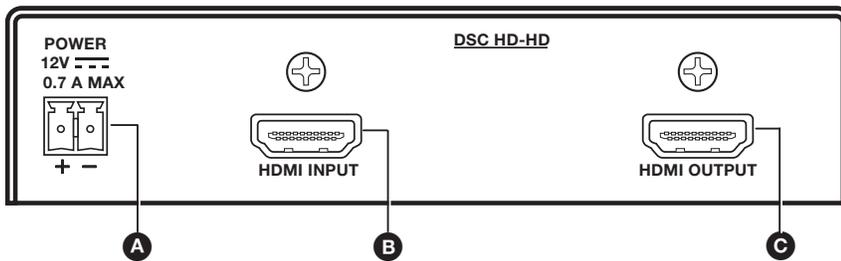
NOTE: For full installation, configuration, menus, connector wiring, and operation details, see the *DSC HD-HD User Guide*, available at www.extron.com

Installation

ATTENTION:

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

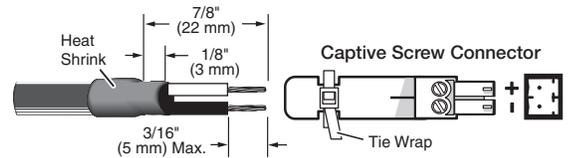
Rear Panel Features



- **A** Power connector
- **B** HDMI input connector
- **C** HDMI output connector

Mounting and Cabling

1. Turn off or disconnect power from all equipment.
2. Rack or furniture mount the DSC unit with either a shelf mounting bracket kit or an under-furniture or through-furniture mounting kit, following the directions provided with the kit. An optional rack false face plate (RFF 052) can be fitted on top of the low profile DSC, improving the overall look within the rack.
3. Connect an HDMI video source to the rear panel HDMI Input connector (B).
4. Connect an HDMI display device to the HDMI Output connector (C).
5. Connect a USB type A-to mini B cable from a host computer or control system to the front panel USB Config port (B on the front panel illustration on page 2) for configuration, control, and updates via the Extron PCS Configuration software.
6. Connect a 12 VDC, 1A power source into this 2-pole captive screw connector (A).



Locking the Front Panel (Executive Mode)

To prevent unauthorized access or accidental changes to DSC settings, you can lock the front panel controls, making control available only by SIS commands. (The default state is unlocked.) You can lock and unlock the front panel as follows:

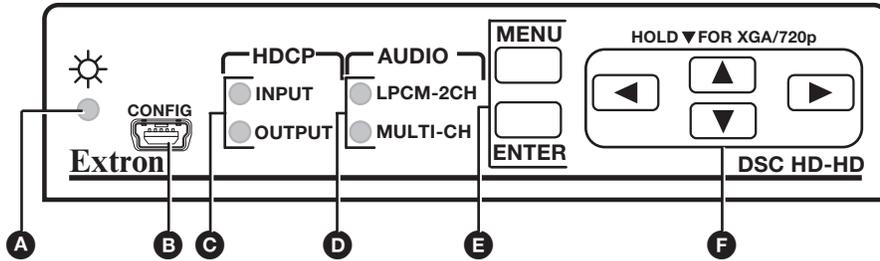
- **Using the front panel buttons:** To **lock**, press the Menu and ▼ buttons simultaneously and hold them until the OSD displays Executive Mode Enabled (approximately 5 seconds). To **unlock**, repeat this process.
- **SIS commands:** To lock (enable executive mode), enter 1X. To unlock (disable executive mode), enter ØX.

Output Scaler Rates

You can set the output rates using the OSD Output menu. To view and select the available output resolutions and rates on the OSD, select Output Resolution from the Output menu. Press the ◀ and ▶ buttons to show the available resolutions and the ▼ and ▲ buttons to show the refresh rates. See the *DSC HD-HD User Guide* (available at www.extron.com) for the full output scaler rate details.

DSC HD-HD • Setup Guide (Continued)

Front Panel Overview



A Status LED	<ul style="list-style-type: none"> • Lit steadily amber: Power but no signal • Lit steadily green: Both power and input signal present • Off: No power or signal
B USB configuration port	Mini USB B port for computer connection for device configuration, control, and updates
C HDCP LEDs	INPUT: <ul style="list-style-type: none"> • Lit: Encrypted input signal • Off: Unencrypted signal or no active signal OUTPUT: <ul style="list-style-type: none"> • Lit: Encrypted output video signal. • Off: Unencrypted output signal or no display device connected
D Audio LEDs	LPCM-2CH: <ul style="list-style-type: none"> • Lit: Embedded LPCM two-channel audio detected • Off: No signal, a signal with no embedded audio, or multi-channel audio detected MULTI-CH: <ul style="list-style-type: none"> • Lit: Embedded multi-channel (three or more channels) or bitstream (non-PCM) audio embedded • Off: No signal, signal with no embedded audio, or two-channel audio embedded
E Menu and Enter buttons	Access the OSD and select submenus and options from menus
F Navigation arrow buttons	Step through the OSD submenus, to lock the front panel (see the next section), and reset the output rate (hold ▼ for 5 seconds).

Configuring the DSC HD-HD

- **On-screen display (OSD):** The OSD menu system consists of three menus and an information screen. To access these menus, connect an HDMI or DVI display device to the scaler HDMI Output connector, and press the front panel Menu button. With the main menu displayed, use the arrow buttons to step through the menus and menu options. Press the Enter button to select items that you highlight. The menus are Input, Output, and Advanced. The Device Info screen is read-only.

NOTE: The OSD times out and closes after 1 minute if no buttons are pressed.

- **Extron Product Configuration Software (PCS):** To configure the unit using the PCS Configuration Software for DSC HD-HD, download the software from www.extron.com and connect it to the DSC via the front panel USB config port. Installation creates a folder named:
 - C:\Program Files\Extron\Extron PCS (Windows XP) or
 - C:\Program Files(x86)\Extron\Extron PCS (Windows 7),
and installs the program, a help file, and an uninstall utility. After installation, start the program and connect via the USB port. For full instructions press <F1> or select **Help** from the **Device** menu.
- **Simple Instruction Set™ (SIS) commands:** Some DSC HD-HD configuration is available via the USB connection by entering SIS commands in Extron DataViewer or other command interface (see the *DSC HD-HD User Guide* at www.extron.com for more information).

Extron Electronics
DSC HD-HD FW: 1.00

Input	Film Detect Off
Output	H <input checked="" type="checkbox"/> Active <input checked="" type="checkbox"/> V 1280* *720
Advanced	HDCP Authorized On
Device Info	Aspect Ratio Fill
	Input EDID C2: 1280x720 @60Hz
	Capture Output EDID C1: 1920x1080 @60Hz [SAM]

Input Resolution
720p @29.97Hz
Output Resolution
720p @60Hz

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