

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

The Extron SW HD 4K PLUS are six and eight input HDMI switchers that support 4K video signals at 60 Hz. They switch 4K/60 signals between multiple HDMI source devices to a single display. The switchers support computer and video resolutions up to 4K/60 and 1080p/60, data rates up to 18 Gbps, HDR, 12-bit Deep Color, 3D, Lip Sync, and HD lossless audio formats. Both models feature EDID Minder®, which maintains continuous EDID communication with connected devices and ensures that the HDMI sources power up properly and maintain correct video output. The switchers also provide automatic input cable equalization up to 25 feet (7.6 meters) when used with Extron HDMI Pro Series cable.

The SW HD 4K PLUS Series offers control via front panel buttons, USB, Extron Product Control Software (PCS), Ethernet, RS-232, contact closure, and auto-input switching for integration with any control system. Front panel LED indicators provide immediate confirmation of HDCP authentication and signal presence for each input and output.

This guide provides instructions for an experienced installer to set up and operate these switchers. For full installation, configuration, and operation details, see the *SW HD 4K PLUS Series User Guide*, available at www.extron.com.

Rear Panel Features and Connections



- A** Power connector
- B** HDMI Input connectors
- C** HDMI Output connector
- D** +V connector (for tally voltage output)
- E** RS-232 connector
- F** LAN (Ethernet) connector
- G** Contact closure input and tally output ports
- H** Reset button

Figure 1. SW6 and SW8 HD 4K PLUS Rear Panel

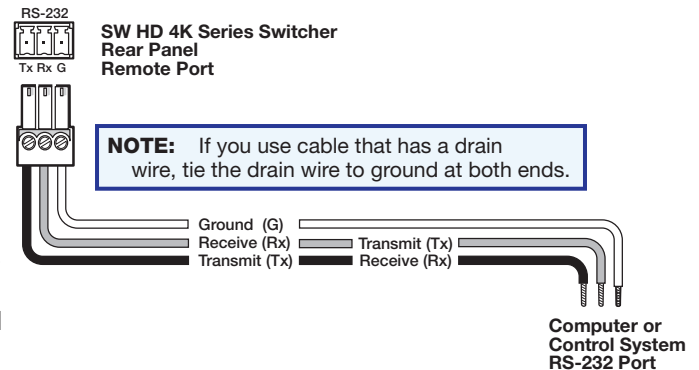
Installation Steps

1. **Turn off all of the equipment** and disconnect it from the power source.
2. **Mount the switcher** on a rack shelf or furniture (optional). (See the instructions provided with the mounting kit, which can be ordered at www.extron.com).
3. **Connect HDMI input sources** to one or more of the SW HD 4K PLUS input connectors (see figure 1, **B**).

NOTE: LockIt® cable lacing brackets, one for each HDMI input and output connector, are provided with the SW HD 4K PLUS. These brackets can be used to secure the HDMI cables to the rear panel connectors to reduce stress on the HDMI connectors and prevent signal loss due to loose cable connections. For information on attaching the LockIt brackets, see the LockIt HDMI Lacing Bracket instructions in the *SW HD 4K PLUS Series User Guide*, available at www.extron.com.

SW6 and SW8 HD 4K PLUS • Setup Guide (Continued)

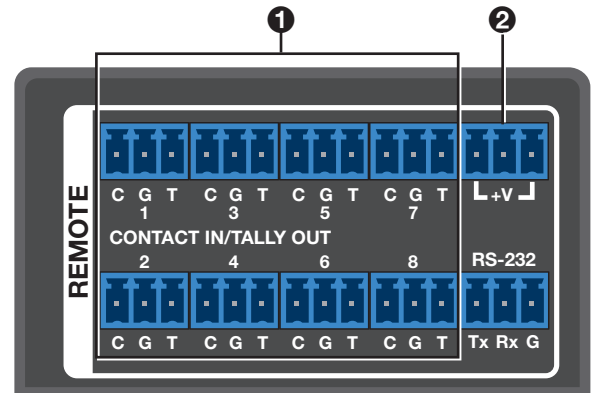
4. **Connect an HDMI output device** to the output connector (see [figure 1, C](#), on the previous page). By default, the EDID of this device is stored at the HDMI output.
5. **Connect control devices.** Connect your computer to one of the following SW HD 4K PLUS communication ports to configure and control the switcher via SIS commands or via PCS (Config and LAN ports only):



- **RS-232 port** — Connect the unterminated transmit, receive, and ground wires of the RS-232 cable to the provided 3-pole captive screw plug, as shown in the illustration at right. Connect the plug between the rear panel RS-232 connector ([E](#)), and the serial port of your computer. Protocol for the RS-232 port is 9600 baud, 8 data bits, 1 stop bit, no parity.
 - **Config port** — Connect a USB mini-B cable between the front panel USB mini-B connector (see [figure 2, B](#), on page 3) and a USB port on your computer for control via USB.
 - **LAN port** — Use an RJ-45 cable to connect this jack (see [figure 1, F](#)) to a LAN for Ethernet control of the switcher.
6. **(Optional) Connect contact closure and indicator devices.** The REMOTE panel on the SW6 and SW8 models contains six (SW6) or eight (SW8) 3-pole captive screw connectors, each with three pins labeled C, G, and T, for contact closure and tally indicator devices. The panel also contains a 3-pole captive screw connector with three +V pins that provide power to the indicator devices connected to the tally (T) ports (see [2](#) in the illustration below right).

Each 3-pole connector is labeled with the number of the HDMI input associated with it. Wire devices to these connectors as follows:

- a. Connect contact input and tally output devices to one or more of the 3-pole CONTACT IN/TALLY OUT connectors (see [1](#) in the illustration at right), as desired:
 - To enable input switching via contact closure, connect a push-button contact closure input device to pins C (contact) and G (ground).
 - To identify the currently selected input when the front panel buttons are not visible, connect an indicator device, such as an LED, to tally output pin T of the same 3-pole connector.



When the input you are using is selected, the corresponding tally out pin shorts to ground, which activates the connected indicator.

- b. If desired, attach the power wires for your connected indicator devices to any of the three ports of the +V connector ([2](#)).

NOTE: You need to connect the indicator LED to the voltage output if you want to power the device for visual feedback. However, only the contact and ground connections are needed to select an input.

Pressing the button on the contact closure device switches the connected input to the output.

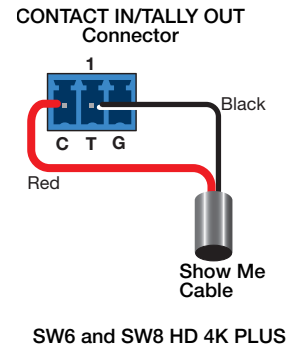
Using a Show Me® cable:

The Contact and Tally connectors can also be used with Extron Show Me cables. The diagram at right shows how to wire a Show Me cable to a contact input.

For each Show Me cable:

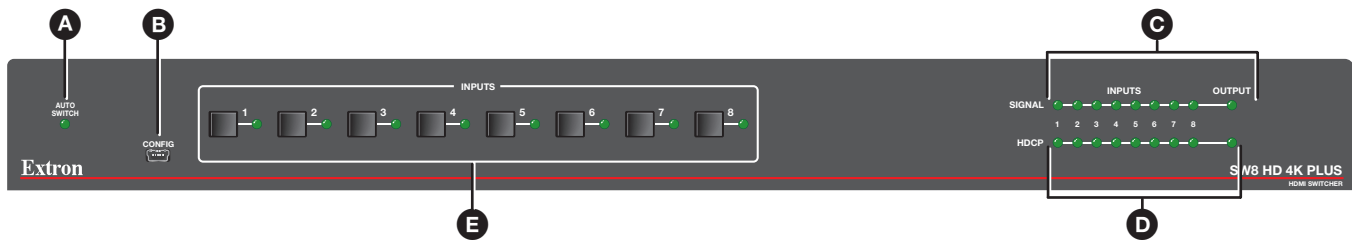
- Connect the **red** pigtail to the **C** pin corresponding to the input being used.
- Connect the **black** pigtail to the **T** pin of the same input.

NOTE: The ground or drain wire on the Show Me cable is not used here. You can tie it back and shield it.



7. Connect the rear panel IEC power connector to an AC source (see [figure 1](#), [A](#), on page 1).
8. Power on the output display.
9. Power on the source devices.

Front Panel Features



- A AUTO SWITCH LED**
- B USB CONFIG port**
- C SIGNAL LEDs**
- D HDCP LEDs**
- E Input selection buttons**

Figure 2. SW6 and SW8 HD 4K PLUS Front Panels

NOTE: The SW6 front panel is identical to that of the SW8 except that it has six input buttons, Signal LEDs, and HDCP LEDs.

- A AUTO SWITCH LED** — Lights when auto-input switching is in effect. When auto-input switching is enabled, the switcher automatically switches to the highest-numbered input with an active video signal.
- B USB CONFIG port** — Connect a USB cable (USB A to mini-B) between your computer and this female USB mini-B port to configure and control the switcher via SIS commands or PCS, and to update the firmware.
- C SIGNAL LEDs** — The LEDs labeled INPUTS each light when the corresponding input is connected to a device that has power. The LED labeled OUTPUT lights when the output is connected to a device that has power.
- D HDCP LEDs**
 - **Input LEDs** — Light if the connected sources are HDCP encrypted and have been authenticated by the switcher inputs.

NOTE: If the source device connected to the selected input is HDCP encrypted (requires HDCP authentication), the corresponding signal LED may not light unless HDCP has been authenticated.

- **Output LED** — Lights when the currently selected input requires HDCP and the connected output device has been successfully authenticated.

NOTE: HDCP is re-authenticated on the output whenever a new input is selected.

E Input selection buttons — Press one of these buttons to select an input to switch to the output. The LED at the right of each button lights when the corresponding input is selected. If auto-input switching is in effect, these buttons are disabled, but the LEDs continue to light to indicate the selected input. The input buttons are also used to initiate a system reset and to enable and disable front panel lockout (see the *SW HD 4K PLUS Series User Guide* for more information).