The Extron SW HD 4K PLUS Series HDMI switchers with Ethernet control provide signal switching between multiple HDMI source devices to a single display. The switchers support video signals at resolutions up to 4K/60 with 4:4:4 color sampling and data rates up to 18 Gbps. The SW HD 4K PLUS Series offers integrator-friendly features that ensure reliable operation in professional AV applications.

- Switches HDMI video and embedded multi-channel digital audio signals
- Available with two, four, six or eight inputs
- Supports computer and video resolutions up to 4K/60 @ 4:4:4
- HDCP 2.2 compliant
- Supported HDMI 2.0b specification features include data rates up to 18 Gbps, HDR, Deep Color up to 12 bit, 3D, and HD lossless audio formats
- Ethernet monitoring and control
- EDID Minder® automatically manages EDID communication between connected devices
- Automatic input cable equalization to 25 feet (7.6 meters) when used with Extron HDMI Pro Series cable
- Compatible with TeamWork® Show Me® Cables
The Extron SW HD 4K PLUS Series HDMI switchers support 4K/60 with 4:4:4 color sampling. Available in sizes from two- to eight-inputs, the SW HD 4K PLUS Series switches are HDCP compliant and support data rates up to 18 Gbps, HDR, 12-bit Deep Color, 3D, and HD lossless audio formats. The SW HD 4K PLUS Series is easy to operate using the front panel controls or auto-switching. Ethernet, RS-232, and contact closure ports provide ample options for integration with any control system. All 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 switches provide automatic input cable equalization up to 25 feet (7.6 meters) on Extron HDMI Pro Series cable.

To enhance and simplify integration, the SW HD 4K PLUS Series provides integrator-friendly features, including automatic input cable equalization, automatic color bit depth management, indicators for monitoring and troubleshooting, as well as peripheral device power on the output. Automatic input cable equalization corrects for signal loss due to lengthy input cables, ensuring signal integrity up to 25 feet (7.6 meters), when used with Extron HDMI Pro Series cable. The SW HD 4K PLUS Series automatically adjusts color bit depth based on the display EDID, preventing color compatibility conflicts between source and display. Front panel LED indicators provide immediate visual confirmation of HDCP authentication and signal presence for each input and output. If HDCP-encrypted content is transmitted to a non-compliant display, a full-screen green signal provides immediate visual confirmation that protected content cannot be viewed on that display. The SW HD 4K PLUS Series also provides +5 VDC, 250 mA on the HDMI output for powering peripheral devices such as an Extron HD 4K 101 Plus cable equalizer.

The SW HD 4K PLUS Series two and four-input models are housed in 1U, half rack width enclosures that are suitable for mounting in a rack or under a table. The six and eight-input models are housed in a 1U, full rack width enclosures and come standard with brackets for mounting in a rack.

**APPLICATION DIAGRAM**

**DESCRIPTION**

- Supports computer and video resolutions up to 4K/60 @ 4:4:4
- Available with two, four, six or eight inputs
- HDCP 2.2 compliant
- Supported HDMI 2.0b specification features include data rates up to 18 Gbps, HDR, Deep Color up to 12 bit, 3D, and HD lossless audio formats.
- Ethernet monitoring and control – Enables control and proactive monitoring over a LAN or WAN.
- Support for HDR – High Dynamic Range video – Enables greater contrast range and wider color gamut by providing the necessary video bandwidth, color depth, and metadata interchange capability for HDR video.
- EDID Minder® automatically manages EDID communication between connected devices – EDID Minder ensures that all sources power up properly and reliably output content for display.
- Automatic input cable equalization to 25 feet (7.6 meters) when used with Extron HDMI Pro Series cable
- User-selectable HDCP authorization – Allows individual inputs to appear HDCP compliant or non-HDCP compliant to the connected source, which is beneficial if the source automatically encrypts all content when connected to an HDCP-compliant device. Protected material is not passed in non-HDCP mode.
- HDCP Visual Confirmation provides a green signal when encrypted content is sent to a non-compliant display – A full screen green signal is sent when HDCP encrypted content is transmitted to a non HDCP compliant display, providing immediate visual confirmation that protected content cannot be viewed on the display.
- HDCP authentication and signal presence LED indicators
- Automatic color bit depth management – The switcher automatically adjusts color bit depth based on the display EDID, preventing color compatibility conflicts between source and display.
- HDMI to DVI Interface Format Correction – Automatically reformats HDMI signals for output to a connected DVI display.
- Provides +5 VDC, 250 mA power on the output for external peripheral devices
- Front panel USB configuration port
- Easy setup and commissioning with Extron’s PCS – Product Configuration Software
- Front panel security lockout
- Auto-input switching – Automatically switches to the highest-numbered input with an active video signal or to an active input based on a configured priority
- Contact closure remote control with tally output – Allows for remote selection of an input channel. +5 VDC is provided to light an LED to indicate the currently selected input.
- Compatible with TeamWork Show Me Cables – Show Me cables provide convenient connectivity and user input selection and control for TeamWork Collaboration Systems.
- Extron EverLast Power Supply is covered by a 7-year parts and labor warranty

**KEY FEATURES**

- Show Me Cables offer convenient connectivity and user input selection and control for Teamwork Collaboration Systems.
- EDID Minder ensures that all sources power up properly and reliably output content for display.
- Automatic input cable equalization to 25 feet (7.6 meters) when used with Extron HDMI Pro Series cable.
- Provided +5 VDC, 250 mA power on the output for external peripheral devices.
- Front panel USB configuration port.
- Easy setup and commissioning with Extron’s PCS – Product Configuration Software.
- Front panel security lockout.
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## True4K Specifications

### Max 4K Capabilities

<table>
<thead>
<tr>
<th>Resolution and Refresh Rate</th>
<th>Chroma Sampling</th>
<th>Max Bit Depth per Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>4096 x 2160 at 60 Hz</td>
<td>4:4:4</td>
<td>8 bit</td>
</tr>
<tr>
<td>3840 x 2160 at 60 Hz</td>
<td>4:4:4</td>
<td>8 bit</td>
</tr>
<tr>
<td>4096 x 2160 at 30 Hz</td>
<td>4:2:0</td>
<td>12 bit</td>
</tr>
<tr>
<td>3840 x 2160 at 30 Hz</td>
<td>4:2:0</td>
<td>12 bit</td>
</tr>
</tbody>
</table>

Frame rate: 24, 25, 30, 50, or 60 fps

Chroma sampling: 4:4:4, 4:2:2, or 4:2:0

Color bit depth: 8, 10, 12 bits per color

Signal type: HDMI 2.0a, HDCP 2.2

Max. video data rate: 18 Gbps (6 Gbps per color)

**NOTE:** Subject to the maximum data rate limit. Use our calculator at www.extron.com/4Kdatarate to determine video parameters supported by this data rate.

### Video

- **Maximum data rate:** 18 Gbps (6 Gbps per color)
- **Maximum pixel clock:** 600 MHz
- **Resolution:** Up to 1280 x 1080 or 1080p @ 60 Hz, 12-bit color
- **4K (4096x2160) @ 60 Hz:** 4:4:4 color space, 8-bit color
- **UHD (3840 x 2160) @ 60 Hz:** 4:4:4 color space, 8-bit color

### VIDEO INPUT

- **Number/signal type:** 2, 4, 6, or 8 (depending on model) single link HDMI (or DVI*)
- **Connectors:** 2, 4, 6, or 8 female HDMI type A

### COMMUNICATION

- **Serial control port:** 1 RS-232, 3.5 mm, 3 pole captive screw connector
- **Pin configuration:** V+ = D+, V- = D-, GND = GND
- **Baud rate and protocol:** 9600 baud, 8 data bits, 1 stop bit, no parity
- **USB control port:** 1 female mini USB B on front panel
- **USB standards:** USB 2.0, low speed
- **Ethernet data rate:** 10/100Base-T, half/full duplex, with auto detect
- **Ethernet protocol:** ARP, ICMP, ping, TCP, DHCP, HTTP, SMTP, Telnet
- **Program control:** Extron control/configuration program for Windows®

### Optional Accessories

**Model** | **Version Description** | **Part number**
---|---|---
HD-Pro Series | HDMI Premium High Speed Optical Cables - Plenum | 26-726-xx
HD Pro Series | Premium High Speed, High Speed, and Standard HDMI Cables | 26-650-xx
HD Ultra Series | Ultra Flexible Premium High Speed and High Speed HDMI Cables | 26-663-xx
HD 4K 101 Plus | HDMI Cable Equalizer for 4K/60 Sources | 60-1621-01
UTS 100 | Series Under Table Shelf System | 70-1028-xx
MBU 123 | Low-Profile Mount Kit for 1/8, 1/4, and 1/2 Rack Width Products | 70-212-01
MBU 149 | Low-Profile Mount Kit for Full Rack Width, Four-Piece Enclosures | 70-222-01
RSB 129 | Basic Rack Shelf for 9.5” Deep Products | 60-604-xx
Half Rack Shelf | Half-Rack Width Rack Shelf and Accessories | 60-1251-xx
ZipClip 100 | Mounting Kit for PS Series Power Supplies | 101-002-01

For complete specifications, please go to www.extron.com

Specifications are subject to change without notice.