Extron

USB-C HD 101 • User Guide

The Extron USB-C HD 101 is a USB-C to HDMI interface that provides up to 60 watts of charging power to the USB-C source device. It supports USB-C Alt Mode video resolutions up to 4K/60 with HDCP 2.3 for use by any AV device equipped with an HDMI input.

FCC Class A Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. The Class A limits provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference. This interference must be corrected at the expense of the user.

> **NOTE:**   For more information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the "**Extron Safety and Regulatory Compliance Guide**" on the Extron website.

Features

- **Provides interface between USB-C® equipped sources that support DisplayPort Alt Mode and HDMI displays and peripherals**
- **Power Delivery —** Provides up to 60 watts of charging power to the USB-C source
- **Supports computer and video resolutions up to 4K/60 @ 4:4:4 with data rates up to 18 Gbps**
- **HDCP compliant —** HDCP 2.3 and HDCP 1.4 pass through
- **Extron Everlast™ Power Supply —** Comes equipped with an energy efficient 100-240 VAC, 50 to 60 Hz, internal universal power supply.
- **Passes EDID information from HDMI display to the source**
- **LED indicators for power, power delivery, and signal presence** — Provides visual indication of system status for real-time feedback and monitoring of key performance parameters
- **Two-piece 1/4 rack wide, 1U high, and 3 inch deep rack-mountable enclosure.**
- **Includes ZipClip 200® mounting accessory**
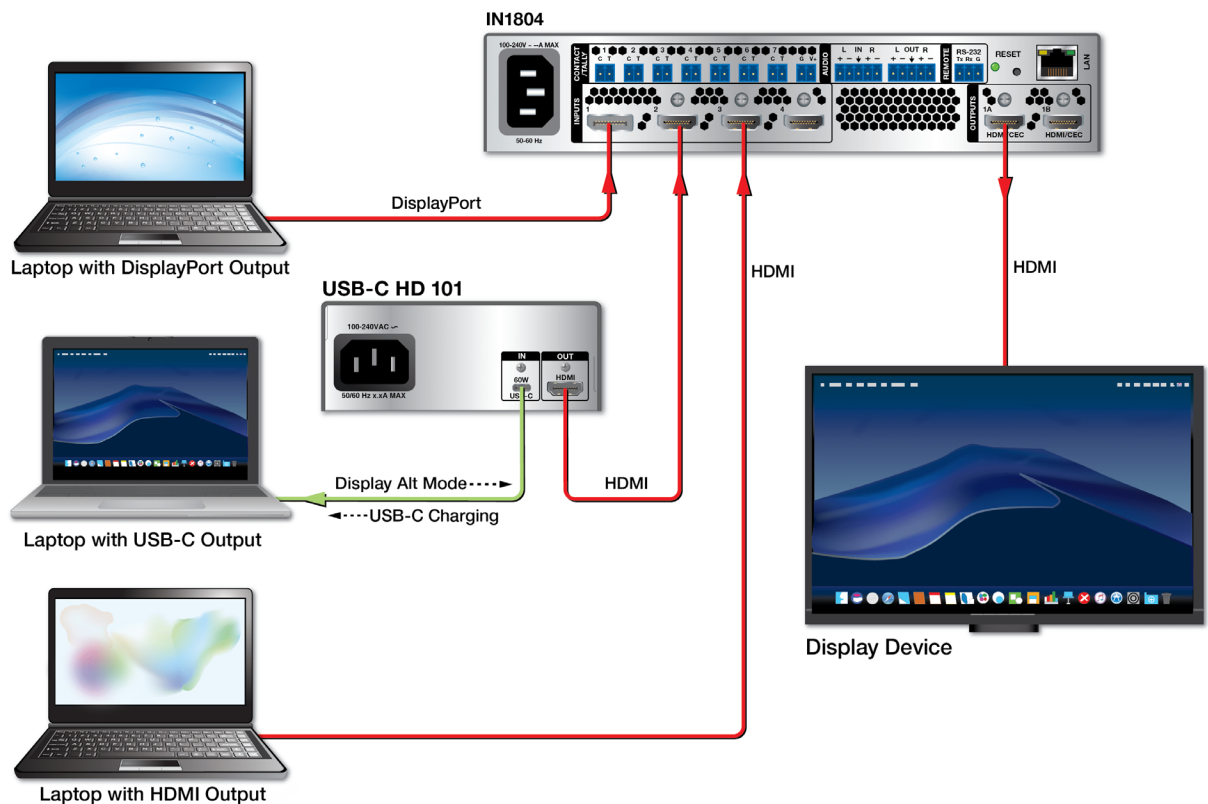- **Includes LockIt® HDMI cable lacing brackets**

Application Diagram

Figure 1. USB-C HD 101 Application Diagram
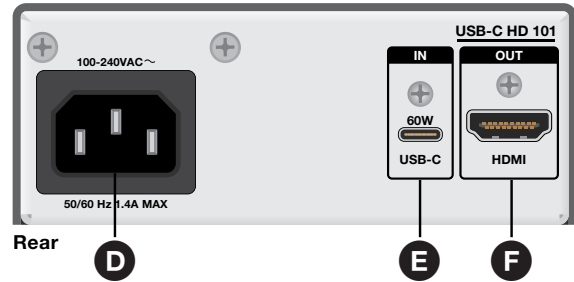
UL Rack Mounting Guidelines

The following Underwriters Laboratories (UL) guidelines pertain to the safe installation in a rack:

1. **Elevated operating ambient temperature** — If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, install in an environment compatible with the maximun ambient temperature (Tma = + 122 *F, + 50 *C) specified by Extron.

2. **Reduced air flow** — Install the equiptment in a rack so that the amount of air flow required for safe operation of the equiptment is not compromised.

3. **Mechanical loading** — Mount the equiptment in the rack so that a hazardous condition is not achieved due to uneven mechanical loading.

4. **Circut overloading** — Connect the equiptment to the supply circut and consider the effect the circut overloading might have on an overcurrent protection and supply wiring. Appropriate consideration of equiptment nameplate ratings should be used when addressing this concern.

5. **Reliable earthing (grounding)** — Maintain reliable grounding of rack-mounted equiptment. Pay particular attention to supply connections other than direct connections to the branch circut (such as use of power strips).

LED Indicators and Rear Cabling

Figure 2. USB-C HD 101 - LED Indicators

Figure 3. USB-C HD 101 - Rear Panel Ports

Ⓐ **Power LED** — Indicates power to the unit.

Ⓑ **Power Delivery LED** — Indicates power delivery from the USB-C input (Ⓔ) to the USB-C source device.

Ⓒ **SIGNAL LED** — Indicates signal detection from the USB-C input.

Ⓓ **AC Power Input** — Connect the AC Power Cord to the AC Power input.

ATTENTION:

- Always use a power supply supplied by or specified by Extron. Use of an unauthorized power supply voids all regulatory compliance certification and may cause damage to the supply and the end product.

- Unless otherwise stated, the AC/DC adapters are not suitable for use in air handling spaces or in wall cavities. The power supply is to be located within the same vicinity as the Extron AV processing equipment in an ordinary location, Pollution Degree 2, secured to the equipment rack within the dedicated closet, podium, or desk.

- The installation must always be in accordance with the applicable provisions of National Electrical Code ANSI/NFPA 70, article 725 and the Canadian Electrical Code part 1, section 16. The power supply shall not be permanently fixed to building structure or similar structure.

- Utilisez toujours une source d'alimentation fournie par Extron. L'utilisation d'une source d'alimentation non autorisée annule toute conformité réglementaire et peut endommager la source d'alimentation ainsi que l'unité.

- Sauf mention contraire, les adaptateurs AC/DC ne sont pas appropriés pour une utilisation dans les espaces d'aération ou dans les cavités murales. La source d'alimentation doit être située à proximité de l'équipement de traitement audiovisuel dans un endroit ordinaire, avec un degré 2 de pollution, fixé à un équipement de rack à l'intérieur d'un placard, d'une estrade, ou d'un bureau.

- Cette installation doit toujours être en accord avec les mesures qui s'applique au National Electrical Code ANSI/NFPA 70, article 725, et au Canadian Electrical Code, partie 1, section 16. La source d'alimentation ne devra pas être fixée de façon permanente à une structure de bâtiment ou à une structure similaire.

Ⓔ **USB-C Input** — Connect a USB-C source device to the USB-C input.
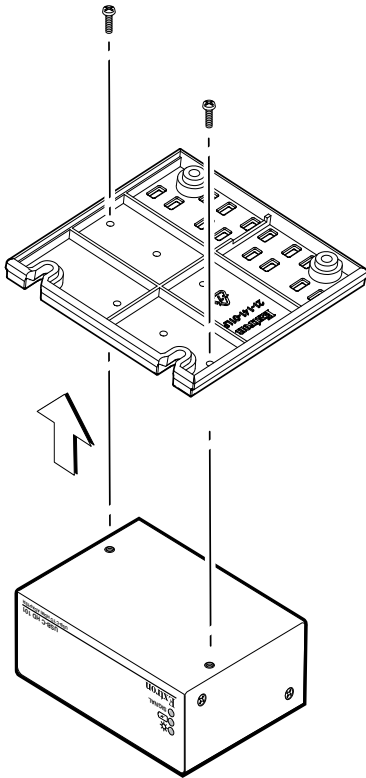

NOTE: The USB-C port provides up to 60W of power to a connected source device. Some USB-C sources may not be able to be powered via USB-C. Check the specific source specification or manual for more information. If the source requires greater than 60W of power, the source may still be able to be powered, may not power, or may charge slowly.

Ⓕ **HDMI Output** — Connect an HDMI output device to the HDMI output.

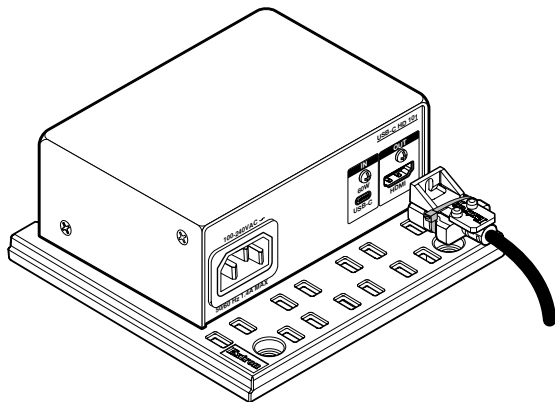**NOTE:** Extron recommends using HDMI Pro Series cables for 4K/UHD signals.

ZipClip 200 and ZipCaddy 200 Mounting Installation

1. Mount the USB-C HD 101 to the ZipCaddy 200. Two screws attach the plate to the bottom of the unit. The mounting holes on the USB-C align with the mounting holes on the plate.
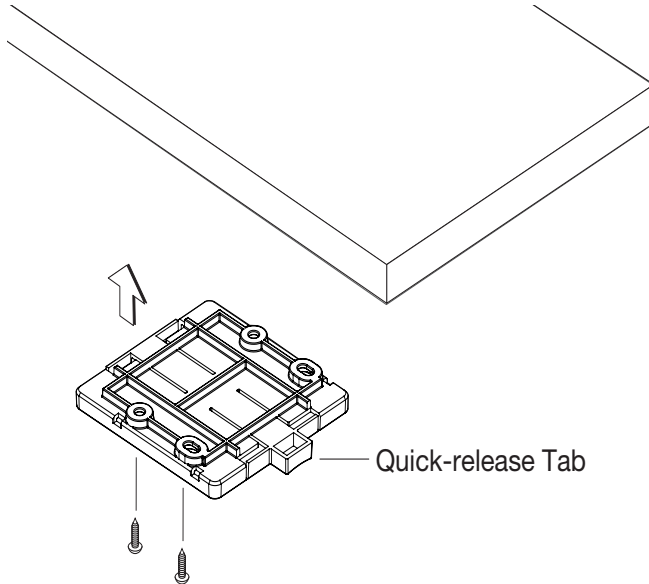

Figure 4.   **Mounting USB-C HD 101**

2. Use LockIt Lacing Brackets to secure the cables to the USB-C HD 101 unit and provide strain relief.
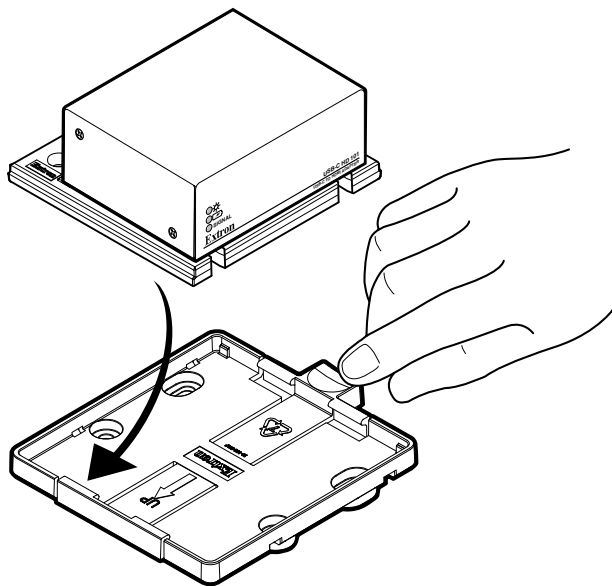

Figure 5.   **Securing Cables**

3. The ZipClip 200 can attach to an under-desk mounting surface or to a rack rail using the four included mounting screws.

Quick-release Tab

Figure 6. Under-desk Mounting

The caddy-mounted USB-C HD 101 can now be quickly and conveniently attached and detached from the mounting location, via the quick-release tab.

Figure 7. Easy Attach and Release

LockIt Lacing Bracket

Use the LockIt Lacing Bracket to securely fasten both the USB-C and HDMI cables to the device as follows:

❶ Plug the cable into the rear panel port.

❷ Loosen the connection mounting screw from the panel, enough to allow the LockIt lacing bracket to be placed over it. The screw does not need to be removed.

❸ Place the LockIt lacing bracket on the screw and against the connector. Then, tighten the screw to secure the bracket.

> **ATTENTION:**
> - Do not overtighten the connector mounting screw. The shield it fastens to is very thin and can easily be stripped.
> - Ne serrez pas trop la vis de montage du connecteur. Le blindage auquel elle est attachée est très fin et peut facilement être dénudé.

❹ Loosely place the included tie wrap around the connector and the LockIt lacing bracket as shown.

❺ While holding the connector securely against the lacing bracket, use pliers or similar tool to tighten the tie wrap. Then, remove any excess length.
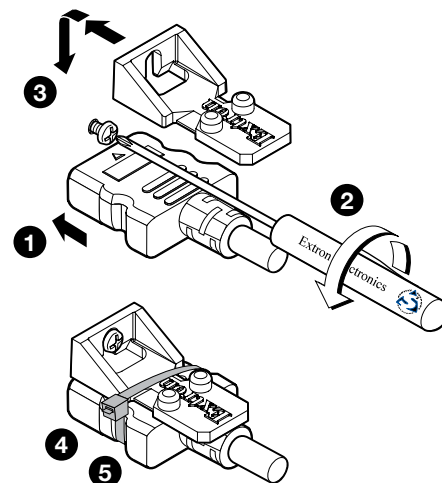
Figure 8. Lockit Bracket Installation

Specifications

Product specifications are available on the Extron website, **www.extron.com**.

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