

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

The Extron DTP2 T 212 is a two input HDMI switcher with two simultaneous outputs for 4K video signals. The DTP2 T 212 extends signals 330 feet (100 meters) and features two HDMI inputs, one local HDMI output, and one TP output. The TP output extends digital video and audio, remote power, analog audio, and bidirectional RS-232 and IR. The switcher also features EDID Minder®, which maintains continuous EDID communication with connected devices and ensures the HDMI sources power up properly and maintains correct video output, and Key Minder to manage HDCP®. The switcher supports computer and video resolutions up to 2560x1600 @ 60 Hz and 4K UHD @ 60 Hz 4:4:4, with a maximum data rate of 18.0 Gbps and HDCP 2.2. This guide provides instructions for an experienced installer to set up and operate this switcher.

The diagram below shows a typical application for a DTP2 T 212 switcher. For full installation, configuration, and operation details, see the *DTP2 T 212 User Guide*, available at www.extron.com.

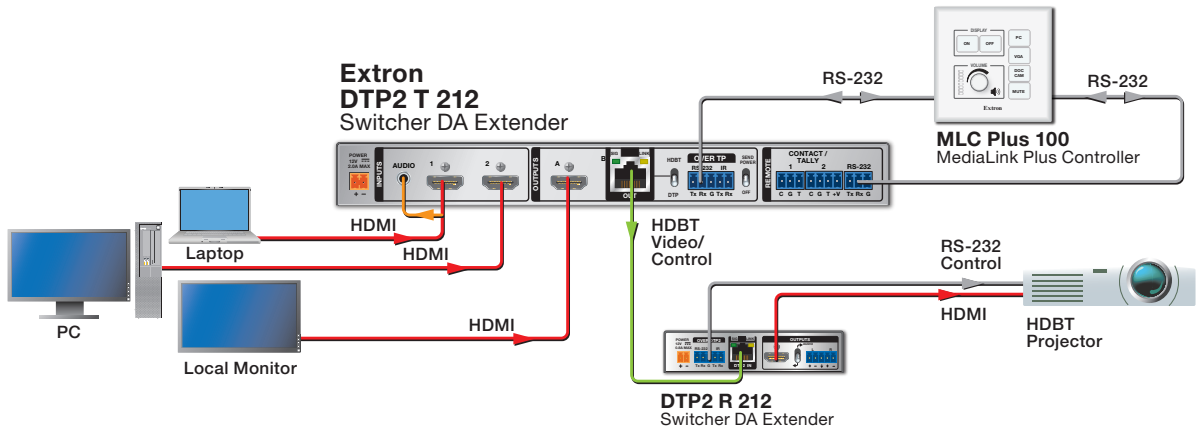


Figure 1. Application Diagram of the DTP2 T 212

Rear Panel Features and Connections

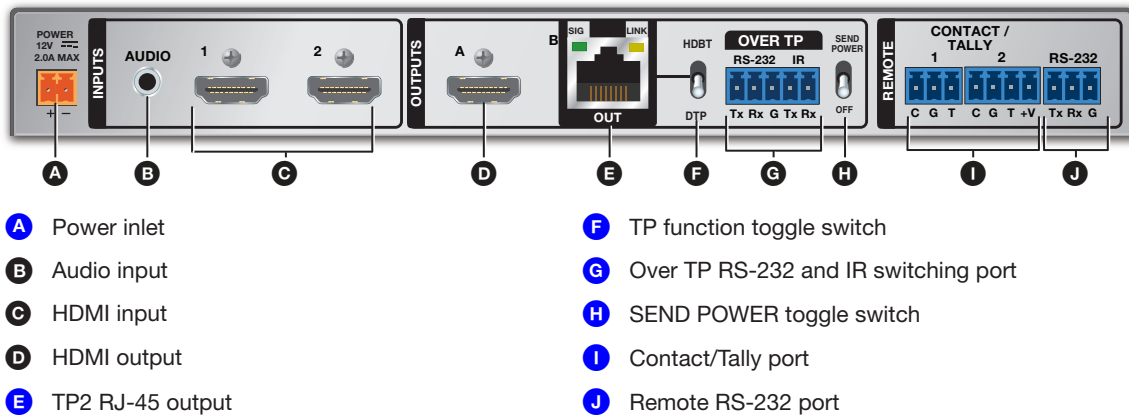


Figure 2. DTP2 T 212 Rear Panel

Installation Steps

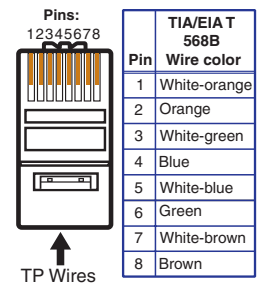
1. Turn off and disconnect all of the equipment from their power sources.
2. Mount the switcher on a rack shelf or furniture (optional).
3. Connect HDMI input sources to one or both of the HDMI inputs (see figure 1, **C**).

NOTE: Use provided LockIt lacing brackets to secure the HDMI cables to the ports to reduce stress on the HDMI connectors and prevent signal loss due to loose cable connections (see [LockIt Lacing Brackets](#) on page 3).

4. Connect an HDMI device to the HDMI output (**D**). By default, the EDID of this device is stored at the HDMI output.
5. Connect an unbalanced stereo audio source to the 3.5 mm mini stereo input (**B**) for analog audio input (optional). Analog audio input can be configured to be embedded in the HDMI signal or transmitted separately. It is available for either selected input.

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6. **Connect an RJ-45 DTP or HDBT receiving device** to the output (see [figure 2](#), **E** on the previous page) for either DTP or HDBT mode (see image to the right to properly wire the RJ-45 connector).
- If the receiver is in the **Extron DTP2 series**, set the **DTP/HDBT toggle switch (F)** to **DTP** and the **SEND POWER switch (H)** to the **UP (SEND POWER)** position. **On the receiver, set the SEND POWER switch to the DOWN (OFF) position.**
 - If the receiver is in the **Extron Legacy DTP series**, set the **DTP/HDBT toggle switch (F)** to **DTP** and the **SEND POWER switch (H)** to the **DOWN (OFF)** position.
 - If the receiver is **HDBaseT enabled**, set the **DTP/HDBT toggle switch (F)** to **HDBT**, and the **SEND POWER switch (H)** to the **DOWN (OFF)** position.



ATTENTION:

- Position these toggle switches (see [figure 2](#), **F** and **H**) **BEFORE** connecting the appropriate device to the TP connector. Failure to comply can damage the endpoint.
- Positionnez ces sélecteurs (voir [figure 2](#), **F** et **H**) **AVANT** de connecter l'appareil approprié au connecteur TP. Ne pas respecter cette procédure pourrait endommager le point de connexion.
- The DTP2 T 212 is configured to output power to **DTP2 models only**. If connected to a **Legacy DTP or HDBT device**, set the SEND POWER toggle switch to the "DOWN" position (OFF). Failure to turn the power OFF will damage the connected Legacy DTP device.
- Le DTP2 T 212 est configuré pour fournir une alimentation aux modèles DTP2 uniquement. S'il est connecté à un autre appareil, veuillez positionner l'interrupteur à bascule sur « DOWN » (OFF). Si l'interrupteur n'est pas positionné sur OFF, vous risquez d'entraîner la défaillance de l'appareil Legacy DTP connecté.

NOTE: When the output is configured for **DTP mode**, remote power is available for Extron **DTP2** devices only. When the output is configured for **HDBT mode**, remote power is disabled and both the switching transmitter and receiver require their own 12 VDC power supply.

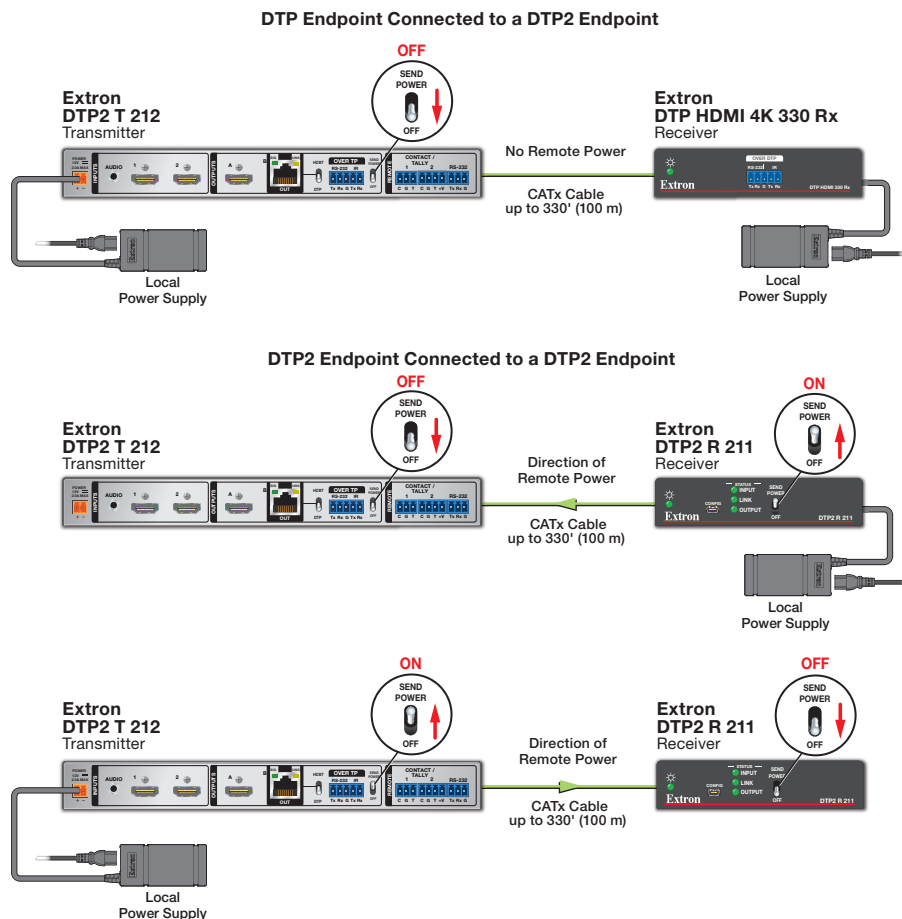
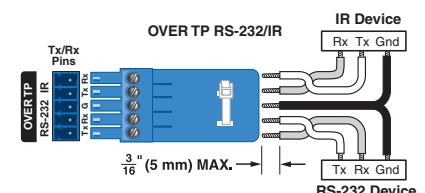


Figure 3. Send Power Toggle Switch Configuration

7. **Connect Over TP RS-232 and IR control.** Connect a serial RS-232 signal, a modulated IR signal, or both into this 3.5 mm, 5-pole captive screw port (**G**) for IR and bidirectional RS-232 communication (see wiring diagram on the right).



8. **Connect control devices.** Connect your computer to one of the following communication ports to configure and control the switcher via SIS commands or Product Configuration Software (PCS):

- **RS-232 port** — Connect the unterminated transmit, receive, and ground wires of the RS-232 cable to the three pins on the provided 3-pole captive screw connector, as shown in the diagram on the right. Insert the connector into the rear panel Remote port (1), and the other end of the cable into your computer serial port. Protocol for the RS-232 port:

- 9600 baud
- 8 data bits
- no parity

- **Config port** — Connect a USB mini-B cable to the front panel USB port (see figure 5, C, on the next page) for USB control.

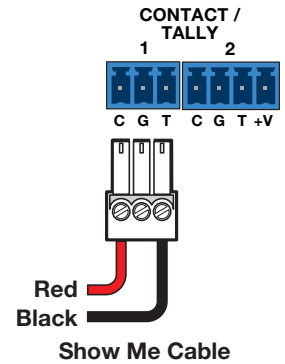
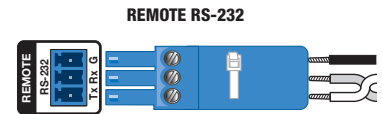
9. **Connect a contact closure device** (optional). Connect a push-button contact closure device to a Contact port (see figure 2, 1, on page 1) to enable input switching via contact closure.

- a. Wire and plug one of the provided blue, 3.5 mm, 3-pole connectors into a Contact/Tally port representing input 1 or input 2 on the DTP2 T 212.

- **C** = Contact closure input
- **G** = Contact and Tally Ground
- **T** = Tally output

- b. Press the button on the contact closure device to switch the connected input to the output.

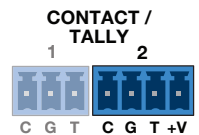
TIP: The Contact and Tally ports can be used with Extron Show Me cables. For each cable, connect the red wire to the Contact Closure pin and the black wire to the Tally Out pin (see diagram on the right).



10. **Connect an indicator device to the Tally Out port** (optional). To identify the currently selected input when the front panel buttons are not visible, connect a device such as an LED to the Contact/Tally port (figure 2, 1). When the input you are using is selected, the corresponding tally out pin shorts to ground, which activates the connected indicator.

Wire and connect one of the provided blue, 3.5 mm, 4-pole connectors into a Contact In/Tally Out port.

- **C** = Contact closure input
- **G** = Contact and Tally Ground
- **T** = Tally output
- **+V** = +5 VDC (Insert the power wire for the contact indicator device into the +V port.)



11. If necessary, wire a 2-pole captive screw connector to your power supply as shown in figure 4 (see figure 2, A on page 1).

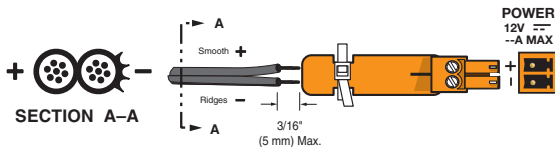


Figure 4. Wiring the Power Connector

CAUTION: The DC output cables must be kept separate from each other while the power supply is plugged in. Remove power before wiring.

ATTENTION : Les câbles de sortie CC doivent être séparés les uns des autres tant que la source d'alimentation est branchée. Coupez l'alimentation avant d'effectuer un raccordement.

ATTENTION:

- Do not connect any external power supplies until you have read the Attention notifications in the Power Supply section of the DTP2 T/R 211 User Guide.
- Ne branchez pas de sources d'alimentation externes avant d'avoir lu les mises en garde dans la section « Power Supply » du DTP2 T/R 211 User Guide.

12. Power on the output display.

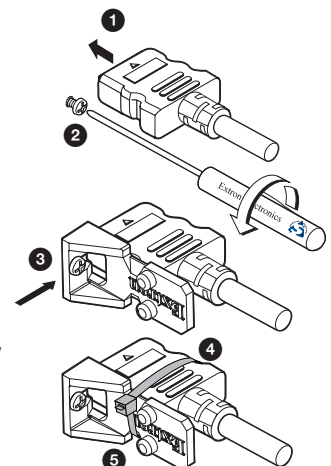
13. Connect power to the switcher.

14. Power on the source devices.

LockIt Lacing Brackets

Use the included LockIt Lacing Brackets to securely fasten the HDMI cables to each device as follows.

- 1 Plug the HDMI cable into the rear panel connection.
- 2 Loosen the HDMI connection mounting screw from the panel enough to allow the LockIt lacing bracket to be placed over it. The screw does not have to be removed.
- 3 Place the LockIt lacing bracket on the screw and against the HDMI connector, then tighten the screw to secure the bracket.



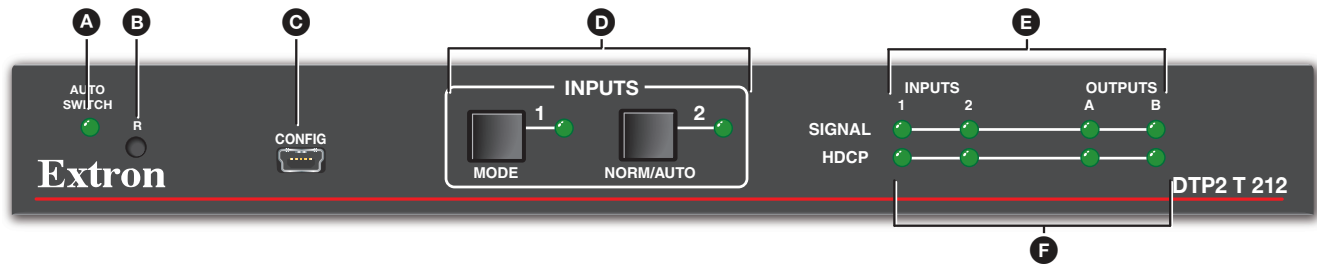
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ATTENTION:

- Do not overtighten the HDMI 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 HDMI. Le blindage auquel elle est attachée est très fin et peut facilement être dénudé.

- Loosely place the included tie wrap around the HDMI connector and the LockIt lacing bracket as shown.
- While holding the connector securely against the lacing bracket, use pliers or similar tools to tighten the tie wrap, then remove any excess length.

Front Panel Features



- | | | |
|--------------------------|---|---|
| A Auto Switch LED | C USB Config port | E Inputs and Outputs Signal LEDs |
| B Reset Button | D Input selection buttons and LEDs | F Inputs and Outputs HDCP LEDs |

Figure 5. DTP2 T 212 Front Panel

- A Auto Switch LED** — Lights when Auto Switch is enabled.
- B Reset button** — Press and hold the reset button for 3 seconds while operating the unit to reset back to factory default.
- C USB Config port** — Connect a USB A to mini-B cable 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.
- D Inputs selection buttons and LEDs** — 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.

To enable or disable Auto-Switch mode via the front panel, press and hold the **Input 1** button for 3 seconds, then press and release the **Input 2** button to toggle between Normal and Auto Switch.

- E Inputs and Outputs LEDs**
 - **Inputs** — Light when a source is connected to the corresponding input and TMDS clock activity is detected.
 - **Outputs** — Light when active sink devices are connected to the HDMI and TP outputs.
- F Inputs and Outputs HDCP LEDs**
 - **Inputs** — 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.

- **Outputs** — Light 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.

NOTE: All front panel LEDs will flash three times simultaneously to indicate enabling or disabling of Executive Mode, which will lock out front panel input buttons when enabled via PCS or SIS commands.

For 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.