

# DTP DVI 301 • Setup Guide

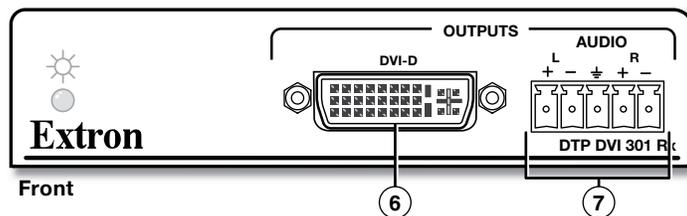
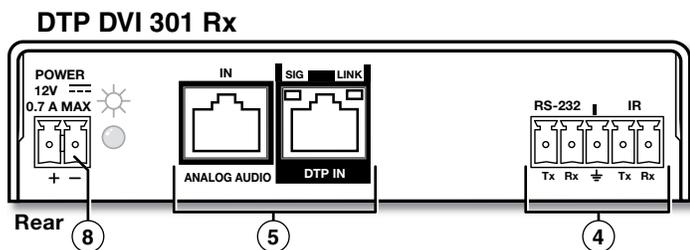
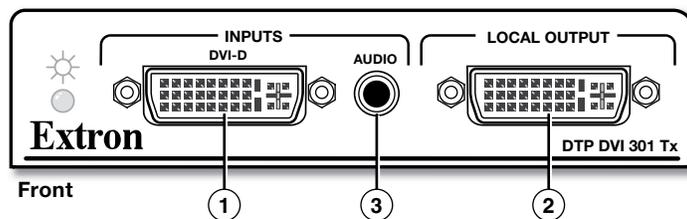
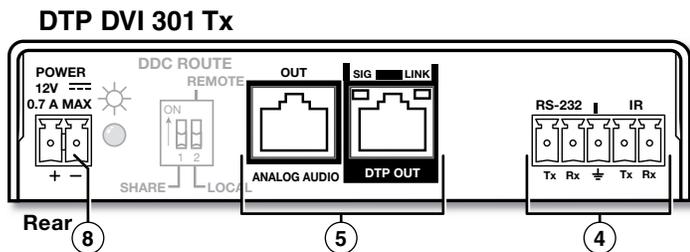
This guide provides quick start instructions for an experienced installer to set up and operate the Extron DTP DVI 301 digital video extender. The DTP 301 transmitter and receiver pair can extend a DVI signal up to 330 feet (100 m).

**IMPORTANT:**  
Refer to [www.extron.com](http://www.extron.com) for the complete user guide and installation instructions before connecting the product to the power source.

## Installation

### Step 1 — Mounting

Turn off or disconnect all equipment power sources and mount the Tx and Rx units as required.



### Step 2 — Connections

- ① **DVI Input connector (Tx)** — Connect a DVI cable between this port and the DVI output port of the digital video source.
- ② **Local Output connector (Rx)** — If desired, connect a DVI monitor for local monitoring of the input digital image.
- ③ **Audio input (Tx)** — Connect an unbalanced stereo audio source to this 3.5 mm mini stereo jack for an analog audio input.
- ④ **RS-232 and IR connectors** — To pass serial or infrared data or control signals, such as serial control of a projector, connect the master device to the transmitter and the slave device to the receiver via the RS-232 and IR captive screw connectors on both units.
- ⑤ **DTP and Analog Audio (Output and Input) RJ-45 connectors** — Connect one or two TP cables between these RJ-45 female connectors on the transmitter and receiver.
  - ⑤a **DTP connector (required)** — Connect transmitter DTP Out to receiver DTP In.

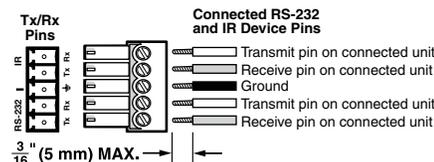
This cable carries:

- TMDS (digital) video
- Bidirectional RS-232 and IR commands and data
- Embedded audio
- Remote power

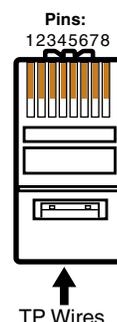
**Sig(nal) LED** — This LED lights when the unit is receiving a TMDS clock signal on the DVI input (transmitter) or any valid signal on the DTP In connector (receiver).

**Link LED** — This LED lights when a valid link is established between the units on the DTP cable.

- ⑤b **Analog Audio connector (optional)** — Connect transmitter Analog Audio Out to receiver Analog Audio In. This cable carries analog audio **only** and is not needed for applications that do not require this audio signal.



Pin	TIA/EIA T 568 A	TIA/EIA T 568 B
	Wire color	Wire color
1	White-green	White-orange
2	Green	Orange
3	White-orange	White-green
4	Blue	Blue
5	White-blue	White-blue
6	Orange	Green
7	White-brown	White-brown
8	Brown	Brown



Terminate all cable ends in accordance with the same standard, either TIA/EIA T 568 A or TIA/EIA T 568 B.

**CAUTION:** Do not connect these devices to a computer data or telecommunications network.

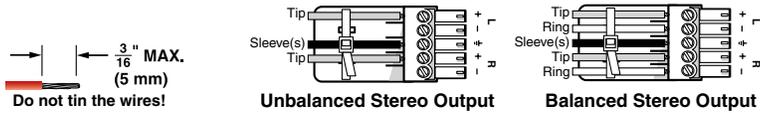
**NOTE:** You can check the DTP Out to DTP In cable connection as follows:

1. Plug a cable into the DTP jack on the powered unit.
2. Connect the opposite end of the cable into the DTP jack on the unpowered unit.

If the DTP Link LED and the Power LED on the unpowered unit are lit, the connection is correct.

# DTP DVI 301 • Setup Guide (Continued)

- ⑥ **DVI Output connector (Rx)** — Connect a display with a DVI input for display of the transmitted direct digital image.
- ⑦ **Audio Output connector (Rx)** — Connect a balanced or unbalanced stereo or mono audio device to the receiver via the Audio captive screw connector. See the drawing below.

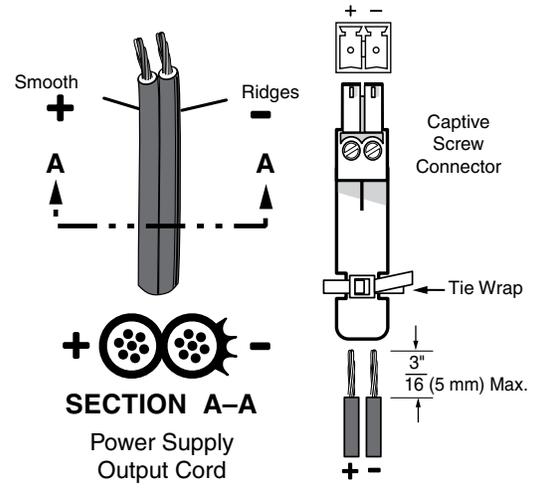


**CAUTION:** Connect the sleeves to the ground contact. **DO NOT** connect the sleeves to the negative (-) contacts.

- ⑧ **Power connector** — Connect an IEC power cord between the included 12 VDC power supply and a 100-240 VAC, 50-60 Hz source. Connect the power supply to either unit as shown at right.

**CAUTION:** This product is intended to be supplied by a Listed Power Unit marked "Class 2" or "LPS," rated 12 VDC, 1.0 A minimum. 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 installation must always be in accordance with the applicable provisions of National Electrical Code ANSI/NFPA 70, article 75 and the Canadian Electrical Code part 1, section 16. The power supply shall not be permanently fixed to a building structure or similar structure.

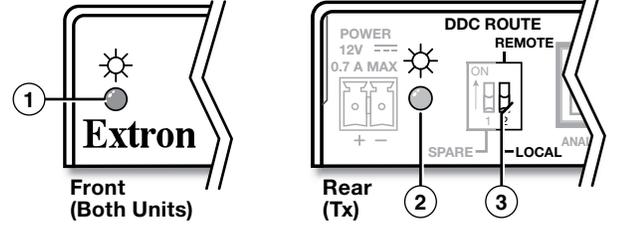
**NOTE:** Only one power supply is required. A single power supply connected to either unit in the pair powers both units. A power supply is included with each transmitter.



## Operation

After all devices are powered up, the system is fully operational. See the definitions of the power indications (shown at right), below:

- ① **Power LED (front panel)** —
  - Amber** — The unit is receiving power, either locally or remotely (on the DTP cable).
  - Green** — The unit is powered on and is receiving an active DVI signal, either on the DVI input if a transmitter, or transmitted on the DTP cable if a receiver.
- ② **Power LED (rear panel)** —
  - Amber** — The unit is receiving power remotely (on the DTP cable).
  - Green** — The unit is receiving power locally.
- ③ **DC Route switch** — This rear panel switch selects either the remote or local DVI display as the display data channel (DDC) reference for EDID and HDCP communication.



If any problems are encountered, verify that the cables are routed and connected properly. If your problems persist, call the Extron S3 Sales and Technical Support Hotline that is closest to you, at the number shown below.

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