

# TPT150 Switching Transmitter

## Description

The Extron TPS150 is a transmission system consisting of the TPT150 transmitter and the TPRI150 receiver. The transmitter switches and transmits RGB video, component video, S-video, and composite video to the receiver on **shielded twisted pair (STP)** or **foil shielded twisted pair (UTP)** cable. The user can program the transmitter's Input Select and Projector Power buttons with serial projector commands that are transmitted to the receiver, which then issues them to the projector. The transmitter switches and outputs the audio locally.

## Installation & Cabling

**1. Mounting** — If desired, remove the installed rubber feet, install the included rack ears, and mount the switcher in a standard 19" rack.

**2. Inputs 1 and 2** — Connect RGB video sources. If desired, connect a monitor to the Input 1 Local Monitor connector.

**Inputs 3 and 4** — Connect **either** component video, S-video, **or** composite video sources.

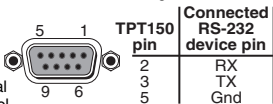
**NOTE** Connect only one format to each input.

**Audio input** — Connect audio devices to the input 1 - 4 left and right RCA connectors.

**3. Audio output** — Connect an audio device to the 3.8 mm, 5-pole captive screw connector for balanced or unbalanced audio output.

**CAUTION!** Incorrect audio connector wiring can damage the switcher. See *Captive Screw Audio Connections*, at right.

**4. RS-232 Port** — Connect a host device, such as a computer or touch panel control, to the transmitter via this 9-pin D connector and a null modem serial port cable for serial RS-232 control.



**Default:** 9600 baud, no parity, 8 data bits, 0 stop bits, Xoff, address 97.

**5. Contact Closure port** — If desired, connect an optional CTP150CM control panel module or other contact closure device to this 8-pin 3.5 mm captive screw connector. To make a contact closure device, wire the connector as silkscreened on the rear panel. To issue a command, momentarily short the appropriate pin to ground.

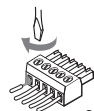
**6. UTP port** — Connect a TP cable with RJ-45 connectors between the transmitter and receiver. Ensure that **both** ends of the cable are terminated using the **same protocol**, either TIA/EIA 568 A or 568 B.

**CAUTION!** Do not connect this device to a computer data or telecommunications network.

**NOTE** Extron recommends the use of **STP** or **FTP** cable only.

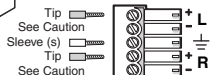
**7. Power** — Connect AC power and turn on the power switch.

## Captive Screw Audio Connections

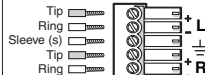


The switcher outputs audio on captive screw connectors. The examples below show two methods of wiring the captive screw audio connectors for output.

### Unbalanced



### Balanced



**CAUTION!** Do not connect the sleeves to either the + or - terminal. Wiring errors or plugging the audio connectors incorrectly can damage the audio output circuits.

## Operations

See the TPS150 manual to program the Input Select and Projector Power buttons and the projector power delays.

**Input selection** — Press and release an Input Select button. The Input Select LED lights to indicate the selected input. The transmitter outputs that input's connected video on the TP link, routes that input's audio on the transmitter's audio output connector, and issues the serial command (if programmed) for that input button to the receiver. Audio is **not** transmitted to the receiver.

**Video blank and audio mute** — Press and release the Blank button to toggle the video mute function on and off. Press and release the Mute button to toggle the audio mute function on and off. The Blank or Mute LED lights to indicate that the associated output (video or audio) is muted.

**Projector power on and off** — Press and release the Projector Power button to issue the power on or power off command. The Projector Power LED, when lit, indicates that the projector power is on. The LED blinks during the power on and off delay (if programmed).

**NOTE** Some projectors use the same command for power on and off. If the same code is specified for on and off, the Projector Power LED blinks for each button push.

**Audio output volume and audio input level** —

**Output volume** — Press and release the Volume ▲ or ▼ button to increase and decrease the **output volume**.

**Input level** — Press and **hold** the appropriate Input Select button while you press and release the Volume ▲ or ▼ button to increase and decrease the selected **input's audio level**.

**Full system reset** — Press and hold the transmitter's Volume ▲ and ▼ buttons while you apply power to the transmitter. Release the Volume buttons. A full system reset restores the I/O configurations, projector codes, volume levels, and serial port setup to the default settings.



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