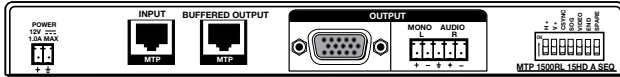# Setup Guide — MTP 1500RL 15HD A Series



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

This card provides basic instructions for an experienced installer to set up and operate any of the Extron® MTP 1500RL 15HD A series of mini twisted pair receivers; the MTP 1500RL 15HD A and the MTP 1500RL 15HD A SEQ (model shown above). For full details, refer to the *MTP 1500RL 15HD Series User's Manual*, available online at www.extron.com.

## Installation

### Step 1 — Mounting

Turn off or disconnect all equipment power sources and mount the MTP 1500RL 15HD receiver as required.

### Step 2 — Connect input

Connect the RJ-45 cable from an MTP transmitter to the Input port on the MTP 1500RL 15HD receiver. Terminate the cable as shown on the right, using the same standard (A or B) at both ends.
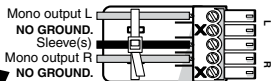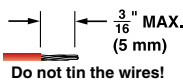
**Pins: 12345678**



Insert TP Wires

| Pin | T568A Wire color | T568B 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 |

**NOTE** *If you are using Enhanced Skew-Free™ A/V cable, use the TIA/EIA T568A standard only.*

### Step 3 — Connect outputs

Attach the applicable output cables (video, audio, and buffered output).

**a**. **High resolution video output —** Connect a suitable display device to the 15-pin HD connector (RGB).

**b**. **Audio connector —** Connect a suitable audio device to the 5-pole captive screw connector for mono audio output (as shown).

$\frac{3}{16}$ " MAX. (5 mm)

**Do not tin the wires!**

Mono output L
**NO GROUND.**
Sleeve(s)
Mono output R
**NO GROUND.**

**Unbalanced Output**

Mono output L+
Mono output L-
Sleeve(s)
Mono output R+
Mono output R-

**Balanced Output**

⚠ **CAUTION**
For unbalanced audio, connect the sleeve(s) to the center contact ground. **DO NOT** connect the sleeve(s) to the negative (-) contacts.

**c**. **Buffered output —** Connect up to 8 daisy-chained MTP receivers to this RJ-45 connector.

### Step 5 — Receiver DIP switches

• **H sync (H+) and V sync (V+) switches —** Set these switches up (ON) for positive sync or down for negative sync.

• **Composite Sync, (SOG), and Video switches —** Set these switches as shown in the table (below right) to output the indicated format.

• **End Unit switch —** Set this switch up if either of the following is true:

  **a**. The receiver being configured is the only receiver connected to the transmitter.

  **b**. The receiver being configured is the last receiver in a daisy-chained system.
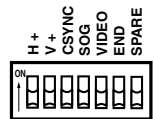


| Output Format | C Sync | SOG | Video |
|---------------|--------|-----|-------|
| RGBHV | ▼ | ▼ | ▼ |
| RGBS | ▲ | ▼ | ▼ |
| RGsB | ▼ | ▲ | ▼ |
| Component* | ▼ | ▼ | ▲ |
| S-video* | ▼ | ▼ | ▲ |
| Composite* | ▼ | ▼ | ▲ |

**(Continued on reverse side)**

*\* Input video format must match.*

## Step 4 — Power

Plug the included external 12 VDC power supply into the 2-pole captive screw connector. Wire the connector as shown.
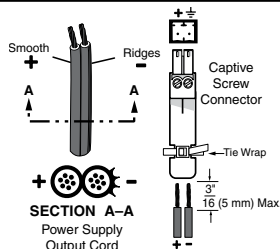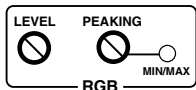
## Step 5 — Peaking and Level

Image sharpness is adjusted with the **Peaking control**. Increased peaking compensates for mid- and high-frequency detail loss. The LED lights red when minimum (zero) and maximum peaking is reached.

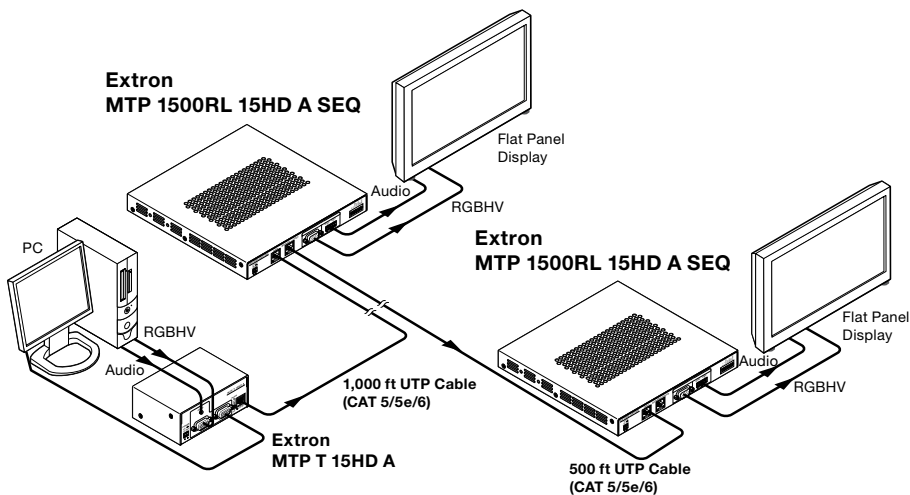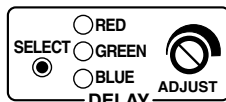Image brightness is adjusted using the **Level control.**

View the image and adjust the either control for the best image quality.

## Step 6 — Skew compensation (SEQ model only)

Pair skew can be measured with test equipment or by viewing a crosshatch test pattern. The SEQ receivers have built-in skew compensation capabilities. Adjust the equalization as follows:

a. **Zero the skew delay** for red, green, and blue by using a Tweeker or small screwdriver to press and **hold** the Select button for 3 seconds. When the Red, Green, and Blue LEDs all go out, release the Select button.

b. Use UTP cable test equipment or examine the displayed image to **determine which video signal**, red, green, or blue, **is shifted furthest to the left**.

c. **Adjust the furthest left video signal** by using a Tweeker or screwdriver to press and release the Select button until the LED for the left-shifted color lights.

d. *Slowly* rotate the Adjust control clockwise until the shifted color is properly aligned.

e. Repeat steps **6c** and **6d** to align the third color if needed**.**

**Extron
MTP 1500RL 15HD A SEQ**

Flat Panel Display

Audio

RGBHV

**Extron
MTP 1500RL 15HD A SEQ**

PC

Flat Panel Display

Audio

RGBHV

RGBHV

Audio

**1,000 ft UTP Cable
(CAT 5/5e/6)**

**Extron
MTP T 15HD A**

**500 ft UTP Cable
(CAT 5/5e/6)**

### *Example of a typical MTP 1500RL 15HD A SEQ application*