# RPR-110CR Presenter Receiver Quick Start Guide

Thank you for purchasing the Luxi Electronics® RPR-110CR Presenter® receiver. Please read through this manual before using the product.

How the product functions: Think of the daisy chain as the flow of a river; each transmitter (Tx) connects to a source device and loads the signal to the river flow; each receiver (Rx) unloads the signal from the river flow and sends it to the display it is connected to. The front panel and the RS-232 controls determine which source signal goes to which display.

System diagram:
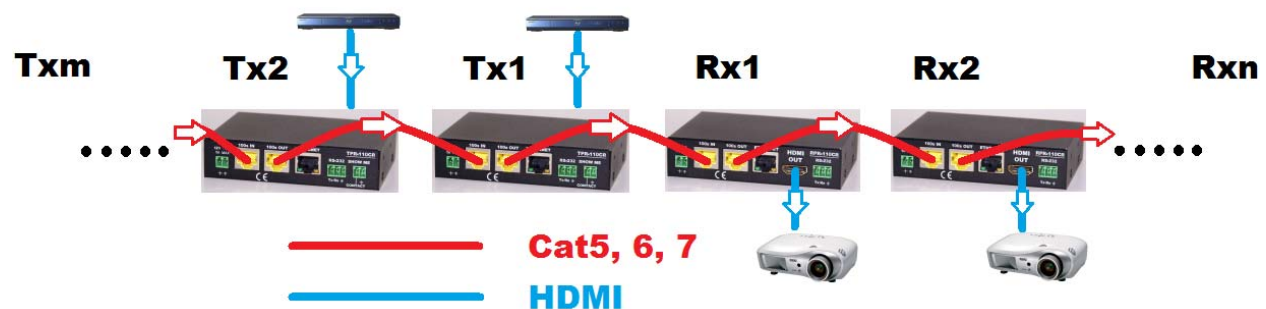
Power options: This product can draw power from other Presenter products in the chain or from an optional external power supply.

Captive screw plug termination: The captive screw plugs for power, RS-232 and contact controls are supplied with the unit. Separate the wires about 1" (2.5 cm) long; strip off the wire insulation precisely 3/16" (5 mm) from the end. Identify the positive and negative leads for power; Luxi power supply has a white stripe on the positive wire. If not sure, use a multi meter to verify.
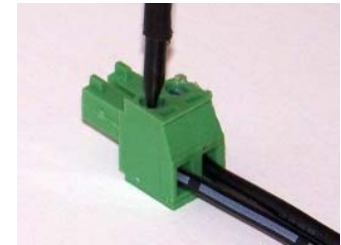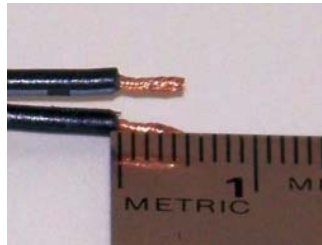
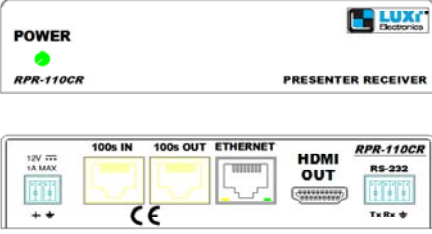**RJ45 plug termination:** Follow the standard EIA 568B pin out.
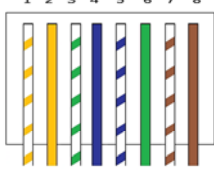
Control options: A RS-232 host connected to the rear panel can control all functions of every unit in the chain. Make sure both DIP switches recessed on the bottom side are in the down (off) position.

Ethernet port: For providing a system wide internet access. Be very careful NOT to plug the Ethernet cable into the yellow 100s connector or vice versa! Permanent damage may occur.

Front panel LED: Green = this Rx selected; Amber = this Rx not selected; Red = communication error

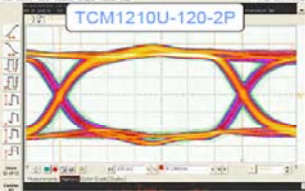**Minimum system:** One Tx and one Rx connected with a short Cat6 cable. Use the minimum system to test all devices and cables to be used in bigger systems first in order to isolate any potential problems.

Support: Please contact your reseller directly for local support; or Luxi using the contact info above. See Luxi website for RS-232 commands and user manuals.

Product Specifications	Part Number: 74-020-01
Presenter 110 series receiver	Model: RPR-110CR

Product Image	Product Drawing
Front	POWER RPR-110CR PRESENTER RECEIVER
Back	12V 1A MAX 100s IN 100s OUT ETHERNET HDMI OUT RPR-110CR RS-232 Tx Rx

Features and Benefits

> Patent pending, revolutionary products to replace the centralized switching and distribution
> Completely scalable; you can add more Tx or Rx boxes on the fly for expansion
> Only 1 Cat6 or Cat5 cable needed to connect the adjacent Presenter Tx or Rx; no more heavy clusters of cables; very easy cable pull and termination
> No compression; full 18 Gbps bandwidth; virtually no propagation delays
> Additional control devices can be inserted anywhere in the daisy chain via RS-232
> Signals can be transmitted to very long distances with multiple daisy-chained devices up to 110' (33 m) each span (e.g., 10 spans for up to 330 m)
> Ethernet port on every Presenter for convenient system wide internet access
> Remote power capability
> Rack mountable, under-table mountable, above-projector mountable metal enclosures

Package

One piece in one color cardboard box; with captive screw plugs and quick start guide
  no power supply

Box size: 6.0" x 4.8" x 1.1" (15.3 x 12.2 x 2.8 cm)
Weight: package, 0.63 lb (0.28kg); product, 0.49 lb (0.22kg)
36-pc box size: 15" x 13" x 8" (38 x 33 x 20 cm)
36-pc box weight: 24.5 lb (11 kg)

Connections

Input connectors: 1 HDMI, 1 daisy chain in, 1 Ethernet
Output connector: 1 daisy chain out
Power connector: 2-pin 3.5 mm captive screw receptacle
Control connectors: 1 RS-232, 1 Show Me

Other Related Products

Power supply, 100-240 V in on US plug, 12 V out, P/N 69-002-01

Under desk mount, P/N 78-002-01

Presenter transmitter, P/N 74-017-01, model RPR-110CR

Mechanical

Enclosure material: steel
Enclosure size: 4.29" x 1.00" x 3.00" (10.9 x 2.5 x 7.6 cm)

Electrical

HDMI signal output
  Maximum data rate: 9 Gbps (3 Gbps per color)
  Maximum pixel clock: 300 MHz
  Resolution range: Up to 1080p 48-bit @ 60 Hz, or 3D,
    or 4k @ 30 Hz
Daisy chain system
  Luxi proprietary format, digital video, audio, control, Ethernet and power, up to 12 Rx, up to 4 audio streams
  System cables: unshielded Cat6 550 MHz rated 23 AWG solid conductor cables recommended; Cat5, 5e, 6, 7 unshielded and shielded cables also usable
  Max distance between 2 adjacent devices: Typical 33 m (110') for WXGA/720p; 18 m (60') for 1080p (depends on source and display device performance and signal format)
RJ45 connector pin configuration: standard EIA 568B pinout

Electrical test results (1080p 24-bit 60 Hz results below)

Power: 12 V DC, 0.2 A from external power or other Presenter
Optional power supply:
  Auto switching 100-240 V AC input on US plug, 12 V DC 1 A max on bare wires, wall ward type, UL, PSE, CE, FCC
Mounting: Not included. Luxi under desk mount 78-002-01. compatible with Extron thru desk mount 70-077-02, rack shelf 60-604-21, 60-604-11, 60-604-02, above projector mount 70-217-01, 70-739-02, 70-734-01, 70-563-03 or equivalent Middle Atlantic models
Regulatory compliance
  Safety: CE, cUL, UL (power supply only)
  EMI/EMC: CE, FCC Class A
MTBF: 30,000 hours
Warranty: 3 years parts and labor