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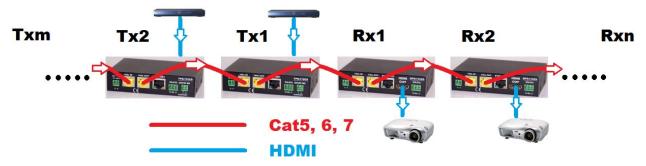
TPR-150CR Presenter® Transmitter Quick Start Guide



Thank you for purchasing the Luxi Electronics® TPR-150CR Presenter® transmitter. Please read through this guide before using the product.

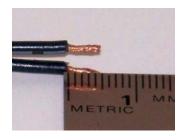
How the product functions: The TPR-150CR has 2 PCBs. The front PCB has the switcher and scaler; please refer to the "Video signal path" and "Audio signal path" sections in the right column of

the specs on page 4 for details. The rear PCB has the daisy chain circuits. 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.



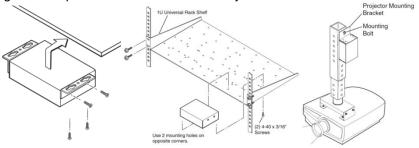
Power options: This product draws power from an external 12 V power supply sold separately (Luxi P/N 69-002-01). Do NOT plug the power supply connector into any other connectors; this could cause permanent damages to the product and void the warranty.

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.





Mounting options: Luxi has the under desk mount sold separately (Luxi P/N 78-002-01); the product also fits many other mounting hardware from Extron, Middle Atlantic, etc. Only use the type 4-40, 3/16" (5 mm) long screws supplied with the mounting hardware to screw onto the product. Wrong type of screw could strip the threads; too long screw could touch and short the internal circuit, cause permanent damages to the product and void the warranty.

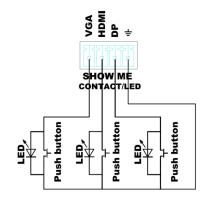


Document name: TPR-150CR quick start guide Revision: 1.02 Date: 1/5/2016 Specifications are subject to change without notice



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Control options: Pressing the "Show Me" button on the front panel will select the current box, or toggle thru the 3 video inputs. 3 sets of external contact closure push buttons and LEDs can select inputs discretely with the LED indication, see wiring diagram on the right side. Both front panel and external LEDs work like this: only one LED associated with the active input is lit at any given time. When the current box not selected in the daisy chain, the LED blinks slowly. When the current box selected, LED is solid on. A RS-232 host connected to the rear panel can control all functions.



Auto input switching: When activated by a RS-232 command, the switcher will select the last connected input with active signal as the current input. Auto switching is turned off after any front panel, external button push, or a RS-232 input command. Default is auto switching off.

RS-232 controls: Only the Show Me/input selections can be controlled by front panel or external buttons; all other functions can only by controlled by RS-232. See the RS-232 Setup Guide on Luxi website for more information: http://luxielectronics.com/attachments/File/Luxi_RS-232_setup_guide.pdf. If RS-232 port does not seem to work, please double check the two bank DIP switches in a recessed window on the bottom of the enclosure, and make sure they are in "00" (low) positions.

System query command: Command "q" is to check the daisy chain system size, and the current box ID. **Signal routing commands:** Command "m*ns" is to send signal from box Txm to box Rxn. Command "m*s" is to send signal from box Txm to all Rx. Command "n1,n2,n3,n4S" is to send audio to the 4 designated Rx boxes.

Pass thru commands: There are two types of them: Command "x*y{xxxx}Q" is to send RS-232 command from ext. host connected to box x to ext. slave connected to box y. Command "x*y(xxxx)Q" is to send from ext. host connected to box x to box y. The responses will be routed back to ext. host.

Product information commands: Command "p" and "P" are used to get the box part number and firmware version, respectively.

Input select commands: Command "s" is to check the current selected input; "0s" is to enable auto switching; "1s" is to select VGA input, "2s" HDMI input; "3s" DP input. There will be a blank screen for a brief period of time during input switching. The length of the duration depends on the handshake time of the display and the source device, and the input and output resolutions, generally around 2 seconds or less. Note: the DP input only works with the source devices compatible with DP++ (dual mode).

Front panel and contact closure lockup: Command "A" is to check the current front panel switch status; "0A" is to defeat front panel and contact closure controls; "1A" (default) is to allow front panel and contact closure controls.

Auto image settings: Command "a" is to initiate auto image settings.

Scaler output video format settings: Command "o" is to check the current output video format; "1o" is to set the output to 720p (default); "2o" is to set the output to 1080p; "3o" is to set the output to "Pixel to pixel" (source device to match display's native resolution).

Image size (zoom) adjustments: Many displays made by consumer electronics manufacturers tend to set the image on the screen in overscan even fed by computer signals, making the menu icons on the sides cut off or disappear. Use the "z" commands to set (shrink) the proper picture size on screen.

Audio mode commands: Command "M" is to check the current audio status; "0M" is to mute the audio; "1M" is to send digital audio from the HDMI or DP inputs directly to the output in their original format (default, use this option to retain the surround sound modes); "2M" is to mix the front panel analog audio input with the de-embedded audio from HDMI or DP inputs, then embed to output.

Resetting the product to factory defaults: Use the RS-232 command "r" to reset the product to factory defaults. See page 3 for the default values.

Support: Please contact your reseller directly for local support; or Luxi using the contact info in the header. See Luxi website for additional and more updated documents.

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					Rev 1.21	
Daisychain commands	Command		sponse			
Function	External host	Local box MCU to external host	Destination box MCU to external	All other boxes MCU to external	Notes	
	to MCU			host		
System information commands Query system size	q	Max Tx=M¶			Handled locally at daisy chain FW from local device	
		Max Rx=N¶ Me=Txm¶ or Me=Rxn¶			list	
Unsolicited message when system		Reset¶	Reset¶	Reset¶	Host to send "q" after receiving this "Reset" from the	
status changes					device; this happens after device detects any changes in the daisy-chain, or after daisy chain IC reboots and sync the UART port	
Signal routing commands Send video and audio from source m to	m*ne	AV Tx <u>m</u> live¶	AV Tx <u>m</u> live¶	AV Tx <u>m</u> live¶	Any device can send, daisy chain req is sent to Txm	
display n	<u></u>	AV Rxn live¶	AV Rxn live¶	AV Rxn live¶	and Rxn to create the video stream. The response is	
Send video from source Txm to all	<u>m</u> *s	AV Tx <u>m</u> live¶	AV Txm live¶	AV Tx <u>m</u> live¶	sent to all Tx and Rx boxes Any device can send, daisy chain req is sent to Txm	
displays and audio from source Tx <u>m</u> to audio sinks on the Audio Sink Distribution List, same behavior for 'Show Me' button when pressed from Tx <u>m</u>			_ "		to broadcast to all Rx. The response is sent to all Tx and Rx boxes. The next broadcast command will change the source but maintain the audio distribution list. The broadcast will be turned off by the next point to point route command in row 13.	
Define devices Ren1, 12, n3 and n4 to be on the Audio Sink Distribution List	<u>n1,n2,n3,n4</u> S	Audio Sink Rx <i>n<u>1</u>,n<u>2</u>,n<u>3</u>,n<u>4</u> live¶</i>	Audio Sink Rx. <u>n1</u> , <u>n2</u> , <u>n3</u> , <u>n4</u> live¶	Audio Sink Rx <u>n1,n2,n3,n4</u> live¶	This list needs to be setup repeatedly at each TX device locally. Use pass thut command in row 18 to send to each TX one by one if setup is done from an external controller at one location. The MCU of each TX will then send the command locally to the daisy chain IC. The current list will be replaced by the next (new) list command. If not defined, Rxt, Rx2, Rx3, Rx4 will be the default list. The response is send to all TX and Rx boxes.	
Pass thru commands	*				Add - Indian IIOII in fact of an arrangement and	
The external host connected to Presenter <u>x</u> sending to the external device connected to Presenter <u>y</u> to control the functions of that external device	<u>~</u> <u>X*Y</u> {xxxxx}Q		×××××		Add a leading "0" in front of any number associated with a Rx device to distinguish from the Tx number. Response send back to the host device. Maximum 25 charactors in bracket	
The external device connected to		ımı	mm		Any message comes in to the RS-232 port on box y	
Presenter <i>y</i> sending the response back to the external host connected to Presenter x		*			within 1 seconds from the command in row 19 is considerted a response to command 19 and will be sent back to box \underline{x} . MCU in box \underline{y} will end the response reception mode when seeing 1st carriage return or 1s timer ending whichever happens first	
The external host connected to	<u>x</u> * <u>γ</u> (xxxxx)Q				Add a leading "0" in front of any number associated	
Presenter <u>x</u> sending to Presenter <u>y</u> to control the functions of that Presenter	_		—		with a Rx device to distinguish from the Tx number. Response send back to the host device	
Presenter y sending response back to		mm				
the external host connected to Presenter x		*				
All commands below are local comm To control a Presenter device remote				and in line 22		
Product information commands			,			
Query device part number Query rear PCB MCU firmware version	P P	74-018-01¶ x.xx¶			Numeric and dash only Numeric only	
Query front PCB MCU firmware version	1P	x.xx¶			Numeric only; local only, no pass thru	
Query front PCB scaler firmware version Query front PCB splitter firmware version	2P 3P	x.xx¶ x.xx¶			Numeric only; local only, no pass thru Numeric only; local only, no pass thru	
Front panel scaler firmware update					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	2u	Firmware upgrade OK¶			Local only, no pass thru	
System information commands		Filliware upgrade OK1			Local only, no pass thru	
System information commands Query current live source and display		AV Txm live¶				
	2u				If in AV broadcast mode (one source to all displays),	
Query current live source and display Query current live audio sinks	2u *s	AV Txm live¶ AV Rxn live¶ Audio Sink Rxn1,n2,n3,n4 live¶			If in AV broadcast mode (one source to all displays), no need for this response	
Query current live source and display Query current live audio sinks	2u *s	AV Txm live¶ AV Rxn live¶			If in AV broadcast mode (one source to all displays),	
Query current live source and display Query current live audio sinks EQ value reading Scaler commands	2u *s	AV Txm live¶ AV Rxn live¶ Audio Sink Rxn1,n2,n3,n4 live¶			If in AV broadcast mode (one source to all displays), no need for this response	Factory default settings
Query current live source and display Query current live audio sinks EQ value reading Scaler commands Reset command	2u *s	AV Txm live¶ AV Rxn live¶ Audio Sink Rxn1,n2,n3,n4 live¶ xx			If in AV broadcast mode (one source to all displays), no need for this response Input EQ value reading	Factory default settings
Query current live source and display Query current live audio sinks EQ value reading Scaler commands Reset command Reset to factory defaults	2u *s	AV Txm live¶ AV Rxn live¶ Audio Sink Rxn1,n2,n3,n4 live¶			If in AV broadcast mode (one source to all displays), no need for this response	Factory default settings
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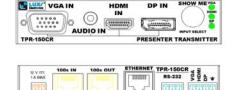
Phone: +1 (949) 654-2047 Address: Irvine, CA, USA

Product Specifications Presenter 150 series transmitter Product Image Front Back

Part Number: 74-018-01

Model: TPR-150CR

Product Drawing



Features and Benefits

- > Universal interface, compatible with all source signal formats
- > Built in scaler, audio de-embedder, embedder
- > Completely scalable; you can form many different sized switcher, splitter by daisy chaining with Presenter 110 Tx/Rx
- > Only 1 Cat6 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
- "Show Me" control button on every Tx box gives every user a simplified way to control the signal routing
- > 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)
- > 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: 7.4" x 6.1" x 1.1" (18.9 x 15.4 x 2.8 cm) Weight: package, 1.1 lb (0.49kg); product, 0.97 lb (0.44kg) 20-pc box size: 12.4" x 11.6" x 9.4" (31.5 x 29.5 x 24.0 cm) 20-pc box weight: 23 lb (10.5 kg)

Connections

Input connectors: VGA, HDMI, DP, audio, chain in, 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/Input selection

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 receiver, P/N 74-020-01, model RPR-110CR



Mechanical

Enclosure material: steel

Enclosure size: 4.29" x 1.00" x 6.00" (10.9 x 2.5 x 15.2 cm)

Electrical

Video signal path: There are 3 video inputs and 1 video output The analog RGB video from the VGA input goes to the scaler's analog input; the DisplayPort (DP) input signal is first converted to HDMI, then switched with the HDMI input signal, the selected signal goes to the digital input of the scaler. The scaler converts all video to LVDS, feeds to a HDMI encoder, then the daisy chain processer.

VGA input: 0.7 Vp-p analog RGBHV, 75 ohm impedance HDMI input: HDMI 2.0, 1080p deep color, max 6.7 Gbps DP input: DP 1.3 Dual Mode, 1080p deep color, max 6.7 Gbps Video processing: 36-bit decoding, sampling, 225 MHz clock Video input resolution range: from 800x600 to 1920x1080 Scaled video output resolutions presets: 1080p, 720p, "pixel to pixel": 1024x768, 1280x800, 1366x768, 720p, 1080p, etc HDCP compliance: HDCP 1.2

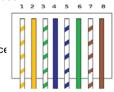
Audio signal path: There are 3 audio inputs and 1 audio output. The digital audio embedded in HDMI and DP inputs are selected by a HDMI switcher, then goes to the scaler. The scaler produces both SPDIF digital audio and de-embedded analog audio. The HDMI encoder can select the former in pass thru or the latter mixed with analog input and embeds into HDMI, then the daisy chain processer

Daisy chain system

Luxi proprietary format, digital video, audio, control, Ethernet and power, up to 32 devices (1 Tx = 1; 1 Rx = 2)

System cables: unshielded Cat6 550 MHz rated 23 AWG solid conductor cables recommended

Max distance between 2 adjacent devices: Typical 33 m (110') for 720p; 18 m (60') for 1080p (depends on source, display device performance, and signal format) RJ45 connector pin configuration: standard EIA 568B pinout



Power: 12 V DC, 0.3 A from external power or other Presenter Optional power supply: Not included. Luxi 69-002-01 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 many Extron and 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

Document name: TPR-150CR quick start guide Revision: 1.02

Specifications are subject to change without notice