



UR90X LocoNet Infrared Receiver

Features:

- Simplifies hookup, maintenance and troubleshooting of LocoNet.
- All connections plug-detachable.
- One RJ12 Throttle Jacks in front panel.
- IR and NET Indicator LEDs
- Two RJ12 LocoNet Jacks in rear for connection to other LocoNet devices. Use with 6 conductor telephone cable with RJ12 6-pin connectors and daisy chain your LocoNet ports around the layout.
- “Power sharing” charge Circuitry for throttles connected to six Universal Panels. (External 12V supply required for this optional DT6o2/UT6 charging source in sleep mode).
- PS14 external power supply is required for operation

NOTE TO PURCHASER: *Infrared signals sent from the throttle to the UR90X receiver are line of sight. Reflective walls and ceilings can improve your IR reception, however more than one UR90X receiver will most likely be necessary for full coverage of the average home layout.*

Parts List

- | | |
|---------------------|----------------------------|
| 1 UR90X Front Panel | 1 UR90X PCB with 4pin plug |
| 1 PS14 Power Supply | 1 Instruction Sheet |

Panel Assembly

The UR90X is shipped with the front panel unattached. Attach the panel as oriented in Figure 1 prior to installing the UR90X in your layout: Unscrew the two #2 screws on the faceplate rear tabs, insert the UR90X PCB. Screw back these two screws, which then clamp the PCB horizontally at the back of the panel.

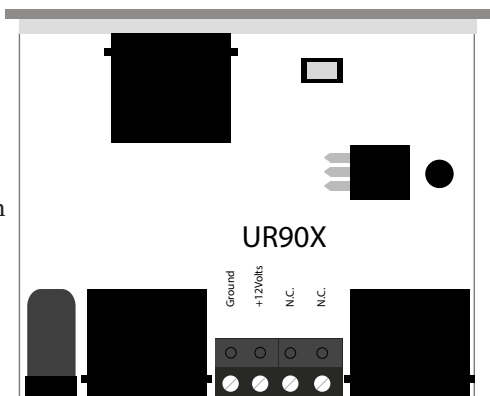


Figure 1

UR90X Panel Installation

1. Inspect all the RJ12 Jacks have 6 parallel gold pins, with none shorted to adjacent pins.
2. The UR90X is designed for mounting on the fascia board of the layout. Cut a hole approximately 2.6" w x 1.7" h in the fascia board.
3. Insert the UR90X through the hole with the face plate on the front of the fascia board. Retain the UR90X face plate to the fascia with four e.g. #6 screws of your choice.
4. Hook up working LocoNet cables at the rear Jacks
5. Plug in PS14 Power supply to barrel plug
6. Plugging in a compatible throttle and select a locomotive. Unplug and test IR reception. Infrared signals sent from the throttle to the UR90X receiver are line of sight. Reflective walls and ceilings can improve your IR reception, however more than one UR90X receiver will most likely be necessary for full coverage of the average home layout.

NOTE: Please review your throttle's manual for IR operating instructions. Duplex RF and Expanded Commands should be disabled in your throttle. IR should be set to ON.

Hooking up the UR90X's DC Power-Sharing Option

The power supply (e.g. PS14) used for the UR90X can be shared with up to 3 other Universal Panels via paralleled GND/U+ pins on the 4pin plugs.

1. Connect across matching GND and U+ marked 4pin plug terminals on up to one UR90X's and three UP7 total with e.g. 22AwG wire.
2. Plug an e.g. PS14 into the DC 2mm jack located on the back of the UR90X board. For charging, keep this supply ON when LocoNet is off/sleeping.
3. Power sharing is over-current protected at about 300 mA maximum.

Warranty & Repair

Digitrax gives a one year Warranty against material and manufacturing defects on the UR90X.

Visit www.digitrax.com for instructions for returning items for repair.

Please return warranty items directly to Digitrax - DO NOT return items to place of purchase.

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