

INSTALLATION INSTRUCTIONS

MODEL 490-95 MICRO LINK™ “PLASMA FRIENDLY” INFRARED RECEIVER

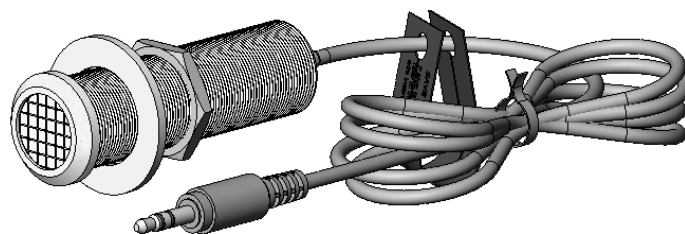


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INTRODUCTION

The **490-95** is designed to reject interference from **Plasma** Displays from entering the IR signal line. These Small IR Receivers are intended to be mounted in panels, doors, cabinets, etc. for control of A/V equipment behind closed doors or any IR Repeater System that is in close proximity of a **Plasma** or **LCD** Displays. Modeled after the original 490-90, the 490-95 offers the same features as its predecessor but in a smaller mounting frame.

FEATURES

- Small size; mounts in ¾" diameter hole. 2¾ inches deep (70mm)
- Quick-Connect 3.5mm Stereo Mini Plug on 7ft. (213.36cm) cable for direct plug-in to **Xantech** Connecting Blocks
- Works in normal 3-wire mode (12VDC, IR, GND)
- Green Talkback LED for System Verification
- Improved Fluorescent Light rejection (under most conditions) and rejection from LCD Displays
- Can be used in Direct Sunlight
- RF Grid included for EMI interference reduction
- Includes CB12 Connecting Block for easy connection and extension of 7' ribbon cable
- 7 units may be powered by one 781RG power supply

Note: The 490-95 will not operate in 2-wire **Phantom Power** mode

SPECIFICATIONS

- Infrared modulation frequency bandwidth: 30 - 100 kHz
- Reception range: up to 55 feet (17M), depending on local conditions
- Reception angle: 55 degrees off axis for 50% range reduction
- Cable requirements: 3-conductor. Use 24 gauge up to 200' (61M), 22 gauge up to 600' (182.5M), 20 gauge up to 1000' (305M), 18 gauge up to 2000' (610KM) -- unshielded OK
- Maximum transmission length: One mile using 18 gauge wire (1.6KM)
- Maximum current output: 100 mA
- Dimensions: 0.75" diameter x 2.75" deep (19mm x 70mm)
- Power requirements: 12 volts DC @ 20 mA

INSTALLATION

These units, equipped with a 7-foot cable and 3.5 mm stereo mini plug, are intended to be plugged directly into the "IR RCVR" or "AUX" jack on Xantech Connecting Blocks, such as the CB12(included), CB60, 789-44, 791-44, etc. The 490-95 should be used in installations where the connecting block is within reach of the 7-foot cable -- such as when installing the 490-95 in a cabinet where the controlled equipment is behind closed doors.

PLACEMENT

Placement of the IR Receiver does matter when used in the presence of a Plasma Display. Ideally it should be placed at areas around the Display with the front of the receiver flush with the front of (or set back from) the Display. If the 490-95 needs to be placed in front of the display (such as on an adjacent side wall perpendicular to the display), make sure it is placed at a location at least 45 degrees off axis from the corners of the unit – see **Figure 1**. The presence of Direct Sunlight and Fluorescent Lighting should not effect the reception of this unit.

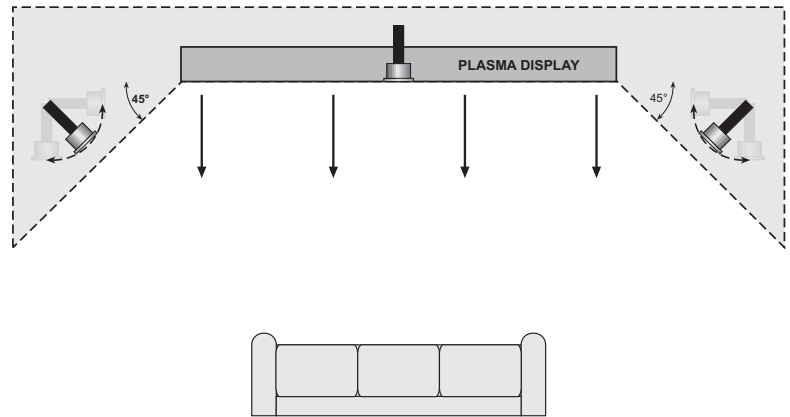


Figure 1 – 490-95 Placement

Note: Plasma interference can be reflected off of any item it comes into contact with within approx. 3 ft. from the front of the display. Keeping this in mind, make sure that the 490-95 is free of any obstruction that might reflect back into the receiving eye.

Note: While this unit shows strong rejection to standard 50/60Hz 'ballasted' fluorescent lighting, it is still prone to interference from CFL style Fluorescent lighting.

MOUNTING

1. Drill a 0.75" (19mm) hole in any flat surface, such as a cabinet panel.
2. Pass the lead and the body of the 490-95 through the hole.
3. Secure from the rear with the Washer and Nut (all supplied) as shown in **Figure 2a**. Be sure not to over-tighten nut.

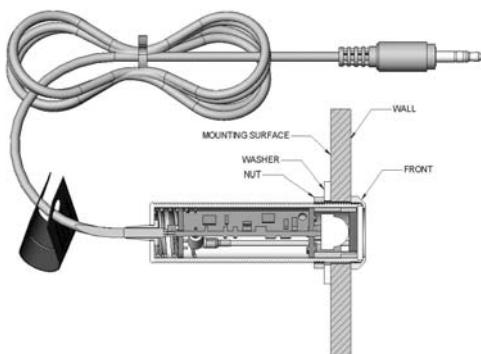


Figure 2a – 490-95 Features

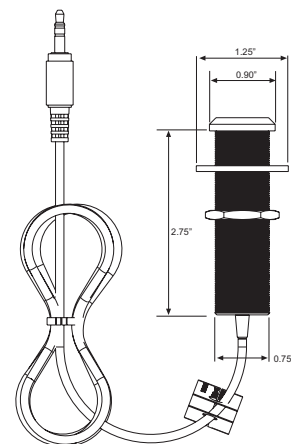


Figure 2b – 490-95 Dimensions

APPLICATION WIRING

A **typical system**, with a 490-95, 781RG Power Supply and 283M Emitter plugged into a 789-44 Connecting Block, is shown in **Figure 3**:

1. Plug in the 2.1mm Coaxial power plug of the 781RG Power Supply (not included) into the jack labeled 12VDC on the 789-44 Connecting Block.
2. Plug the AC end of the 781RG power Supply into an 'un-switched' 120v AC Line outlet.
3. Plug the 3.5mm stereo mini plug from the 490-95 into the IR RCVR input on the 789-44 Connecting Block
4. Plug in the Emitters 3.5mm mono mini plug such as any of the 282, 284, 283 and 286 series into the jacks labeled EMITTERS on the 789-44 and affix the opposite end to the IR Sensor Window of the controlled equipment.

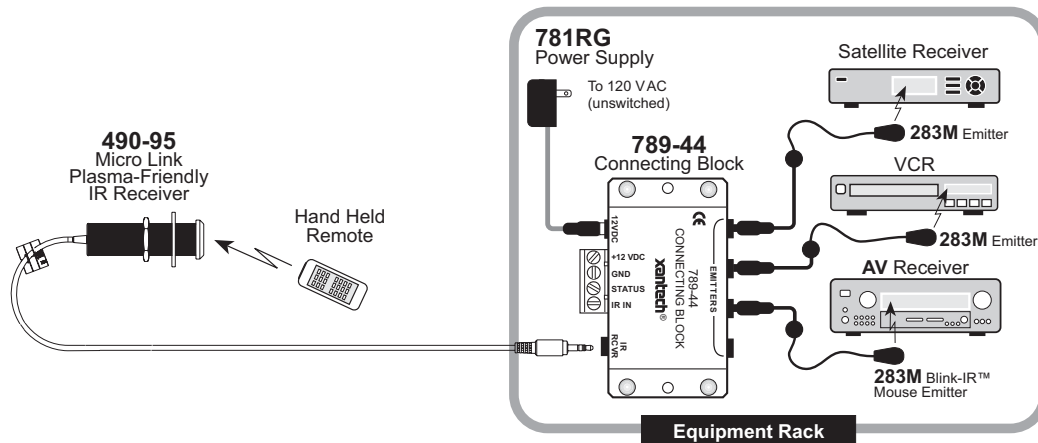


Figure 3 - Typical System Layout using 490-95, 789-44, 781RG, and 283M Emitters

ADVANCED WIRING CONFIGURATION

490-95 may also be used where the 7-foot lead is not long enough. In this case, simply use the CB12 Connecting Block as a "break-out" block. In **Figure 4**, a 490-95 is extended down to a 789-44 Connecting Block and combined with other Xantech IR Receivers.

1. Plug the 3.5mm stereo mini plug from the 490-95 into the IR RCVR input on the CB12 Connecting Block.
2. Using 3-Conductor wire (refer to **Specifications** section for proper Wire Gauge) connect the terminals labeled **V G S** of the CB12 to the terminals labeled **+12VDC**, **GND**, and **IR IN** on the 789-44 Connecting Block (or other)
3. Plug in the 2.1mm Coaxial power plug of the 781RG (or 782) Power Supply (not included) into the jack labeled PWR on the 789-44CB.

CAUTION! Do not plug in a 781RG or any other Power Supply into the CB12 when using in a "break-out" configuration. This will put 2 supplies in parallel and possibly damage your equipment. If a 'local' emitter is needed on the CB12, see Step 5 below.

4. Plug in the Emitters 3.5mm mono mini plug such as any of the 282, 284, 283 and 286 series into the Emitter Outputs on the 789-44.

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