



MODEL

**48085D**

***Dinky Link™ Surface Mount  
CFL/LCD Proof IR Receiver***

## **INSTALLATION INSTRUCTIONS**

### **DESCRIPTION**

These small IR receivers have been designed for mounting in very small spaces. They may be mounted under shelf edges, cabinet ledges, in wall speakers, etc. – anywhere an inconspicuous appearance is desired.

### **FEATURES**

- Very small package, only 2.45”L x 0.45”W x 0.35”H.
- Wire channel for clean installation.
- System testing red-talk-back LED.
- Includes 3-Terminal Block for easy extension to remote room locations.

### **SPECIFICATIONS**

- Infrared carrier input frequency bandwidth: 30 - 60kHz.
- Reception range: Up to 50 feet, depending on conditions.
- Nominal reception angle: 55 degrees off axis.
- Cable requirements: See “INSTALLATION” below.
- Max. transmission length: 1 mile using 18 gauge wire.
- Maximum current output: 100mA
- Drives IR emitters through Xantech Connecting Blocks, Controllers, etc.
- Power requirements: +12VDC, 20mA.

<b>3.5mm mini plug</b>	<b>Signal Name</b>
TIP	SIGNAL
RING	GROUND
SLEEVE	+12VDC

## **INSTALLATION**

### **QUICK-START**

A typical system will use an IR receiver, several emitters, and a power supply all connected to a connecting block.

1. Connect the IR receiver to the “IR RCVR” port on the connecting block. The ‘red’ connector is installed to the ‘red’ plug.  
**Note:** In some extended distances, additional 3-conductor may be required and can be connected to the terminals on the connecting block.
2. Connect the Emitters to the connecting block. The ‘yellow’ connector is installed to the ‘yellow’ plug.
3. Connect the power supply to the connecting block.
4. Installation complete

### **ADJUSTING IR CARRIER FREQUENCY**

The IR receiver is factory set to an IR carrier frequency of 38kHz. This will be correct for the majority of installations, however, some manufacturer’s components that you wish to control may use difference carrier frequencies (such as digital cable boxes which use carrier frequencies between 52kHz and 56kHz). If such carrier frequencies fall within the range of 32kHz to 56kHz, you can adjust the IR receiver to match them for best range performance. The adjustment can be made through a small opening on the rear of the unit.

To adjust, proceed as follows:

1. First, try the IR receiver in the system. If the system controls all the desired components with adequate range, do not make any adjustments.
2. If the system does not work or has poor range, determine the IR carrier frequency of the product you wish to control. Contact the manufacturer of the product, if necessary, to determine this frequency.
3. Using a small blade type screwdriver, rotate the adjustment shaft slightly either clockwise to obtain carrier’s less than 38kHz or counter-clockwise to obtain carrier’s greater than 38kHz.
4. If you have audio/video equipment in the same system that have different IR carrier frequencies, you will have to adjust the IR receiver to the midway position. For example, some products may operate at 38kHz and others at 56kHz. In this case, set the adjustment in between this range so both products can operate in the system.

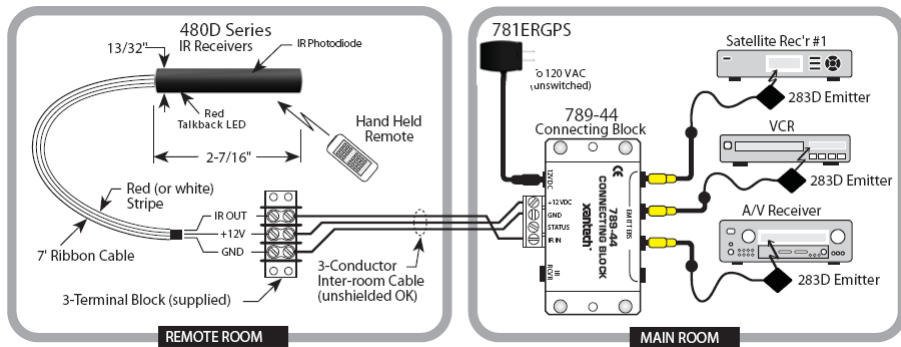
**Note:** Some products are more tolerant of compromised frequency settings than others. You may have to “fine tune” the adjustment to “favor” the least tolerant component for the best performance of all units in the system.

## REMOTE ROOM APPLICATION

One application is to locate the IR receiver in a remote room. This will give the end-user the ability to control audio/video equipment from a location where the remote control no longer has the ability of direct line-of-sight.

The IR receiver will need the 3.5mm stereo type mini plug removed to extend the wire run to the connecting block. A 3-terminal block is supplied to connect the IR receiver to the connecting block with a 3-conductor inter-room cable in between.

The 3-conductor inter-room cable (24 gauge up to 200', 22 gauge up to 600', 20 gauge up to 2000', 18 gauge up to 5000'), is run to the main room.

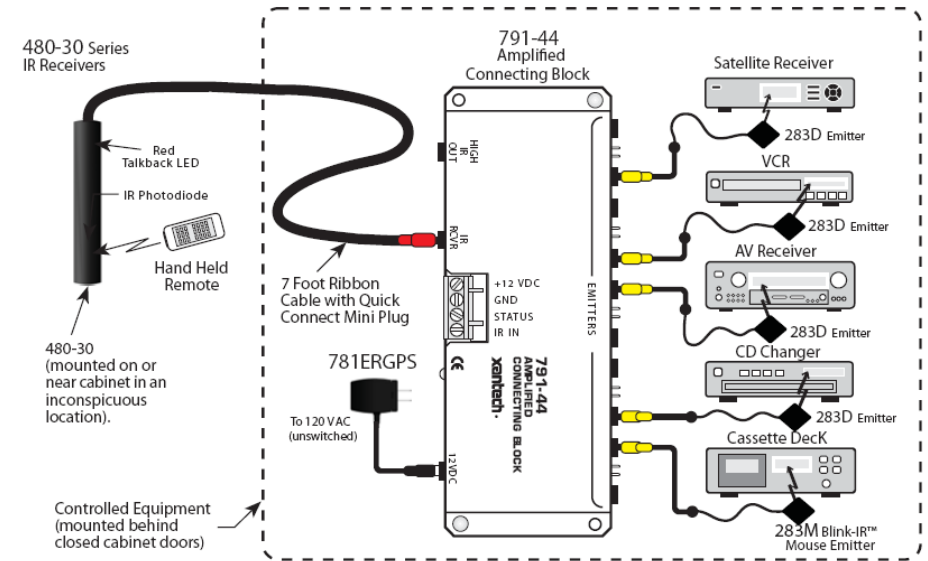


While it is possible to make wired connections without the connecting block, it is not recommended. The connecting block reduces installation time, helps to eliminate errors, allows easy troubleshooting and permits easy system upgrades later, if needed.

Input connections must be made as illustrated. To extend the emitter wires to a more distant location, you may splice in 2-conductor wire, in the wire gauges mentioned before, as needed.

## LOCAL SYSTEM APPLICATION

Another application is to locate the IR receiver in a central location, such as the TV, video screen and/or a speaker. The audio/video equipment can then be hidden inside a cabinet or located away from the front of a room. This will give the end-user the ability to direct a remote control to one central location and not have to worry about aiming to the respective device to be controlled.

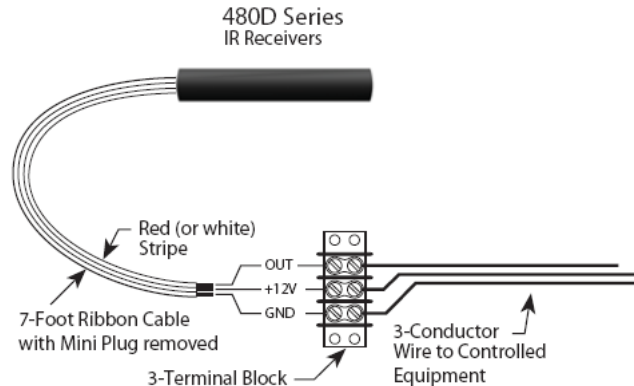


Since the IR receiver is in close proximity to the audio/video equipment, no wiring extension should be required so long as the connecting block is within reach of the 7-foot cable. The 3.5mm stereo type mini plug is connected to the "IR RCVR" jack on the Xantech Connecting Block.

## MOUNTING

The IR receiver can be mounted to any flat surface, using the two-sided adhesive tape supplied. Two screws are included for mounting the 3-terminal block provided with the IR receiver.

An addition feature is a wire channel on the rear of the surface mount IR receiver. This will give the installer the ability to provide clean wire dressing in any direction.



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## PLACEMENT

The IR receiver should be located so that it is not directly facing a light source such as lamps or displays (standard, LCD, and Plasma). When mounted near a display, it should be flush to the display and away from light reflections that may occur.

## Limited Warranty

Xantech® warrants its products to be free of defects in materials or workmanship. This is a Limited Lifetime warranty from the date of purchase by the original consumer. Any products returned to Xantech and found to be defective by Xantech within the warranty period will be repaired or replaced, at Xantech's option, at no charge. Xantech will not be responsible for the actual cost of installation or removal of the product, nor for any incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights. You may have additional legal rights that vary from state to state.

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