

Limited Warranty

LEVITON LIGHTING CONTROL DIVISION of Leviton Manufacturing Co Inc. warrants its Dimmer Systems and Controls to be free of material and workmanship defects for a period of two years after system acceptance or 26 months after shipment, whichever comes first. This Warranty is limited to repair or replacement of defective equipment returned Freight Pre-Paid to Leviton Lighting Control Division at 20497 SW Teton Ave., Tualatin, Oregon 97062, USA. User shall call 1-800-959-6004 and request a return authorization number to mark on the outside of the returning carton, to assure that the returned material will be properly received at Leviton. All equipment shipped back to Leviton must be carefully and properly packed to avoid shipping damage. Replacements or repaired equipment will be returned to sender freight prepaid, F.O.B. factory. Leviton is not responsible for removing or replacing equipment on the job site, and will not honor charges for such work. Leviton will not be responsible for any loss of use time or subsequent damages should any of the equipment fail during the warranty period, but agrees only to repair or replace defective equipment returned to its plant in Tualatin, Oregon. This Warranty is void on any product that has been improperly installed, overloaded, short circuited, abused, or altered in any manner. Neither the seller nor Leviton shall be liable for any injury, loss or damage, direct or consequential arising out of the use of or inability to use the equipment. This Warranty does not cover lamps, ballasts, and other equipment which is supplied or warranted directly to the user by their manufacturer. Leviton makes no warranty as to the Fitness for Purpose or other implied Warranties.

For Technical Assistance Call:
1-800-959-6004
www.nsicorp.com
www.leviton.com



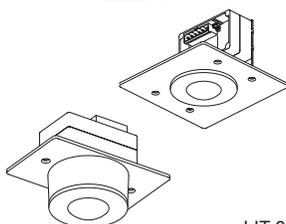
Ceiling Mount IR for D4200 and D8000

Cat # D42IR-RSW

D42IR-RFW

KIRRF-00W

KIRRS-00W



LIT-32686-000
Rev A 3/2004

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Warnings

- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- To be installed by a qualified Electrician.
- DO NOT CONNECT line voltage wires to low voltage terminals.
- For the best lamp life, lamp manufacturers recommend their fluorescent lamps should be operated at full brightness for a minimum of 100 hours before dimming is permitted. For best results, lamp brands and types should not be intermixed on a circuit.
- Disconnect power when servicing the dimmer, fixture or when changing lamps.
- Indoor use only.
- 7. TO AVOID FIRE, SHOCK OR DEATH: TURN OFF POWER AT MAIN CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF BEFORE WIRING!**

Introduction

For best results using the Dimensions 8000 Architectural Lighting Controller, Follow these recommendations:

- Plan the system before beginning the installation
- Terminate the wiring
- Test the wiring
- Connect dimmer cabinets
- Check Voltages
- Power up the Stations
- Program each Station
Assign unique network ID numbers to stations.
Check the proper operation of each station as it is installed when multiple stations are involved.
- Install all Stations

Note: If the lighting control fails or becomes sporadic, first check the wiring or network ID.

Terminating the Wiring

Luma-Net® III

Control Stations can be located up to 2000 ft. from the dimming cabinet. **Luma-Net®** is wired Daisy Chained, station to station. For applications where runs become too long, or a star configuration is desired, a Hub can be used.

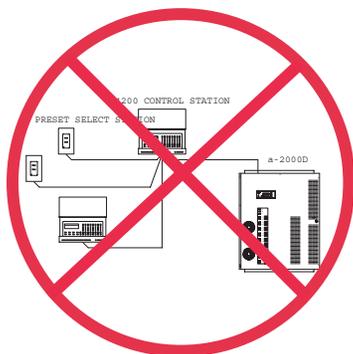
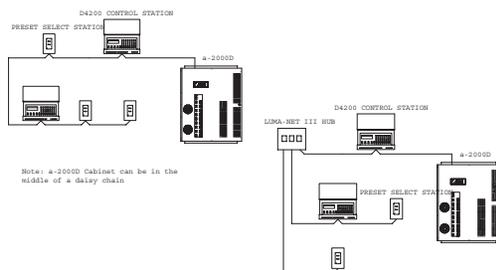
The cable should not pass near any source of electrical noise such as fluorescent circuits or motor wiring. Avoid close proximity to any AC wiring. All control/power wiring must be in conduit.

Luma-Net® Wire Recommendations

- Use RS485 compatible cable for communications. It is recommended that a cable with 2 Twisted Pair, 24 AWG (min.), stranded conductors be used. The spare pair is for future uses.
- Capacitance of wire shall be 15pF/ft. or less.
- Normal Impedance of wire shall be between 100-120 ohms.
- Drain/Shields to be tied together, insulated and grounded at one point only.

We strongly recommend the use of either Belden 9829, Belden 8102 or Belden 9729 for the Luma-Net® wire runs.

- A second pair of stranded wire is required for the power.



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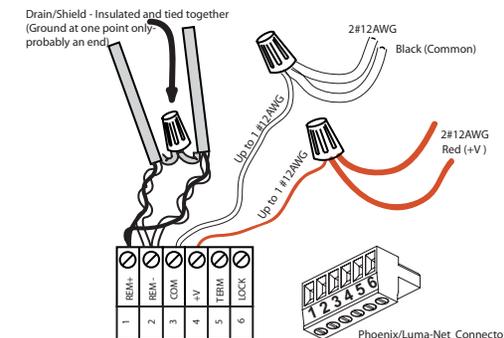
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If a remote DC power supply is used and you have multiple **Luma-Net®** runs, all DC common wires must be joined at the power supply.

At the last control station or dimmer cabinet on both ends of run, a small jumper wire must be run from the terminal labeled "Rem-" to the terminal marked "Term" on that last station. This jumper wire properly terminates the digital communications lines at both ends of the line.

Wire the Phoenix/Luma-Net Connector

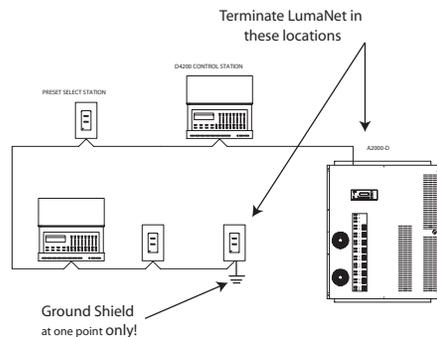
- Connect leads per wiring diagram as illustrated on page 6.
- Twist strands of each lead tightly (making sure that there are no stray strands) and push firmly into appropriate plug connector location.
- Tighten the screws on the plug connector-making sure that no bare conductor is showing.
- Tie the Drain/Shield wires together and insulate using a small piece of heat shrink tubing.
- Install termination jumpers as required. Remember a termination jumper is required at the two ends of the **Luma-Net®** run.



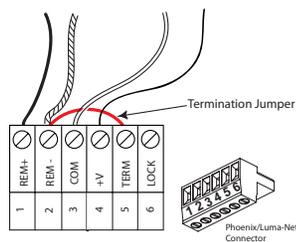
Luma-Net® Wire Connections

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Luma-Net® Termination Jumper Locations



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Testing the Wiring

To assure problem-free start-up, it is important to check the system wiring, prior to hooking up any control stations, for proper connections, shorts and opens.

The following procedure is recommended:

Step 1: Test the following wire pairs for shorts at each station location, using an ohmmeter or other continuity tester.

- 1-2 Open
- 2-3 Open
- 3-4 Open

Step 2: Repair any short circuits before continuing.

Step 3: Install wire jumpers, one pair at a time (not supplied) to the Luma-Net Connector on either end of the cable run between pins 1-2, then 2-3, then 3-4.

Step 4: Retest each of the following wire pairs at each connector:

- 1-2 Short
- 2-3 Short
- 3-4 Short

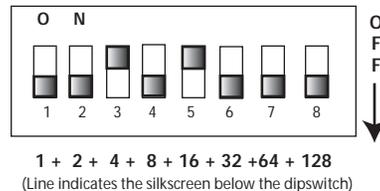
Step 5: Make any necessary repairs and remove wire jumpers before continuing.

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Station Addressing

Stations need to be given a unique address between **1 and 127**. If a station address is set to **Zero** it will not participate on the network. You use the address switch to set both the association to the master station as well as the IR station's unique address.

The switch is set to the binary representation of the ID number. The binary 1's column is left-most (lever



Net ID

labeled "1").

The switch levers are numbered 1-8, these represent the following:

Lever=Value	
1=1	2=2
3=4	4=8
5=16	6=32
7=64	8= Not Used

Add the value of each lever in the "ON" position to determine the ID number (decimal form).

For example:

To set the address to 39, the following switches need to be in the "ON" position:

$$1, 2, 3, 6 = 1+2+4+32=39$$

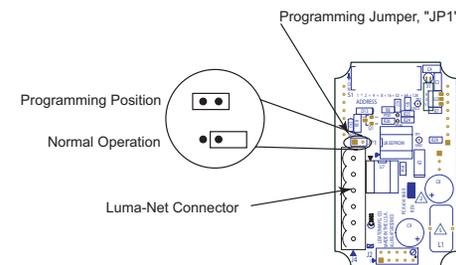
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You must associate the IR station with a Master Station, either a D4200 LCD station or a D8000 station, in a similar fashion to the D4200 Entry Stations.

NOTE Multiple IR stations of various types can be slaved to a single master station.

To set the remote identification number, and slave it to a master D4200 or D8000 station:

1. With the station unplugged, set the IR station's DIP switches to the address of the master station that it is to be slaved with.



2. Move the small programming jumper, adjacent to the Luma-Net connector, so it is plugged onto both pins on the circuit board.

3. **Power up** the station by plugging it back in. The red LED above the jumper will stay lit until the programming is complete (the D8000 version will flash 3 times).

4. Once the LED goes out, unplug the Luma-Net connector.

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Setting the Address Con't.

5. Remove the programming jumper and replace it so that it is on only one pin.

6. With the station still unplugged, set the DIP switches to the desired ID number for this particular remote station (every station on the network must have its own unique station number between 1-127).

7. Power up the station by plugging it back in, and it should be ready to operate normally. When the station first powers up under operating conditions, the back **Red** LED flashes rapidly until the **Luma-Net®** network becomes stable/operational.

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Programming/Operation

D4200:

There is no additional programming that needs to be done. The D4200 LCD will respond to the hand held IR units out of the box. If it does not work, double check the D4200 LCD station to see if the IR port is turned on. Refer to the units User Guide for details.

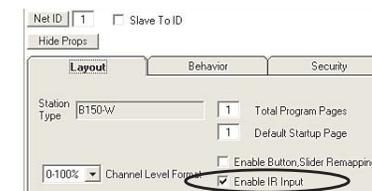
D8000:

The IR station is programmed to work out of the box on a 1 for 1 line up of buttons. This works well for most station types except the LCD. In this case, it is recommended that you change the button mapping of the IR station. You can either create the file in LumaEdit or use the enclosed CD rom with the ldt file for an IR station slaved to a generic LCD station. Treat the IR station just like a 15 button entry station, that has been slaved to another D8000 station.

NOTE In a D8000 system, the IR station does not have to be slaved to another station

To specify a button to listen to a specific command from a Hand Held remote other than default programming:

1. Open a 15 Button station in LumaEdit
2. Set the Network ID for the IR station.
3. Set the ID of the station it will be slaved to.
4. Click on the Enable IR button in the Station Properties Section under Layout.



1. Click on the button you wish to program. The button properties box will open.

2. Click on the check box next to "Enable IR Button"



3. From the pull down box to the right, click on the number/name on the hand held remote that you want this button to respond to.

4. Repeat Steps 1-3 for every button you wish to respond to an IR input.

5. Once you have completed the rest of the programming, save the file and write the program to the IR station.

6. You are ready for normal operation.

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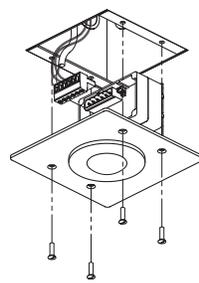


Figure: install of flush mount unit

Surface Mount Units:

1. Plug the Luma-Net connector into the back of the surface mount unit as shown in the figure below.
2. Gently push the wire and assembly into the desired 1 gang electrical box.
3. Use the 2 6-32 screws provided to secure the unit to the electrical box in the ceiling.

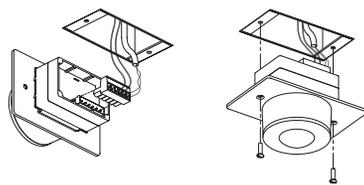


Figure: install of surface mount unit

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