



# **INFRALED<sup>®</sup> PRO**

Recessed Motorized Patient Lighting System

## **OWNER'S MANUAL & INSTALLATION GUIDE FOR PRV-12035**



***PRV-12035***

# INFRALED® PRO

Recessed Motorized Patient Lighting System

## PRV-12035 OWNER'S MANUAL & INSTALLATION GUIDE

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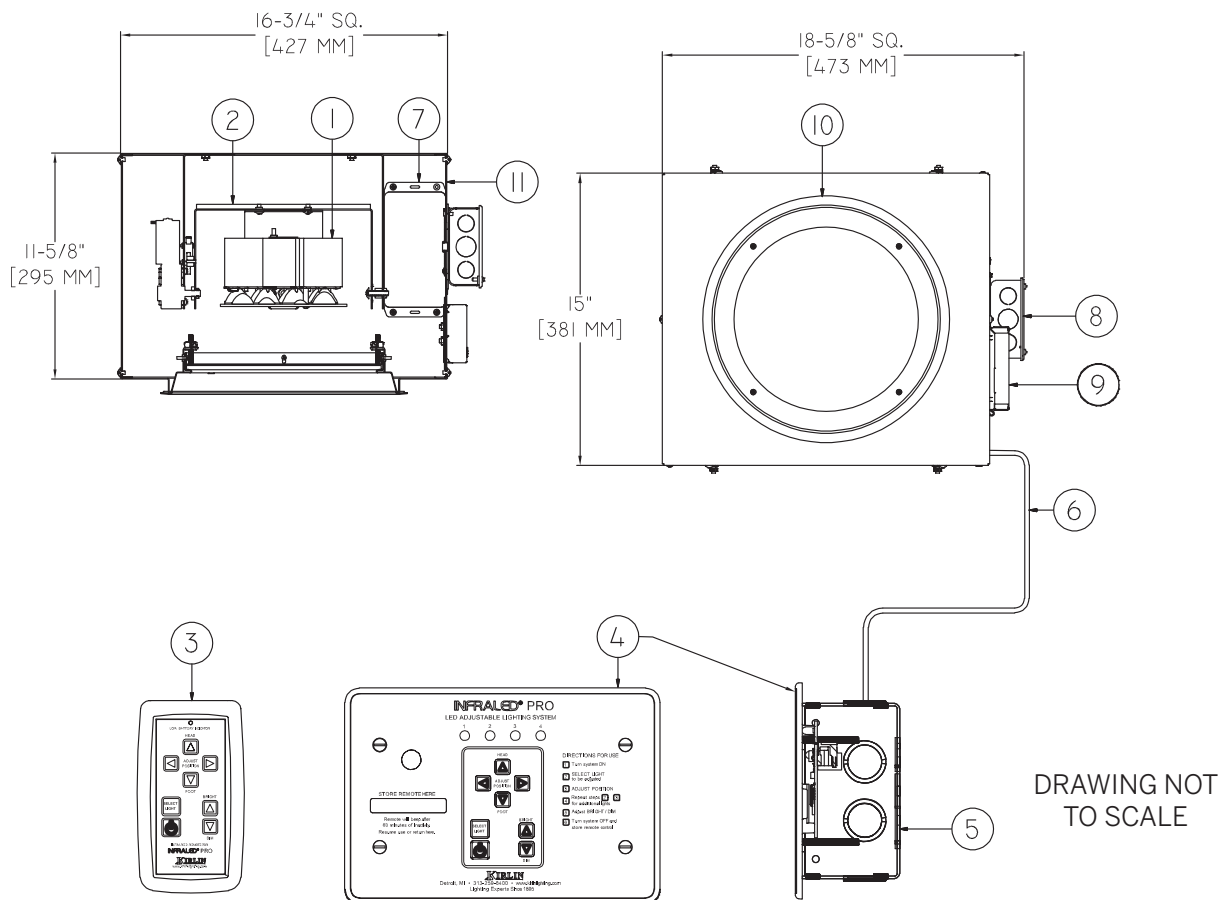
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DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE

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## INFRALED® PRV 35: SYSTEM & COMPONENTS



DRAWING NOT  
TO SCALE

### Features PER Luminaire:

#### LED Module ①

- Up to 3000 delivered lumens, 55 system watts (per luminaire)
- 3500°K. 95+ CRI. High R9 value of 85
- 60,000 hour long life (L70)

#### Motors / Gimbal Assembly ②

- Two 12 volt permanently lubricated DC motors control motion. Quiet operation
- Rotates 360° and tilts up to 35° from nadir
- Plug-in modular electronics designed for easy maintenance through removable trim assembly

#### Remote Control (sold separately: see page 8) ③

#### Wall Control (sold separately: see page 8) ④

- UL listed back box ⑤ provided with wall control. Must be used for proper fit of electronics

#### Plenum Rated Cable ⑥

- Each luminaire provided with:  
- 35' plenum rated control cable with RJ-45 connectors for connection to wall control
- For longer cable length, see Option -87

#### Motion and Dimming Controller ⑦

#### Junction Box (luminaire) ⑧

- Prewired 14 GA (NEC) galvanized steel, UL listed
- 1/2" and 3/4" knockouts

#### LED Power Supplies (not shown) ⑨

- 120-277V 50/60 Hz standard; load insensitive
- 0-10V dimming (100-10%)
- -20°C (-4°F) to 50°C (122°F)

#### Trim Assembly ⑩

- White regressed self-flanged flare with Kirlin BioGard™ anti-microbial finish
- 12" diameter with tamper-proof hardware
- Regressed 220: clear polycarbonate lens

#### Housing ⑪

- Acrylic enameled aluminum
- Cool: Dissipates heat across entire surface area
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test
- Entire luminaire serviced through removable trim assembly
- Built-in plaster frame

#### UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings
- Through branch circuit conductors. (6#12)

#### FCC Compliance

- FCC Part 15 certified for EMI/RFI emissions

#### Warranty

- Complete standard fixture and wall control, three years
- Remote control, one year

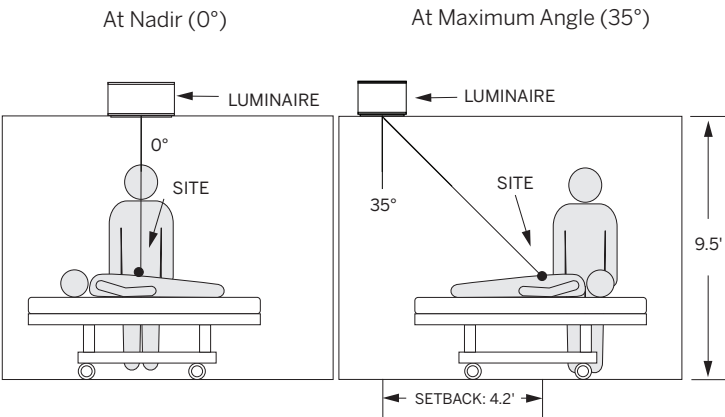
#### Weight

- 19.5 lbs. (not including boxes)
- No seismic super structure needed (See State of California OSHPD)

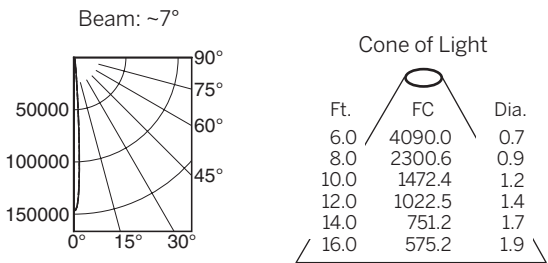
**PER SINGLE LUMINAIRE** OPERATING CURRENT .70A MAXIMUM DRAW .80A AT 120 VOLT LINE INPUT

INFRALED® PRV 35: LUMINAIRE PLACEMENT & PERFORMANCE

Single Luminaire Performance



|                          | Angle | Distance to Task | FC on Task | Lux on Task |
|--------------------------|-------|------------------|------------|-------------|
| Performance at Nadir     | 0°    | 6'               | 3,680      | 39,620      |
| Performance at Max Angle | 35°   | 7.3'             | 2,038      | 21,923      |

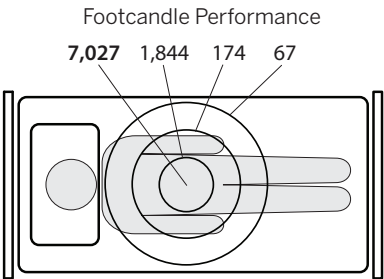
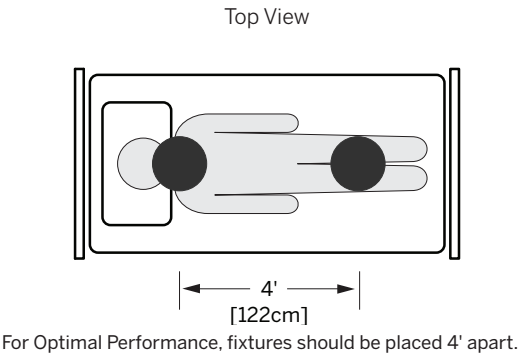


Photometric testing by I.T.L. (Boulder, CO); Test No. 93355

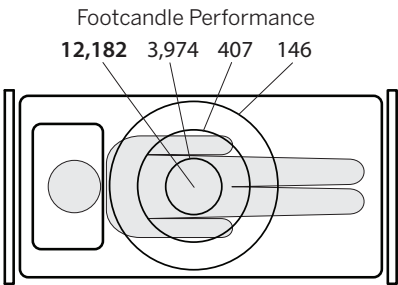
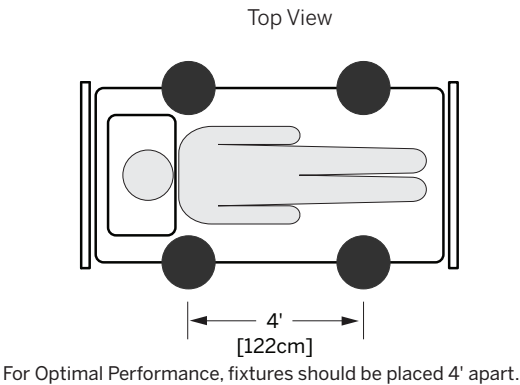
Cone of Light Key

Ft.: Distance from fixture  
FC: Footcandles at nadir (0°)  
Dia.: Circle of light at 50% of FC

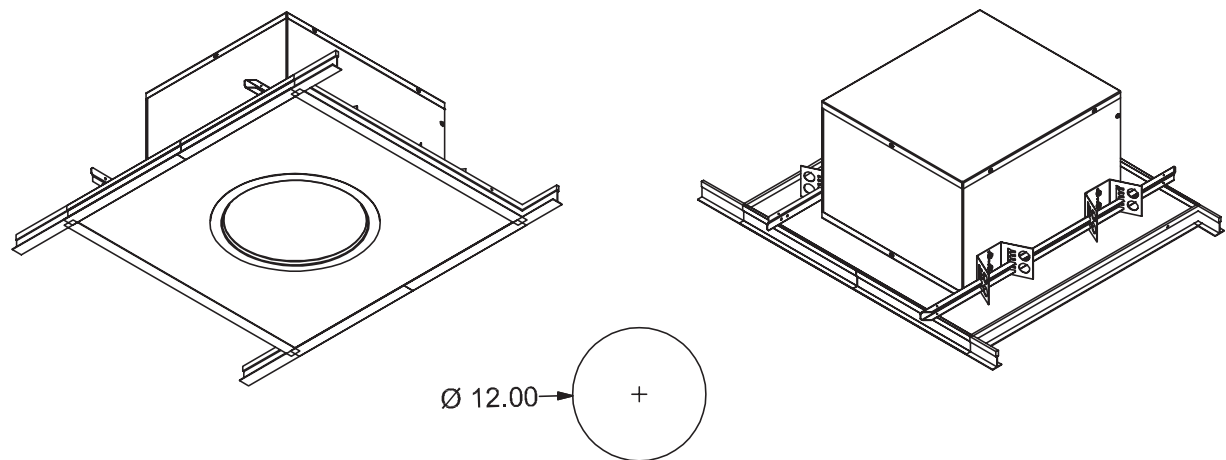
Sample Two Light Configuration



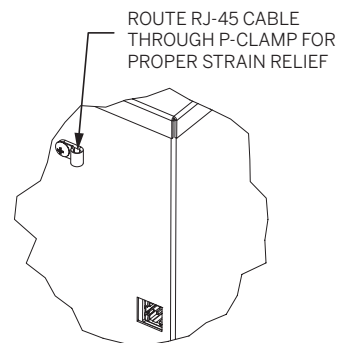
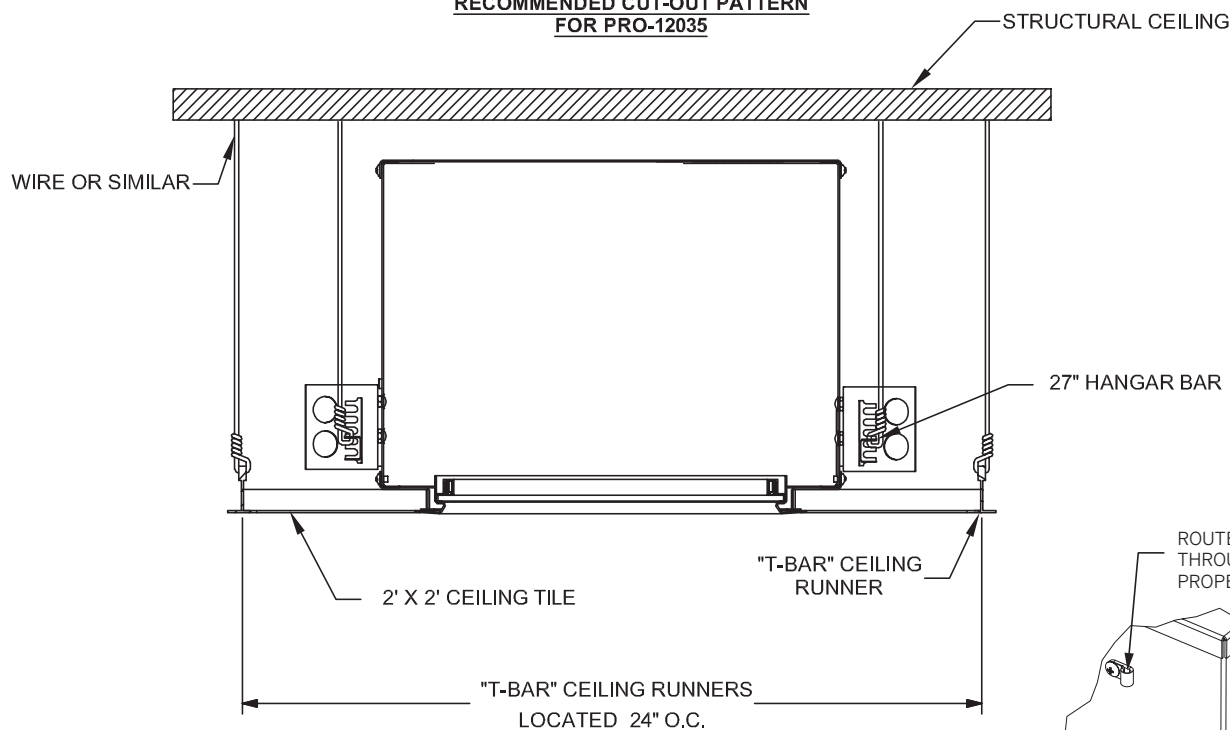
Sample Four Light Configuration



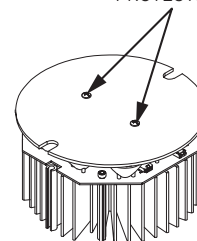
## INFRALED® PRV 35: INSTALLATION - LAY-IN CEILING MOUNTING



**RECOMMENDED CUT-OUT PATTERN  
FOR PRO-12035**



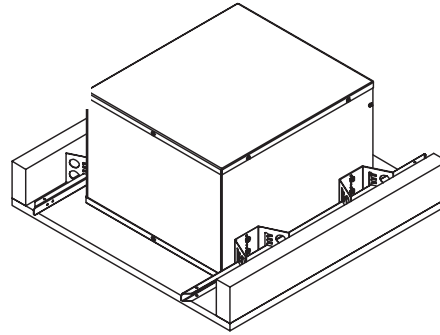
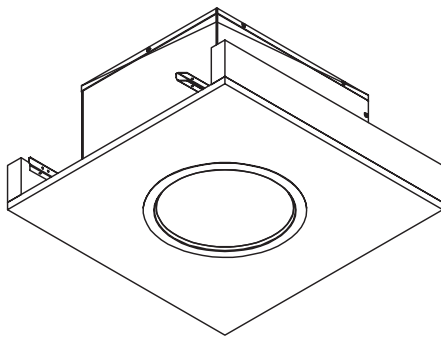
CAREFULLY UNFASTEN  
SCREWS TO REMOVE  
PROTECTIVE SHIELD



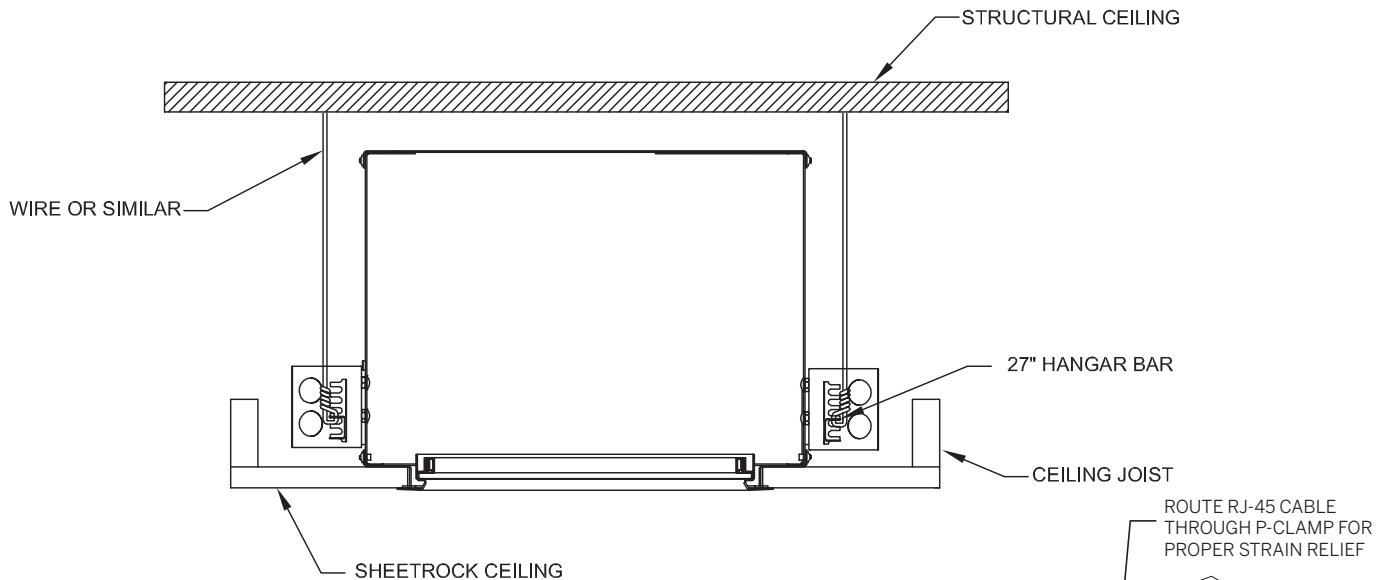
### INSTRUCTIONS:

1. Verify that "T-bar" ceiling grid is attached to structural ceiling at corners.
2. Lay fixture into ceiling tile with cut-out. Note: Fixture has a head/foot orientation label located on its top side.
3. Attach fixture to structural ceiling from all 4 corners using the 4 sets of mounting holes provided in the hangar bars on both sides of the fixture.
4. Connect electrical and RJ45 cable to fixture. Secure RJ45 cable to the fixture with cable clamp. Note: all fixtures in a system must be connected to a dedicated branch circuit.
5. Carefully pull down trim and unplug indicator light via in-line connector.
6. Squeeze individual springs together to remove trim.
7. Remove optical shipping protector from light head. Discard 2 screws, 2 spacers, and cover.
8. Inspect internal cables; they may have shifted in shipping and may need to be pushed aside.
9. Carefully clean glass in trim and reinstall.

## INFRALED® PRV 35: INSTALLATION - HARD CEILING MOUNTING

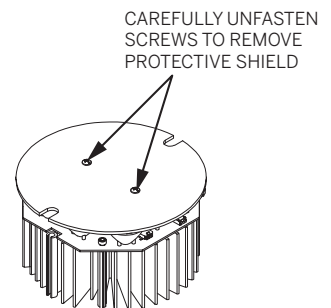
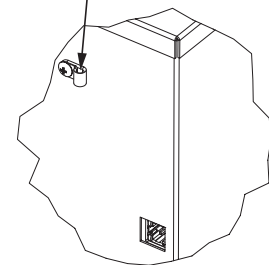


**RECOMMENDED CUT-OUT PATTERN  
FOR PRO-12035**

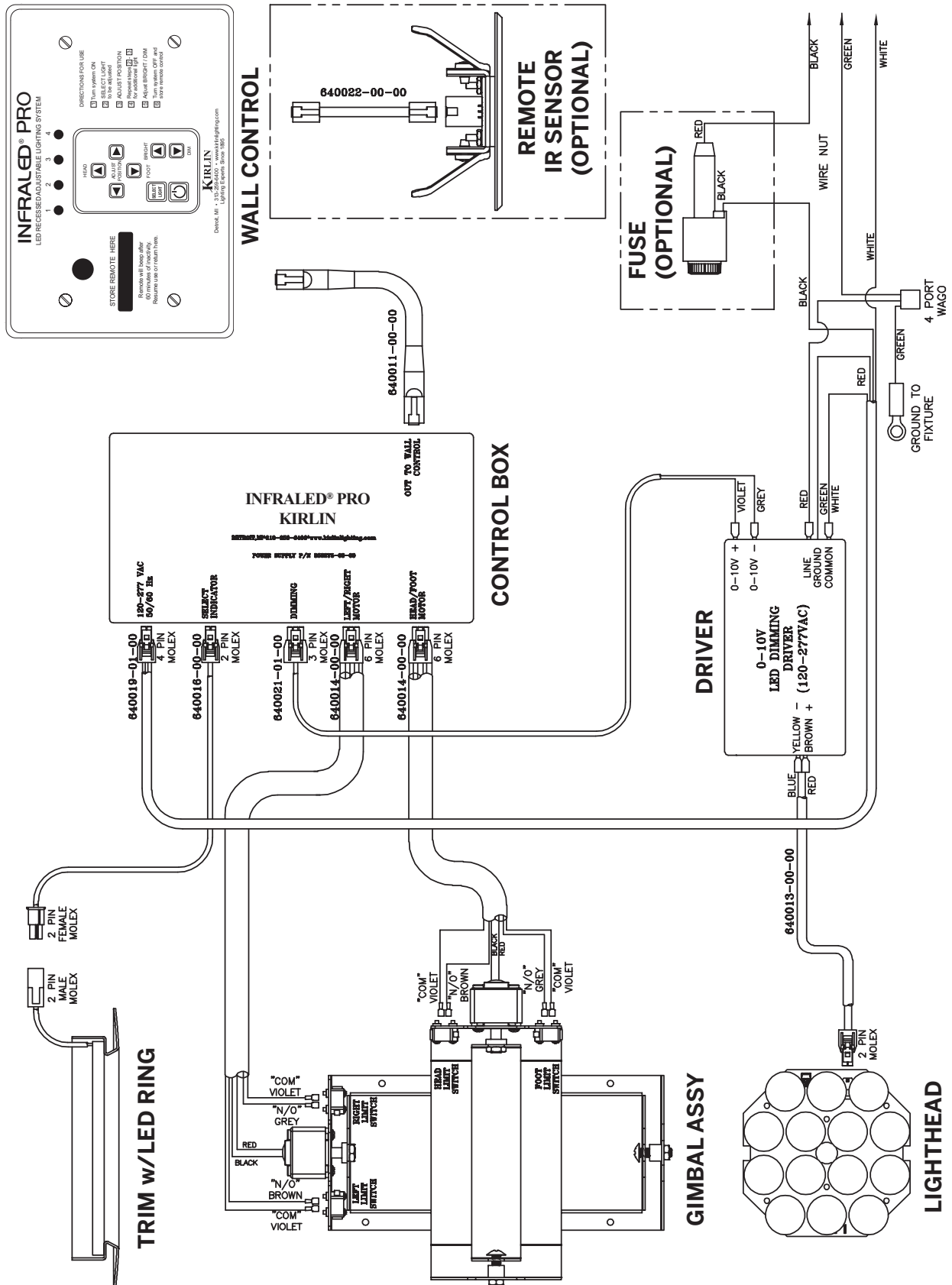


### INSTRUCTIONS:

1. Attach fixture to structural ceiling from all four corners, using the 4 sets of mounting holes provided in the hangar bars on both sides of the fixture. Note: Fixture has a head/foot orientation label located on its top side.
2. Connect electrical and RJ45 cable to fixture. Secure RJ45 cable to the fixture with cable clamp. Note: all fixtures in a system must be connected to a dedicated branch circuit.
3. Carefully pull down trim and unplug indicator light via in-line connector.
4. Squeeze individual springs together to remove trim.
5. Remove optical shipping protector from light head. Discard 2 screws, 2 spacers, and cover.
6. Inspect internal cables; they may have shifted in shipping and may need to be pushed aside.
7. Install hard ceiling.
8. Carefully clean glass in trim and reinstall.



**INFRALED® PRV 35: ELECTRO-MECHANICAL WIRING DIAGRAM**

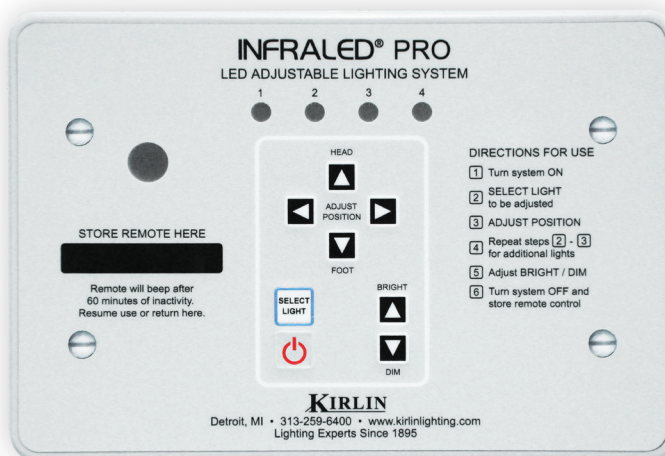
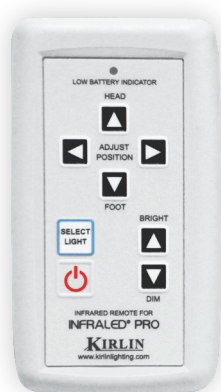




# INFRALED® PRO

Recessed Motorized Patient Lighting System

## OWNER'S MANUAL & INSTALLATION GUIDE WALL CONTROL & REMOTE



**PRO-WALLC**  
**PRO-REMOT**



## WALL CONTROL & REMOTE: SYSTEM & COMPONENTS

The lighting system includes both an infrared remote control and a flush wall control panel. Both provide full control of the lighting system, including on/off, direction, intensity and fixture selection. A designated magnetic docking station on the wall control panel has been provided for storage of the remote control when not in use.

### Remote and Wall Control Features:

- Redundant full function controls for:
  - Power
  - Fixture selection
  - Intensity (dimmer or brighter)
- Convenient one hand operation.
- Tactile-membranes and smooth surfaces for easy cleaning.

### Wall Control (only) Features:

- Includes recessed infrared receiver.
- Magnetic docking station for remote control.
- Less than 1 microamp current leakage from front of wall control panel.
- Back box provided by Kirlin.

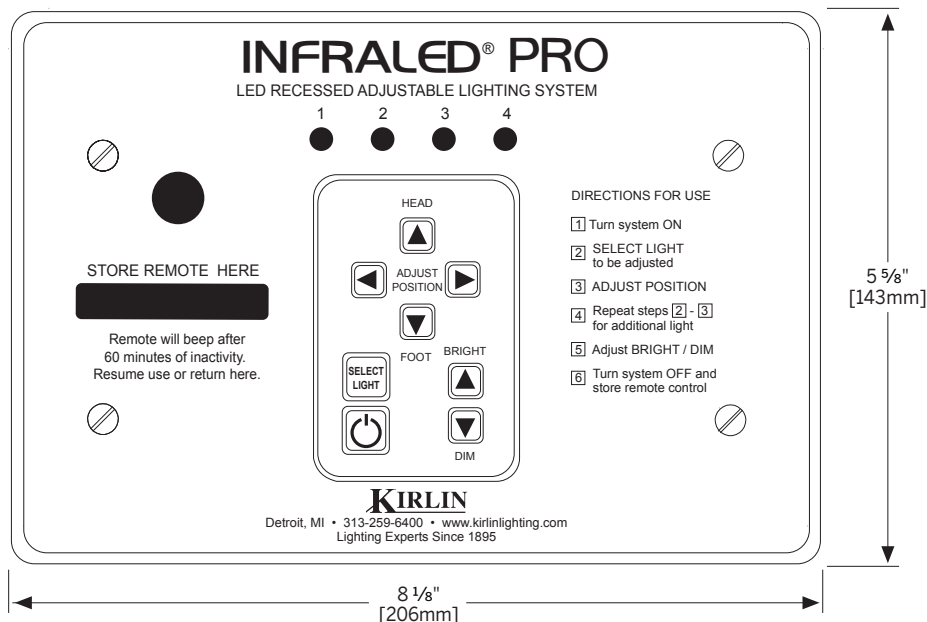
### Remote Control (only) Features:

- Invisible infrared signal will not interfere with other equipment in the room.
- Impact resistant construction to withstand common mishaps (dropped on floor).
- Loss deterring beeper to remind user to return remote to docking station on wall control panel. Beeper is activated if remote control is not used for, nor returned to wall control panel within 1 hour.
- (2) AA batteries provided.
- Low stand-by current assures long battery life.
- Back side has special "write-on" area for marking room location.

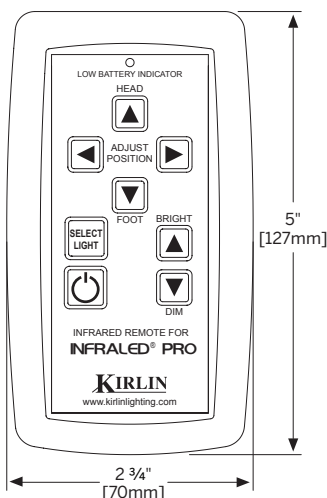
### Remote Sensor (PRV-SENSR)

- Optional ceiling mounted infrared sensor enhances signal reception if wall control panel is obstructed.
- Each PRO-WALLC supports one PRV-SENSR.

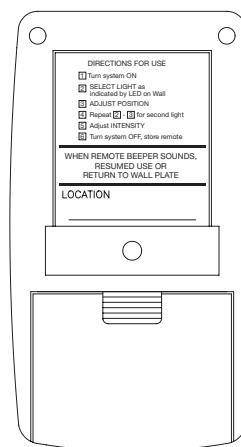
WALL CONTROL PANEL (PRO-WALLC)  
(INSTALLED IN ROOM WALL)



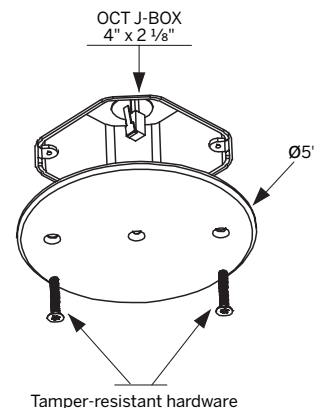
REMOTE CONTROL (PRO-REMOT)  
FRONT



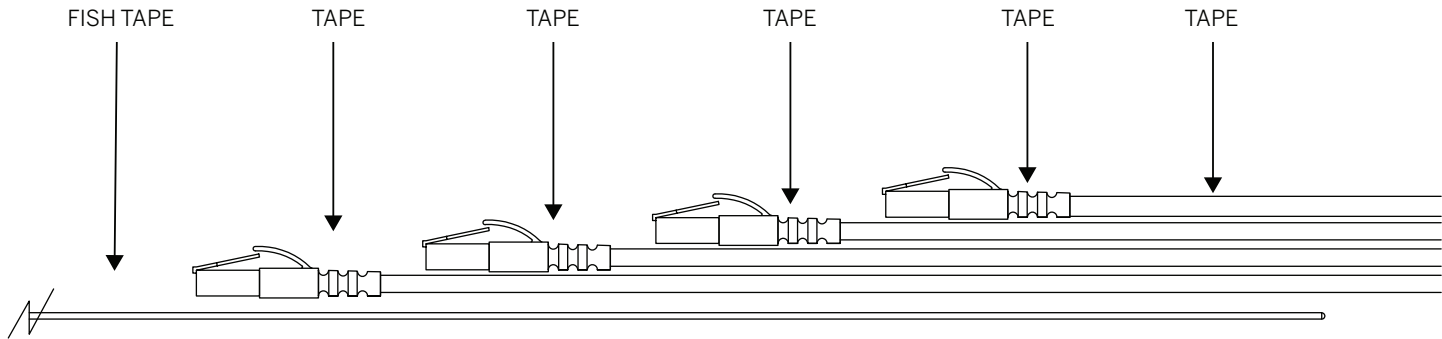
REMOTE CONTROL (PRO-REMOT)  
BACK



CEILING MOUNTED INFRARED SENSOR (PRV-SENSR)



INSTALLATION: CABLES

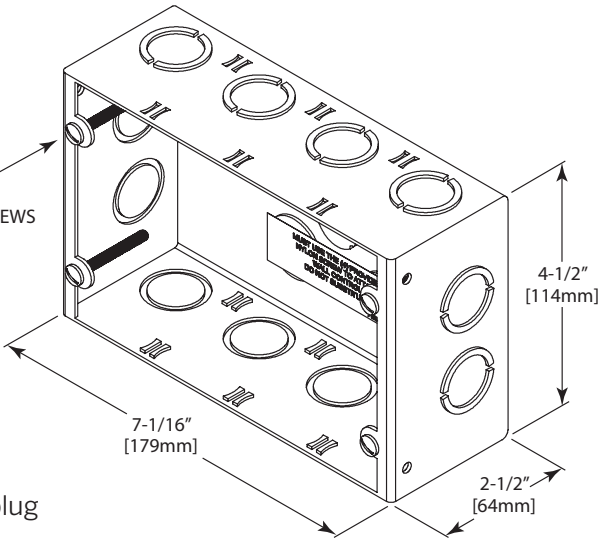


3/4" minimum conduit with a bend radius of 6" or larger required. Attach fish tape as shown to protect the cable ends from being damaged as they are routed. Do not pull cable by its connector; damage may occur.

INSTALLATION: WALL CONTROL BACK BOX

MUST USE THE (4) PROVIDED  
NYLON SCREWS TO ATTACH  
WALL CONTROL  
*DO NOT SUBSTITUTE*

(4) NYLON SCREWS  
PROVIDED



INSTALLATION: WALL CONTROL

- 1. Determine which fixture is going to be identified as #1 and plug its cable into the "FIX 1" port on the back of the wall control.
- 2. Repeat as necessary for any remaining fixtures.
- 3. Mount the wall control into the back box using the 4 supplied nylon screw.

DIRECTIONAL RECONFIGURATION

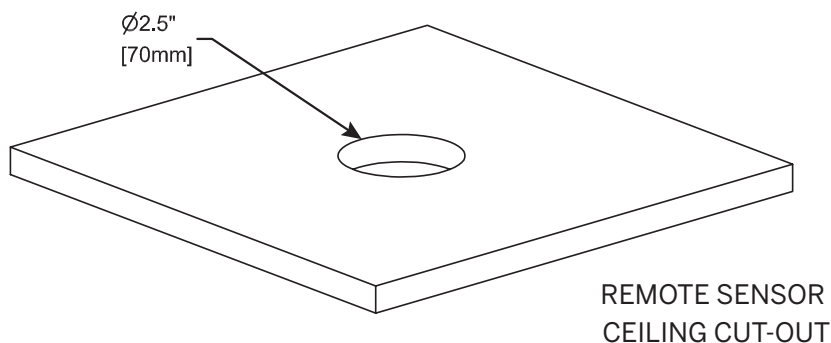
The system is designed to allows the direction of the "head" button to be rotated clockwise in 90 degree increments. This is achieved by entering configuration mode at the wall control and adjusting.

To enter configuration mode:

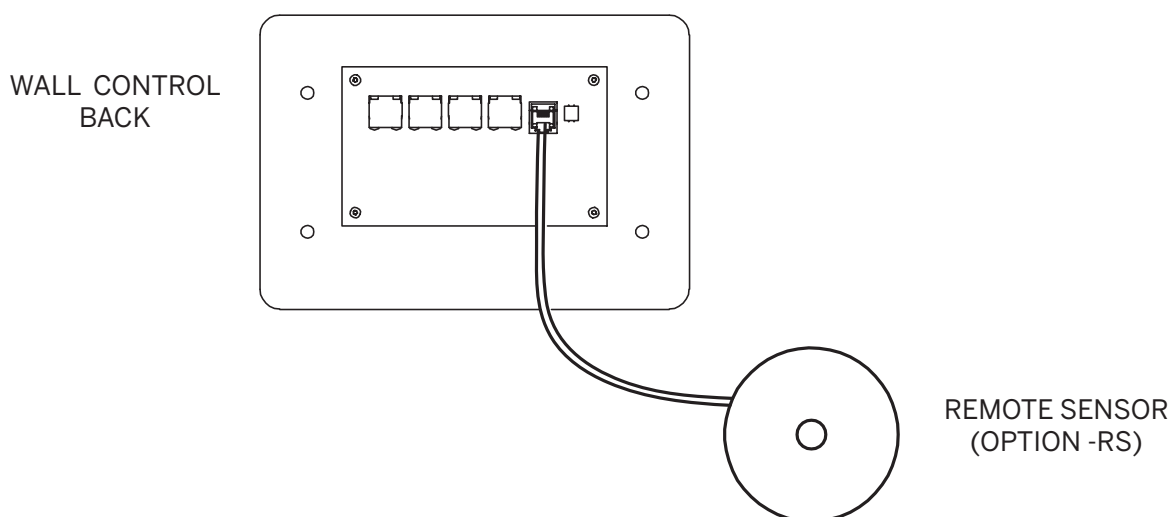
- 1. Power on system and select the fixture to be reoriented at the wall control.
- 2. Press and hold the POWER button for 30 seconds to enter configuration mode (system initially turns off, but powers back on after the 30 seconds).
- 3. Use the LEFT and RIGHT arrows on the wall control to adjust the fixtures rotation by 90 degrees clockwise. The LEDs change to indicate the degree of adjustment.
- 4. Press and release the power button to save the adjustment.
- 5. Repeat as needed.

| Illuminated LEDs | Degrees of Rotation (Clockwise) |
|------------------|---------------------------------|
| 1                | 0                               |
| 1+2              | 90                              |
| 1+2+3            | 180                             |
| 1+2+3+4          | 270                             |

## CUT-OUT INFORMATION: REMOTE SENSOR (PRV-SENSR)



## WIRING: REMOTE SENSOR (PRV-SENSR)



## MAINTENANCE GUIDE:

### ***Cleaning the Lens:***

1. Turn off luminaire and allow lens to cool.
2. Carefully pull down lens/trim assembly and unplug indicator cable if present. (PRO- fixtures have a pull down lens, PRV- fixtures have mechanical fasteners).
3. Use glass cleaner and a lint free cloth to clean the lens on both sides; repeat step if necessary.
4. Re-install.

### ***Replacing the Remote Control Battery:***

5. Turn Remote Control over and remove battery compartment door.
6. Remove old battery and replace with AA alkaline batteries. Never mix new and old batteries.

### ***Cleaning the Remote and Wall Controls:***

7. Use a 70% isopropyl alcohol solution and soft cloth.
8. Wipe clean the surface of the Wall Control.

## NOTES