KIMLIGHTING



Lightvault[®] LTV81/LTV82/LTV83 Installation Instructions

In-grade luminaires often become ineffective or inoperable simply because they are not installed and maintained correctly. While it is tempting to install these fixtures at or below grade, this generally turns out to be unsatisfactory unless the installation is in a paved area. When the fixtures are installed too low, they become a collection point for dirt, mud and encroaching ground cover.

INSTALLATION GUIDELINES:

Remember, always isolate and elevate.

CREATE A BUFFER ZONE:

When the fixtures are to be installed in areas planted in ground cover and shrubbery, a buffer zone is needed to prevent lens overgrowth as the plants mature. Elevating the fixture will encourage water runoff around the unit rather than over the top.

Advantages of a buffer zone:

- Helps prevent lens overgrowth.
- Provides a defined edge for trimming.
- Provides drainage around fixture and helps keep the lens clean.
- Rock-fill partially buffers fixture from corrosive soil and improves ground drainage.
- Visually looks like a flush mounted installation.

INSTALL IN CONCRETE:

Another option for ground cover, shrubbery or lawn areas is to encase the fixture in concrete. This has some additional advantages over the rock-fill method (above).

Advantages of concrete installation:

- Allows higher wattage lamps because concrete makes an excellent heat sink.
- Totally isolates fixture from corrosive soils.
- Helps prevent lens overgrowth.
- Allows edging without scratching fixture.
- Provides drainage around fixture and helps keep the lens clean.
- Rock-fill partially buffers fixture from corrosive soil and improves ground drainage.
- Visually looks like a flush mounted installation.

Note: Always use adequate rebar surrounding the fixture to prevent cracking of concrete.

USE REBAR CAGE ANCHOR IN PAVED AREAS

To make fixture installation easier in concrete, use Rebar Cage Anchor (RCA81/82/83) and tie into paving rebar to support fixture during concrete pour.

Advantages of paved area installation with rebar cage anchor

- Supports fixture during concrete pour.
- Can be easily tied into reinforcing rods used for paving
- Easily adapts to any paving material.

NOTE: Concrete foundation is to be designed according to local soil conditions (by others).

With a little pre planning and care, below-grade luminaires can be installed in a manner that will promote easy maintenance and longevity. The following installation methods represent our best recommendations.



All conduit connections <u>must be sealed Per 2011</u> <u>NEC 300.5 (G)</u> in order for the Pour box to remain dry! (sealant not supplied.)





 $\label{eq:response} \begin{tabular}{c} {\sf Rebar Cage Anchor ties into rebar} \\ {\sf to support fixture during concrete pour.} \end{tabular}$



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CAUTION:

- To help maintain a clean, dry splice compartment, <u>always apply sealant to</u> <u>both conduit threads and molded</u> <u>housing to seal.</u> (sealant not supplied.)
- When tightening gasketed splice cover into bottom of molded housing, always Torque screws to 25-30 in-lbs in a star pattern.
- Make sure all electrical supply is **OFF** before starting fixture installation.

ALIGNMENT: Fixture lens frames can be installed on housings at 90° Increments. Care must be taken when installing the housing so directional lens frames can be installed at a desired orientation.

Tools Required: RTV sealant, 3/16" tamper resistant hex wrench, adjustable wrench or pipe wrench





IMPORTANT SAFETY INSTRUCTIONS TO AVOID RISK OF FIRE OR INJURY!

WARNING: Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to take these steps may result in serious personal injury. All electrical work should be done by a qualified electrician

SAFETY WARNING: DO NOT install these fixtures in submersible installations such as fountains or swimming pools. Extreme caution should be taken when installed in paved areas. MAINTENANCE: To maintain light efficiency and prevent overheating, lenses must be kept clean and free of dirt, dust, leaves, trash and mineral deposits from water. For optimum performance a regularly scheduled maintenance program should be followed. DO NOT operate luminaire with missing or damaged lens.

KEEP THIS SHEET FOR FUTURE REFERENCE.

FLUSH MOUNTING:

For flush mounting when installing in concrete, top edge of molded housing should be 3/16" below concrete grade.



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CAUTION

• Before installing de-energize circuit and lock out.

MOLDED HOUSING ROUGH-IN INSTALLATION:

Read guidelines on page 1 before starting.

- Excavate 20" dia. hole in desired fixture location. Run conduit 3" deeper than height of housing. Fill with gravel for drainage.
- 2. With 3/16" Allen wrench, unscrew (4) hex screws to remove debris shield from molded housing.
- 3. Check to make sure pour box is dry.
- Remove gasketed splice cover in bottom of molded housing using F" Allen wrench and (6) hex screws.
- Remove pipe plugs from molded housing. Connect molded housing to conduit. <u>Apply sealant to both</u> conduit threads and molded housing <u>to seal</u>. (sealant not supplied.)
- 6. Pull (3) supply conductors into splice compartment.
- Standard Installation: Connect (3) field wires to splice cover connector wires observing polarity, i.e. black (voltage), white (common), and green (ground).
 <u>Wire nut all three DMX leads</u> together; cutters or strippers will be required.
- Cover the bottom of molded housing with a gasketed splice cover using 3/16" Allen wrench and (6) hex screws. Torque screws to 25-30 in-lbs in a star pattern.
- 9. With 3/16" Allen wrench, screw in (4) hex screws to reinstall debris shield.
- **10.** Align molded housing using markings on debris shield keeping longitudinal reference line parallel to street, wall or walkway.
- Back fill for stability. <u>Do not</u> back fill with bark or Vermiculite. <u>Never install below</u> surrounding <u>ground level.</u>

COMPONENT MODULE INSTALLATION:

- When the component housing has been delivered to site and you're ready to install, unscrew (4) hex screws with 3/16" Allen wrench to remove debris shield.
- Attach the connector to the housing by pressing it with your thumb/palm until it clicks into place. Sealant on connectors is not necessary as rubber o-rings are in place to keep connectors water-tight.
- Drop component housing in place and attach to molded housing using 3/16" tamper resistant hex wrench and (4) tamper resistant hex screws. <u>Torque</u> <u>screws to 25-30 in-lbs.</u>
- **15. NOTE:** When installing an LTV8 with Wall Wash distribution, the Kim Lighting logo on the rim of the housing should be placed closest to the wall.

















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61:7D:24:06:8C:BB

A0:E6:F8:D4:0C:86

00:09:A7:17:B3:A5

78:08:BB:0F:49:DD

6. Select LTV8 in the

menu

Up to 14 strings can be input

Beoplay H4

Hubbell BT Remote Quick Start Guide for iOS and Android.

Setting Up And Enabling Wireless Controlled Optics:

LTV8 luminaires can be controlled via Bluetooth®-equipped mobile devices.

- **1.** Go to the Apple Store or Gogle play to download the Hubbell BT Remote app.
- 2. Power on the LTV8 luminaire.
- 3. Open the Hubbell BT Remote app.



- 4. App may request permission to enable Bluetooth functionality, choose "Yes".
- 5. Go to connections tab to scan for devices.
- 6. Stand near luminaire to be adjusted and scan for devices. A list of both alreadypaired, and available Bluetooth-ready devices will appear. Select the LTV8 fixture you wish to adjust. Lightvault luminaires will appear with "HUBB" prefix.
- 7. Enter security code supplied in product documentation.
- 8. The Kim logo in center of screen will indicate "connected" when LTV8 is paired with your mobile device. The fixture will blink 3 times to confirm connection.
- 9. Use arrow keys to adjust deck-tilt up to 15° in full 360° rotation. Tap arrow for fine adjustments, hold down arrows for continuous sweep.
- 10. Use dimmer slider bar to adjust fixture brightness level. Tap (+/-) for fine increments. (The fixture will dim down as far as 20% of the full 100%). Fixtures manufactured after 07/2019 can be turned on/off with green power switch.
- 11. After fine tuning the LTV8, open application menu. Select the fixture to disconnect and save settings.
- 12. Repeat steps 6 -11 for each additional fixture
- 13. Fixture name and password can be changed or reset. Pick a name and 6 digit password and click ok. Save new password and name for future adjustments. Current device keeps new data.



4. Turn on Bluetooth.



7. Enter PIN*.



5. Go to connections tab to scan for devices



8. Connected.



Tip: Bluetooth signal exits the fixture through the glass lens. The signal cannot travel through the brass housing. For best results, be sure your device is in the line of sight of the LED's.

13. Password.

* For Bluetooth pairing PIN see label near the serial number on the fixture or contact your KIM agent.

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Trouble pairing device and Hubbell BT REMOTE with fixture.

1. When pairing initially, stand as close as possible to the fixture.

- 2. Power down fixture for 15 seconds and power back on.
- **3.** Pair one device at a time.
- 4. Close app. To do this on an Android device go to Settings > Applications (or Aplications Manager) > Downloaded > KIM REMOTE > Force Stop. To do this on an Apple device (iOS 7): Push home button twice, find KIM REMOTE app, hold the app icon and swipe up. To do this on an Apple device (iOS 6): Push home button twice, find KIM REMOTE app, tap the X to close.
- We recommend using one type of bluetooth device (apple or android) when pairing. When pairing multiple types of devices with the same fixture, power down the fixture for 15 seconds before switching devices.
- **6.** A phone case/cover may interfere with the Bluetooth signal. Removing your case can significantly improve connectivity.

Why did my dimming settings change?

The advanced electronics inside the LTV8 are designed to retain your settings for both dimming and aiming. **Note:** Each time you **connect** to the fixture with the KIM REMOTE app, dimming settings are automatically reset to 100%. Please follow the following steps.

- **1.** Power on fixture.
- 2. Pair and Connect device.
- 3. Aim and set dimming.
- 4. Disconnect the device. (This will store your settings in memory)
- 5. Once settings are stored the fixture does not require power to retain settings.

For warranty see http://www.hubbelllighting.com/resources/warranty

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