PacLights Ultimate II
LED Retrofit Kit
Installation Guide

Retrofitting Parking lot shoeboxes, streetlights, floodlights, wall packs, high bays, and canopies has never been easier. The unique design of the LED panel provides the Ultimate Retrofit series the ability to retrofit a majority of fixtures no matter for vertical or horizontal installation.

PacLights Ultimate II LED retrofit kits will replace Metal Halide or other HID bulbs from 150W to 1500W.

**NOTE** In all retrofit solutions the Internal Reflector MUST BE REMOVED to improve air flow inside of the fixture. Removing the reflector, ballast and any other original HID components will help the heat dissipation, keeps the LEDs cooler and improves product longevity.

The clear plastic cover (which with PacLights sticker) on the LED panel is designed to protect LED chips during the installation, it MUST BE REMOVED AFTER installation completed.

Please keep in mind the LED Panel is NOT weatherproof, the Driver however, is IP65/67 weatherproof. In other words, the LED panel MUST be protected from weather by the fixture housing, but the driver can be installed outside of the fixture or even remotely (limited range).

PLEASE NOTE ALL MOUNTING BRACKETS/PLATES MENTIONED IN THIS DOCUMENTS ARE NOT INCLUDED, PLEASE CUSTOMIZE FROM YOUR LOCAL MACHINE SHOP. IF YOU HAVE ANY QUESTION ON INSTALLATION, PLEASE CONTACT US. DO NOT USE THE ORIGINAL SCREW SOCKET TO MOUNT THE RETROFIT, IN MOST CASE THEY ARE TOO WEAK TO HOLD THE LED PANEL.

model shown - RK150LVD-CW
How to Connect (*Ultimate II is pre-wired with dimmable driver*)

**Direct Connection to AC Power (default, 1 x Driver)**

![Diagram showing direct connection to AC Power with one driver](image)

**Direct Connection to AC Power (default, 2 x Drivers or more)**

![Diagram showing direct connection to AC Power with two drivers](image)

**Connection with “Dusk to Dawn” Photo Sensor (optional)**

![Diagram showing connection with photo sensor](image)
The job of retrofitting these fixtures can be accomplished easily. Please remove the bulb/socket, reflector and the ballast. A driver plate (not included) can mount the driver to any screw port inside of the fixture, or simply place the driver to any space allowed (inside or outside of the fixture).

The LED panel will then be mounted onto any existing screw holes using a customized mounting plate (not included). The LED panel will be adjusted to a certain angle to provide proper lights distribution.

If space allowed, the LED head can also be mounted on the backside of the fixture as shown in above photos. Connect the “input” wires of the driver directly to AC supply as shown in previous diagram.

**Wall Packs**

The reflector will be removed. Driver mounting plate (not included) can be mounted to any screw holes on the inside of the wall pack. The driver will then be attached to the driver plate. Or, the driver can be anywhere allowed.

The LED panel will then be mounted onto any existing screw holes on the housing, using a customized mounting plate (not included)

Connect the “input” wires of the driver directly to AC supply as shown in previous diagram.
Cobra Heads (Street Lights)

In this example, the original base was attached to the reflector, hence it will be removed with the reflector. The LED panel and driver can be mounted to the screw hole that originally holds the reflector, inside of the fixture, using a customized mount plate.

A customized mounting plate may be required for some other models of fixtures (not included).

HighBay

High Bay lights can be easily retrofitted. The LED driver will replace the ballast that sits in the ballast box. Remove light bulb and socket base.

The Ultimate LED head will then be mounted onto the existing screw hole by using a customized mounting plate (not included), and wires will be connected.

Should the ballast box not large enough to accommodate the LED driver, the driver can also be attached to the mounting bracket by using an customized driver bracket (not included) as shown on the photo.

Please make sure the mount is strong enough to withhold the weight of the retrofit kit. A extra security cable is recommended for safety reason (not included).

Canopies

Whether for vertical or horizontal installation, the versatility of the LED panel makes retrofitting these fixtures an easy job.

For any other lighting fixtures, there’s always a solution for retrofit. Do not retire your lighting fixtures when you can retrofit them. Customize all mounting plates with your local machine shop.