# UVK-90012
## Vekter 6 Double Head Streetlight

**LIGMAN LIGHTING USA**

**2x54w LED**
**2x6879 Lumens**

**Weight 29.1 lbs**

**IP65**
Suitable for wet locations

**IK08**
Impact Resistant [Vandal Resistant]

**EPA – 3.62**

**POLE NOT INCLUDED**

ida DARK SKY APPROVED 2016

TURTLE FRIENDLY

12.5"

10.2"

32.4"

45°  45°

13.4"

3.7"

Ø2.9"x3.5"

**Tenon Detail**

## Construction

**Aluminum**
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

**Pre paint**
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

**Memory Retentive –Silicon Gasket**
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

**Thermal management**
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

**Surge Suppression**
Standard 10kv surge suppressor provided with all fixtures.

**BUG Rating**
B1 - U1 - G1

**Finishing**
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

**Paint**
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

**Inspired by Nature Finishes**
The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

**The Coating Process**
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits
• Resistance to salt-acid room, accelerated aging
• Boiling water, lime and condensed water resistant
• Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
• Super durable (UV restant)
• TGIC free (non-toxic)

**Hardware**
Provided Hardware is Marine grade 316 Stainless steel.

**Anti Seize Screw Holes**
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

**Crystal Clear Low Iron Glass Lens**
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

**Optics & LED**
Precise optic design provides exceptional light control and precise distribution of light.
LED CRI > 80

**Lumen - Maintenance Life**
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

**Flexible column-mounted floodlighting and area luminaires. Sleek, angular, technical and powerful professional lighting solutions.**
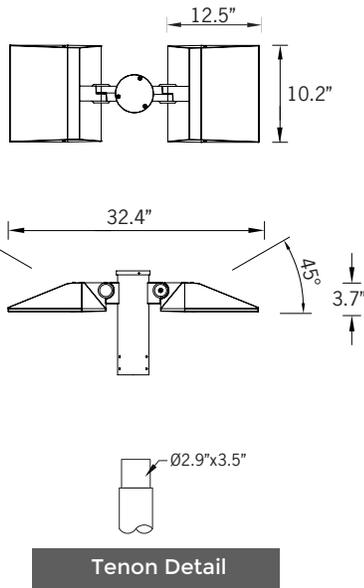
A slim wedge shaped pole mount area light with a variety of different distributions to suit all lighting designer's requirements. This luminaire has been designed to provide excellent light distribution patterns using a low wattage LED package. The result is excellent spacing to mounting height ratios, with a uniform lighting layout that meets code requirements using less energy.

The Vekter can be utilized to suit specific light patterns using the asymmetrical type II, III, IV and symmetrical lens optics, as well as variations of these for precise light distribution requirements. An example of this is using a combination of Type II & Type IV distribution optics inside the same fixture. Type V distributions in medium, wide, very wide & extra wide are also available.

These fixtures are adjustable, and can also be aimed as floodlights to provide focus lighting in specific areas, as well as facade lighting. This luminaire is suitable for most applications and complies to dark sky requirements when mounted in the horizontal position. Designed for lighting private roadways, car parks, exhibition areas, service stations and truck stops. Internal house side shields are available as an option.

Available with a selection of integral electronic and dimmable electronic drivers as well as a provision to install wireless lighting controls to integrate with building management systems. (WATT-ADJ) This luminaire is provided with a programmable driver so that specific wattage requirements can be achieved. These settings are done at the factory during assembly.

To meet International Dark Sky criteria, 3000k or warmer LEDs must be selected and luminaire fix mounted (+/- 15˚ allowable to permit leveling).

# UVK-90012
## Vekter 6 Double Head Streetlight

**LIGMAN LIGHTING USA**

| PROJECT | | DATE | |
|---|---|---|---|
| QUANTITY | | TYPE | | NOTE | |

**ORDERING EXAMPLE || UVK - 90012 - 2x54w - T2 - W30 - 02 - 120/277v - Options**

| UVK-90012 | | | | | |
|---|---|---|---|---|---|
| | **LAMP** | **BEAM** | **LED COLOR** | **FINISH COLOR** | **VOLTAGE** |

**LAMP**
2x54w LED
2x6879 Lumens

**BEAM**
T2 - Type II Distribution
T3 - Type III Distribution
T4 - Type IV Distribution
M - Medium 32°
W - Wide 52°
VW - Very Wide 67°
EW - Extra Wide 117°

**LED COLOR**
W27 - 2700K
W30 - 3000K
W35 - 3500K
W40 - 4000K

**FINISH COLOR**
01 - BLACK RAL 9011
02 - DARK GREY RAL 7043
03 - WHITE RAL 9003
04 - METALLIC SILVER RAL 9006
05 - MATTE SILVER RAL 9006
06 - LIGMAN BRONZE
07 - CUSTOM RAL

**VOLTAGE**
120/277v
Other - Specify

**INSPIRED BY NATURE FINISHES**
SW01 - OAK FINISH
SW02 - WALNUT FINISH
SW03- PINE FINISH
DF - DOUGLAS FIR FINISH
CW - CHERRY WOOD FINISH
NW - NATIONAL WALNUT FINISH
SU01 - CONCRETE FINISH
SU02 - SOFTSCAPE FINISH
SU03 - STONE FINISH
SU04 - CORTEN FINISH

THERE IS AN ADDITIONAL
COST FOR THESE FINISHES
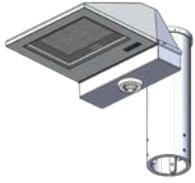
## ADDITIONAL OPTIONS

DIM - 0-10v Dimming
NAT - Natatorium Rated
WLC - Wireless Lighting Controls
GFCI - GFCI Box
AMB - Turtle Friendly Amber LED

HSS - House Side Shield
F - Frosted Lens
OS - FSP Occupancy Sensor [See last page]
FSIR - Occupancy Sensor Remote Programmer [See last page]

**OS**
**Occupancy Sensor**

## More Custom Finishes Available Upon Request
Consult factory for pricing and lead times

Oak

Cherry

Beech

Carbon

Walnut

Chestnut

Bamboo

Galvanized

Pine

Mahogany

Birch

Steel

Example: Inspired by Nature Finish

cETLus
Intertek

# Vekter Product Family



**Vekter 1**
- UVK-30001-20w-2446lm
- UVK-30002-28w-3330lm

**Vekter 2**
- UVK-30003-37w-5143lm
- UVK-30004-54w-6954lm

**Vekter 3**
- UVK-10001-20w-2473lm
- UVK-10002-28w-3330lm

**Vekter 4**
- UVK-10011-2x20w-2x2473lm
- UVK-10012-2x28w-2x3330lm

**Vekter 5**
- UVK-90001-37w-5143lm
- UVK-90002-54w-6954lm

**Vekter 6**
- UVK-90011-2x37w-2x5143lm
- UVK-90012-2x54w-2x6954lm

**Vekter 7**
- UVK-30011-20w-2473lm
- UVK-30012-28w-3330lm

**Vekter 8**
- UVK-30031-37w-5143lm
- UVK-30032-54w-6954lm

**Vekter 9**
- UVK-30021-20w-2473lm
- UVK-30022-28w-3330lm

**Vekter 10**
- UVK-30041-37w-5143lm
- UVK-30042-54w-6954lm

**Vekter 11 - 13.1'**
- UVK-20001-20w-2473lm
- UVK-20002-28w-3330lm

**Vekter 12 - 13.1'**
- UVK-20003-37w-5143lm
- UVK-20004-54w-6954lm

**Vekter 13 - 13.1'**
- UVK-20011-2x20w-2x2473lm
- UVK-20012-2x28w-2x3330lm

**Vekter 14 - 13.1'**
- UVK-20013-2x37w-2x5143lm
- UVK-20014-2x54w-2x6954lm

**Vekter 15**
- UVK-90021-4x20w-4x2473lm
- UVK-90022-4x28w-4x3330lm

**Vekter 16**
- UVK-90031-4x37w-4x5143lm
- UVK-90032-4x54w-4x6954lm

**Vekter 17 - 19.6'**
- UVK-20021-20w-2473lm
- UVK-20022-28w-3330lm

**Vekter 18 - 19.6'**
- UVK-20023-37w-5143lm
- UVK-20024-54w-6954lm

**Vekter 19 - 19.6'**
- UVK-20031-2x20w-2x2473lm
- UVK-20032-2x28w-2x3330lm

**Vekter 20 - 19.6'**
- UVK-20033-2x37w-2x5143lm
- UVK-20034-2x54w-2x6954lm

**Vekter 25**
- UVK-90041-20w-2473lm
- UVK-90042-28w-3330lm

**Vekter 26**
- UVK-90051-2x20w-2x2473lm
- UVK-90052-2x28w-2x3330lm

**Vekter 27**
- UVK-90061-37w-5143lm
- UVK-90062-54w-6954lm

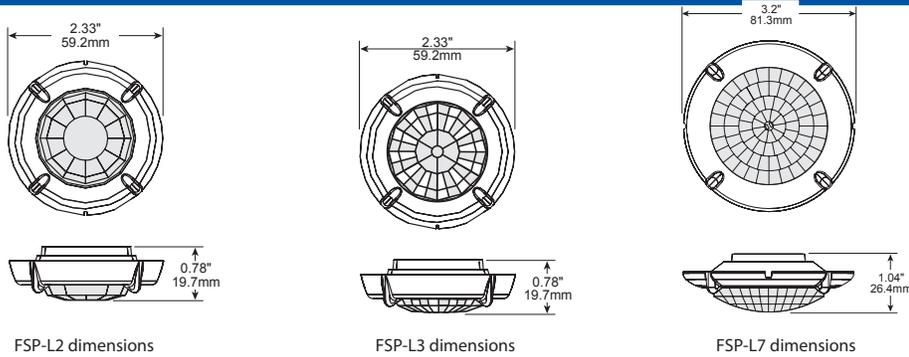**Vekter 28**
- UVK-90071-2x37w-2x5143lm
- UVK-90072-2x54w-2x6954lm

# HIGH/LOW/OFF PIR OUTDOOR PHOTO/MOTION SENSOR
## IP66 - legrand® Integrated photocell

# LIGMAN
## LIGHTING USA

Ligman provides integrated photocell control using the wattstopper legrand FSP-221B.
These units are installed inside the fixture housing with only the external lenses being visible
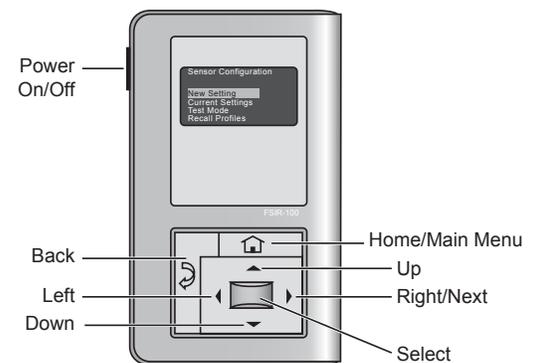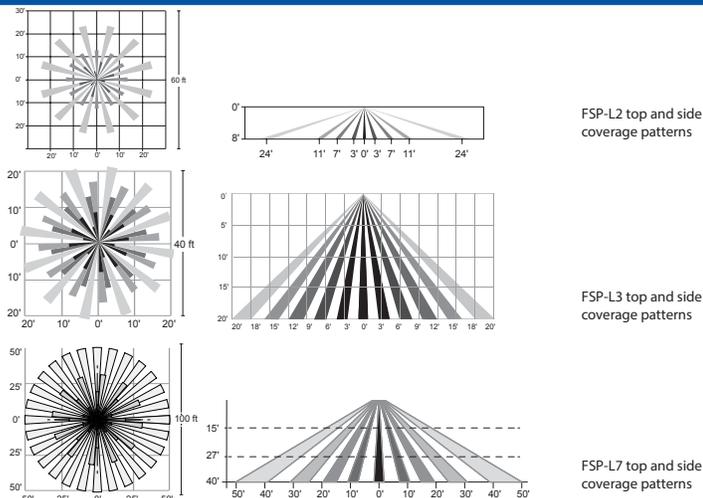
FSP-221B

## Models

FSP-221B, 100-347 VAC

## Specifications and Features

Three interchangeable lenses for mounting between 8' and 40'

Remote setup and adjustment with handheld wireless configuration tool

Adjustable high and low modes (high: 0 to 10V, low: off, 0 to 9.8V)

Adjustable time delay (30 seconds, 1 to 30 minutes)

Adjustable cut off delay (none, 1 to 59 minutes, 1 to 5 hours)

Adjustable sensitivity/service mode (low, med, max; on-fix, off-fix)

Adjustable setpoints: hold off setpoint (none, 1 to 250 fc, auto); photocell on/off setpoint (1 to 250 fc)

Adjustable ramp and fade times (1 to 60 seconds)

Operating temperature: -40°F to +167°F (-40°C to +75°C)

IP66 rated

Five year warranty

## Dimensions of Lens Options

2.33"
59.2mm

0.78"
19.7mm

FSP-L2 dimensions

2.33"
59.2mm

0.78"
19.7mm

FSP-L3 dimensions

3.2"
81.3mm

1.04"
26.4mm

FSP-L7 dimensions

## Factory Defaults

| | |
|---|---|
| High mode: | 10V |
| Low mode: | 1V |
| Time delay: | 5 minutes |
| Cut off: | 1 hour |
| Setpoint: | Disabled |
| Sensitivity: | Max |
| Ramp up time: | Disabled |
| Fade down time: | Disabled |
| Photocell On/Off: | Disabled |

## Product Overview

The FSP-221B is a family of passive infrared (PIR) outdoor sensors that raise or lower the electric lighting level to high, low or off based on motion and/or daylight contribution. Typically, once the sensor stops detecting movement and the time delay elapses, lights will first fade to low mode, and eventually switch off. When motion is detected, the sensor ramps the light level to high mode unless the daylight contribution is sufficient.

The integral photocell can also switch the lights on and off for dusk to dawn control, so that lighting remains on overnight even without motion detection.

The sensors control 0-10VDC or nondimming LED drivers or ballasts.

The low voltage FSP-201B may be used with dim-to-off drivers or ballasts.

Initial setup and subsequent sensor adjustments are made using a Wireless Handheld Configuration Tool (FSIR-100). This tool enables adjustment of sensor parameters including high/low mode, sensitivity, time delay, cut off and more.

The FSIR-100 can read current parameter settings, and stores up to six sensor parameter profiles to speed commissioning of multiple sensors.

## Coverage

30'
20'
10'
0'
10'
20'
60 ft
20'  10'  0'  10'  20'

0'
8'
24'     11' 7'  3' 0' 3' 7' 11'     24'

FSP-L2 top and side coverage patterns

20'
10'
0'
10'
20'
40 ft
20'  10'  0'  10'  20'

0'
5'
10'
15'
20'
20' 18' 15' 12' 9' 6' 3' 0' 3' 6' 9' 12' 15' 18' 20'

FSP-L3 top and side coverage patterns

50'
25'
0'
25'
50'
100 ft
50'  25'  0'  25'  50'

0'
15'
27'
40'
50' 40' 30' 20' 10' 0' 10' 20' 30' 40' 50'

FSP-L7 top and side coverage patterns

Power On/Off

Sensor Configuration
New Setting
Current Settings
Test Mode
Recall Profiles

FSIR-100

Back
Left
Down

Home/Main Menu
Up
Right/Next
Select

The **FSIR-100** is a convenient handheld remote tool for sensor setting.
Adjustable settings can be changed as needed for specific applications.

| Catalog # | | Color | Description |
|---|---|---|---|
| ☐ | FSP-L2 | White/Grey/Black/Brown<br>The Trim color option will be selected to closest match fixture color. e.g (Matte silver fixture - grey trim) | 360° lens, maximum coverage 48' diameter from 8' height |
| ☐ | FSP-L3 | White/Grey/Black/Brown<br>The Trim color option will be selected to closest match fixture color. e.g (Matte silver fixture - grey trim) | 360° lens, maximum coverage 40' diameter from 20' height |
| ☐ | FSP-L7 | White/Grey/Black/Brown<br>The Trim color option will be selected to closest match fixture color. e.g (Matte silver fixture - grey trim) | 360° lens, maximum coverage 100' diameter from 40' height |
| ☐ | FSIR-100 | Black | Remote Handheld Configuration Tool |