



Sun-In-One™
New Electrical Solar Light and Power Products



SKYEYE™

LED STREET LIGHT SYSTEM

SUPER BRIGHT LED STREET LIGHTS AND PARKING LOT LIGHTS

CUSTOM CONFIGURATIONS AVAILABLE:

- INTELLIGENT MOTION SENSORING
- VIDEO SURVEILLANCE CAMERA
- PLUG & PLAY WIRELESS CONTROLS
- SOLAR POWER
- SPEAKER & MICROPHONE

Uses Less Watts and Does So Much More!

SkyEye™ optimizes an illumination Lighting System with features to configure your location's exact needs:

- **Industry Leading LED Lights with Superior Brightness**
Street Lights: Optimized 120W, 150W, and 200W
Parking Lot Lights: Optimized 80W, 100W, 120W, 300W
- **SkyEye™ Motion Sensing Lights**
Provides up to 25% additional energy savings
- **SkyEye™ 360° Hemispheric Video Surveillance Camera**
Highest Resolution Improves Security and Safety
- **SkyEye™ Plug & Play Wireless Controller**
with Remote Monitoring, Dimming, and GPS & Sensors for Optimum Energy Efficiency
- **Solar Power** Units Available with all Models & Options
- **Speaker and Microphone** for Full Communications Ability



Sun-In-One™

500 Philadelphia Pike, Wilmington DE 19809
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302.762.3100



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- 120W, 150W & 200W LED Light Super Bright 4000K or 5000K
- 12,000-20,000 Lumens
- AC Voltage 100 to 480 Volts
- Aluminum Alloy Housing
- Rugged All Weather IP Construction
- 10 Year Warranty
- UL, DLC, TUV, CE Certifications
- Lighting Control Ready
- Solar Power is Available

SKYEYE™ LED STREET LIGHT SYSTEM

LED STREET LIGHT: SUPER BRIGHT 120, 150 & 200 WATT



Sun-In-One SkyEye™ LED Street Light System brings revolutionary LED lighting with uniform and energy-conscious illumination to walkways, parking lots, and local and major roadways internationally. Our cutting-edge LED technology and contemporary design optimizes our Street Lights to achieve the brightest illumination of your desired area with the energy savings of LEDs.

Choose from customized LED wattages and fixture colors to satisfy your local requirements. Specialized “breathing seals” protect the optical and electronic chamber to prevent intrusion from insects and environmental contaminants. The rugged aluminum die cast housing is powder coated for durability and equipped with a die cast trigger latch for the bottom-opening door unit. The unit also comes with a 7-pin photo control receptacle on top, standard surge protection, and an auto-off feature when the unit is opened for service.



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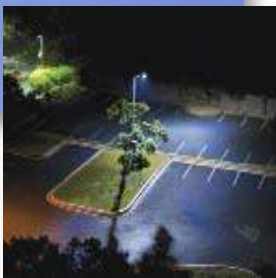
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- 80W, 100W, 120W & 300W LED Light Super Bright High Efficiency 5000K
- Ideal Replacement for 250W-1,000W MH & HID
- 9,000 – 23,500 Lumens
- 24 Volt DC Constant Voltage
- 80 CRI LEDs that last > 50,000 hrs (avg 12 yrs)
- 10 Year Warranty (non-prorated)
- ETL, CSA, UL, RoHS, and DLC Certifications
- Solar Power is Available

SKYEYE™ LED STREET LIGHT SYSTEM

LED PARKING LOT LIGHTS: 80, 100, 120, 300 WATT



PARKING LOT LIGHT HEAD:
16.4"L x 16.4"W x 7.2"D

Sun-In-One SkyEye™ LED Parking Lot Light System evenly and brightly illuminates walkways, streets and parking areas. The classic design of this luminaire is seamlessly efficient and long-lasting. The LED Parking Lot Light is an ideal replacement for 300W MH and HID. Exceptional high-brightness LEDs result in greater light levels and significant energy savings. High-efficiency 5000K >80 CRI LEDs are mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life.

Choose from customized LED wattages to satisfy your local requirements. Specialized "breathing seals" protect optical and electronic chamber to prevent intrusion from environmental contaminants. The unit comes with an optional 7-pin photo control receptacle on top, standard surge protection, and a disconnect feature inside the head when the unit is opened for service.



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SKYEYE™ Motion Sensing Lights



Sun-In-One SkyEye™ Motion Sensing Lights have the first and most universal Motion Sensing Control System for street lighting.

The SkyEye™ Motion System provides light only when and where it is needed, giving optimized energy savings without compromising safety.

SKYEYE™ LED STREET LIGHT SYSTEM

INTELLIGENT MOTION SENSING LIGHTS

Sun-In-One SkyEye™ Motion is an intelligent motion sensing control system that automatically activates as soon as vehicles or pedestrians are detected in the area. When there is no activity, the light is set to an optional minimal light level. SkyEye™ Motion can work as a complete stand-alone system to save energy and maintain safety – simply install and forget. SkyEye™ Motion can be connected via API to a complete control management system through a GPRS connection.

System Operation

- One SkyEye™ Motion unit on each light
- Unique radar technology used for detection
- RF communication between units for forward light trigger, creating a “light wave.” System can be set up with optional number of poles to be activated when movement is detected
- Optional GPRS for system set-up and statistical data: one SkyEye™ Motion unit per installation (>250 units) will include a GPRS module for communication to remote CMS

Key Functionalities

- SkyEye™ Motion is a high end system and incorporates sophisticated software for motion detection
- Stand-alone system
- System can differentiate between slow moving and fast moving objects
- Has a built in adaptive noise cancellation system
- Connects to all dimmable drivers/ballasts



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SKYEYE™ LED STREET LIGHT SYSTEM

INTELLIGENT MOTION SENSING

Installation

SkyEye™ Motion can be retrofitted to existing equipment or it can be installed at the same time as an installation is being upgraded or replaced.

The System is universal to any dimmable luminaire and is suitable for all ballast/drivers (DALI, 1-10V, Solid State/ Mechanical Relay).

SkyEye™ Motion suits various heights, pole diameters, and varying distances between the poles. This active motion is an intelligent motion sensing control system that automatically activates as soon as vehicles or pedestrians are detected in the area. When there is no activity, the light is set to an optional minimal light level.

Technical Data

- Supply voltage: Nominal 100 - 240 VAC, Range 90 -264V (universal input) 47- 63 Hz
- Power consumption: 1.5W (peak 4 W with GPRS module)
- Operating temperature: -22°F to +140°F (-30°C to + 60°C)
- Sensor: Doppler radar
- RF communication: 900 MHz band (ISM), programmable up to +12 dBm (integrated antenna)
- Protective system: IP 66
- Housing material/color: UV resistant thermoset plastic, Grey (RAL 7035)
- Dimensions: 11.6"H x 4.2"W x 7.4"D (295 x 106 x 189 mm) with optional rear cover
- Cable connector: 7 wires. Length standard 3.28 ft (1m). Extra cable per request

GPRS (optional)

Allows remote access for parameter settings & information retrieval (see Luminizer information).

Remote retrieval of statistical data, e.g.:

- Time the lamp has been at high or low light level

SIM card to be locally provided for the GPRS units.



Detection

- System detects objects moving from ~1 mph to 120 mph
- Detection algorithms separate object detection into two separate data channels for slow and fast moving objects. This gives possibility to customize settings like:
 - Light levels when detection in different channels
 - Number of light poles activated around different objects
- Detection area will cover all normal light pole installations
- Detection range: Unilateral asymmetric

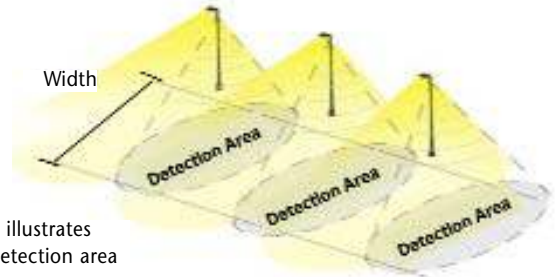


Figure illustrates SKYEYE detection area

Height of Light Pole	Typical Detection Width for Pedestrians	Typical Detection Width for Vehicle at 25 mph
13 FT (4M)	~26 FT (8M)	~49 FT (15M)
26 FT (8M)	~33 FT (10M)	~59 FT (18M)
33 FT (10M)	~39 FT (12M)	~66 FT (20M)

Parameter Settings

Adjustable parameters:

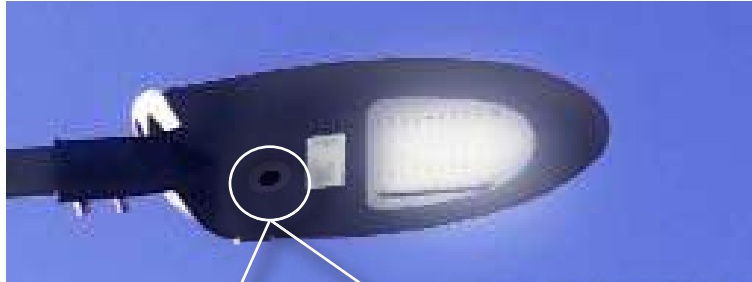
- Number of light points forward to be triggered from detecting unit in both fast and slow detection channel
- Light level when traffic is detected
- Light level when no traffic is detected
- Settings for rush hour traffic, e.g. temporary high level intensity at pre-set times of day, evening or night
- Crossroad or junction handling
- Time to keep high light level when traffic is detected

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- Super-wide 360° Hemispheric Video Capture
- 6MP Moonlight Color / B&W Camera with Sharp Images and twice the resolution of a full HDTV
- Designed to withstand high humidity and extreme conditions
- License Plate Capture and Gun-Fired Software (available)
- Secure Video Motion Analysis with Alarm Messaging (available)

SKYEYE™ LED STREET LIGHT SYSTEM

360° VIDEO SURVEILLANCE CAMERA



Decentralized Video

Sun-In-One SkyEye™ 360° Video Surveillance Camera is an intelligent decentralized built-in camera allowing users to build cost effective systems with unlimited scalability (even terabytes) of automatic video recording onto an SD Card and Wireless Network using standard IT storage and networking devices. No central PC, DVRs or VMS required.

Software 100% Included

Advanced functions are built in: Video Management, Image Analysis, and VoIP Calling. Professional Video Management Software (VMS) without limitations are included for Windows, Mac and Linux.

Intelligent Imaging Optimization & Correction Inside the Camera

Images are optimized as well as image correction (de-warping) and resizing. This means highest quality Hemispheric Video capture and streaming across local and mobile networks providing improved Bandwidth Management and Storage Minimization.



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- Contains Energy Management and LED Optimizing Software
- Web Interface and Content Storage System for secure access through servers built at a central location
- Input Connections for different environmental sensing devices: Camera, Radar, Energy Efficiency
- 900 MHz and Web Mesh Network enable Street Lights or Parking Lot Lights & Cameras to communicate with each other

SKYEYE™ LED STREET LIGHT SYSTEM

PLUG & PLAY WIRELESS CONTROL SYSTEM

Sun-In-One SkyEye™ Wireless Control System transforms ordinary lights into “smart” LED Street Lights and Parking Lot Lights. Using the latest intelligent RF-Wireless technology, SkyEye™ wireless controllers are connected to its own robust, secure web-based Central Management System (CMS) via a wireless gateway. You can operate the software so that a city, town, municipality, or utility can easily manage and monitor their entire network of lights from any internet-based computer.

The SkyEye™ Wireless Control System can enable over 30% in additional energy savings through advanced features such as Dimming, Advanced Scheduling, and revenue-grade Energy Metering. SkyEye™ controls also reduce maintenance and repair cost by 50% or more by providing insight into actual LED operating hours and any power fluctuations. SkyEye™ Controls also allow for repair or replacement before a fixture failure. Enhanced GPS functionality enables easy tracking and grouping of lights by pole ID, thus further reducing maintenance costs.

Repair costs are further reduced through immediate email and text alerts regarding light failure due to vandalism, a blast failure, or downed poles. Crews in the field can respond immediately to any situation and save valuable time instead of returning to base. An optional Tilt Sensor quickly and alerts repair crews to any downed light poles.



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- Security Personnel are able Communicate with Remote Sites
- Safety is enhanced with Full Communications ability
- Pre-recorded Messages can be played to deter crime and theft
- Outside Venues are able to have Entertainment with Music
- Background Music can be aired for stadiums, airports, etc.

SKYEYE™ LED STREET LIGHT SYSTEM SPEAKER & MICROPHONE



Sun-In-One SkyEye™ Speaker & Microphone options can be configured into Street Light or Parking Lot Lighting Systems. Built-in high-quality Speaker/Microphone units directly connect to the head. No additional power supply is required.

These units enable communication with remote sites for enhanced safety and security. Pre-recorded messages can be played as crime deterrents.

- Mount Colors: available in White or Matt Chrome
- Pre-installed in a 20-degree tilting mechanism for optimum range
- Temperature Range: -22°F – 140°F
- IP Rate: IP20 with Nominal / Music Output of 3/4W
- Impedance: 8 Oms
- Material of Speaker: Metal with Perforated Steel Cover
- Connection type: Two-wire Strand with Luster Terminal
- Installation diameter: 2.7 inches



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