

# DEPENDABLE ILLUMINATION OF AIR HAZARDS IS NOT AN OPTION; IT'S A NECESSITY

Improve safety anywhere, any time, under any conditions. Operating independently from the grid, Carmanah solar obstruction lights provide reliable illumination without the need for wiring or other external components subject to breakage.

Field-proven and time-tested to perform in conditions ranging from desert heat to arctic cold, Carmanah lights are designed to endure the extreme environmental conditions encountered at tower and crane sites.

- Over 350,000 installations in 110 countries
- Vibration and shock-proof construction
- Immune to power surges and electrical failure
- Up to 5 years of maintenance-free operations (no bulb or battery changes)
- Designed to meet FAA and ICAO obstruction standards
- Scalable solar engines for worldwide coverage
- Visible and Infrared (IR) light options



# BARRICADES & CONSTRUCTION SITES



# MAXIMUM FLEXIBILITY IN A CONSTANTLY CHANGING ENVIRONMENT

Carmanah OL series lights offer a practical and cost-effective alternative for ground hazard marking, fence and barricade lighting, way-finding, equipment marking and more.

Our unique, portable designs ensure lights can be moved safely and easily within minutes - no specialized tooling or dedicated maintenance crews required. All components are housed in rugged, high-grade enclosures to ensure longterm performance at tough industrial locations.

- No trenching or cabling required
- No external charging pods required
- Easy activation and programming through on-board switches or infrared remote
- Rigorously tested in ambient temperatures from -140 to 60°C
- Steady-on or flashing modes (up to 250 flash patterns)
- Patented energy management systems for consistent performance throughout the calendar year











NEW! OL2A Small format general purpose hazard marker



Hazard marking & way-finding IP68 certification for water ingress



Acceptable at Commercial Part 139 Airports per advisory circular AC 150/5370-2E

Lightweight general purpose hazard marker











# LOW-COST SIGNALLING ALTERNATIVES WHERE GRID POWER IS WEAK OR INACCESSIBLE

At industrial sites where electrical grid-based solutions are difficult to implement and fuel-powered generators expensive to operate and maintain, Carmanah solar-powered lights ensure safe operation around-the-clock.

- Reduce hardware and infrastructure costs by up to 50%
- Minimize impact on local environments
- Eliminate outages from brownouts or generator failure

Carmanah offers a variety of industrial-grade lighting solutions to service your entire site.

- Obstruction lights
- · Runway, taxiway & helipad lighting
- Marine signalling lanterns
- Flood lights
- Traffic signalling

# SOLAR DESIGN INNOVATION



# OUTPERFORMING THE COMPETITION THROUGH BETTER DESIGN

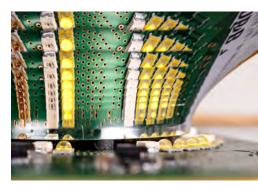
Carmanah has been an innovator in the solar industry since 1996. We are committed to providing our clients with the best available solar technology on the market. All of our products use premium components and leverage the latest in solar energy management to ensure consistent and reliable performance in demanding environments. Carmanah stands behind our products with multi-year warranties and extensive pre- and post-sales support.

### **Design Innovations**

- High-performance LEDs and custom energy-efficient optics
- Highest grade shock and vibration-proof chassis designs
- · Premium vented and temperature-monitored battery packs
- Patented Automated Light Control

#### **Customer Benefits**

- Consistent chromaticity through all intensities and operating modes
- Better energy efficiency for reliable performance around the globe
- Predictable illumination and reduced battery drain throughout the calendar year
- Reliable performance from the smallest format, self-contained solar engine on the market























carmanah.com/obstruction



OL2A SOLAR MARKING LIGHT
OL4 GENERAL PURPOSE HAZARD MARKER
OL10A LOW-INTENSITY OBSTRUCTION LIGHT
OL32 LOW-INTENSITY OBSTRUCTION LIGHT
OL2000 MEDIUM-INTENSITY OBSTRUCTION LIGHT







carmanah.com/obstruction



SOLAR MARKING LIGHT

A PRACTICAL, COMPACT AND LOW-MAINTENANCE SOLUTION FOR MARKING BARRICADES, FENCING, CONSTRUCTION AREAS, GROUND OBSTACLES, AND OTHER HAZARDS. IDEAL FOR REMOTE OR HARD-TO-ACCESS LOCATIONS.

WITH CUSTOM OPTICS, HIGH-EFFICIENCY SOLAR PANELS AND PREMIUM MATERIALS. THE OL2A OFFERS EXCELLENT VALUE AND EXTREMELY RELIABLE OPERATION FOR OVER FIVE YEARS.

### **Advanced Optics**

- Up to 29 cd intensity
- Up to 40 user-adjustable flash patterns with ability to direct enter intensity
- Available in red, white, green, yellow and blue

### **Easy Installation**

- Installs in minutes; "out-of-box" operation
- Flange-mount and pole-mount options
- · Automatic dusk-to-dawn operation or optional on/off switch
- · Optional mini IR remote accessory

### **Low Maintenance**

- · Replaceable batteries: AA NiMH, high-temperature-rated
- · Next generation, energy-saving Automatic Light Control; five-day data trending regulates intensities for longer battery life and optimal performance 12-months a year.

### Reliable

- Premium grade, UV resistant polycarbonate body and lens material
- Waterproof; IP 68 immersion
- · Ventilated battery compartment
- · Life expectancy over 15 years; 3 year warranty

#### **Trusted**

With thousands of installations worldwide, Carmanah solar LED lights operate year-round at permanent and temporary installations.



















OPTIONAL INFRARED PROGRAMMER



FLANGE MOUNT



POLE	NAOI	INIT
FULL	IVIO	ועוכ

SPECIFICATIONS		
	29 cd peak intensity; see table	
	High Power LED	
Optical	Red, Green, White, Yellow, Blue	
	Proprietary optical design	
	40 flash patterns	
Energy Collection	Best-in-class high-efficiency solar cells 0.6 W	
Battery	Three high-temperature NiMH AA batteries rated for ~40 to 185 °F (-40 to 85 °C)	
	Designed for 5 year battery life; Replaceable and recyclable	
Energy Management System (EMS)	Intelligent, microprocessor EMS	
Automatic Light Control 2.0 (ALC 2.0)	When enabled, ALC adjusts output intensity in response to unusually low amounts of sunlight to ensure continued operation	
Programming	Programmable with optional infrared programmer	
	Premium grade UV resistant, polycarbonate body and lens	
Construction	Waterproof battery compartment with Gore® vent	
	Colour indicator matches LED colour	
Tomporatura	-22 to 122 °F (-30 to 50 °C) operating	
Temperature	-40 to 176 °F (-40 to 80 °C) storage	
Weight	Flange Mount: 0.8 lbs (0.37 kg), Pole Mount: 0.9lbs (0.40 kg)	
Mounting	Flange or pole-mount options. Refer to dimensional diagram for details	
Wind Loading	140 knots (72 m/s)	
Ice Loading	0.03 psi (22 kg/m²)	
Shock & Vibration	MIL-STD-202G (for Shock and Vibration)	
	IP 68 immersion, 24 hrs at 1 m (3 ft)	
Ingress	MIL-STD-202G immersion & damp heat cycling	
	MIL-STD-810G rain & salt fog	
Compliance	RoHS; WEEE	
Compliance	FCC, CE	

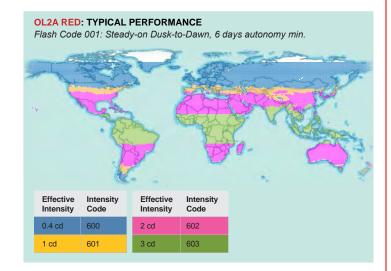
ORDER KEY		
MODEL	OUTPUT ▼	MOUNT▼
OL2A	RED GREEN WHITE YELLOW BLUE	FLANGE MOUNT FLANGE MOUNT - WITH SWITCH POLE MOUNT

## **MODEL**

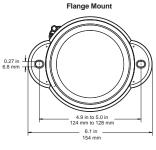
# **SOLAR MARKING LIGHT**

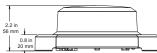
PEAK INTENSITY	
COLOUR	INTENSITY
Red	18 cd
Green	23 cd
White	29 cd
Yellow	25 cd
Blue	8 cd

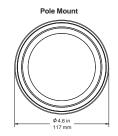
Note: Peak intensity dependent on location and flash pattern. To view performance in your installation location visit www.carmanah.com

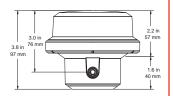


### **DIMENSIONS**









With sleeve: 1.9 in (48 mm) pole ID Without sleeve: 2.4 in (61 mm) pole ID Overtop mount: 2.8 in (71 mm) pole OD

Specifications may be subject to change Carmanah is a Canadian public corporation - TSX:CMH © 2014, Carmanah Technologies Corp.
Document:OL2A\_Spec\_Sheet\_RevB\_RevB

US and International patents apply. "Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.



# OL4

GENERAL-PURPOSE HAZARD MARKER

THE OL4 IS A HIGH-PERFORMANCE LIGHT DESIGNED TO PERFORM RELIABLY AT TOUGH INDUSTRIAL LOCATIONS FROM RAIL YARDS TO CONSTRUCTION ZONES TO MINING OPERATIONS AND MORE. SUITABLE FOR PERMANENT, TEMPORARY OR EMERGENCY INSTALLATIONS.

- Easy installation and relocation: lights are immediately operational following a simple installation process. No specialized work crews required.
- Self-contained and low-maintenance: all components are safely encased in a durable, rugged enclosure. The OL4 includes a replaceable battery pack that extends the total cost of ownership beyond five years and offers significant cost savings.
- Intelligent deployment settings: the OL4 has the unique ability to be tuned to its precise installation location protecting it against improper configuration.
- Unprecedented reliability: microprocessor Energy Management System (EMS) monitors and adapts to environmental conditions for consistent operation and long life under the toughest conditions.
- Designed and tested to the toughest industrial standards: MIL-STD-202G: Humidity, Immersion, Vibration, Shock; MIL-STD-810G: Solar Radiation, Salt-Fog; EN 60945: ESD, EMI, EMC; IP68; L70. The OL4 is acceptable for barricade and construction applications at Commercial Part 139 Airports under FAA Advisory Circular AC 150/5370-2E. The OL4 Blue is compliant with the requirements of ICAO Annex 14, Volume 1, Fourth Edition dated July 2004.
- User-friendly design: on-board user interface, optional infrared remote and USB device manager software offer easy configuration and programming.
- Green solution: recyclable batteries and an RoHS compliant design combined with natural solar charging ensure the lightest environmental footprint.

LIGHTWEIGHT AND SELF-CONTAINED WITH SOPHISTICATED SOLAR ENERGY MANAGEMENT - THE OL4 IS UNRIVALLED BY ANY OTHER HAZARD MARKING OR BARRICADE LIGHT CURRENTLY AVAILABLE.

- Dusk to dawn operation
- · Intuitive on-board user interface
- Intelligent deployment settings for reliable performance in a wide-range of locations
- Proven technology platform



SPECIFICATIONS	
Solar Panel	High-efficiency cells with bypass and blocking diode function. Maximum power point tracking (MPPT) for optimal energy collection
Battery	Tool-less replaceable and recyclable best-in-class battery pack with extreme temperature range. Batter status feedback of Good, Charge or Bad (Replace)
Light Source	High power LED, colour-specific temperature corrected LED drivers provide consistent intensity under all operating conditions
Intensity	4 cd peak (red), steady-on (see photometric plot on reverse). 18 cd peak intensity, flashing, 12.5% duty cycle (Red LEDs)
Flash Patterns	256+
Construction	Premium grade UV resistant, polycarbonate/ polysiloxane co-polymer body and lens material. Double O-ring sealing with waterproof vent
Colours	Red, blue, yellow, green, white ICAO and SAE25050 (FAA) compliant chromaticity
Colour Indicator	Yes, FAA Eng. Brief 67 compliant
Temperature	-45 to 124 °F (-43 to 51 °C) operating
remperature	-45 to 176 °F (-43 to 80 °C) storage
Weight	3.5 lbs (1.58 kg)
Wind Loading	400 mph (180 m/s)
Automatic Light Control (ALC)	When enabled, ALC will dynamically reduce brightness in response to unusually low amounts of sunlight to ensure continued operation.













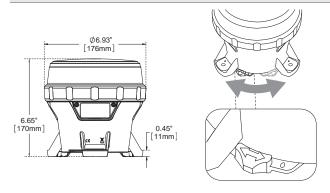
## **MODEL**

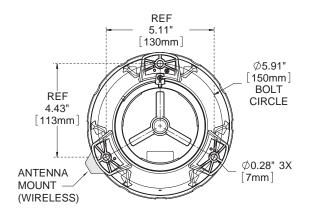
# 0L4

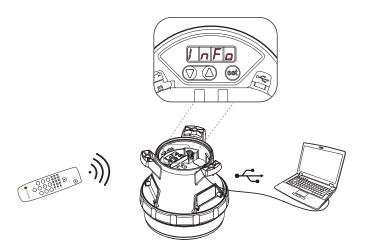
GENERAL-PURPOSE HAZARD MARKER

### **TECHNICAL DRAWINGS AND DIMENSIONS**

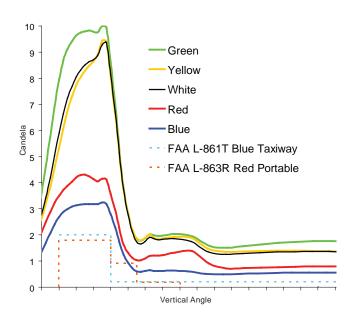
SIDE VIEW SWITCHED VIEW







### **PHOTOMETRICS**



ORDER OPTIONS				
MODEL ▼	OUTPUT ▼ SWITCH ▼		CONTROL ▼	
OL4	RED BLUE GREEN WHITE YELLOW SWITCHED NON-SWITCHED		NONE GPS	
ACCESSORY ORDERING CODES				
Additional Bird Deterrent (1 ships with each light)		57003		
Bottom Cover Replacement Kit		57392 (With Switch) 57393 (Without Switch)		
Battery Replacement Pack		57383		
Battery Charger		59188 (100 - 240 VAC)		
USB cable		57394		
Device manager software		61125		
Infrared Programmer		56818		
Additional accessories and mounting ontions available. For a complete list consult our accessories				

Additional accessories and mounting options available. For a complete list consult our accessories specification sheet.

Specifications may be subject to change Carmanah is a Canadian public corporation - TSX:CMH © 2014, Carmanah Technologies Corp.
Document: OL4\_Spec\_Sheet\_RevC



# OL10A

SOLAR LED OBSTRUCTION LIGHT

CERTIFIED TO MEET THE REQUIREMENTS OF THE LOW-INTENSITY OBSTACLE LIGHT TYPE A, ACCORDING TO ICAO ANNEX 14, VOLUME 1, FIFTH EDITION, JULY 2009 (RED)

- Easy deployment, installation and relocation: solarpowered unit installs rapidly. No specialized work crews required and lights are immediately operational. The OL10A can also be quickly relocated for temporary or emergency applications.
- Self-contained and low-maintenance: all components are incorporated within a compact, stand-alone unit. The OL10A features a replaceable battery pack that extends the total cost of ownership and results in significant cost savings.
- Unprecedented reliability: microprocessor Energy Management System (EMS) monitors and adapts to environmental conditions for consistent operation and long life under the toughest conditions.
- Designed and tested to the toughest industrial standards: MIL-STD-202G: Humidity, Immersion, Vibration, Shock; MIL-STD-810G: Solar Radiation, Salt-Fog; EN 60945: ESD, EMI, EMC; IP68; L70. The OL10A is acceptable for barricade and construction applications at Commercial Part 139 Airports under FAA Advisory Circular AC 150/5370-2E. The OL10A Blue is compliant with the requirements of ICAO Annex 14, Volume 1, Fourth Edition dated July 2004.
- Scalable design: The OL10A features the industry's only fully-self contained, scalable solar engine. Options for standard or high-performance energy packs offer cost-effective and reliable performance in virtually any location.
- Green solution: a clean, renewable and reliable energy source with the lightest environmental footprint.
   The OL10A uses recyclable batteries and is entirely RoHS compliant.

TAKE ADVANTAGE OF THE LATEST TECHNICAL DEVELOPMENTS IN OPTICS AND INCREASED SOLAR OUTPUT.

- Automated dusk to dawn operation
- · Visible and IR modes available
- · Proven technology platform









Standard Solar Engine

High-Performance Solar Engine















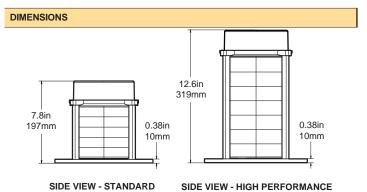
Push button interface On-board diagnostics Output mode selection

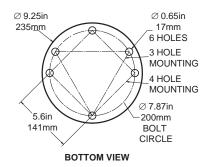
# MODEL 10A

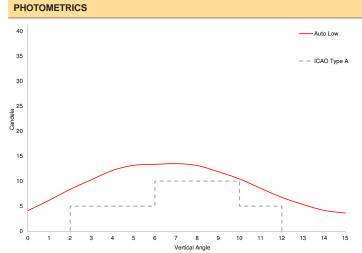
SOLAR LED OBSTRUCTION LIGHT

SPECIFICATIONS		
	ICAO: Complies with the requirements of the Low-Intensity Obstacle Light Type A and Type B according to ICAO Annex 14, Fifth Edition, July 2009 (Red)	
Optical	High-power LEDs meet IES LM-80 lumen maintenance, ensuring consistent photometrics for life of product	
Option	ICAO, SAE25050 (FAA), and FAA EB 67 compliant chromaticity	
	NVG-compatible infrared (IR) LEDs	
	Steady-on and flash patterns	
	High-efficiency cells with blocking diodes	
Energy Collection	Maximum power point tracking with temperature compensation (MPPT-TC) for optimal energy collection in all solar conditions	
	Pure-lead VRLA AGM battery with manufacturer operating range -85 to 176 °F (-65 to 80 °C)	
Energy Storage	On-board battery status	
3, 4 4 3	Designed for 5 year battery life; Replaceable and recyclable	
	Port for battery charging and cabled operation	
	Intelligent, microprocessor EMS	
Energy Management System	On-board diagnostics and datalogger	
(EMS)	Push button interface for local control	
	Autonomous, Temporary, and Emergency Modes	
Automatic Light Control (ALC)	ALC adjusts output intensity in response to unusually low amounts of sunlight to ensure continued operation	
	Premium, UV-resistant polycarbonate lens	
Construction	Powder coated aluminum chassis with integrated handle	
	Waterproof, vented battery compartment	
Townserature	-22 to 122 °F (-30 to 50 °C) operating	
Temperature	-40 to 176 °F (-40 to 80 °C) storage	
Weight	Standard Engine: 12 lbs (5.44 kg) High-Performance Engine: 17 lbs (7.71 kg)	
Wind & Ice Loading	400 mph (179 m/s) wind; 0.03 psi (22 kg/m²) ice	
Shock & Vibration	MIL-STD-202G and MIL-STD-810G	
	EN 60529 IP 67 immersion	
Ingress	MIL-STD-202G immersion & damp heat cycling	
	MIL-STD-810G rain & salt fog	

FAA-STD-019E, EN 61000-4-2







CONFIGURATION					
MODEL ▼	ENGINE ▼	OUTPUT ▼	SWITCH ▼	CONTROL ▼	CHASSIS ▼
OL10A	STANDARD HIGH-PERF.	RED / IR	SWITCHED	NON-WIRELESS	YELLOW

Specifications may be subject to change Carmanah is a Canadian public corporation - TSX:CMH © 2014, Carmanah Technologies Corp. Document: OL10a\_Spec\_Sheet\_RevD

Electrostatic Discharge (ESD)



# OL32

SOLAR LED OBSTRUCTION LIGHT

COMPLIANT WITH OBSTRUCTION LIGHT TYPE L-810 AS PER FAA ADVISORY CIRCULAR AC 150/5345-43F 09/12/06 (RED)

CERTIFIED TO MEET THE REQUIREMENTS OF THE LOW-INTENSITY OBSTACLE LIGHT TYPE A, ACCORDING TO ICAO ANNEX 14, VOLUME 1, FIFTH EDITION, JULY 2009 (RED)

- Innovative design: takes advantage of the latest technical developments in optics and increased output. The OL32 also comes with the industry's only scalable solar engine for cost-effective and reliable performance in a wide range of locations.
- Industry compliant: provides ICAO Type B / FAA L810 intensities of visible light or can be switched to infrared (IR) light for night vision goggle (NVG) operations. The OL32 is also capable of simultaneous visible/IR modes.
- Installs in minutes, easily maintained: self-contained design requires no external components and supports multiple bolt patterns for simplified installation. The light operates automatically from dusk-to-dawn and also includes an external programming switch for simplified activation and programing. Replaceable battery pack ensures extended product life beyond five years.
- Designed and tested to the toughest industrial standards: MIL-STD-202G: Humidity, Immersion, Vibration, Shock; MIL-STD-810G: Solar Radiation, Salt-Fog; EN 60945: ESD, EMI, EMC; IP68; L70. The OL32 is acceptable for barricade and construction applications at Commercial Part 139 Airports under FAA Advisory Circular AC 150/5370-2E.
- Green solution: a clean, renewable and reliable energy source with recyclable batteries. RoHS compliant.

THE NEW BENCHMARK FOR LOW-INTENSITY SOLAR LED OBSTRUCTION APPLICATIONS IN AN EASY-TO-INSTALL, LOW-MAINTENANCE PACKAGE.

- Automated dusk to dawn operation
- · Visible and IR modes available
- Proven technology platform













Standard Solar Engine

High-Performance Solar Engine















Push button interface On-board diagnostics Output mode selection

## **MODEL**

# OL32

SOLAR LED OBSTRUCTION LIGHT

### **SPECIFICATIONS** FAA: Meets Obstruction light Type L-810 as per FAA Advisory Circular AC 150/5345-43F 09/12.06 (Red) ICAO: Complies with the requirements of the Low-Intensity Obstacle Light Type A and Type B according to ICAO Annex 14, Fifth Edition, July 2009 (Red) Optical High-power LEDs meet IES LM-80 lumen maintenance, ensuring consistent photometrics for life of product ICAO, SAE25050 (FAA), and FAA EB 67 compliant chromaticity NVG-compatible infrared (IR) LEDs Steady-on and flash patterns High-efficiency cells with blocking diodes **Energy Collection** Maximum power point tracking with temperature compensation (MPPT-TC) for optimal energy collection in all solar conditions Pure-lead VRLA AGM battery with manufacturer operating range -85 to 176 °F (-65 to 80 °C) On-board battery status **Energy Storage** Designed for 5 year battery life; Replaceable and recyclable Port for battery charging and cabled operation Intelligent, microprocessor EMS On-board diagnostics and datalogger Energy Management System (EMS) Push button interface for local control Autonomous, Temporary, and Emergency Modes ALC adjusts output intensity in response to unusually low amounts of sunlight to ensure continued operation Automatic Light Control (ALC) Premium, UV-resistant polycarbonate lens Construction Powdercoated aluminum chassis with integrated handle Waterproof, vented battery compartment -22 to 122 °F (-30 to 50 °C) ambient Temperature -40 to 176 °F (-40 to 80 °C) storage Standard Engine: 17 lbs (7.7 kg) Weight High-Performance Engine: 26 lbs (11.8 kg) Wind & Ice Loading 400 mph (179 m/s) wind; 0.03 psi (22 kg/m²) ice Shock & Vibration MIL-STD-202G and MIL-STD-810G

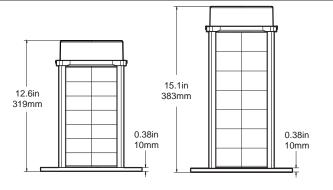
EN 60529 IP 67 immersion

MIL-STD-810G rain & salt fog

FAA-STD-019E, EN 61000-4-2

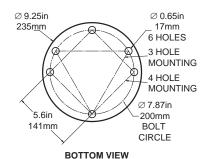
MIL-STD-202G immersion & damp heat cycling

### **DIMENSIONS**

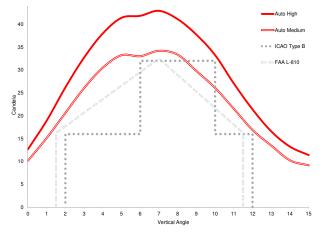


**SIDE VIEW - STANDARD** 

SIDE VIEW - HIGH PERFORMANCE



### **PHOTOMETRICS**



CONFIGURATION					
MODEL ▼	ENGINE ▼	OUTPUT ▼	SWITCH ▼	CONTROL ▼	CHASSIS ▼
OL32	STANDARD HIGH-PERF.	RED / IR	SWITCHED	NON-WIRELESS	YELLOW

Specifications may be subject to change Carmanah is a Canadian public corporation - TSX:CMH © 2014, Carmanah Technologies Corp.
Document: OL32\_Spec\_Sheet\_RevE

Ingress

Electrostatic Discharge (ESD)



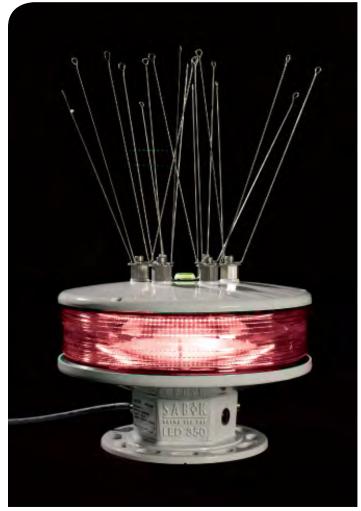
# OL2000

LED INDUSTRIAL AND OBSTRUCTION LIGHT

STAND-ALONE CAPABILITY, LOW MAINTENANCE DESIGN AND EASY INSTALLATION MAKES THE OL2000 AN OPTIMAL SOLUTION FOR TOWER AND OBSTACLE LIGHTING.

THE OL2000 IS AN INDUSTRIAL GRADE, HIGH-POWER LED LIGHT THAT MEETS ICAO TYPE C MEDIUM INTENSITY OBSTRUCTION LIGHTING STANDARDS (ICAO ANNEX 14, FIFTH EDITION, JULY 2009 (RED). THIS SELF-CONTAINED LIGHT IS IDEAL FOR FIXED INSTALLATIONS.

- **Durable design:** rugged aluminum housing withstands installation in extreme environments.
- Flexible and user-friendly: Adjustable intensity and range. Programmed with a wireless Easy Programmer, PDA Programmer or with USB/IR interface
- Low power consumption: Suitable for solar and battery consumption
- Integrated Black Box function: 365 day event log
- Optional GPS synchronization
- · Optional GSM remote monitoring
- · Infrared communications port
- Photocell for automated dusk-to-dawn activation
- Stainless steel bird deterrents are standard equipment

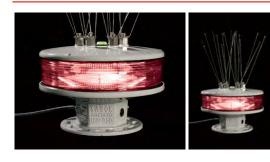




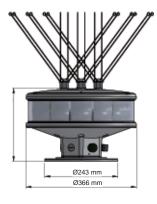
PDA Programmer: Wireless two-way communication using a Windows based PDA programmer.

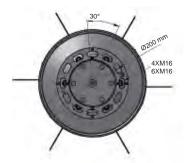


Easy Programmer:
User friendly and compact
wireless two-way programmer.



### **DIMENSIONS**





## **MODEL**

# OL2000

LED INDUSTRIAL AND OBSTRUCTION LIGHT

TECHNICAL FEATURES AND SPECIFICATIONS		
Supply Voltage	20-30 VDC	
Lens Material	UV Stabilized Polycarbonate	
Light Source	High power Light Emitting Diode (LED)	
Intensity	2000 cd intensity, steady-on in Red	
Wattage	32 watts	
Unit Lifetime	Up to 10 Years	
Solar Panel Charger	16 Ampere PWM charger. Solar panel production (Ah) is logged	
Temperature Range	-40 to 140°F (-40 to +60 °C)	
Degree of Protection	IP 67	
Weight	22 lb (10 kg)	

OPTIONS	
GSM	Integrated GSM based monitoring with GSM antenna
GSM + GPS	Integrated GSM based monitoring with GSM/GPS antenna
GPS Sync	Integrated GPS sync (only available on units with GPS antenna)
Optical Feedback System	Integrated LED performance measurement

CONFIGURATION				
MODEL	OUTPUT ▼	SWITCH ▼	CONTROL ▼	
OL2000	RED	NON-SWITCHED	NON- WIRELESS GSM GPS GSM	



**Level Indicator:** Level in field using the integrated bubble level indicator.



**IR port and photocell:**Combined infrared communication port and photocell.



**Performance:**Specially designed lens allows for exceptional output performance.



Additional cable entry: Equipped as standard with two cable entries.



**Grounding plug:**Baseplate grounding against electromagnetic interference.

Specifications may be subject to change

Carmanah is a Canadian public corporation - TSX:CMH © 2014, Carmanah Technologies Corp.
Document: OL2000\_SpecSheet\_RevB

US Patent No 6,573,659. Other patents pending. "Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.







carmanah.com/obstruction











carmanah.com/obstruction obstruction@carmanah.com 877-770-2842