

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 400,000 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 long-term 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











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

OL4 Lightweight general purpose hazard marker











LOW-COST SIGNALING 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, and helipad lighting
- Marine signaling lanterns
- Flood lights
- Traffic signaling

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

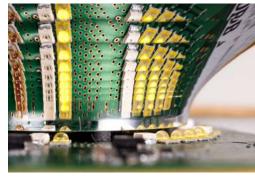
Customer Benefits

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



















obstructionlights.com



OL2A SOLAR MARKING LIGHT
OL4 GENERAL PURPOSE HAZARD MARKER
OL800 LOW-INTENSITY OBSTRUCTION LIGHT



OL2A SOLAR SAFETY 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.

- More than three times the range of the original OL2
- Custom optics, high-efficiency solar panels and premium materials
- Excellent value and extremely reliable operation (5+ 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.











OL2A SOLAR SAFETY LIGHT

OPTIONAL INFRARED PROGRAMMER

FLANGE MOUNT

POLE MOUNT

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)
Buttory	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
Tonon aretura	-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
Canantianaa	RoHS; WEEE
Compliance	FCC, CE

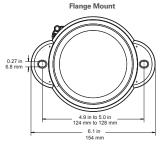
ORDER KEY		
MODEL	OUTPUT ▼	MOUNT▼
OL2A	RED GREEN WHITE YELLOW BLUE	FLANGE MOUNT FLANGE MOUNT - WITH SWITCH POLE MOUNT

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

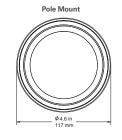
Note: Peak intensity dependent on location and flash pattern. To view performance in your installation location visit www.carmanah.com

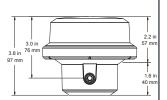
OL2A RED: TYPICAL PERFORMANCE Flash Code 001: Steady-on Dusk-to-Dawn, 6 days autonomy min. Effective Intensity Code Unitensity Code Unitensity Code Unitensity Code Unitensity Code Unitensity Code Unitensity Code

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









The management system governing the manufacture of this product is ISO 9001:2008 certified.

Specifications subject to local environmental conditions. Specifications may be subject to change.

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

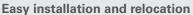
Carmanah is a Canadian public corporation - TSX:CMH © 2015, Carmanah Technologies Corp.
Document:OL2A_Spec_Sheet_RevC_RevC



OL4 SOLAR WARNING LIGHT

The OL4 is a high-performance light designed to perform reliably at tough industrial locations including rail yards, construction zones, mining operations and more. Suitable for permanent, temporary or emergency installations, the OL4 is unrivalled by any other hazard marking or barricade light currently available.

- Dusk to dawn operation
- Lightweight, self-contained
- Sophisticated solar energy management
- Intuitive on-board user interface
- Intelligent deployment settings for reliable performance in a wide-range of locations
- Proven technology platform



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 tough 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 a RoHS compliant design combined with natural solar charging ensure the lightest environmental footprint.







OPTIONAL INFRARED PROGRAMMER





OL4 SOLAR WARNING LIGHT

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 Battery 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	Greater than 10 cd intensity, steady-on (see photometric plots) 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
T	-45 to 124 °F (-43 to 51 °C) operating
Temperature	-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.

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	72835
Battery Charger (includes multiple ends for int'l use)	59188 (100 - 240 VAC)
USB Cable	57394
Device Manager Software	Contact Customer Support
Infrared Programmer	69899
Magnetic Mounting Kit (3 x magnets and hardware)	76296

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







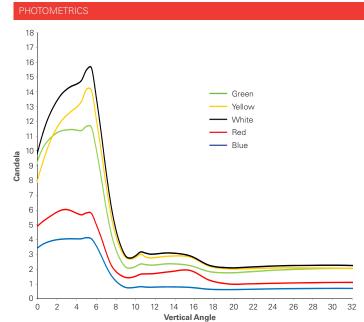


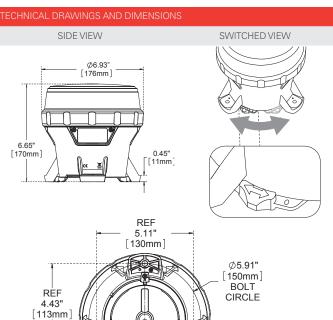


All Carmanah products are manufactured in facilities that are certified to ISO quality standards.

Specifications subject to local environmental conditions. Specifications may be subject to change.

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





Carmanah is a Canadian public corporation - TSX:CMH © 2016, Carmanah Technologies Corp. Document: SPEC_OBS_OL4_RevG

Ø0.28<u>"</u> 3X

[7mm]

ANTENNA

MOUNT — (WIRELESS)



OL800 SOLAR OBSTRUCTION LIGHT

The new benchmark for low-intensity solar LED obstruction lighting in an easy-to-install, low-maintenance package. Available in three engine sizes with user-friendly features, and optional remote monitoring.

Meets ICAO requirements for Low-Intensity Obstacle Lights Type A and Type B, according to ICAO Annex 14, Volume 1, 5th Edition, July 2009 and 6th Edition, July 2013 (Red).

Compliant with Obstruction Light Type L-810 as per FAA Advisory Circular AC 150/5345-43G 09/26/12 (Red).

Intertek compliance test reports and global simulation maps available upon request.

Intuitive Setup & Programming

- Top-mounted LED display with simple "tap to activate" functionality
- Easily check light settings without external controller
- Programmable with optional IR remote

Scalable, Cost-effective Design

- Customizable for best value-for-performance
- Multiple battery pack options

Intelligent Energy Management

- Best-in-class, high-efficiency solar panels
- Maximum Power Point Tracking (MPPT)
- Patented Energy Management System (EMS)
- Ensures maximum battery life and light performance in even the harshest of environments

Durable, Low Maintenance

- Compact, stand-alone, maintenance-free unit
- Integrated solar panels, battery, electronics and LED light source
- Replaceable battery extends life beyond five years

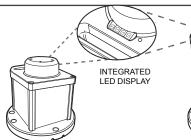
Trusted

- Thousands of installations worldwide
- Carmanah solar LED lights operate year-round at permanent and temporary installations





OPTIONAL INFRARED PROGRAMMER

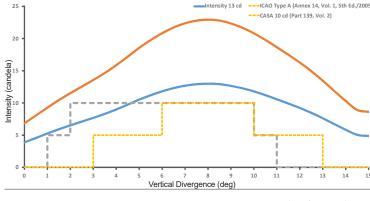


SOLAR OBSTRUCTION LIGHT

SPECIFICATIONS	
	High powered LEDs meet IES LM-80 lumen maintenance ensuring consistent photometrics for life of product
	FAA: Meets Obstruction Light Type L810 as per FAA Advisory Circular AC 150/5345-43G 09/26/12 (Red).
Optical	Complies with ICAO Low-Intensity Obstacle Light Type A & B - Annex 14, 5th Edition, July 2009 (Red) and 6th Edition, July 2013 (Red).
	Meets requirements for CASA 10 cd (Part 139, Vol.2)
	ICAO, SAE25050 (FAA) and FAA EB 67 compliant chromaticity: Red, Green, White and Yellow
	Steady-on and 250+ flash patterns
	Best-in-class high-efficiency solar cells with blocking diodes
Energy Collection	Maximum power point tracking with temperature compensation (MPPT-TC) for optimal energy collection
F 0:	EnerSys CYCLON pure-lead VRLA AGM battery -85 to 176°F (-65 to 80°C) manufacturers operating range
Energy Storage	On-board battery status; Optional port for battery charging
	Designed for 5 year battery life; Replaceable and recyclable
Energy Management System	Intelligent, microprocessor
(EMS)	On-board diagnostics and datalogger
Automatic Light Control (ALC)	Adjusts output intensity in response to unusually low amounts of sunlight to ensure continued operation
Programming	Programmable with optional infrared programmer
	Integrated 4-character LED display
GPS Synchronization Optional GPS enables two or more lights to flash in un	
	Premium grade UV resistant, polycarbonate lens/head
	Polycarbonate/polysiloxane co-polymer base
Canadanatina	Environmentally friendly, durable powder coated aluminum chassis (applied by trivalent chromate process)
Construction	Thermoplastic gaskets
	Waterproof, vented battery compartment
	Top colour indicator matches LED colour
	Integrated handle
	Bird deterrent included
Temperature	-22 to 122 °F (-30 to 50 °C) optimal
Temperature	-40 to 176 °F (-40 to 80 °C) maximum
Mounting	3 or 4, 7.87" (200 mm) bolt circle mounting pattern
Wind Loading	140 knots (72 m/s)
Ice Loading	0.03 psi (22 kg/m²)
Shock & Vibration	MIL-STD-202G (for Shock and Vibration)
Ingress	EN 60529 IP 68 immersion MILSTD-202G immersion & damp heat cycling MILSTD-810G rain & salt fog
Electrostatic Discharge (ESD)	FAA-STD-0193, EN61000-4-2

DIMENSIONS AND WEIGHTS			
STANDARD		COMPACT	
Weight	14 lb (6.4 kg)	Weight	9.9 lb (4.5 kg)
Battery	E-cells (100 Wh)	Battery	X-cells (63 Wh)
LARGE			
Weight	22.4 lb (10.2 kg)	8.9in	
Battery	BC-cells (210 Wh)	226mm	1.0in 25mm
Battery BC-cells (210 Wh)		2	7.7.87in 00mm 30LT Ø 0.62in IRCLE 15.7mm 6 HOLES 3 HOLE MOUNTING 4 HOLE
PEAK INTENSITY			
COLOUR	INTENSITY		

neu		209 Cu	
Gree	en	287 cd	
Whi	te	374 cd	
Yello)W	319 cd	
25 -		Intensity 23 cd	
_ I			

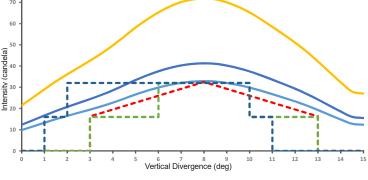




Pb The management system governing the manufacture of this product is ISO 9001:2008 certified.

Specifications subject to local environmental conditions. Specifications may be subject to change.

Carmanah is a Canadian public corporation - TSX:CMH US and International patents apply. "Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.



Intensity 41 cd ntensity 33 cd

> © 2016, Carmanah Technologies Corp. Document:OL800_Spec_Sheet_RevF

ICAO Type B (Annex 14, Vol. 1, 5th Ed./2009)
 ICAO Type B (Annex 14, Vol. 1, 6th Ed./2013)



OL370i MEDIUM INTENSITY OBSTRUCTION LIGHT

The OL370i is an FAA L-864 or ICAO Type B medium intensity aviation obstruction lighting system. An integrated system, it requires no external system controller. Using red LEDs and optional infrared LEDs, the OL370i is ideal for permanent wind turbine lighting.

Two OL370i lights can be used together on one nacelle to meet FAA AC 70/7460-1L specifications on wind turbines with a rotor tip height between 500' and 700'. Interleaved LEDs and by-pass circuitry provide the light with a longer lifespan.



STANDARD FEATURES

- 200kA surge suppression
- Minimized ground scatter via patented Fresnel optics
- Aircraft Detection Lighting Systems (ADLS) interface
- Various mounting options
- Patented 360° light collector
- Durable GPS antenna for dependable synchronization
- Field configurable flash characteristics
- Single dry contact alarm shows LED, sync and mode status
- 5-year warranty

OPTIONAL FEATURES

- Infrared Lighting: NVG and NVIS compatibility using 850nm infrared (IR) LEDs
- Overvoltage Protection: additional overvoltage protection device mounted inside the nacelle for lightning protection zone 1 (LPZ 1)
- Adjustable Mounting Pedestal: for mounting in variable mounting positions

OL370i MEDIUM INTENSITY OBSTRUCTION LIGHT

SPECIFICATIONS			
Input Voltage	120-240 VAC		
Frequency	50-60 Hz		
Flash Head Dimensions	15.75" dia. x 7.31" (8.69" top of GPS) 400.0 mm dia. x 180.57 mm (220.72 mm top of GPS)		
Flash Head Weight	26.3 lbs (11.93 kg)		
Flash Head AerodynamicWind Area	99.125 in² (63,900.51 mm²)		
Protection Rating	IP65, NEMA 4X		
Certifications	Intertek Canada Canada		

NIGHT (RED) POWER CONSUMPTION			
	20 fpm	30 fpm	40 fpm
OL370i FAA*	7VV	9W	11W
OL370i ICAO*	9W	11VV	13W

^{*} Wattage with or without IR. Power consumption is 5 watts in stand-by. Flash intensity is $2,000 \pm 25\%$ ECD.



All Carmanah products are manufactured in facilities that are certified to ISO quality standards.

Specifications subject to local environmental conditions. Specifications may be subject to change.

Carmanah is a Canadian public corporation -TSX:CMH

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



OL370d DUAL MEDIUM INTENSITY OBSTRUCTION LIGHTING SYSTEM

The OL370d is a dual FAA L-864/L-865 medium intensity LED lighting system ideal for FAA E-type towers between 200' and 700' AGL. The system complies with CAR 621 2nd edition for medium intensity CL-864/CL-865 flashing lights and ICAO 7th edition standards for medium intensity type A/type B obstacle lights.

The OL370d uses a single cable for all communications, and beacon and marker power. Interleaved LEDs and by-pass circuitry provide the light with a longer lifespan. The system is housed in a single enclosure with a low voltage environment, removing the need for an interlock switch—alarms can remain active, even while the door is open. Firmware upgrades are quick and easy, requiring no controller modifications.



STANDARD FEATURES

- Industry-leading 25kA surge immunity
- Minimized ground scatter via patented Fresnel optics
- LTE modem data connection for greater dependability
- Durable photodiode in metal housing with shielded cable
- No replaceable fuses required thanks to input power breaker switch
- Outdoor Wi-Fi antenna for status notifications and diagnostics
- ADLS interface
- Configurable to meet AC 70/7460-IL
- Dry contact monitoring
- 5-year warranty

OPTIONAL FEATURES

- Infrared marker LEDs
- SMART card
- GPS synchronization
- Remote Firmware Upgrades
- TECK90 Support
- Solar engine power source

OL370d

LIGHTING SYSTEM



SPECIFICATIONS	
Input Voltage	100-240 VAC at 50/60 Hz ±24 VDC (optional) ±48 VDC (optional)
Frequency	50-60 Hz
Marker Power Consumption	2.1 watts per marker (not included in system consumption)
Marker Dimensions	9" x 2.75" x 2.13" (228.6 x 69.9 x 54.1 mm)
Marker Weight	1.6 lbs (0.7 kg)
FH Dimensions	15.75" dia. x 7.31"
FH Weight	26.3 lbs (11.92 kg)
FH Aerodynamic Wind Area	99.125 in ²
Controller Dimensions	23" x 17.13" x 6.44"
Controller Weight	44 lbs (20 kg)
Protection Rating	IP65, NEMA 4X

(F)
Intertek

Certifications









	POWER CONSUMPTION (WITH IR)		FLASH RATE (PER MIN)	FLASH INTENSITY
L-864 L-865	Day (white)	80 W (70 W)	40 flashes	20,000 ±25% ECD
	Night (red)	40 W <i>(40 W)</i>	20/30/40 flashes	2,000 ±25% ECD
	Night (white)	40 W <i>(40 W)</i>	40 flashes	2,000 ±25% ECD
L-866 L-885	Day (white)	110 W (100 W)	60 flashes	20,000 ±25% ECD
	Night (red)	50 W <i>(50 W)</i>	60 flashes	2,000 ±25% ECD
	Night (white)	50 W <i>(50 W)</i>	60 flashes	2,000 ±25% ECD

^{*} Only 30 fpm flash rate is applicable for FAA certified applications filed under AC 70/7460-1L, and requires the use of L-810(F) depending on the height of the structure.

All Carmanah products are manufactured in facilities that are certified to ISO quality standards. Specifications subject to local environmental conditions. Specifications may be subject to change. Carmanah is a Canadian public corporation -TSX:CMH US and International patents apply: "Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.



OL371 OBSTRUCTION LIGHTING SYSTEM

The OL371 is a low-power FAA L-810/L-864 red medium intensity obstruction lighting system for FAA type A0/A1 structures. It complies with all FAA regulations including flashing L-810 markers.

The system uses patent-pending monitoring technology that provides consistent and reliable results, and does not fluctuate with incoming power and temperature changes.

The OL371 meets FAA AC 150/5345-43H, as well as both AC 70/7460-1K and 1L marker regulations. The system can also meet Transport Canada CAR 621.19, ICAO Type B and Type C (7th Edition) and DGAC Mexico.



Medium intensity (A1 configuration)

STANDARD FEATURES

- Configurable flash rate to 20, 30, 40, or 60 flashes per minute (200 ms flash duration)*
- Night vision compatible
- Photodiode control with alarm inhibit option
- Dry contact relay (master alarm)
- Support for up to 4 markers and 1 beacon (A1 configuration)
- Mode override switch
- 5-year warranty

OPTIONAL FEATURES

- Infrared marker LEDs
- Solar engine power source



Low intensity (A0 configuration)

OL371 OBSTRUCTION LIGHTING SYSTEM



SPECIFICATIONS			
Input Voltage	85-265 VAC at 50/60 Hz 12-48 VDC ± 10% (12 VDC for markers only)		
Protection Rating	IP65, NEMA 4X		
Certifications	Intertek Transport Canada Canada Canada Canada		

COMPONENT	DIMENSIONS		WEIGHT
Polycarbonate Controller	7.8 x 8.25 x 4" (198.1 x 209.6 x 101.9 mm)	AC/DC	2.1 lbs (0.95 kg)
Flashhead	15.75" dia. x 7.5" (400 mm dia. x 190.5 mm)	AC/DC	25.6 lbs (11.7 kg)
Marker (Single L-810)	9 x 2.75 x 2.13" (228.6 x 69.9 x 54.1 mm)	DC	1.6 lbs (0.7 kg)
OL2 (Double L-810)	11.0 x 5.0 x 8.75" (279.4 x 127 x 222.25 mm)	DC	5.4 lbs (2.45 kg)

POWER CONSUMPTION (WATTS)				
		20 fpm	30 fpm*	Steady
Controller 371	AC	0.9	0.9	0.9
Controller 371	DC	0.8	0.8	0.8
Flash Head 371	AC	4.0	5.3	30
riasti nead 37 i	DC	4.0	5.3	30
Marker 371 (Single L-810)	DC	-	0.5	2.5
OL2 (Double L-810)	DC	-	1.0	5.0

^{*} Only 30 fpm flash rate is applicable for FAA certified applications filed under AC 70/7460-1L, and requires the use of L-810(F) depending on the height of the structure.



OL370W MEDIUM INTENSITY WHITE OBSTRUCTION LIGHTING SYSTEM

The OL370w is an FAA L-865 white medium intensity obstruction lighting system for FAA D-type towers. It also complies with CAR 621 2nd edition regulations for CL-865 medium intensity flashing lights and ICAO 6th edition standards for type A medium intensity obstacle lights.

The system is housed in a single enclosure with a low voltage environment, removing the need for an interlock switch—alarms can remain active, even while the door is open. Firmware upgrades are quick and easy, requiring no controller modifications.



STANDARD FEATURES

- Industry-leading 25kA surge immunity
- Minimized ground scatter via patented Fresnel optics
- LTE modem data connection for greater dependability
- Durable photodiode in metal housing with shielded cable
- No replaceable fuses required thanks to input power breaker switch
- Outdoor Wi-Fi antenna for status notifications and diagnostics
- ADLS interface
- Configurable to meet AC 70/7460-IL
- Dry contact monitoring
- 5-year warranty

OPTIONAL FEATURES

- Infrared marker LEDs
- SMART card: monitor and control your system remotely and receive diagnostic information through LTE modem or ethernet-based connectivity
- GPS synchronization
- Remote firmware upgrades



0L370w

MEDIUM INTENSITY WHITE OBSTRUCTION LIGHTING

SPECIFICATIONS			
Input Voltage	100-240 VAC at 50/60 Hz ±24 VDC (optional) ±48 VDC (optional)		
Frequency	50-60 Hz		
FH Dimensions	15.75" dia. x 7.31"		
FH Weight	26.3 lbs (11.92 kg)		
FH Aerodynamic Wind Area	99.125 in ²		
Controller Dimensions	23" x 17.13" x 6.44"		
Controller Weight	44 lbs (20 kg)		
Protection Rating	IP65, NEMA 4X		

Certifications











	POWER CONSUMPTION (WITH IR)		FLASH RATE (PER MIN)	FLASH INTENSITY
L-865	Day (white)	80 W (70 W)	40 flashes	20,000 ±25% ECD
	Night (white)	40 W <i>(40 W)</i>	40 flashes	2,000 ±25% ECD
L-866	Day (white)	110 W (100 W)	60 flashes	20,000 ±25% ECD
	Night (white)	50 W <i>(50 W)</i>	60 flashes	2,000 ±25% ECD



All Carmanah products are manufactured in facilities that are certified to ISO quality standards. Specifications subject to local environmental conditions. Specifications may be subject to change. Carmanah is a Canadian public corporation -TSX:CMH US and International patents apply: "Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.











obstructionlights.com obstruction@carmanah.com 1.844.412.8392