24-hour flashing beacon for warning signs and stop signs

- Increase sign compliance and reduce blow-throughs
- Industry-leading light output
- Compact, lightweight design to simplify installation
- Proven technology platform
- Meets and exceeds MUTCD requirements

**Superior Design and Technology**
The R247-F utilizes a self-contained solar engine integrating the Energy Management System (EMS) with an on-board user interface, housed in a compact enclosure together with the batteries and solar panel. A larger solar engine enables the R247-F to work with remote monitoring and operate at higher intensities in challenging environments.

**Easy Installation**
With its highly efficient and compact design, installation is quick and uncomplicated, dramatically reducing installation costs. Retrofitting can be done where existing sign bases are used to enhance existing signs in minutes, and new installations can be completed without the cost of larger poles, new bases, and trenching.

**Advanced User-Interface**
The R247-F comes with an on-board user interface for quick configuration and status monitoring. It allows for simple in-the-field adjustment of flash pattern, duration, intensity, ambient auto adjust, night dimming, and many more. Optional manual override switch for local control.

**Reliable**
Designed with Carmanah’s industry-leading solar modeling tools to provide dependable year-after-year operation.

**Trusted**
With thousands of installations, Carmanah’s beacons are the benchmark in traffic applications and other transportation applications worldwide.
R247-F
SOLAR 24-HOUR FLASHING BEACON
1.844.412.8395 | traffic@carmanah.com | carmanahtraffic.com

DIMENSIONS

SOLAR ENGINE MOUNTING

BEACON MOUNTING

* Other solar engine and beacon mounting configurations are available.

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

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

US Patent No 6,573,659, Other patents pending.

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Adjustable system settings with auto-scrolling LED display on our latest EMS

System test, status, and fault detection: battery, solar, button, beacon, radio, day/night

Flash patterns: RFB1 (WW+S), RFB2 (WSDOT), 0.5 sec. alternating (MUTCD), 0.5 sec. unison (MUTCD), 0.1 sec. unison, 0.25 sec. unison, 0.1 sec. x3 quick flashes unison, 0.1 sec. x3 quick flashes alternating

Input: momentary for push button activation, normally open switch, normally closed switch

Flash duration: 5 sec. to 1 hr.

Intensity setting: 20 to 1400 mA for multiple circular beacons, RRFBs, or LED enhanced signs

Nighttime dimming: 10 to 100% of daytime intensity

Ambient Auto Adjust: increases intensity during bright daytime

Automatic Light Control: reduces intensity if the battery is extremely low

Temperature correction: yellow or red beacons

Calendar: internal time clock function

Radio settings: enable/disable, selectable channel from 1 to 14

Output: enabled when beacons flashing daytime and nighttime, or nighttime only

Activation counts and data reporting via OBU or optional USB connection

MUTCD compliant: 2009 MUTCD, Chapter 4L, Flashing Beacons, Manual on Uniform Traffic Control Devices (MUTCD)

ITE VTCSSH-Led Circular Signal Supplement compliant: meets ITE or 1.7x ITE intensity when used as recommended

12 in (305 mm) or 8 in (203 mm) diameter LED modules, yellow or red

High-power LEDs: +90% lumen maintenance (L90) based on IES LM-80

Yellow, black, or green signal heads in UV-resistant polycarbonate or aluminum

Optional encrypted, wireless radio with 2.4 GHz mesh technology

Optional radio allows calendar program, manual override switch, or input device from one system to remotely control other systems

User-selectable multiple channels to group different beacons and ensure a robust wireless signal

Instantaneous wireless activation: <150 ms

Wireless range: 1000 ft (305 m)

Integrated, vandal-proof antenna

Energy Collection

30 W high-efficiency photovoltaic solar panel

45 deg tilt for optimal energy collection

Maximum Power Point Tracking with Temperature Compensation [MPPT-TC] battery charger for optimal energy collection in all solar and battery conditions

12 V 3 Ah batter system

Replaceable, recyclable, sealed, maintenance-free, best-in-class AGM batteries offer the widest temperature range and longest life

Battery design life: +5 yrs.

Tool-less battery change with quick connect terminals and strapping for easy installation

Weatherproof, gasketed enclosure with vents for ambient air transfer [NEMA 3R]

Lockable, hinged lid for access to on-board user interface and batteries

Corrosion-resistant aluminum with stainless steel hardware

Raw aluminum finish or yellow, black, or green powder coated

Prewired to minimize installation time

High-efficiency optics and EMS = the most compact, lightweight system

39 lb (17.7 kg) including batteries, excluding beacons

Environmental

40 to 165° F (-40 to 74° C) system operating temperature

40 to 140° F (-40 to 60° C) battery operating temperature

150 mph (241 kph) wind speed as per AASHTO LTS-6

Standard operation is flashing 24 hrs./day

Optional internal time clock for calendar programming

Optional manual override switch allows local control of beacons

Optional junction box: lockable, hinged door, corrosion-resistant aluminum enclosure allows easy calendar programming and access to manual override switch

Warranty

5-year limited warranty

Technical Specifications

SOLAR 24-HOUR Flashing Beacon R247-F

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- Optional internal time clock for calendar programming
- Optional manual override switch allows local control of beacons
- Optional junction box: lockable, hinged door, corrosion-resistant aluminum enclosure allows easy calendar programming and access to manual override switch
- Warranty
- 5-year limited warranty