



Typical Applications:

- Emergency vehicle warning
- · Advance traffic warning systems

Improves Safety

- Allows users to activate several beacons on-demand using a master controller
- · Communicates wirelessly to other beacons via remote control
- Capable of multiple beacons per system

Reliability Assured

- Incorporates field-proven wireless technology from ENCOM Wireless Data Solutions Inc.
- Core energy management system ensures operation; even during periods of cloud cover
- Turn-key system custom configurated for optimum performance based on location, solar insulation and desired operation

Cost-Effective Solution

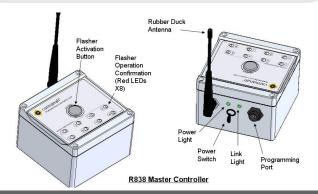
- No trenching, wiring or digging required
- "Plug-and-play" installation for reduced disruption to traffic
- Cabinet-free, sturdy design inhibits vandalism

Easy Installation and Operation

- User-configurable and allowing for flasher durations to be pre-programmed
- Enabled with two-way communication allowing for switch closure confirmation from remote sites
- Installs to existing sign posts within thirty minutes
- Easy to relocate and repurpose to other locations

Quality Ensured

- Manufactured in accordance with ISO 9001:2008
- Designed and assembled in North America
- No maintenance required for up to 5 years
- Backed by a 3-year limited warranty





MASTER CONTROLLER SPECIFICATIONS		
Weight	1.8 lbs (0.8 Kg)	
Dimensions	4.7" (H) x 4.7" (W) x 3.1" (D) (120mm x 120mm x 80mm), plus antenna	
Power supply	AC auto adapter (60 Hz)	
Power supply backup	Primary: 2 hrs, secondary: 24 Hrs (at 25° C)	
Power supply vehicle	12V adaptor	
Max quantity R838 master controllers	2	
Max quantity R838 transceivers	8	
Mounting options	Wall mount or handheld	













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- or call +1.250.380.0052 (toll-free US & Canada 1.877.722.8877)

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MOUNTING EXAMPLES

SINGLE BEACON (C-Compact)

Single - Pole Mount (Square/Round)



Single - Top of Pole Mount



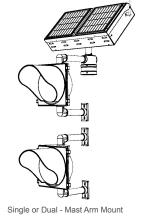
Dual - Vertical Top Pole Mount

DUAL BEACON

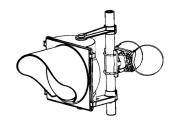
Dual - Horizontal Top Pole Mount



Single or Dual - Side of Pole Mount







* OTHER MOUNTING OPTIONS AVAILABLE PRODUCT MAY NOT BE EXACTLY AS SHOWN

QUALITY STANDARDS	
Quality certification	ISO 9001:2008 Certified Manufacturer
Certification	NCHRP 350, FDOT, Radio Only: FCC, Industry Canada, system compliant with Buy American Act
WARRANTY	
Term	3-year limited warranty (including batteries)

COMPONENT	DIMENSION		
	Length	Width	Height
Single Beacon	25.0" (635 mm)	15.0" (381 mm)	33.5" (851 mm)
10 W Engine	15.0" (381 mm)	14.8" (376 mm)	4.8" (121 mm)
20 W Engine	15.75" (401 mm)	29.3" (743 mm)	6.0" (151 mm)

 $^{^{\}star}$ Dimensions may vary based on pole selection, 45 $^{\circ}$ tilt and beacon configuration

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

MODEL

R838 SERIES

REMOTE-ACTIVATED SOLAR LED FLASHING BEACON

OPERATION		
Flash pattern	MUTCD* compliant Alternate, unison, and quick-flash	
Control	ENCOM radio configuration - PC- based software included, input connector - DB9 (female)	
LED SIGNAL MODULE		
Standard	ITE VTCSH LED circular signal supplement	
Size and LED colour	12" (305 mm) diameter amber or red 8" (203mm) diameter amber	
ENVIRONMENTAL		
Operating temperature range	5 to 122° F (-15 to 50° C)	
ENERGY MANAGEMENT SYSTEM		
Battery lifespan	3 – 5 years (field replaceable)	
Capacity without solar charging	Up to 30 days typical (location dependent)	
Daily operation profile	Up to 12 hours per day (configuration dependent)	
Automatic light control (ALC)	Systems continue to provide useful light during extreme conditions that prevent charging over an extended period of time	
WIRELESS ACTIVATION		
Activation	Master controller push-on/push-off or auto-timeout configurable up to 1 hour	
Frequency	902-928 Mhz ISM Band FHSS (Frequency Hopping Spread Spectrum)	
Effective range	500 ft (152 m)	
System Configurations	Point-to-point, point-to- multipoint, multipoint-to-point, multipoint-to-multipoint	
MOUNTING HARDWARE		
Bracket options for standard sign posts	1.75" (45 mm) square telspar, 2 %" (60 mm) round, 4 ½" (114 mm) round Pelco traffic signal mounting hardware	
Color	Black, yellow or green	
COMPONENTS		
Solar Panel	High-efficiency 10 W (C-Compact) or 20 W panel	
Battery	Replaceable, recylable best- in-class battery pack. Sealed, maintenance-free.	
Light Source	Ultra-bright LEDs featuring innovative optic and lens design for optimum light divergence	
Construction	Fully self-contained weather, corrosion and vandal-resistant unit with premium grade UV-resistant head	

^{*} Meets all requirements for design, illumination, and colour of signal sections required by MUTCD, chapter 4D.18 MUTCD: Manual on Uniform Traffic Control.

Performance is tied to solar availability and geographic location. All specifications are subject to change without notice.