R247-F-HUB

StreetHub[™] Connected 24-Hour Flashing Beacon System

24-hour flashing beacons for warning and stop signs increase compliance and reduce blow-throughs.

- ✓ Highest intensity output in the industry
- MUTCD and Buy America compliant
- Compact and lightweight solar engine
- ✓ Energy Balance Report[™] (EBR) prepared for every location

Built-in wireless connectivity allows for remote scheduling, data collection and beacon health monitoring, ensuring optimal safety, minimal downtime and fewer service calls and site visits.

- Monitoring unit upgrades and over-the-air software and security updates included
- Extended battery warranty matched to connectivity and support plan
- Backup battery ensures uninterrupted data collection and connectivity

SAFETY + CONTROL + INSIGHT

All-in-one System

The R247-F-HUB combines Carmanah's reliable safety beacons with Applied Information's industry-leading intelligent transportation systems (ITS) solutions. An out-of-the-box system, the R247-F-HUB ships ready to install with instant connectivity.

Remote Scheduling and Calendar Control

Every R247-F-HUB includes its own monitoring unit allowing for two-way remote communication and control. Schedule and program adjustments can be made with the cloud-based Glance platform powered by AI, reducing site visits and saving departments time and money.

Timely Alerts

The R247-F-HUB issues system status alerts 24/7 via text or email to reduce service calls, speed response times and improve safety by ensuring systems are working properly.

Automated and On-demand Reports

Connecting to Glance means users can quickly and easily access data and insights that enable accurate treatment analysis and proactive maintenance plans.

TravelSafely Mobile Safety App

TravelSafely is a pioneering smartphone app developed by AI that boosts safety by providing alerts and facilitating better communication between motorists, pedestrians, cyclists and infrastructure.

Trusted for 20+ Years

With thousands of installations, Carmanah's systems are the benchmark in traffic installations and other transportation applications worldwide.



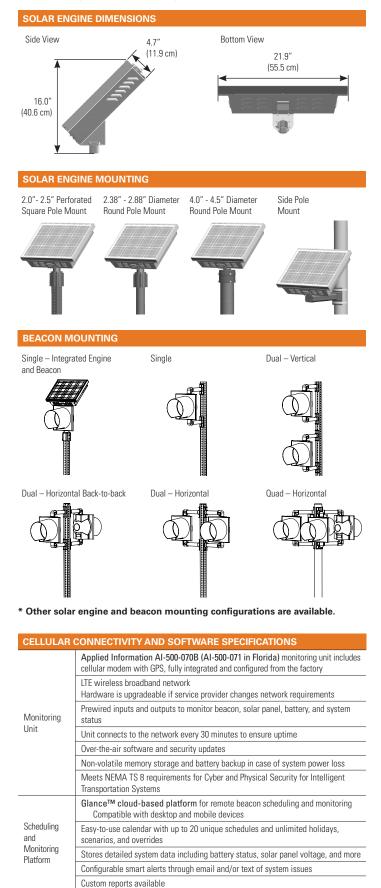


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1/2/3/4/5-year connectivity and support plans available

Connectivity

and Support

Optical	MUTCD compliant: 2009 MUTCD, Chapter 4L, Flashing Beacons, Manual on Uniform Traffic Control Devices (MUTCD)
	ITE VTCSH-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
	Available with 2.4 GHz radio for remote activation of additional systems
	Optional radio allows calendar program, manual override switch, or input device
Beacon	from one system to remotely control other systems
Communication	User-selectable multiple channels to group different beacons and ensure a robust wireless signal
(optional)	Instantaneous wireless activation: <150 ms
	Wireless range: 1000 ft (305 m)
	Integrated, vandal-resistant antenna
Activation	Standard operation is flashing 24 hrs./day
Activation	Optional calendar programming available through Glance software
SYSTEM SP	ECIFICATIONS
	Adjustable system settings with auto-scrolling LED display on our latest EMS
On-Board User Interface (OBUI)	$\ensuremath{\textit{System}}$ test, status, and fault detection: battery, solar, button, beacon, radio, day/night
	Flash patterns: RFB1 (WW+S), RFB2 (WSDOT), 0.5 sec. alternating (MUTCD), 0.1 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
	Radio settings: enable/disable, selectable channel from 1 to 14
	Output: enabled when beacons flashing daytime and nighttime, or nighttime only E.g., for relay control of overhead lighting
	30 W high-efficiency photovoltaic solar panel
Energy Collection Energy Storage	45 deg tilt for optimal energy collection
	Maximum Power Point Tracking with Temperature Compensation (MPPT-TC) batte charger for optimal energy collection in all solar and battery conditions
	12 V 34 Ahr. battery 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
Solar Engine Construction	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
	41 lb (18.6 kg) including batteries and monitoring unit, excluding beacons
.	-35 to 165° F (-37 to 74° C) system operating temperature
Environment :	-40 to 140° F (-40 to 60° C) battery operating temperature
Environmental	150 mph (2/11 kph) wind speed as per AASUTO ITS 6
Environmental	150 mph (241 kph) wind speed as per AASHTO LTS-6
Environmental Warranty	150 mph (241 kph) wind speed as per AASHTO LTS-6 5-year limited warranty, excluding batteries Battery warranty matches selected connectivity and support plan

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

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