



Ultra-compact and energy efficient, Carmanah's Model R829C is the most advanced solar LED school zone flasher available. The Model R829C is fully programmable and combines advanced electronics and software with an innovative, patented combination of solar power and LED technology. As with all of Carmanah's roadway products, the R829C operates reliably in all climates, automatically adjusting to prevailing solar conditions.

#### **Improves Safety**

The Model R829C system effectively improves driver awareness in marked school zones, helping to reduce vehicle speeds and increase safety.

#### **Innovative Solar Design**

The R829C utilizes Carmanah's core energy management system (EMS), a technology developed and refined for more than a decade. Engineered for up to five years of maintenance-free operation, the R829C has been designed to operate reliably under all environmental conditions at most locations in North America.

#### **Complete Solution**

This solar LED flasher includes the solar panel, battery and electronics all housed in one compact enclosure located above the signal head. This design eliminates any need for cumbersome battery or control cabinets that are common targets for vandals and potential hazards for pedestrians.

#### **Cost Effective Installation**

The R829C installs on an existing sign post in minutes and significant savings are achieved during installation as the unit requires no external power, trenching, cabling or disruption to traffic flow. Even the process of obtaining power connection permits and underground checks is eliminated.

**Carmanah offers two options for calendar programming via:**

#### **Centralized Control**

With the addition of centralized control capabilities, Carmanah's R829C solar flashers are compatible with most third party communication devices. This allows for remote wireless programming using devices such as pager programmable time switches and two-way radios. Centralized control gives users the flexibility to make calendar changes to the R829C without requiring a trip into the field.

#### **Software**

Carmanah's solar school zone flasher is controlled using an intuitive Windows-based software program. The system can be scheduled to turn on and off several times per day in accordance with when children are going to and leaving the school grounds.

#### **Features**

- Self-contained with no separate control cabinet or battery cabinet
- Flexible design enables any configuration of single, dual or bi-directional dual beacons
- Patented Energy Management System (EMS) optimizes system performance and ensures reliable operation
- Provides up to five years of operation without maintenance or servicing
- MUTCD compliant
- Manufactured under ISO 9001:2000 Quality Assurance System



CHANGE THE WORLD WITH US™

# Solar-Powered School Zone Flasher - R829C



## SPECIFICATIONS

### OPERATION

Flash pattern	MUTCD compliant
Button activation	MUTCD compliant

### LED SIGNAL MODULE

Standard	ITE VTCSH LED circular signal supplement*
Size	12" (300 mm) diameter 8" (200 mm) diameter

### ENVIRONMENTAL

Optimal ambient temperature range	-4 to 77 °F (-20 to 25 °C)
Maximum ambient temperature range	-40 to 176 °F (-40 to 80 °C)
Solar requirements: maximum installation latitude	55° North / South

### ENERGY MANAGEMENT SYSTEM

Battery lifespan	5-8 years (field replaceable)
Operation capacity without solar charging	30 days
Daily operation profile	Up to 12 hours per day

### MOUNTING HARDWARE

Mounting hardware options	2" square, 2 1/2" round, 4 1/2" round Pelco traffic signal mounting hardware
---------------------------	---

### TRAFFIC CONTROL DEVICE STANDARDS

Manual of Uniform Traffic Control Devices	Meets all MUTCD standards for flashing beacons
---	--

### QUALITY STANDARDS

Quality certification	ISO 9001:2000 Certified Manufacturer
-----------------------	--------------------------------------

### WARRANTY

Term	12-month limited warranty on entire system including batteries
------	--

\* Meets all specifications for flashing beacons required by MUTCD, chapter 4D.18  
All specifications are subject to change without notice.

## REPRESENTED BY

### Carmanah Technologies Corp.

Building 4, 203 Harbour Road  
Victoria, British Columbia  
Canada V9A 3S2

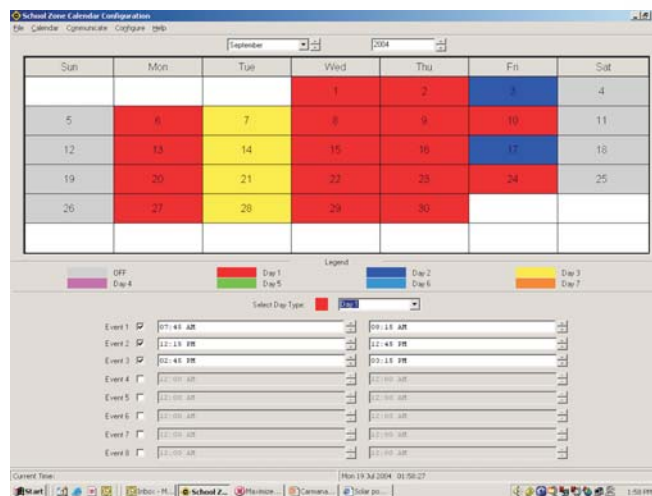
Toll-Free: 1.877.722.8877 (North America)  
Worldwide: +1 250.380.0052  
Fax: +1 250.380.0062  
Email: info@roadlights.com  
Web: roadlights.com



Optional single or dual beacon configuration



Installs in minutes to 2" square or round sign post



User-friendly Windows-based software allows for easy programming of up to 500 days of operation

Carmanah is a Canadian public corporation - TSX: CMH

© 2008 Carmanah Technologies Corp.  
"Carmanah" and Carmanah logo are trademarks of Carmanah Technologies Corp.  
Document: SPC\_ROAD-R829C\_vF



Contact Carmanah for detailed written specifications on this product.

Toll-Free: 1.877.722.8877

Worldwide: +1.250.380.0052

www.carmanah.com