

# Rural Road Safety Solutions

Rural roads aren't like urban roads. While they can feel safer due to their lower levels of traffic and complexity, the reality is the majority of fatal crashes occur in rural locations.

High speeds, hidden intersections, sharp turns, and poor lighting are just some of the hazards that make rural roads so dangerous.

Fortunately, many of these hazards can be mitigated with effective, if underutilized, treatments that increase awareness, reduce speeds, and keep road users safe.

This brochure introduces Carmanah's family of rural road safety solutions. More information on these products and others can be found at [carmanah.com](http://carmanah.com)



## ROAD DEPARTURES ON CURVES

# LED Enhanced Chevron Signs

Alert drivers to changes in horizontal alignment with highly configurable, wirelessly connected LED-enhanced signs.

Chevron signs result in a 25% reduction in nighttime crashes.<sup>1</sup>

### CHEVRON-MX

- W1-8 LED enhanced sign
- Brightest in the industry
- Customize to any curve: up to 10 signs
- Radar-activated or 24/7 operation
- Single or double-sided
- In-sync/simultaneous flash pattern
- Actionable email and text alerts



**MX CLOUD**  
includes 3 years' FREE remote connectivity

# Advisory Speed Signs & Beacons

### SPEEDCHECK-AS

- SpeedCheck advisory sign with static warning sign



### R247-MX

- LED enhanced warning sign

## Horizontal Alignment Sign Selection

Type of Sign	Difference Between Regulatory Speed Limit and Advisory Speed				
	5 mph	10 mph	15 mph	20 mph	25 mph
	Recommended	Required	Required	Required	Required
	Recommended	Required	Required	Required	Required
	Optional	Recommended	Required	Required	Required

Note: Required means that the sign and/or plaque shall be used, recommended means that the sign and/or plaque should be used, and optional means that the sign and/or plaque may be used. Section 2C.07 of MUTCD Table 2C-5 condensed.

<sup>1</sup> Albin et al. Low Cost Treatments for Horizontal Curve Safety 2016. FHWA-SA-15-084, (2016)

# SpeedCheck® Advisory Speed Signs

Capture drivers' attention and signal that speeds should be reduced ahead of a potential hazard like a sharp curve.

- Mounts below standard yellow warning signs
- High-contrast LED display visible in all weather and lighting conditions
- "SLOW DOWN" message can be set to flash at user-defined speed thresholds
- Mobile app for iOS® and Android™ for quick set-up and on-site access
- Solar Power Report™ prepared for every location to ensure battery longevity
- MUTCD and Buy America/BABA compliant system



**SPEEDCHECK-AS**

speedcheck advisory sign with static warning sign

## Advisory Alert Settings



Static Speed +  
Flashing Digits



Static Speed +  
Slow Down Message



Blank Speed Advisory +  
Slow Down Message

# School Zone Beacons

Beacons decrease vehicle speeds by 5 to 7 mph in school zones

Reduce speeds and encourage vigilance in one of the busiest—and most dangerous—places on the road.

- Highly configurable with beacons, LED enhanced sign, or both
- Retrofits easily onto existing poles/signage
- Create, adjust, and delete schedules remotely or locally (with MX Pro subscription)
- Actionable email and text alerts
- Quick installation and easy on-site access with MX Field App

**R829-MX**



# SpeedCheck® Radar Speed Signs

Bring drivers' attention to their speed and improve safety in neighborhoods and school zones with industry-leading radar speed signs.

Reduce speeds by as much as 9 mph.

- High-contrast display readable at a distance
- Mobile app for iOS® and Android™ for quick set-up
- Optional "SLOW DOWN" message, strobes, and external beacons available
- Data collection with visualization and reporting software



**SPEEDCHECK-12**



**SPEEDCHECK-15**



**SPEEDCHECK-18**

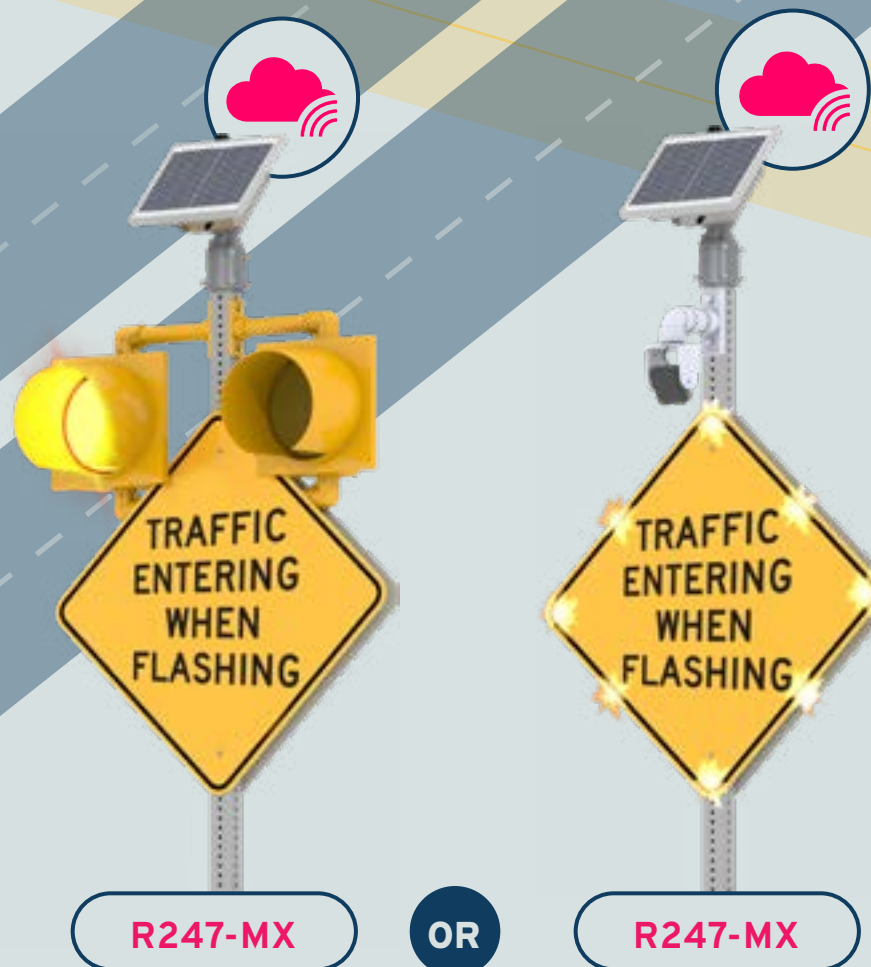
	SPEEDCHECK-12	SPEEDCHECK-15	SPEEDCHECK-18
LED Digit Size	12"	15"	18"
Speed Limit	Under 45 mph	Under 45 mph	45 mph and over
Slow Down Message	No	Yes, optional	Yes, optional
Included with every sign:	Mobile app or PC Setup and Scheduling Software		

# Intersection Conflict Warning Systems

Reduce crashes at hazardous unsignalized crossings by providing real-time advance warnings to drivers about oncoming cross traffic.

MINOR ROAD

MAJOR ROAD



- Static sign with yellow beacons
- 24/7 operation or activated by stop sign on minor road radar
- OR
- LED enhanced sign
- 24/7 operation or activated by stop sign on minor road radar



R247-MX

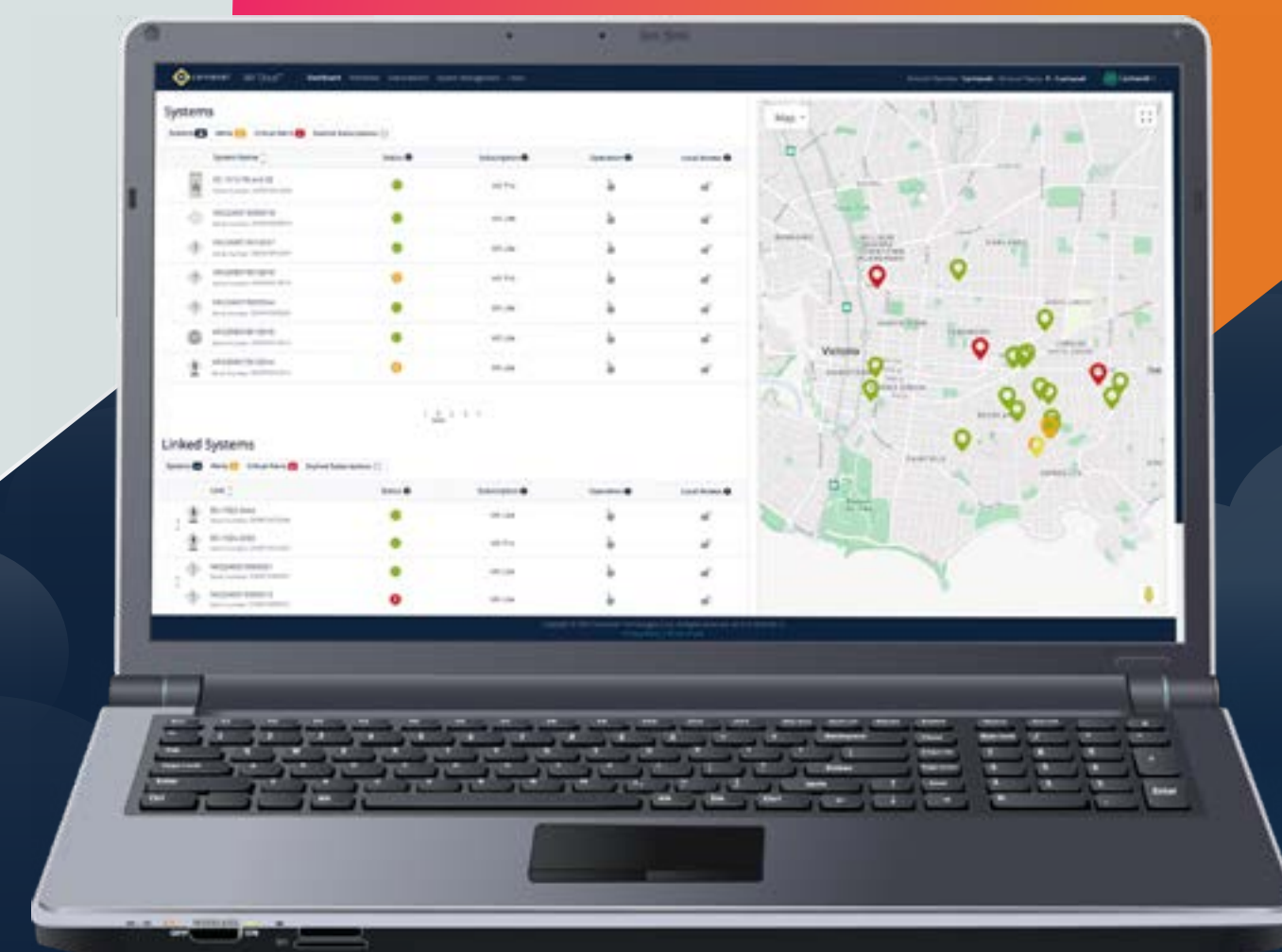
- Brightest in the industry
- Radar activated or 24/7 operation
- LED sign or red beacon

R247-MX

- LED sign or yellow beacon
- 24/7 operation or activated by major road radar

## MX Cloud™

Convenient remote access to all MX systems, from any web browser. 3 years free with MX Lite subscription.



## MX Field App™

Easy setup and on-site access for MX systems—and it's free forever. Available for Android and iOS devices.



### Remote Programming & Scheduling

Push changes to system settings from anywhere. Create, delete, and adjust schedules in advance or on-the-fly, with unlimited and easy-to-apply exceptions.

### Actionable Alerts & Data

Receive timely email/SMS alerts about your MX systems. Get insights into system health like battery voltage and solar panel charge.

### Smarter Asset Management

Gain comprehensive network visibility of all your MX systems. Review event logs, monitor battery health, and access detailed module information and warranty dates.

Contact us to learn more and build an custom system at [carmanah.com](http://carmanah.com).

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