

# SignAlert Chevron

A Sequencing Guidance System

Powered by TrafficCalm

Our SignAlert Chevron is designed to give drivers a higher level of visual guidance when approaching curves. TrafficCalm's SignAlert Chevrons are ideal for use on today's highways that have the potential for accidental vehicle lane departures.

The sign itself has a high visibility display that outlines the Chevron legend with either 80 or 120 Hi Intensity Amber LEDs (depending on sign size) and boasts an effective angularity of 30°.

Multiple Chevrons in a single location are configured as a single network and flash sequentially in the direction of traffic.

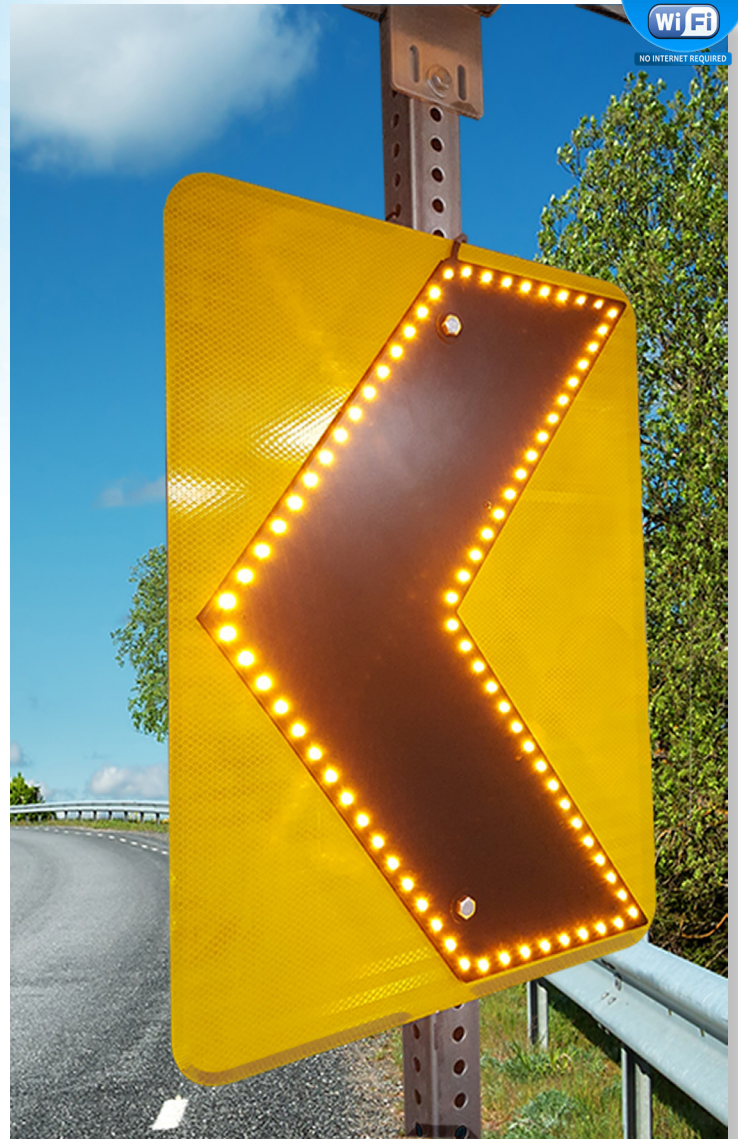
Installed firmware allows systems operating on bi-directional roadways to work autonomously and independently of one another.

## Available Options

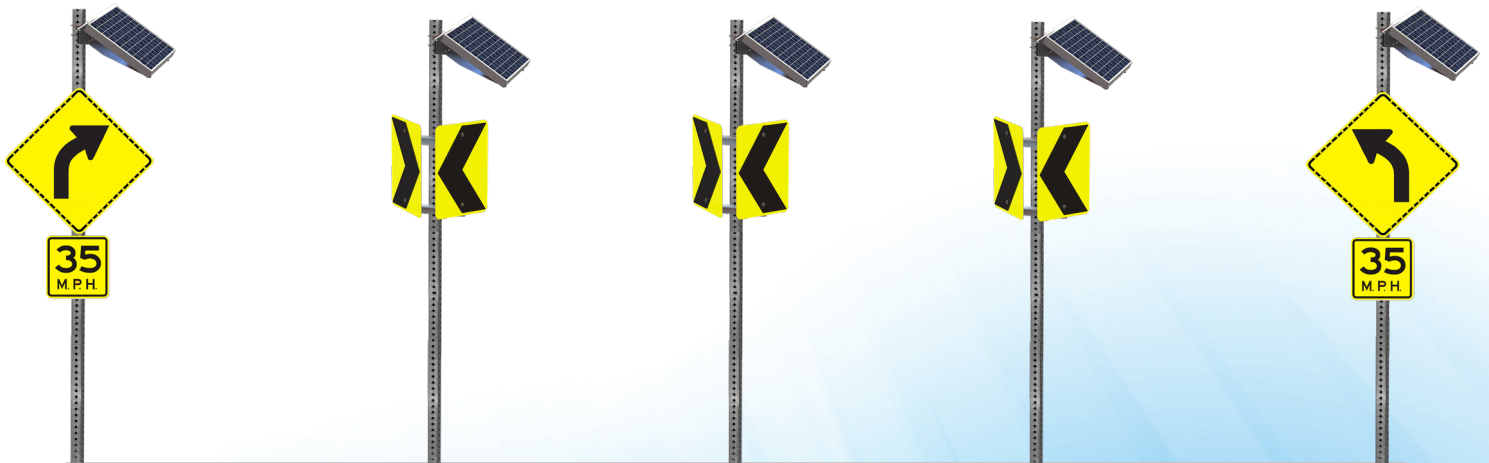
- ✓ Night Time Only
- ✓ Over Speed Activated
- ✓ Event Activated
  - Over Height
  - Icy Road
- ✓ Non-Sequential - 24/7



\*\* Including Battery



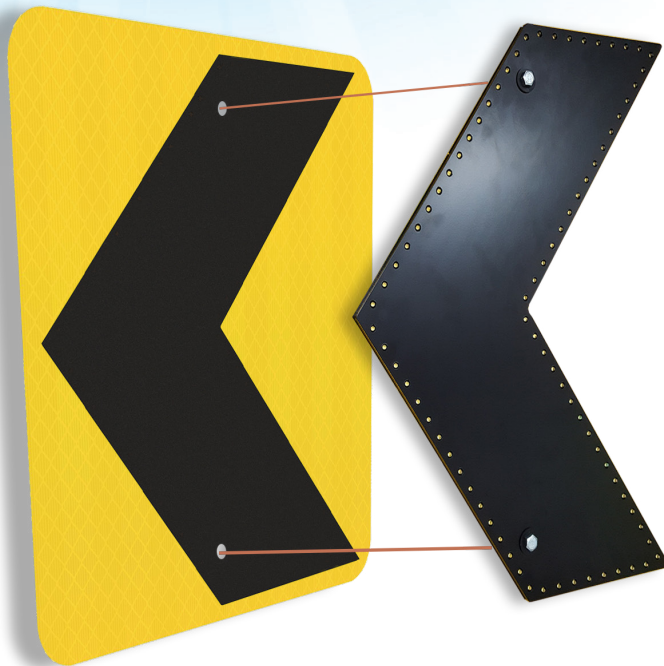
MUTCD Compliant



# 1,000,000 mcd - Milicandela

Depending on size of the sign, there are either 80 or 120 Hi-Intensity Amber LED's providing a nominal light intensity of up to 1,000,000 mcd with an effective viewing angle of 30°. This provides the sign legend with high visibility and high resolution, increasing conspicuity levels of the Chevron Signs (W1-8)

The SignAlert LED Enhancement and the functionality of the system are fully compliant with the FHWA Manual on Uniform Traffic Control Devices (MUTCD).



**One-Piece - Potted and Sealed LED enclosure providing the most protection against the elements**

.080" 5052 Highway Grade Aluminum.  
Black Powder Coated for surface durability.

## **Keep Your Sign:**

All Sequential Chevron components are designed to easily adapt and mount to existing infrastructure ... Including Signs!



- LEDs are rated for 100,000 hours
- 1,000,000 millicandela sign output (nominal daylight maximum)
- 80 LEDs arranged to outline legend on 18 x 24 and 120 LEDs to outline the legend on the 24 x 30 W1-8 Signs
- LED enclosures are mounted using accommodations (holes) for bolt-mounting directly to sign and post
- LEDs are wired in strings to activate simultaneously per MUTCD
- All LEDs will continue to flash in the event of an individual LED failure.
- All assemblies are manufactured in our ISO 9001:2008 facility

# Effective 30° Angularity

**ORANGE BEAM** - Represents the intermittent light that a narrow angularity of just 10° provides a driver through the curve.

**GOLD BEAM** - Represents the interconnectivity of light provided to a driver with...

TraffiCalm's Effective 30° Angularity

The wide angularity of TraffiCalm's SignAlert Chevron System sets us apart.

Each sign's wide angularity produces a 30° cone of view with dimming capabilities, producing maximum road coverage and allowing for the optimal output in various weather and lighting conditions.

30° angularity provides nominal light intensity at every point of travel a driver makes throughout the curve.

10° 30°



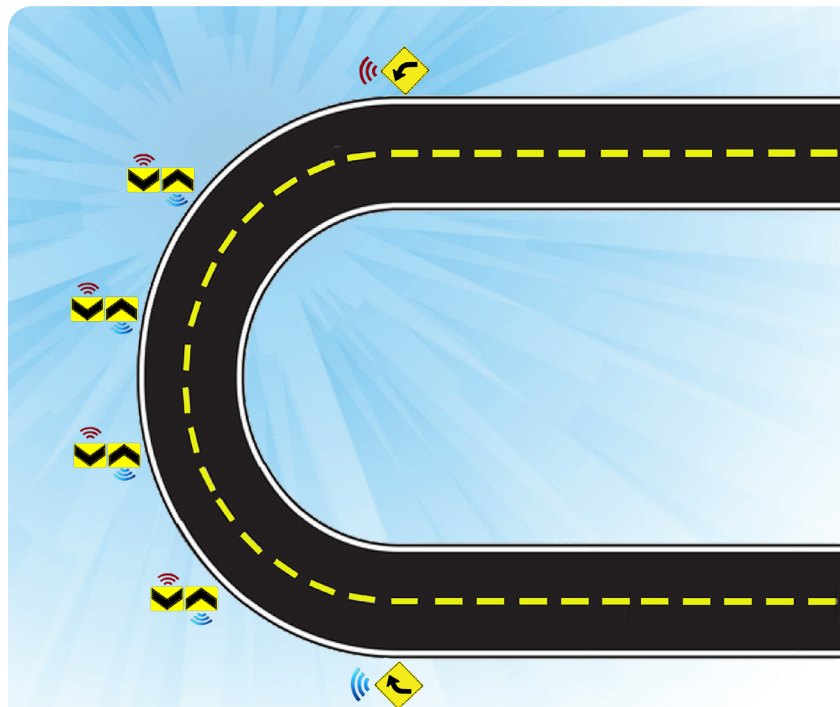
## SignAlert SMART RADAR

- 3.75"W x 2.5"H x 2.25" D
- Weatherproof NEMA 4 Enclosure
- K-band (24.15GHz)
- Average Range - 450'



- WiFi Connectivity without the need for Internet Connection
- Connectivity with all Browser-Enabled devices
- Speed-Triggered Flash Patterns
- Dual Speed Thresholds
- Multiple Flash Patterns
- Dimming Control
- Data Collection





| Detection/Activation Unit - SOLAR  |  |
|------------------------------------|--|
| Weight with Battery                | 12 lbs.  |
| <b>Power Requirements</b>          |  |
| Voltage                            | 12VDC Nominal  |
| Charger                            | MPPT solar charger 14.6VDC, 28W temperature protected  |
| Communications                     | Wireless Meshnet integration (device 2 device, +1,000ft range, repeatable signal, configurable network ID, AES-128 Encryption security, DSSS transmissions on selectable channels) |
| Battery Reserve                    | 28 days @ standard load (standard load = 25% activations per day with a single flasher ring) with no sunlight  |
| Isolation Required                 | 2 hours of good sunlight each day @ standard load  |
| Panel Supplied                     | 20W, 17.2V MPPV, 21.6V open circuit  |
| Outputs                            | 2 Chevrons @ 10W each  |
| Enclosure Rating                   | NEMA 4   |
| Mounting                           | Pole mount adapter   |
| Flush Mounted LED Flasher Rings    |  |
| Size                               | Standard Chevron Legend Size for 24x30 and 30x36 sign size - Reference MUTCD. .080" 5052 grade, black powder coated aluminum   |
| Mounting                           | Bolt-Mounting directly to sign and post  |
| LEDs                               | Amber (590nm): 15 degree cone of view; Rated 100,000 hours; 2.4K CDA/ M^2, Auto Dimming Employed   |
| Power                              | 10V to 18V<br>0W standby or OFF (No power required)  |
| Flash Patterns                     | 50 - 60 flashes per minute; 50% Duty Cycle. Additional alternative flash patterns available and are user programmable  |
| Dimming                            | 255 levels as determined by solar panel illumination or light sensor (AC)  |
| System Operating Temperature Range |  |
| Components                         | -40°C to +74°C   |
| Battery                            | -40°C to +60°C   |

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