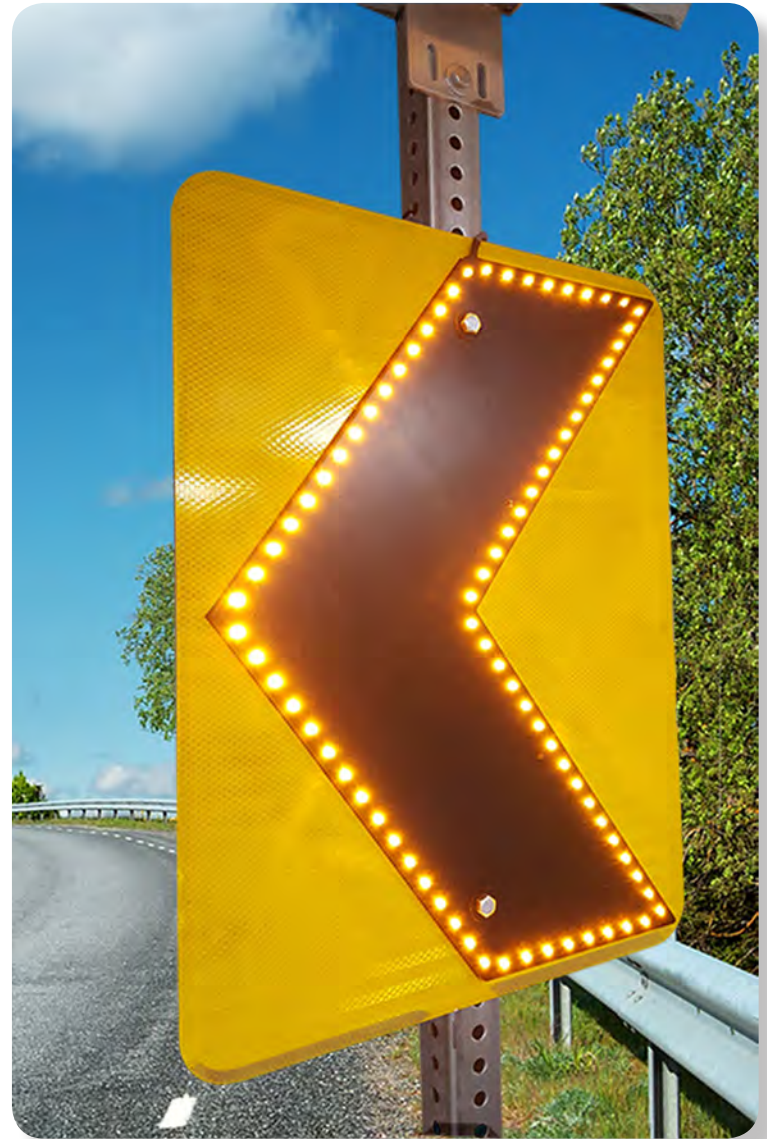


# CHEVRON

## Guidance System

Our SignAlert™ Chevron Solution is designed to give drivers an elevated level of visual guidance when approaching curves. TrafficCalm's SignAlert Chevrons are ideal for use on today's highways that have high potential for vehicle lane departures. The sign retrofit features a high visibility display that outlines the Chevron legend with either 80 to 128 high 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.

2-channel logic allows systems operating on bi-directional roadways to work autonomously and independently of one another.



### Available Options

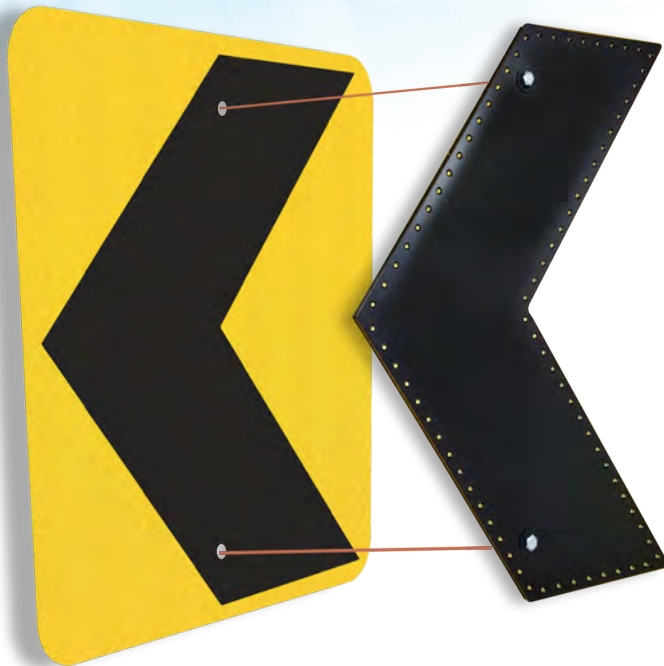
- ✔ Scheduled Operation
- ✔ Over Speed Activated
- ✔ Event Activated
  - Over Height
  - Icy Road
- ✔ Non-Sequential - 24/7



# 1,000,000 Milicandela

Depending on size of the sign, there are either 80 to 128 high intensity amber LED's providing a nominal light intensity of up to 1,000,000 mcd with an effective viewing angle of 30°. This accentuates the sign legend with high visibility and high resolution, increasing conspicuity of existing 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 provides 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 retrofit 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, 112 LEDs outline the legend on the 24 x 30 and 128 LEDs on 30 x 36 W1-8 Signs
- Thin LED assemblies 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



# Maximized Perceptibility

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

Each LED's wide angularity produces a 30° cone of view with dimming capabilities, producing maximum road coverage and producing 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

**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...

**TrafficCalm's Effective 30° Angularity**

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

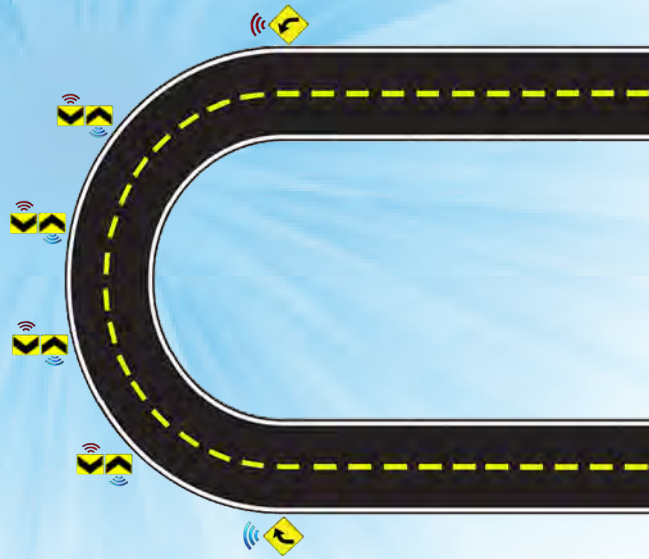


Dimming Control



Scheduled Operation





Controller/ Collaborator Unit - SOLAR	
Weight with Battery	20W Controller or Collaborator - 12 lbs.
Power Requirements	
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 (Optional 30W available)
Outputs	2 Chevrons @ 10W each
Enclosure Rating	NEMA 4
Mounting	Pole mount adapter
Flush Mounted LED Flasher Rings	
Size	Standard Chevron Legend Size for 18x24, 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 <sup>2</sup> , Auto Dimming Employed
Power	10V to 18V 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 (Low Temp "E" Variation required)

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