



## CHEVRON SIGN ALERT DYNAMIC CURVE WARNING SYSTEM

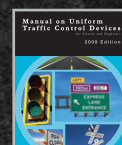
K&K Systems' Sign Alert™ Chevron Signs are designed to work wirelessly using solar power to activate ultra-bright LED beacons inserted into the sign to warn drivers of sharp or dangerous curves. The Solar Sign Alert System assures visibility in all weather conditions as well as during the day and night. Our solar panels are the latest in technology with electronics to maintain power levels through rain, shine, sleet, or snow.

Our Chevron Sign Alerts are programmed using the K&K CrossTalk Chevron which provides increased functionality and flexibility over traditional "wired" systems. The CrossTalk Chevron allows users to customize settings manually on-site and remotely using a wireless short-range connection or from virtually anywhere with cellular connection through our cloud-based software.



### FEATURES

- ▶ Automatic light output for maximum efficiency
- ▶ Weather proof enclosure
- ▶ Super bright LEDs for visibility day and night
- ▶ Ultra slim design
- ▶ Simple installation
- ▶ Solar powered
- ▶ CrossTalk Smart Controller Technology
- ▶ Smart solar charger
- ▶ Compact battery box



• Meets MUTCD (Manual on Uniform Traffic Control Devices).

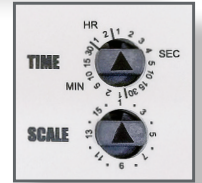
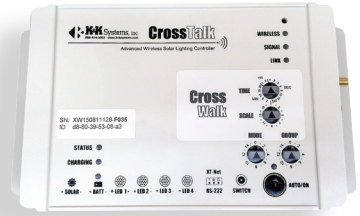


• NCHRP 350 Crash Tested and Accepted (National Cooperative Highway Research Program)

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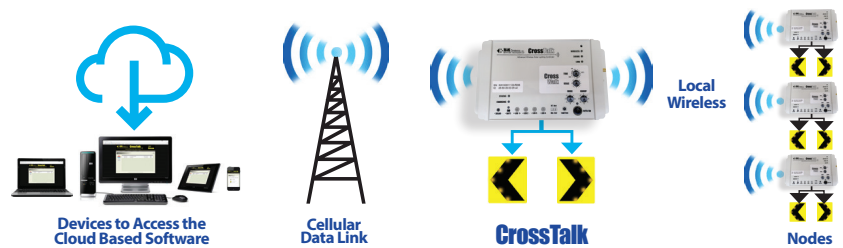
## CrossTalk CONTROL SYSTEM

The CrossTalk is an efficient and cost saving solution for Chevron Sign Alert functionality. The CrossTalk Controller allows wireless communication between all signs marking a curve. The CrossTalk CHEVRON Curve-Warning Controller is an advanced cellular / wireless lighting device that utilizes low-power radar triggering, MPPT solar, and easy field configuration with simple on-board rotary switches. Each CrossTalk controls a bi-directional chevron sign. The Primary CrossTalk controls multiple "grouped" chevron signs for all ON / FLASHING functionality. The radar connected unit detects on-coming vehicles and wirelessly signals the other grouped chevron sign controllers to FLASH sequentially or simultaneously per the user-specified settings.



## REMOTE CONNECTIVITY & CONTROL

K&K's cloud-based CrossTalk system allows our customers to remotely connect to CrossTalk CHEVRON Curve Warning Systems from almost anywhere to check the system status, change settings, and monitor vital data including battery voltage, solar voltage, input/output status, GPS location (optional), and collect other system data for future analysis.



## SYSTEM FUNCTIONALITY

The CrossTalk CHEVRON Curve Warning System uses a flexible primary/node architecture allowing for multiple configurations and user-defined application settings. A radar sensor is connected to the initial unit to detect oncoming traffic and "triggers" the system to start the desired curve-warning signaling pattern and timing. With a primary CrossTalk installed on both ends of the curve, the system triggered both directions.

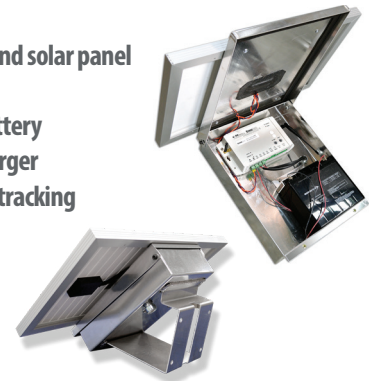


## SYSTEM SPECIFICATIONS

- Maximum distance between nodes: 1+ miles
- Maximum number of nodes: 16 (standard system - up to 256 nodes for custom applications)
- Typical real-time data available: battery voltage, solar voltage, location (if GPS equipped), trigger count
- Optional system data & functions: alarm/data log of trigger events, text/email alarms
- Optional sensors: rain sensor (wet road conditions), optical sensor (vehicle detection)

## COMPACT CONTROL CABINET

- All controls hidden behind solar panel
- 20 watt solar panel
- Off the shelf 18 amp battery
- Multi-stage battery charger
- Maximum power point tracking
- Adjustable duty cycle
- Smart controller
- Light weight design



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