

WRONG WAY WARNING SYSTEMS

FLASHING SIGN SYSTEM

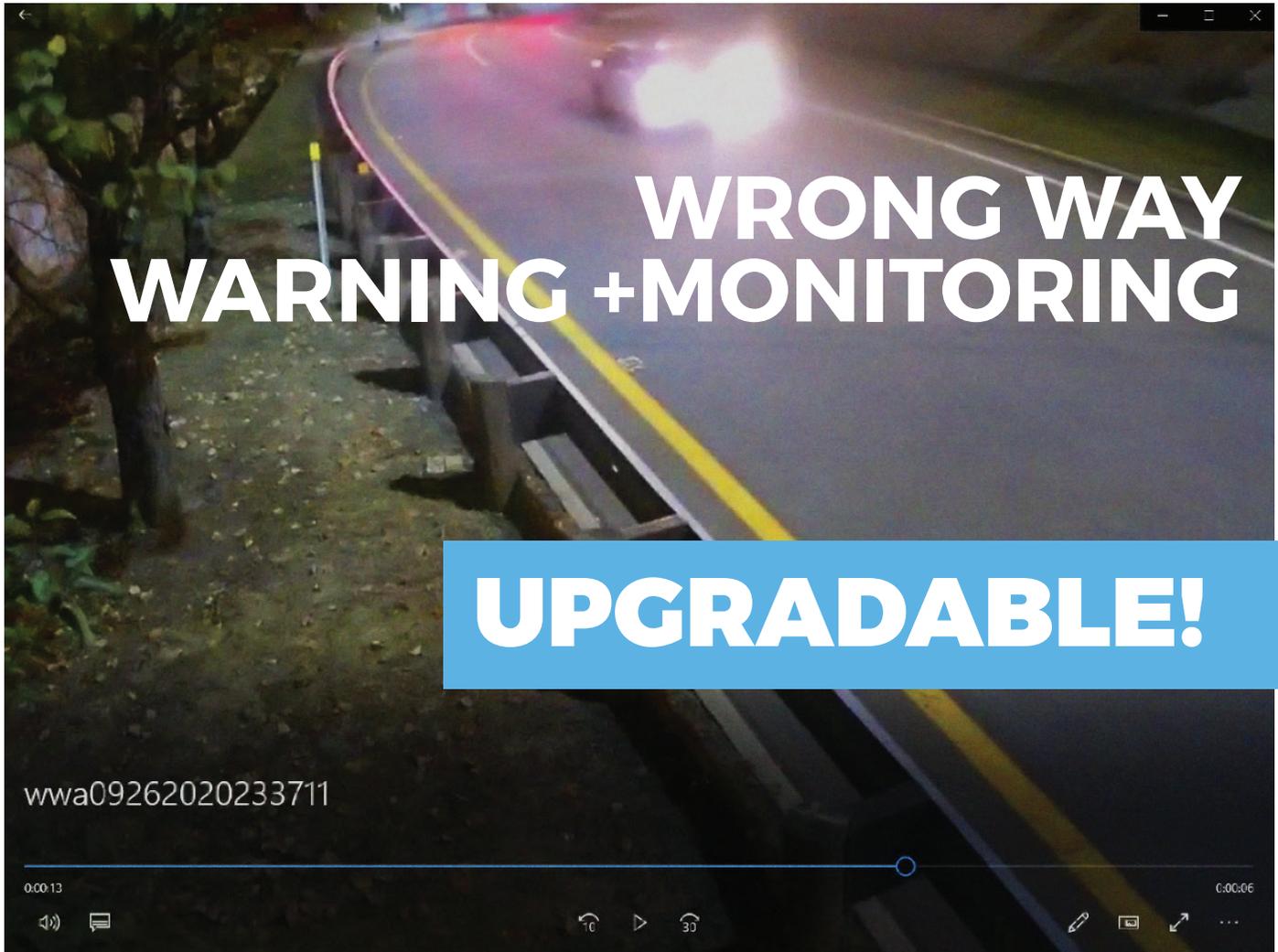
 **TRAFFIC**CALM[®]



ONE PROBLEM, TWO SIMPLE SOLUTIONS



- The concept is simple, flashing sign enhancements (we call them rings) get driver's attention, regardless of the conditions. Live activation by way of radar detection dramatically improves response.
- Proven 88% (or better) turnaround rate after encountering the LED flashing signs before entering the mainline and causing a crash.
- Stretch budgets to cover every ramp and realize Vision Zero goals.
- Leverages patented wireless Radar Collaboration to ensure accuracy.
- TrafficCalm[®] Wrong Way Solutions check all the boxes in a ruggedized design that will not let you down.



All the benefits of our Warning System, plus...

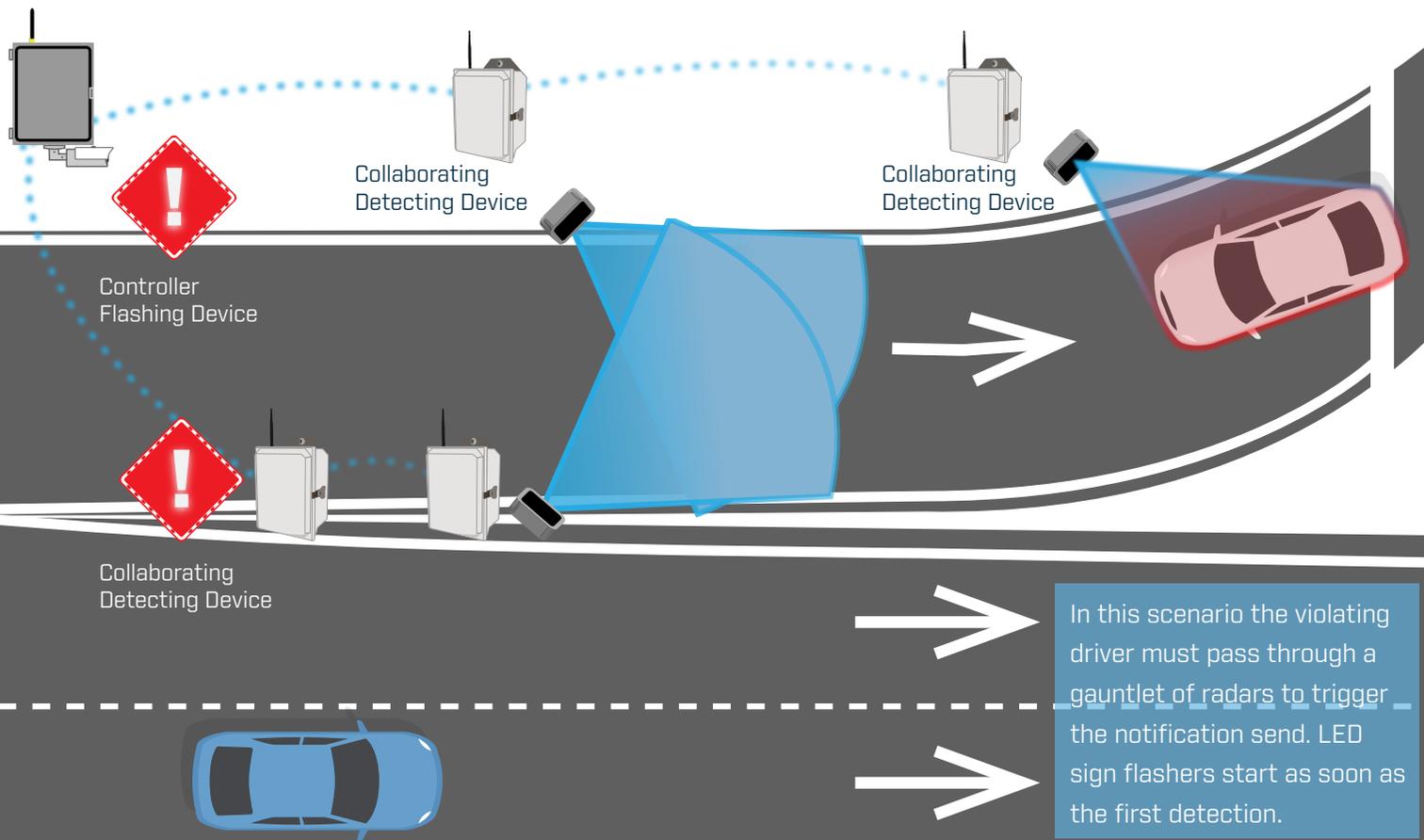
- Enhanced collaboration algorithms calculate detections from up to 8 radars for industry topping reliability, and virtually eliminate false alarms.
- Video notifications delivered over lightning fast 4G networks.
- Email, text, and web based notifications personalized to your team's expectations.

THE MAGIC OF COLLABORATION

When it comes to Wrong Way Mitigation false detections can't be tolerated.

Our patented wireless collaboration combines information from several radar detectors to produce astounding reliability.

No other solution excludes false detections as intuitively as our Wrong Way Warning Systems.



Hundreds of mitigation systems on real streets tell one story, TraffiCalm[®] engineers solutions you can trust.

TraffiCalm[®] Wrong Way Solutions are designed for tomorrow's roads on today's budget.

Retrofit Installation

Reuse existing signs, posts, and infrastructure.

Capitalize on existing investment.

Requires less planning and fewer permits.

Upgradable

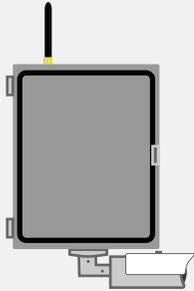
Start with our Warning System today, upgrade to +Monitoring down the road.

Zero waste scenario uses all components.

Connected vehicle ready.

JUST 5 COMPONENTS

**+MONITORING
CONTROLLER**



**WARNING
CONTROLLER**



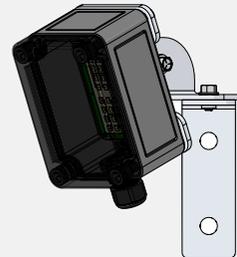
COLLABORATORS



**FLASHING
SIGN RING**



**RADAR
DETECTOR**



TraffiCalm® Products are designed to be familiar for any application. Wrong Way Warning Systems are no different.

With 5 basic components, we can build hundreds of safety applications.

One Controller commands a wireless network of many Collaborators each connected to Radar Detectors and/or Flashing Sign Rings.

Easy to use TC-Connect configuration software can be accessed, without a download, from any wi-fi equipped device- making setup a breeze, even for complex systems.

M75-SA300-RDRO RADAR DETECTOR

Specifications

Physical Description

Size: 3.75" W x 2.5" H x 2.25" D Weight: 2.5 Lbs
 Mounting: Universal bracket accommodates most industry standard round or square posts of suitable load rating

Detection

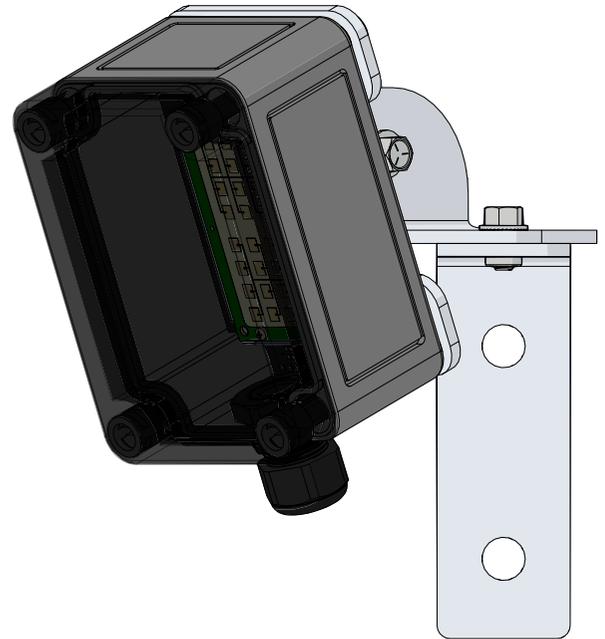
Speed Resolution Min 5mph, Max 139 (8kph to 223kph)
 K-Band [24.15GHz], direction sensing, license free (FCC Part 15 compliant)
 Range: 1000 ft. [365m]

Compatibility

Integrates with all Trafficalm SA300 Controllers and Collaborators

Environmental

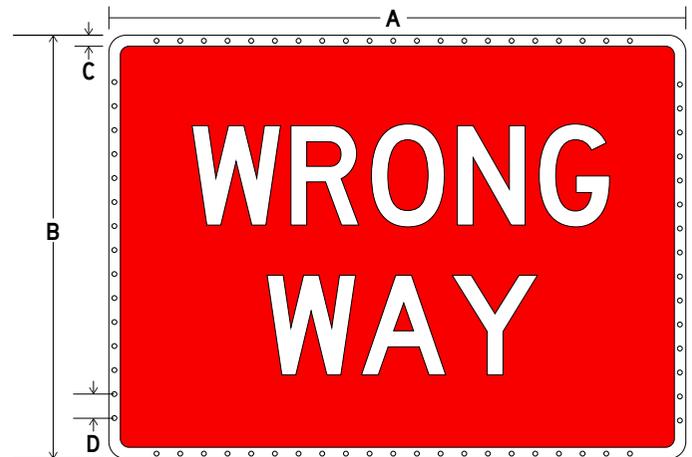
Nema 4 Enclosure
 Potted electronics (hermetically sealed)
 -34° C to + 60° C operating range [-29° F to +140° F]



WRONG WAY SIGN ENHANCEMENT RINGS

Specifications

Available Sizes: 36"x24", 42"x30", and 48"x36"
 Retrofits to any existing Wrong Way Sign manufactured to MUTCD requirements of corresponding size with no hardware or wiring exposed on reverse of the sign
 Mounting: all LED hardware mounted within the white border of the sign. Mounted either with adhesive backing or included self tapping screws. Rivets may be utilized to improve tamper resistance
 MUTCD compliant LED placement and usage
 10ft. (3m) single cable extension to reach Controller or Collaborator
 Red LEDs with 30° Viewing Angle



MUTCD Sign Size	Part Number	Ring Width (A)	Ring Height (B)	Ring Width (C)	LED Offset (D)	LED Count	Light Output (cd)	Power (Watts)
36"x24"	M75-R3624-WR03	36"/91cm	24"/61cm	.625"/1.6cm	1.9"/4.8cm	48	324000	3.84
42"x30"	M75-R4230-WR03	42"/106cm	30"/76cm	.625"/1.6cm	1.9"/4.8cm	60	405000	4.80
48"x36"	M75-R4836-WR03	48"/122cm	36"/91cm	.625"/1.6cm	1.9"/6.1cm	72	486000	5.76

WARNING CONTROLLER AND COLLABORATORS

Specifications

All Controller and Collaborator Models Feature:

Physical Description

Mounting: Universal bracket accommodates most industry standard round or square posts of suitable load rating

Nema 4x enclosure, all electronics potted

Stainless fasteners used for corrosion resistance

Input/Output

Inputs: 1 per controller, accept dry contact closure, optional input devices include Push Button, Environmental sensors, and others.

Outputs: 2 per controller, 12W max requirement, output devices include Sign Rings, RRFBs, Beacons

Radar Port: accepts input from TraffiCalm® Lite Radar

Alternative Sign Flashing: utilizes Radar Port + and -, radar input cannot be used in this scenario

Light sensor for configurable auto-dimming feature

TC Connect™ Human Interface

WiFi Connectivity on any device - No Internet Connection required

Mode Selection: Collaboration, Push 2 Cross, etc.

Configurable Flash Duration

Unified Wireless Collaboration Activation and Setting
Configurable auto dimming profiles

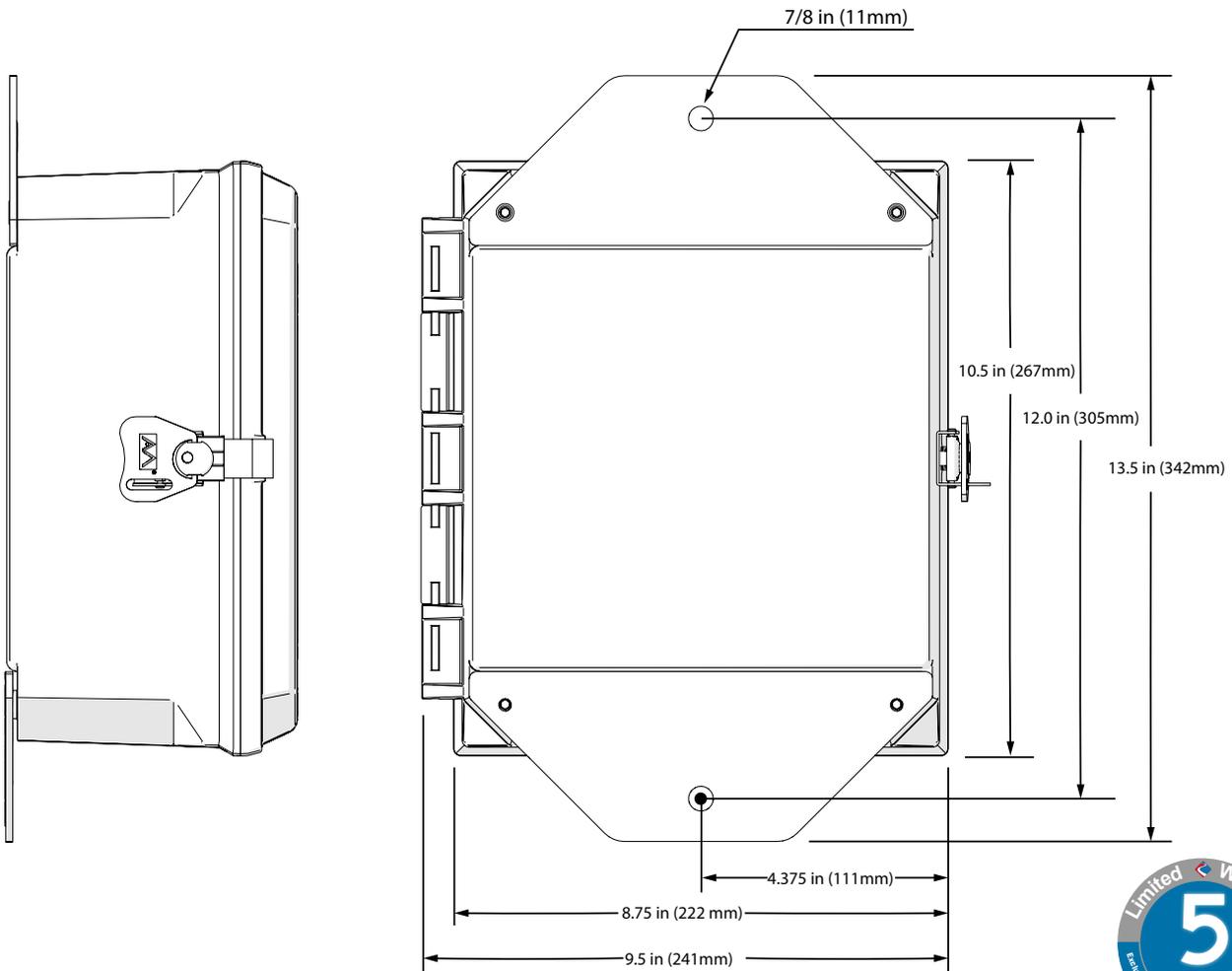
Other Info

Wireless activation within 100 mS

Wireless range of 1000'/305m

-34° C to +50° C operating range
(varies with battery type used)

5 year warranty, excluding batteries



MONITORING CONTROLLER

Specifications

Physical Description

- Mounting: Universal bracket accommodates most industry standard round or square posts of suitable load rating
- Nema 4x enclosure
- Stainless fasteners used for corrosion resistance

Input/Output

- Inputs: 1 per controller, accept dry contact closure, optional input devices include loop detectors
- Outputs: 2 per controller, 12W max, output devices include Sign Rings, RRFBs, Beacons
- Radar Port: accepts input from TrafficCalm[®] Radar Detector Light sensor for configurable auto-dimming feature
- 12-21 VDC input from AC or Solar supplies

TC Connect Human Interface

- WiFi Connectivity on any device - No Internet Connection required
- Mode Selection: Collaborative Detection, Curve Warning, etc.
- Configurable Flash Duration
- Wireless Collaboration Activation and Radar sensitivity settings
- Configurable auto dimming profiles

Performance

- Wireless activation within 100 mS
- Wireless range of 1000'/305m
- 34° C to +50° C operating range
(varies with battery type used)
- 5 year warranty, excluding batteries

Camera Highlights

- 1/2.8" 2MPH Starlight CMOS Sensor
- 1080p resolution
- H.265 compression
- Motorized 2.8-12mm, F1.6 lens
- Smart IR with 50m effective range
- Defog mode
- 3 axis angle adjustable
- IP67 weatherproof

Modem Highlights

- 4G LTE with 3G/2G fallback
- 50mbps Upload
- Dual SMA dipole antennas
- 580 MHz Processor, 128MB Ram
- FCC Part 15 Class C and RoHS certifications

