





Wrong Way LED Warning System

High-visibility real-time warning to drivers traveling the wrong direction

Wrong way driving often leads to the most feared of traffic incidents, the head-on collision. These collisions are more likely to produce serious injuries and fatalities. Most of the time the offenders are confused, distracted or intoxicated drivers, so one might think there's little that can be done to prevent wrong way driving.

Installing DO NOT ENTER and WRONG WAY BlinkerSign® LED signs can deter drivers from making wrong-way movements onto freeways and other restricted roads by providing extra visible warning cues standard traffic signs lack. Optional activations include vehicle direction sensors (radar speed detection and induction ground loops). Additional signs facing the opposite direction can be added to warn drivers of the wrong way traveling vehicle.



Option 1: 24/7 or dusk till dawn Blinkersign or BlinkerBeacon
Low cost option with continuous flashing

Option 2: Time Clock

• Preset schedule to when accidents are primarily occurring

Option 3: Single Radar

• Will flash as vehicle approaches

Option 4: Dual Radar w/ BlinkLink[™] Alert Network

 Front end radar to trigger sign while back end radar send alerts to dispatch

Option 5: Dual Radar w/ Camera & BlinkLink™ Alert Network

Same as option 4 with confirmation camera to validate wrong way driver. Images retrieved from central PC



Reduce accidents, incidents and fatalities (30% in latest San Antonio study)



Wrong Way BlinkerSign®/ BlinkerBeacon® (Used in all Options)

Features and Benefits

- Installs easily onto most new or existing sign post or poles
- Can be integrated into an ITS (Intelligent Transportation System)
- Day-Viz® daylight visible high intensity LEDs are highly visible in bright daylight, fog, rain, and snow

Sign Specifications						
	Sign Substrate	.080 Highway Grade Aluminum				
	Reflective Sheeting	3M™ DG3 - with anti-graffiti overlay				
	MUTCD Compliance	MUTCD Section 2A.07 Compliant				
Warranty						
3 Years						

Size Options (MUTCD standard)



Time Clock Controller and Scheduling Software (Option 2)

Hardware Time Clock Controller

This hardware controller is integrated into TAPCO BlinkerSign® LED signs and stores the schedule uploaded from the included Scheduling Software. In turn, the controller activates the BlinkerSign® according to the stored schedule.

To configure or alter scheduling for a BlinkerSign*, simply connect a laptop (not included) running the Scheduling Software to the ITS Time Clock Controller via a USB cable (included). The schedule is uploaded to the time clock controller/BlinkerSign* and can also be saved to the laptop for updating or use in other ITS devices.

Benefits

- Can be scheduled for late night hours, bar time, when accidents occur
- Dusk till dawn option also available



BlinkerBeam® Wireless Communication (Options 3, 4, & 5)

Wrong Way BlinkerSign* Warning Systems typically consist of two Wrong Way signs (1 & 2) one on each side of the roadway. When activated, the signs communicate wirelessly with each other through the BlinkerBeam* transmitter 3. Instantly both signs are flashing in unison.

- Operates license-free on 902-928 MHz Spread Spectrum
- Stand-alone operation
- Solar Powered or 110 VAC operation
- Fully programmable outputs
- Range up to 900 feet with internal antenna, optional antenna for extended distance





BlinkerBeam® permits wireless synchronous communication between two or more Wrong Way BlinkerSign® LED signs.

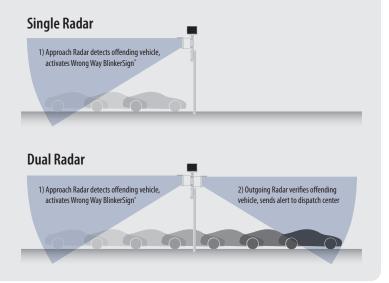
Radar Detection & Dispatch Alert (Single Radar Option 2, Dual Radar Options 4 & 5)

Approach Radar Features and Benefits (Single & Dual Radar)

- Fully configurable via RS232 serial port for all settings
- Wide input operating range & low power allows solar operation
- Weatherproof enclosure option
- Will make sure sign flashes when vehicles are present

Outgoing Radar Features and Benefits (Dual Radar Only)

- Will trigger alert to dispatch
- Wide input operating range & low power allows solar operation
- Confirms wrong way driver



Confirmation Camera (Option 5)

- HDTV 720p
- Power over Ethernet
- Images sent to server
- Video motion detection

1/4" progressive scan RGB CMOS		
2.8mm 81" view, f2.0, fixed iris, fixed focus		
1.0 – 10000 lux		
1/6 s to 1/ 24500 s		
1280x720 to 320 x 180		
25 fps @ 50Hz and 30 fps @ 60Hz		
IP66 Nema 4x-rated metal casing (aluminum)		
256 MB RAM, 128 MB Flash		
8-28V DC max 4.7 W		







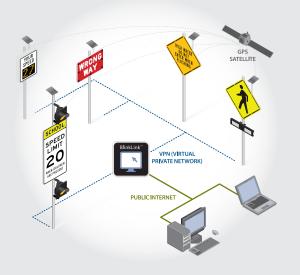
The confirmation camera located on the wrong way BlinkerSign® provides a third form of confirmation through visual snap shot uploads of wrong way drivers.

BlinkLink[™] **Web-based Traffic Device Monitor & Control** (Options 4 & 5)

Real-time map based location monitoring shows the status of all web enabled Wrong Way devices. The activation of a device triggers a visual and audible notification on the BlinkLink[™] portal.

Additional notifications are sent via email and SMS text messaging so that the right people get notified no matter where they are. Within seconds after a notification is received, a series of images are sent to the BlinkLink** system and can be viewed to show the event as it happened for visual verification and identification of the Wrong Way incident.

- Logs of the events are kept and can be exported.
- User accountability and access controls enable the customer to track who can do what, and when they did it.
- Notification logs also verify that notifications are being sent out and to whom they have been sent out to.



		Option 1	Option 2	Option 3	Option 4	Option 5
Components	BlinkerSign®/BlinkerBeacon®	>	>	>	>	/
	BlinkerBeam®			/	<	~
	24/7 Dusk till Dawn	/				
	Time Clock		/			
	Single Radar			/		
	Dual Radar				/	~
	Confirmation Camera					/
	BlinkLink™				/	/







