

# Wrong Way Driver Detection

The Wrong Way Driver (WWD) detection framework developed by Southwest Research Institute® (SwRI®) is the low-cost solution for transportation departments to increase awareness and the overall safety of vehicles on highways.

Our single-unit, easily deployable system consists of a single thermal camera, in-house computing, an AC-DC voltage regulator, and an Ethernet switch. The small number of components makes deployment and operating costs extremely low.

The system is ready for integration into any existing transportation management system. Our robust solution highlights capabilities such as:

#### **Performance Metrics**

- 99% detection rate (one false positive per week)
- Up to 40 meter detection distance
- High-speed vehicle detection

### **Operating Conditions**

- Day/night operation
- Operable in adverse weather
- Robust to vibrations
- Overcomes nuisance false alarms

### **DOT Ready**

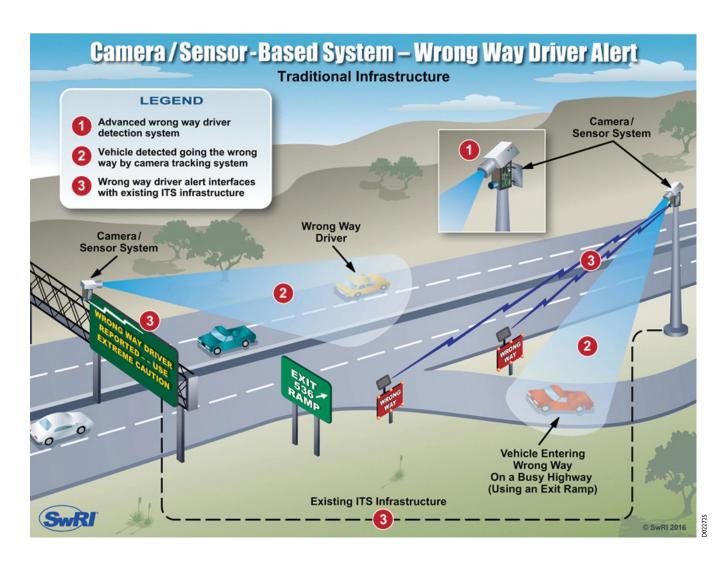
- Low-cost solution (< \$5K)</li>
- Single-unit technology
- Event logging and messaging for existing ITS infrastructure
- Multi-lane monitoring (up to four lanes)



Single-unit technology for easy deployment



Detection of wrong way driver event



We welcome your inquiries. For more information, please contact:

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## SOUTHWEST RESEARCH INSTITUTE

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