ATS WRONG WAY ALERT SOLUTION™

ALL TRAFFIC
S O L U T I O N S

Prevent collisions caused by drivers traveling the wrong way.

ATS Wrong Way Alert uses Lidar or radar to sense wrong-way drivers on travel roadways, on/off ramps and intersections. The multi-channel notification system alerts the driver with flashing red messages and beacons, telling them to stop and turn around, notifies designated authorities immediately via email or text message (both with links to video when available), alerts other drivers of the wrong-way vehicle via dynamic messages on variable message signs; and optionally via 511 systems, TMC and/or social apps.

Initial Detection and Confirmation Sensors

Detection and confirmation of the wrong-way vehicle is made by Lidar or Doppler radar, depending on detection environment. If the travel lane area of detection is directly next to a lane of traffic that should be traveling in the same direction as the detection area of interest, the detection area is limited to only a specific area with proper selection and configuration of the detection sensor.

Upon detection of a wrong-way vehicle, the initial detection sensor sends a signal to the ATS TraffiCloud® Remote Management Service and message signs via a wired or wireless connection, initiating the "Wrong Way" message. The initial detection sensor can be up to 1000 feet in advance of the message sign.

An optional confirmation sensor can be located after the message sign; if the vehicle continues past the sign, a signal is transmitted to the central controller to send an alert to the designated authorities.

Signs can be deployed on portable posts or on trailers, or permanently mounted on poles

Multi-lane Sensing

- Can be determined using Lidar or radar detection in all light and weather conditions. ATS can use the sensor that's best for your environment.
- If there is no "right way" traffic within the detection range, radar sensing is a very cost-effective solution, as it detects wrong way vehicles over multiple lanes of traffic. ATS' suite of sensors can handle curves, short distances multi-directional traffic and most other environmental conditions.

Single-lane Sensing

- The ATS QueTrak Lidar vehicle detection device is ideal because it has extremely accurate directional vehicle tracking capabilities and is not influenced by traffic outside its detection zone or affected by light conditions or weather.
- In single-direction traffic, radar is an option, but if traffic is moving in both directions the radar cannot filter this out.

Notifications

Notifications are sent using **ATS TraffiCloud**, which provides real-time wrong-way alerts with accompanying video via email or SMS message to predetermined contacts.

TraffiCloud automatically pushes a message to the sign when a wrong way driver is detected.

- Alerts can be sent to as many recipients as desired
- Validation videos are included as links in Alerts
- System is password-protected with multiple levels of access
- Fully hosted, turnkey web-based remote management
  - o Internet-connected computer and browser provides anywhere access
  - o No IT infrastructure or support necessary
  - o No additional hardware or network appliances necessary
  - o No software or middleware to install for remote management
  - o Wireless cellular connection provided by ATS; no separate charges
  - o Web-based user interface is always up to date and continually receives applicable enhancements
- System can be accessed via API to inform other systems in real-time

On Tue Sep 24, 2019 at 10:02 AM Kent Smith
<ksmith@alltrafficsolutions.com> wrote:

At Tue, Sep 24, 2019, 08:16 AM, a device
"Belle Plaine NB Exit xb" reported a vehicle
traveling in the wrong direction.

Click Here to View Video

Email alert of wrong-way incident triggered by TraffiCloud
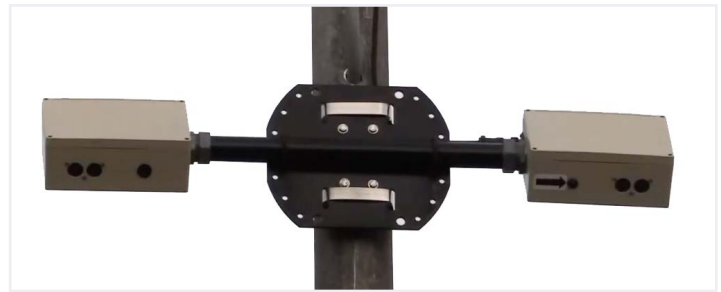
ATS QueTrak Lidar vehicle detection

Message Sign

- Four ATS message signs are available to display the 'Wrong Way' messages
  - o InstAlert 18 (IA18) : 18" x 28" full matrix
  - o InstAlert 24 (IA24): 24" x 60" full matrix
  - o SpeedAlert 18 (SA18): 18" x 28" full matrix
  - o SpeedAlert 24 (SA 24): 24" x 60" full matrix
- Red LEDs display WRONG WAY messages
- Optional strobes increase visibility, catch drivers' attention

IA18/SA18

- 1-2 line messages
  - o 1 line: 10.25" H x 5.75" W characters, 4 per line
  - o 2 lines: 7" H x 4" W characters, 6 per line

IA24/SA24

- 1–3 line messages
  - o 1 line: 24" H x 12.5" W characters, 4 per line
  - o 2 lines: 10.25" H x 5.75" W characters, 8 per line
  - o 3 lines: 7" H x 4" W characters, 12 per line
  - o 2 lines: (1) 7" characters, 12 per line, (1) 10.25" characters, 8 per line
- Meets MUTCD specifications

See InstAlert and SpeedAlert specifications sheets for complete sign specifications.

Power

- System can be run on AC or Solar power. Power is tailored to the requirements of the installed location
- Input: 12VDC
- System is powered with individual power at each component, or by a central power system, either AC or solar
  - o If a central system is used, communications are wired
  - o If individual solar power is provided, communication is via radio

Mounting Options

Permanently Mounted Installation

The ATS QueTrak is mounted to a pole and uses AC power. Radio link to InstAlert or SpeedAlert sign for notification (solar or AC).

Portable Installation

The QueTrak can also be mounted on an ATS 3 Trailer and solar powered.

Integrates with existing transportation infrastructure