ATS WRONG WAY SOLUTION

ALL TRAFFIC
S O L U T I O N S

™

Prevent collisions caused by drivers traveling the wrong way.

The ATS Wrong Way Solution™ uses Lidar or radar to sense wrong-way drivers. Our multi-channel Notification System alerts the driver with flashing 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), and optionally can alert other drivers of the wrong way vehicle via dynamic messages on variable message signs, via 511 systems, TMC and/or social apps.

Ideal for:
- On/off ramps
- Travel roadways
- Intersections

Initial Detection and Confirmation Sensors

Detection and confirmation of the wrong-way vehicle is made by Lidar or Doppler radar, depending upon the 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 TraffiCloud™ 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.

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 costeffective 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, nor is it affected by light conditions or weather.
- In single-direction traffic, radar is an option, but if there is traffic going in both directions the radar cannot filter this out.

Notification

Notifications are sent using **ATS TraffiCloud** cloudbased software, 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

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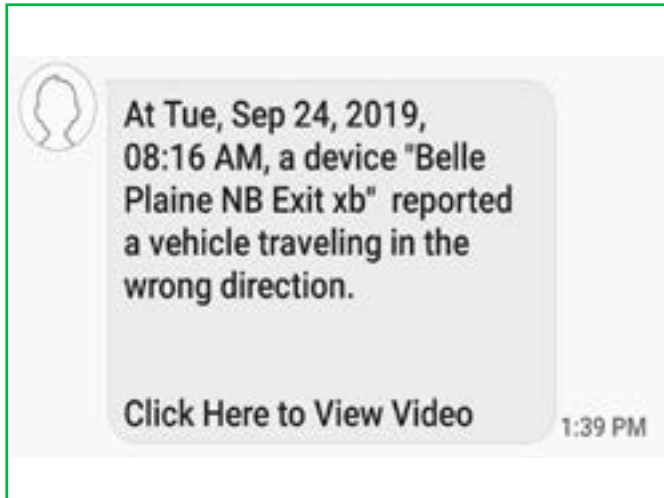
Email alert of wrong-way incident triggered by TraffiCloud

- 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

Message Sign

- Four ATS message signs are available to display the 'Wrong Way' message
  - 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 available to 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 the InstAlert and SpeedAlert specifications for more VMS sign specs

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:
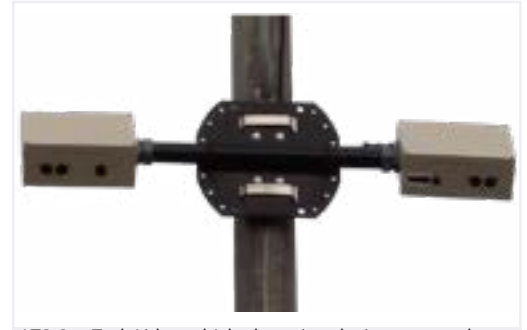The QueTrak can also be mounted on an ATS3 Trailer™ and solar powered.

PORTABLE AND PERMANENT MOUNTING OPTIONS

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

Integrates with existing transportation infrastructure

ATS QueTrak Lidar vehicle detection device mounted on a pole

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