

**PRODUCT SPECIFICATIONS:**

SPEEDLANE COUNT AND CLASSIFIER

SpeedLane Counter and Classifier

- Dual beam, side fire FMCW radar unit
- Traffic measurements on per vehicle, per lane basis
- Detects lane, speed and class of individual vehicles
- Computes
 - per lane volume
 - occupancy
 - gap
 - average speed
 - 85th percentile speed
 - headway parameters
- Very low power, 0.85Watts
- Self-contained, no other cabinets needed
- **Dimensions:** 26" (670mm) long x 3" (76mm) diameter
- **Weight**
 - Without battery: 4.6lb (2.1kg)
 - With LFP battery: 6.4lb (2.9kg)
- Works in all weather and light conditions
- FCC certified and CE listed
- Built in camera provides streaming HD video making installation and aiming simple
 - 1.3MP HD video camera (streaming via Ethernet only)
 - Use for setup and remote monitoring
 - Video 10fps, 60° field of view,
 - HD snapshots, 1280x960 max resolution
- **Communication**
 - Built in long-range Bluetooth (Class 2.1+EDR, 800' range)
 - RS232/RS485 Serial Ports
 - Ethernet

- Windows app to configure, display real time plots of targets and view snapshots and streaming HD video
- Android App for setup and camera view
- GPS (optional)

Installation Parameters

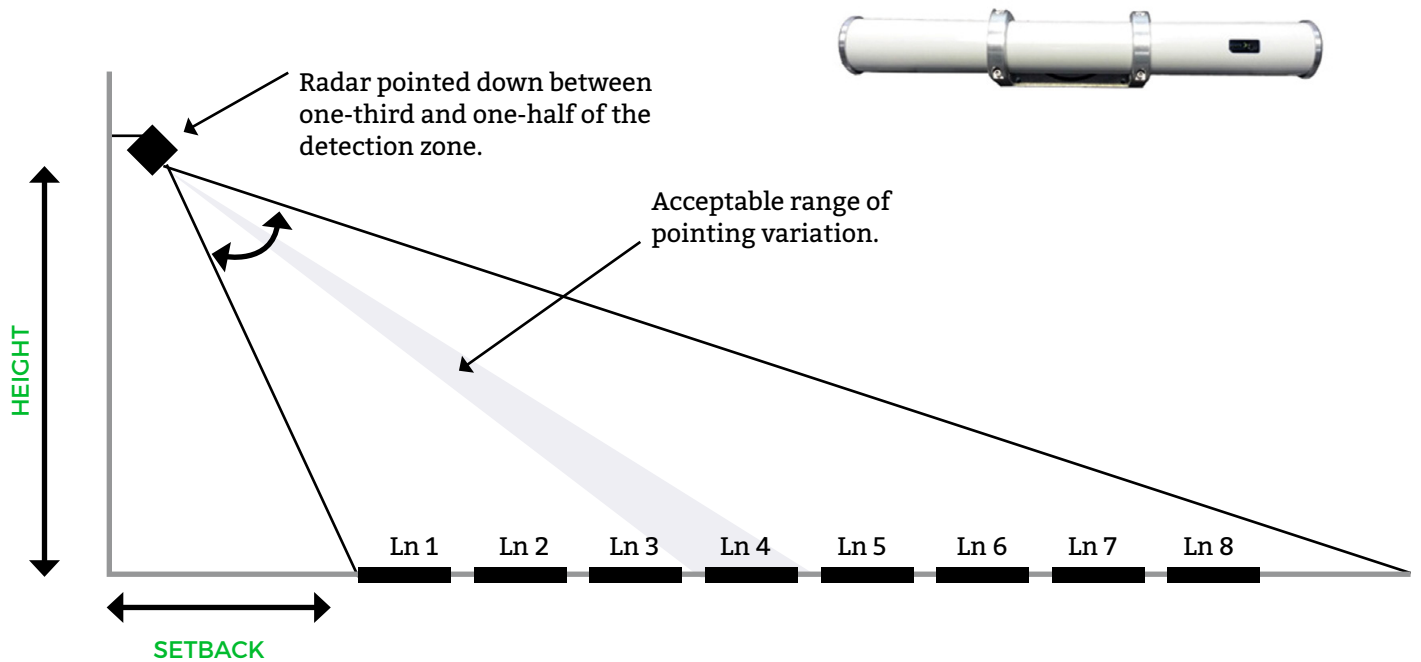
- 8 lanes maximum
- **Range:** 145 feet (44m) recommended, 160 feet (49m) max
- **Minimum setback:** 7 feet (2m)
- **Operating temp:**
 - Without battery: -40C to 85C
 - With LFP battery: -20C to 60C
- Electronic gyroscope provides tilt and level measurements for setup

Radar

- 5mW maximum each radar (2)
- 24.020-24.230 GHz
- Beam angle: 20° x 60°

Performance

- **Speed Accuracy:**
 - Average per lane: ±1%
 - Average per direction: ±1%
 - Per Vehicle: ±6% for 90% of vehicles
- Volume Accuracy
 - Per direction typical: 98-99%
 - Per direction minimum: 95%
 - Per lane typical: 98-99%
 - Per lane minimum: 90%
- Length Class Accuracy
- ±5.7ft (1.7m) or 15%, whichever larger for 90% of vehicles



- 8 classes max
- TraffiCloud Web-based Management Services
- Automatic data collection
- Turnkey, hosted system
- Hosted data available to run variety of reports
- Alerts for power issues
- Map view with locations of all equipment
- SDK available for API
- Includes modem and cellular service

Data Storage

- Data available real time, also stored in device memory
 - 512 MB onboard storage plus micro USB storage slot
 - Speed, Lane and Class for 1,000,000 vehicles
 - Per lane average speed, 85% speed, occupancy, gap, headway for 3+ months

- SQL based query interface for historical data
- DVR to record last 18 hours of video (optional)

Power

- Input: 12VDC, 0.85W (7-15VDC, Optional isolated 9-32VDC)
- Internal LFP (LiFePO4, 96WHr) battery provides operation for up to 4 days for temporary installations, and acts as UPS for permanent installations (optional)
- Internal MPPT solar charger controller for optimal solar charging (optional)
- 30W solar panel (optional)
- POE – Power over Ethernet (optional)
- Reverse power protected with resettable fuse

Outputs

- 8 isolated electronic switch outputs (optional)

All Traffic Solutions 12950 Worldgate Drive, Suite 310, Herndon, VA 20170

Phone 866.366.6602 | sales@alltrafficsolutions.com | AllTrafficSolutions.com

©All Traffic Solutions

TraffiCloud leverages our patented technology (US Patents 8,417,442; 8,755,990; 9,070,287; 9,411,893) to deliver unique cloud-based management, features and functionality.