

## SpeedLane® Pro

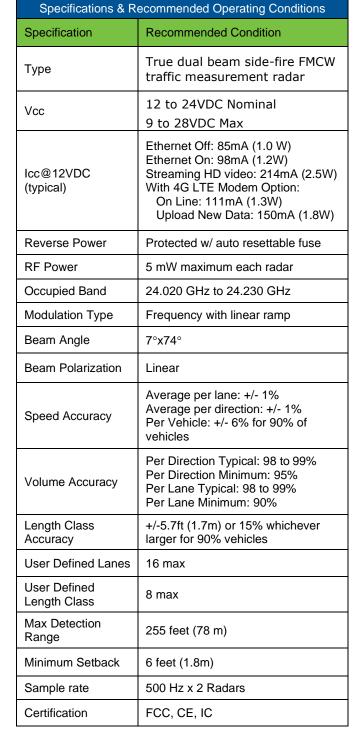


Houston Radar SpeedLane® Pro

The Houston Radar SpeedLane® Pro is state of the art **true dual beam, low power side-fire radar**. It is designed to accurately detect lane, speed and class of individual vehicles and compute per lane volume, occupancy, gap, average speed, 85<sup>th</sup> percentile and headway parameters.

## **Features and Benefits**

- Patented (US10317525) true dual beam "speed trap" technology inherently provides accurate measurements without the need for in situ calibration.
- > 255 feet (78m) detection range allows flexible deployments.
- World's lowest power usage highly integrated multi-lane traffic measurement radar.
- ➤ FCC and CE approved for full 250MHz operation to suite variety of application requirements.
- Mounts on the side of the road for non-intrusive traffic data collection and works in all weather and lighting conditions.
- Simultaneously measures all vehicles in 16 user defined lanes.
- All traffic measurements are on a per vehicle, per-lane basis, available in real-time and stored in device memory.
- Lane-by-lane vehicle counts, vehicle counts by user defined speed bins, length-based class by user defined length bins, average and 85<sup>th</sup> percentile speeds, occupancy, headway, and gap measurements.
- 1 Million individual vehicle memory allows un-interrupted data storage even in the event of communication outages.
- Companion Windows application provides intuitive GUI to set all configuration parameters, display real time plots of targets and view snapshots & streaming HD video.
- Android smartphone and tablet app for setup and camera view ease field setup and maintenance.





## Features and Benefits Continued...

- Electronic gyroscope for tilt and level measurements ease setup.
- Built-in long range Class I 2.1+EDR Bluetooth, RS232 ports.
- > 512 Mbytes of on-board storage plus uSD card expansion slot.
- Built-in 1.3MP HD video camera for sighting makes setup a snap and allows convenient remote monitoring of traffic.
- Comprehensive Houston Radar protocol, C and C# SDK.
- Powerful SQL based query interface for historical data.
- Optional built-in RS485 serial and Ethernet ports.
- Optional cloud based Tetryon server to aggregate data from multiple devices provides quick and seamless dashboard view.
- Optional built-in UPS with rechargeable battery keeps unit running for upto 96hrs on loss of external power.
- Optional MPPT solar charger for optimal winter and cloudy day charging.
- Optional built-in 96Whr LiFePO4 battery for temporary or solar installations. Support up to 45W panel.
- Optional penta-band 3G or 4G LTE cellular modem for remote access.



Image from Built-In HD Camera

Specifications & Recommended Operating Conditions	
Ethernet	Optional: 100 BaseT Half/Full Duplex auto polarity detect
Power Over Ethernet	Yes, optional 802.3af. Mode A/ Type 1 (power over data pairs)
Rechargeable Battery	Optional built-in 96WHr LiFePO4
Solar Kit	MPPT charger, 30W or larger solar panel depending on location
Storage Capacity	Speed, lane and class for last 1,000,000 vehicles. Per lane counts in user defined speed bins, length-based class in 8 user defined bins, average speed, 85 <sup>th</sup> percentile speed, occupancy, gap, headway for 3 last months
Sighting Camera	1.3MP HD video (over Ethernet and modem only) or HD snapshots. 60° field of view 1280x960, 800x600, 640x480, 320x240 (800x600 10fps video)
Bluetooth	Ultra-low power 800+ feet Class I 2.1+ EDR 460KB baud rate for setup, download and camera
Smartphone/Tablet App	Android smartphone or tablet ver. 4.0.3 and higher. Bluetooth and TCP/IP access.
Remote Access	Optional built-in ultra-low power 4G LTE CAT1 North America or 4G LTE CATM1 Worldwide Modem
GPS	Optional Built-in
Operating °F (°C)	Without battery: -40F (-40C) to +185F (+85C) With LiFePO4 battery: -4F (-20C) to +130F (+55C)
Dimensions without mounting bracket	26" length x 3" diameter (670mm x 76mm Diameter)
Weight	Without battery: 4.6lb (2.1 Kg) With battery: 6.4lb (2.9 Kg)

