

DTS-300/DTS-300 Mini

Doppler Traffic Study Module

Traffic Studies made easy and affordable

We combined years of experience in doppler radars, traffic data analyses and embedded electronics to build most feature-rich and affordable device for traffic data collection.

DT-300/DTC-300 Mini is a Microprocessor controlled Doppler Radar system with highly optimized signal processing algorithms for quick and accurate speed measurements. DT-300/DTC-300 Mini includes graphics interfaces for setup and diagnostics, power management system with battery charger, USB(FTDI)/UART interface, wireless 2.4GHz radio for communication to satellite devices (e.g.: beacons, flashers and speed displays), X-Bee format 20-pin socket for optional communication modules (e.g.: Bluetooth, Wi-Fi, Cellular 4G LTE, Lo-Ra, etc.)



DTS-300

Features

- High-accuracy Doppler radar measures the speed of each vehicle and capable to track multiple vehicles moving in both directions at the same time.
- Virtually unlimited data storage on a removable Micro SD card allows continuous recording of 10+ years of detailed traffic statics. All information is recorded in MS Excel compatible files (CSV).
- No software required to set up the system or collect traffic data from the device.
- Onboard graphics OLED display and keyboard allows to set all important parameters of the system and verify proper positioning and functioning of the radar.
- Integrated Solar MPPT charger and advanced power management system ensures long autonomy. Recommended Solar panel size 10 Watt – 20 Watt or external power 14V-18V 2A power supply.
- Thanks to compact and the lightweight design the device can be installed on any type of existing sign pole, including U-channel and Telespar posts.

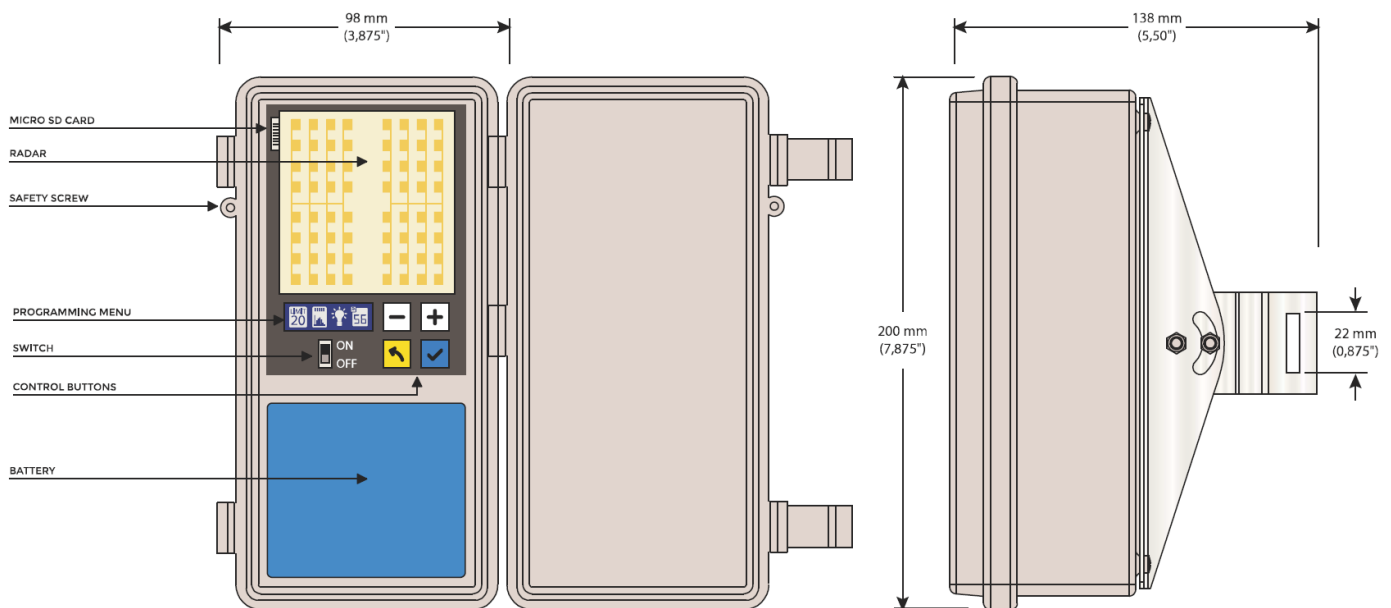
DTS-300 collects the following data:

- Individual time-stamped records for each vehicle.
- Average, Minimal and Maximal speed of each vehicle.
- Vehicle size estimation (Maxima RSSI level).
- Speed variation (acceleration or deceleration).
- Programmable Speed Bins summary.



DTS-300 Mini

DTS-300 Drawing and Specification



Feature	DTS-300	DTS-300 Mini
Physical		
Size of the controller unit	7.87 x 3.93 x 2.75 in; 200 x 100 x 70 mm	5.11 x 3.93 x 2.75 in; 130 x 100 x 70 mm
Unit weight	2.4 lb. / 1.1 kg	1.3 lb. / 0.6 kg
Enclosure rating	NEMA 4X, IEC529-IP65	
Radar Parameters		
Operating frequency	24.120 GHz - 24.130 GHz, Typical: 24.125 GHz	
Antenna beam angle	H24°, V12°	
Power requirements		
Max. power consumption	1.5 Watt	
Input voltage range	5 to 18 Volt	
Batteries	Li-Ion 7.5V, 12500mAh	Li-Ion 7.5V, 3000mAh
Complete darkness autonomy	7 Days	1 Day
Other Parameters		
Operating Temperature	-20C to +60C	
Typical radar detection range	390 ft.; 120 m (for the midsize sedan)	
Max. speed measurement error	+/- 0.5 mph; +/- 0.8 km/h	

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