

TC-500 Radar Speed Sign

Built for Safety, Built to Last



TC-500 with 12" LED display



Heavy duty aircraft aluminum housing



3/8" Bashplate protects LEDs



1/4" polycarbonate cover



Directional Beam Technology

Durable Design: Radarsign's built for purpose design is the most vandal resistant radar speed sign on the market today.

- Heavy-duty aircraft aluminum housing with an armored 3/8" thick Bashplate™ and 1/4" Makrolon® polycarbonate cover provide superior protection to the internal components of the radar speed sign from external force and weather.
- Beveled design of the 3/8" Bashplate™ protects LEDs and internal components from damage by dissipating force inflicted on the sign.

Exceptional Visibility: 12" LED display with directional beam technology delivers a superior quality display for drivers, even in bright sunlight. Radarsign's proprietary design serves as a cone, magnifying the intensity of the light, and pinpoints it directly to the view of approaching drivers. Easily readable up to 500 feet.

Speed Alert: The driver speed will flash within the programmed speed range.

- Display on-off feature allows traffic data collection to continue even when the display is off (stealth mode).

Faceplate: 24" W x 26" H YOUR SPEED faceplate with 4" high lettering; Available in white, fluorescent yellow/green, or safety orange.

Design Standards: NEMA 4R level compliant; meets or exceeds MUTCD design guidelines; Makrolon® polycarbonate cover provides maximum UV protection and is abrasion, shatter, and graffiti resistant.

Batteries: Batteries are designed to slide into housing slots without any danger of movement; Maintenance is limited to battery changes every three to six years.

Radar: Detects vehicles up to 1200 feet away.

Bluetooth® Wireless: Allows secure wireless operation of radar speed sign and data collection directly to a Windows laptop from the comfort of a nearby vehicle.

Power Options: Available in AC powered and solar powered models.

Ideal for: 5-40 mph speed limit roads or lower

Warranty: Two year warranty on parts and labor, including batteries; Does not cover malicious abuse, theft, or damage due to unauthorized modification.



Optional Features:

Streetsmart Traffic Data Reporting: Records traffic data that can be used to confirm date, time, and severity of speeding problem.

Android App: Allows you to set up your radar speed sign using an Android smartphone or tablet.

EZ Comm: Allows a secure, cellular-based, remote management of your radar speed signs.

External Device Relay Switch: Triggers external devices from the radar speed sign based on time and/or speed, or temperature.

Poles: Aluminum or black decorative poles with FHWA safety compliant breakaway bases

TC-500 Radar Speed Sign Specifications

Power Options/Battery Specifications

TC-500S (Solar Powered)

- Solar Panel Output: 40 watt ; Optional upgrade: 65 watt
- Power Supply: Two 12-volt, 18 amp/hour AGM batteries (UL recognized); provides up to 14 days of operation.
- Solar Charge Controller: Manages the flow of solar energy input (up to 85w) from solar panel to battery
- Pole Mount: Side pole mount with 45° angle bracket for effective solar charging
- Software Control: SmartCharge® software prevents overcharging and intelligent shutdown when battery falls below acceptable voltage; auto restart when sufficiently recharged
- Battery Status: Via Bluetooth®, can check battery charge levels and solar amperage
- Power Consumption: < 2.5 amps (24w) in active mode; Idle mode < 1/2 watt; Circuit Breaker: Multi-circuit, 5 amp fuses

TC-500A (AC Powered)

- Power Supply: Hard wire to 100V-240V power supply
- Power Consumption: < 2.5 amps (24w) in active mode; Idle mode < 1/2 watt; Circuit Breaker: Multi-circuit, 5 amp fuses

Housing Specifications

Radar Speed Sign Housing

- Dimensions: 15.8"H x 22.2"W x 5.25"D
- Thickness: .1875" to .25" thick aluminum with white powder coat finish
- NEMA 4R level compliant
- Humidity Maximum: 100%
- Non-sealed and ventilated
- Provides maximum protection from the elements and vandalism

Bashplate™ with LED Cones

- Internal .375" aluminum shield to protect sign components from abuse or vandalism.
- Beveled design protects LEDs and internal components by dissipating any force inflicted on the sign.
- Conical holes for each LED focus and reflect light toward the road, providing the highest quality viewable display with minimum energy usage .

LEDs

- 2 digits, 12" high super bright amber LEDs (life up to 100,000 hours) with directional beam technology
- Easily readable up to 500 feet
- Automatic intensity adjustment to ambient light conditions for maximum visibility
- Provides directed viewing or display to oncoming traffic

Makrolon® Polycarbonate Display Cover

- .25" thick protective cover
- Abrasion, graffiti and shatter resistant , UV protection

Weight and Operating Temperatures

- TC-500S (Solar Powered): 34 lbs, (59 lbs w/batteries)
- TC-500A (AC Powered): 34 lbs.
- Operating Temperature: -40° F to +138° F

Warranty

- 2 year warranty on parts and labor, including batteries. Exceptions: Does not cover malicious abuse, theft, or damage due to unauthorized modification. Optional third year warranty extension available.

Display and Radar Specifications

YOUR SPEED Faceplate

- 24"W x 26"H YOUR SPEED faceplate with 4" high lettering
- MUTCD compliant colors and reflectivity
- Ideal for 5-40 mph speed limit roads or lower
- Available in white, fluorescent yellow/green, or safety orange

Speed Alert

- 2 speeds of flashing LEDs to notify drivers that are exceeding the speed limit

Radar

- Type: K Band, single direction Doppler radar, FCC part 15 compliant; no license required
- Sensor Range: Detects vehicles up to 1200 feet
- Beam Width: 12 degrees, +/- 2 degrees
- Operating Frequency: 24.125 GHz, +/- 50 MHz
- Accuracy: +/- 1.0 mph
- Speed Detection Range: 5 - 127 mph

Standard Programming / Bluetooth® / Android App

- On/Off Timer Options: 4 timers per day, also by day of week. Settings allow lower speed limits for school zone times and for late night display shutoff.
- Display On/Off: Allows traffic data collection to continue even when display is off.
- Display Brightness Control: Auto adjusts to light conditions, up to 100 levels.
- Setup Functions: Easy to follow menu – software managed, no mechanical switches to operate
- Maximum Speed Cutoff: Prevents unwanted high speed displays; up to 99 mph; discourages "racing" of sign. Choice of flashing matrix, or LED display cutoff.
- Date/Time Control: Battery backed real-time clock auto-adjusts for daylight savings time.

Bluetooth® Wireless

- Allows secure wireless operation of radar speed sign and data collection directly to a Windows laptop from the comfort of a near-by vehicle.
- Computer Requirements: Windows 7 or 8 with USB slot or built-in Bluetooth. (Emulation/virtual Windows mode not supported)
- Windows based Radarsign Software included with speed sign purchase
- Optional Android app for use with many Android tablets and smartphones

Radarsign Android App (optional)

- Allows you set up your radar speed signs using an Android smartphone or tablet.

Traffic Data Reporting

StreetSmart (optional)

- StreetSmart traffic data reporting software to report, organize, and analyze speed and traffic data.
- The information collected by the radar sign is loaded into Excel™ ready .csv files, and can generate 30 charts and graphs.

Mini SD Memory Card

- System Storage Capacity: stores data on up to 5 million vehicles; Retains data for retrieval for 12 months.