

## PRODUCT GUIDE

# Silent Advisor

## Radar Speed Trailer RST-1500

The “Silent Advisor” Radar Speed Trailer **RST-1500**, powered by a combination of solar panels and batteries, is designed to help calm traffic and enhance safety in work zones, construction areas, and other traffic-sensitive locations.

Easy to transport, simple to set up and program, the RST-1500 stands **14 feet tall when in operation**. It features **MUTCD compliant “Work Zone” and “Speed Limit” signage**. A full set of 16” numerals is included with the “Speed Limit” sign.

The display panel:

- will flash when vehicle exceeds speed limit
- is user-configurable for excessive speed behavior

Built-in data collection capabilities make it easy to record and analyze traffic statistics.

### OPTIONAL REMOTE COMMUNICATIONS

Remote communications option includes a GPS receiver, a cellular transceiver and **FREE lifetime cellular service\***.

Use with SolarTech’s Command Center software for remote data retrieval – view the speed data from your laptop, PC, or Smartphone.

### SILENT ADVISOR FEATURES:

- ▶ Truly Solar Powered - Engineered for continuous operation
- ▶ Brightest, Most Visible Display - Legible messages under all conditions
- ▶ Sign Panel Failsafe System - Automatically detects and corrects errors and faults
- ▶ CE Tested - Ensures complete electromagnetic compliance for superb reliability
- ▶ Custom Sign Case and Door Frame Extrusions - Sturdy, secure and weathertight
- ▶ Modular Construction - Easy maintenance and repair



### EASY-TO-USE CONTROLLER OPTIONS

#### MICROTECH CONTROLLER

- ▶ Touchpad Interface
- ▶ Easy to manage menu
- ▶ Password Protection: 4 digit pin passcode to access all functions



#### MEGATECH CONTROLLER

- ▶ Touch-screen controller
- ▶ Simple one page user interface
- ▶ Password Protection: Ability to assign up to 50 passwords with levels of access



### ADDITIONAL FEATURES

- ▶ Three thresholds of speeding: Over-speed, Excessive Speed, Extreme Speed
- ▶ Fully networkable
- ▶ NTCIP version 3 compatible
- ▶ NO manual required- they are that easy to use!

Learn more at [www.solartechology.com](http://www.solartechology.com)

# Silent Advisor

## Radar Speed Trailer RST-1500

### Work Zone Sign

Sign Height.....48" w x 24" h (122 cm x 61 cm)  
Character Height .....6" (15 cm)  
Panel Construction .....All aluminum, high-intensity coated

### Speed Limit Sign

Sign Height.....48" w x 60" h (122 cm x 152 cm)  
Character Height ..... 8" (20 cm) text; 16" (41 cm) numerals  
Panel Construction .....All aluminum, high-intensity coated  
Numerals .....First digit 1 through 8; Second digit 0 or 5  
Lifting Mechanism .....1,000 lb. capacity winch and cable

### Radar Speed Display

Panel Size.....36" x 29" (92 cm x 74 cm)  
Display Area Size.....30' x 23" (76.2 cm x 58.5 cm)  
Panel Construction .....All aluminum, modular construction  
Matrix Size.....9 x 12 pixels  
Pixel Size .....2.60" x 2.60" (66 mm x 66 mm)  
Number of Digits .....Up to three (3) - (1st digit as "1") with standard font  
Number of Fonts.....Two (2)  
Character Height .....18" (46 cm) standard font; 23.3" (59 cm) bold font  
Display Technology.....LED (amber, 592 nm)  
Display Life Expectancy .....10 years typical  
Viewing Angle .....>60°

### Radar Detector

Operating Frequency.....24.150 GHz (K-Band)  
Antenna Beam width .....9° vertical x 18° height  
Target Speed Range .....1 to 205 MPH (2 to 331 KPH)  
Speed Accuracy.....\*/- 0.5% reading  
Detection Distance.....1,500 feet  
Units.....MPH or KPH (user-selectable)

### Trailer

Length Overall (operating) .....122" (310 cm)  
Length Overall (towing).....150" (381 cm)  
Width Overall.....75" (191 cm)  
Width Across Fenders .....75" (191 cm)  
Height (operating) .....168" (427 cm)  
Height (towing).....96" (244 cm)  
Ground Clearance .....13" (33 cm) min.  
Weight .....1,600 lbs (725 kg) approximately  
Coupler.....2" (50 mm) ball or 3" (76.2 mm) pintle ring  
Axle/Suspension .....Torq flex, independent  
Display Height .....42" (107 cm) to the bottom of the LED display

### Energy Source

Operating Voltage.....12 volts DC (nominal)  
Battery Type.....6 Volt heavy duty, deep cycle (GC-2)  
Number of Batteries .....Two (2) lead acid (flooded)  
Battery Bank Capacity.....260 amp hours  
Battery Status Indicator.....Displays battery voltage, charging activity and low battery condition  
Solar Array Construction.....Top mounted in aluminum frame  
Solar Array Power Output.....Standard 110 watt (nominal)  
Solar Charge Controller.....Automatic, temperature compensated, MPPT (Maximum Power Point Tracking)

**RST-1500**  
Stowed for transport  
Custom colors available



### Micro-Tech Control Console

Console Circuitry .....Ultra-low power solid state  
Console Touchscreen.....Weather-resistant, backlit, full-color GUI, intuitive icon-driven, multi-lingual  
Programming Software .....Proprietary with automatic remotely managed upgrades (field upgradable for units not connected to Command Center)  
Message Capacity .....Pre-programmed and user-defined (> 250 each)  
Message Display Time .....User-selectable (0.1 to 99 seconds)  
Display Update Time.....Instantaneous  
Non-Volatile Memory .....16 GB Micro SD card  
Password Protection.....User-selectable, multi-level  
Operator Interface .....Easy-to-use icons (no manual required)  
Connectivity .....Supports NTCIP version 3 via UDP/IP over Ethernet, and PMPP over RS-232; Units with Remote Communications  
Option: UDP/IP over the built in modem

## OPTIONS AND UPGRADES

### Remote Communications

Option includes GPS receiver, cellular transceiver, and FREE cellular service\*. Remotely access and track your Radar Speed Trailer.

*\*With this option, cellular service is provided free of charge, and is limited to carrier supported generational wireless technology.*

### Solar Array Upgrade

160 watt

### Battery Charger Options

- » 45 amp, 120 volt AC
- » 55 amp, 120 volt AC

### Battery Upgrades

- » Two (2) maint. free (Gel Cell or AGM), 260 amp hour capacity
- » Four (4) lead acid (flooded) or maint. free (Gel Cell or AGM) 520 amp hour capacity
- » Six (6) lead acid (flooded) or maint. free (Gel Cell or AGM), 780 amp hour capacity
- » Eight (8) lead acid (flooded) or maint. free (Gel Cell or AGM), 1040 amp hour capacity

### Security Option

- » Anti-theft steel battery frame bolted to trailer
- » Vandal-proof battery box with reinforced steel cage

### Controller Option

- » Upgrade to MegaTech Touch-screen Controller

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