



ONSITE™ | 350

06/07/06

TECHNICAL SPECIFICATIONS

TRAILER

Frame:	Constructed of 4" channel formed from 1/8" hot rolled steel. "Open" channel frame design eliminates places for water to be trapped in areas not treated by paint. The "C" channel open design reduces the chances for corrosion and rusting.
Finish:	White paint that is chemical solvent and graffiti resistant; white powder coat. All metal is pre-treated with phosphate spray before primer.
Storage Box:	One 24" x 48"x 17.5" tall, removable, 10 gauge hot rolled steel, weather tight box bolted to frame. Rubber automotive weather strip is used to seal lid of storage box. The box has two paddle type latches that are lockable. A 150 lb. strut supports each lid. The storage box contains 2 batteries enclosed in battery box, battery re-charger, voltmeter showing battery condition, and a work light.
Removable Tongue:	Equipped with a 2" ball coupler, safety chains, and a removable wiring cable. The tongue is 42" long and easily attaches to the frame with two 5/8"-diameter receiver tube pins. The wiring cable plugs into the trailer's wiring harness to connect it to the vehicle. The tongue, when removed will easily fit into the storage compartment.
Leveling Jacks:	Four zinc plated 10" adjustable swivel "bull dog" style jacks mounted to each corner of the trailer for leveling and adjusting the height of the unit. Adhesive pads are placed on trailer where legs fold to prevent paint and surface damage from direct metal-to-metal contact.
Wheel Lock:	6 ft. steel cable with padlock
Suspension:	1500 lbs Torsion Springs
Tongue Weight:	120 lbs
Axle:	One 3500 lb. axle
Tires:	14" 185/75R14 Radial
Wheels:	14" x 6" one piece steel white paint
Fenders:	Enclosed fenders with front and back steps. Constructed of 14-gauge diamond plate steel to protect the storage box and display unit while in transit. Steps aid in the loading and unloading of storage boxes.
Hardware:	All exposed hardware and hinges are stainless steel with zinc plated connecting pins.
Lights:	Meets all D.O.T. requirements including turn signals, rear brake lights, and taillights. Taillights are fully encased into the heavy frame of the trailer providing extra rigidity and protection. The trailer also has one license plate holder and light with four amber reflectors. Wiring is provided via a 4-prong flat plug connector.

Physical:

Length: 104" including tongue

Height with display sign lowered: 52"

Height with display sign raised: 81" to top of display box

106" to top of speed limit sign

Width: 6 ft.

Weight: 750 lbs GVW

Speed Limit Sign

Attached to a rotating frame that holds display. Speed Limit Sign is 24" x 18" with 7" changeable numbers, (0, 1, 2, 3, 4, 5, 6, 7, 8, 9). Material is .080 Aluminum Engineering Grade Sheeting. "YOUR SPEED" is attached to bottom of display box. (6" x 24").

DISPLAY

Type and Size:

Two-digit, 18", amber, wide angle LED display with auto dimming. (3 digits available).

Violator Alert:

0-99 pushwheel setting. Speed flashes when exceeded.

Over Speed Cutoff:

0-99 pushwheel setting. Speed will not display above pre-set limit.

Display Opening:

Covered with 3/8" high impact tinted shatterproof Lexan®.

Internal Test Mode:

Cycles through 1-99 to insure system is operating properly.

Light Test:

Displays "88" to insure all LEDs are operating properly.

Power Supply:

The battery bank has a capacity of 225 amp-hours at 12VDC. Two 6VDC deep cycle batteries wired parallel/series to obtain 12V. On-board 12VDC 25/30 amp battery charger is ready to plug into 110VAC commercial power source to re-charge the batteries.

Re-Charging System:

Professional Battery Charger with LED status lights. Charges each battery independently with independent shut off when fully charged. A 110V covered receptacle is located on the curb side of the storage box for connecting an extension cord for re-charging.

Physical:

Display unit is contained in 28" x 28" x 17.6" steel box, mounted on a rotating frame that folds down for travel. Rotating frame provides mounting of the display box, message sign, speed limit sign, and emergency warning lights.

Optional Solar Charging System:

50 watt or 15 watt solar re-charging system is available to extend the operational time of the batteries.

Control Panel:

The display's control panel is located on the curb side of the display box; sealed by automotive weather-stripping, and a small locking door. The control panel includes switches for Violator Speed Select, Over Speed Cut Off Select, Internal Test Mode, and Light Test Mode. Door hinge is stainless steel.

RADAR UNIT

Type:

One-piece programmable stationary directional true Doppler radar. Programmed to monitor display only speed of vehicle coming towards the Speed Display Trailer.

Measurement:	Available in miles per hour or kilometers per hour.
Frequency:	K-Band, 24.150 GHz +/- 100MHz.
Accuracy:	+/-1 mph
Beam Width:	12 ° +/-1 °
Microwave Source:	Gunn-effect diode.
Electronics:	Solid State Digital Signal Processing (DSP)
Target Speed Range:	10 mph-99mph. (optional three digit, 10-99)
Mounting:	Fully enclosed within display unit, but removable from back panel.

OPTIONS

The following options may be added to the ONSITE 350 Radar Trailer.

- Anti-Theft Motion Alarm with remote control
- EZ Stat Pak (radar based data logger)
- Metro Count Statistical Package (utilizes rubber hoses across the roadway)
- LED Flashing Emergency Lights to flash with Violation
- LED Traffic Manager (arrow stick)
- 24-hour timer (turns power to unit on/off at pre-set times)
- Spare Tire and Wheel
- White Strobe Light (flashes with violation to simulate photo radar flash)
- Battery Upgrade to Four Batteries and Two Re-chargers
- Bolt on Front Swing Away Wheel
- Locking Lug Nut
- Protective Cover