



ONSITE 450™



- **4-line messaging**
- **199 pre-programmed messages**
- **50 user-set messages**
- **From 4" 4 lines of digits to 16" 1-line digits**
- **SI-3 radar technology mounted inside display**
- **See-through design**
- **Flashing violation alert**
- **5-plus days battery life**
- **Battery charger and LED monitor**
- **Motorized display lift**
- **Hand-worked U.S. crafted heavy-duty frame**
- **Laptop programmable**

More than 500 departments have trusted Decatur Electronics speed trailers since we introduced them just two years ago. Our trailers fit any budget and needs that you face in traffic monitoring and enforcement programs.

Save Kids

Slow Drivers

Protect Pedestrians

Quiet Neighborhoods

Save Road Crews

SAVE LIVES

www.decaturradar.com

Serving law enforcement for over 50 years
radar trailers video

ONSITE 450 TECHNICAL SPECIFICATIONS

TRAILER

Construction

Constructed of 4" channel formed from 1/8" hot rolled steel. Open channel frame design eliminates places for water to be trapped in unpainted areas.

Finish

White powder coat. Metal pre-treated with phosphate spray before primer.

Storage Boxes

Two 48" W x 17.5" H x 24" D removable, 10 gauge hot rolled steel, weather-tight boxes bolted to frame. Rubber weather strip seals lid. Two lockable paddle type latches.

Control Panel

Located on curb side of storage box. Weather strip seal. Contains 110 V re-charging connection, fuses, power switch and a up and down switch for raising and lowering display cabinet and speed sign.

Motorized Lift

12 V motorized actuator protected from weather and debris.

Removable Tongue

2" ball coupler, safety chains and removable wiring cable. Tongue is 42" long and attaches to frame with two 5/8" diameter receiver tube pins. Wiring cable plugs into trailer's wiring harness.

Leveling Jacks

Four zinc plated 10" adjustable swivel "bull dog" style jacks mounted to each corner.

Wheel Lock

6 ft. vinyl coated steel cable with padlock

Trailer Weight:

1,220 lbs.

Suspension

1,500 lb. torsion springs

Tongue Weight

140 lbs.

Axle

One 3,500 lb. axle

Tires

14" 185/75R14 radial

Wheels

14" x 6" one piece chrome

Fenders

Enclosed fenders of 14 gauge steel

Hardware

All exposed hardware, hinges and connecting pins are zinc plated.

Lights

Meets all D.O.T. requirements. Trailer has one license plate holder and light with four amber reflectors. Wiring is provided via a 4-prong flat plug connector (6 or 7 prong circular optional).

Physical

Length: 120" including the tongue
Height: 52" (with display sign lowered)
86" (with display sign raised)
117" to top of speed limit sign
Width: 6 ft.

Speed Limit Sign

.080 aluminum engineering grade sheeting attached to display box. Sign is 24" W x 30" H with changeable numbers (0,1,2,3,4,5,6,7,8).

OPTIONS

The following options may be added to the OnSite 450

- Anti-theft motion alarm with remote control
- 24 hour timer (turns power to on/off at preset times)
- Spare tire and wheel
- Bolt on swing away wheel
- Locking lug nuts
- Protective cover
- Combines with Decatur Electronics' EZ Stat™ to collect traffic data

DISPLAY

Type & Size

24" x 56" matrix display, amber, wide angle LED with 3 LEDs per pixel. Pixel pitch is 1.00". Actual display area equals 24" H x 56" W.

Violator Alert

Preset mph/km/h thresholds from 15 to 70 in 5 mph/km/h increments. Speed flashes when exceeded.

Speed Cutoff

Preset mph/km/h threshold. Speed will not display above/below pre-set limit.

Display Opening

Covered with 1/8" high impact shatterproof frosted polycarbonate.

Light Test

Preset "all" display for test purposes

Power Supply

The battery bank has a capacity of 450 amp-hours at 12 VDC, four 6 VDC deep cycle marine batteries wired in series/parallel to obtain 12 V. Two on-board 12 VDC 25/30 amp battery chargers are ready to plug into 110 VAC commercial power source to re-charge the batteries. All power wiring from the display sign to the storage box is fully enclosed in weatherproof conduit. Fully charged batteries should last 5 days depending on use.

Control Panel

Display control box inside trailer's front storage box. Display controlled via thumbwheel device in weatherproof box. 199 pre-set messages. Additional 50 messages may be input by user via provided software application.

Physical

Display contained in a 32" H x 60" W x 9" D cabinet. Constructed of 6063 T5 proprietary 1/8" thick extruded aluminum. Yoke manufactured of 6061 T6 aluminum. Assembly powder coated with DuPont powder coat.

RADAR UNIT (SI-3)

Type

Approach-only antenna tracks vehicles moving toward the OnSite 450. Displays strongest of faster moving vehicles.

Measurement

Available in mph or km/h.

Accuracy

+/- 1 mph/km/h

Beam Width

12° +/- 1°

Detection Range

1,500 ft

Target Speed Range

15 – 99 mph
24 – 159 km/h



Certified ISO 9001

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