

Technical Specifications

OnSite 350™
Radar Speed Message Trailer
Revision Date 4-6-09



Certified ISO 9001

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General Specifications	
Type	Bumper Pull
Display	18", seven (7) segment, high intensity LED boards
Power	12 V power supply (solar panel option available)
Speed Range	5 - 150 mph (8 - 241 km/h)
Radar Type	SI-3, K-band
Finish	White powder coat paint
Construction	4" open "C" channel
Weight	860 lbs (390.089 kg)
Environmental	SI-3, -22°F to +158°F (-30°C to +70°C)
Safety	Meets all US D.O.T. safety standards for highway use

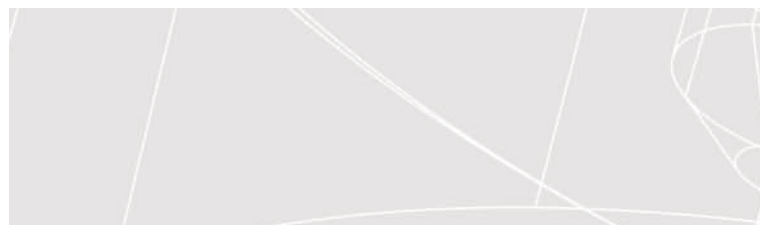
Mechanical	
Length	109" (276.86 cm) including the tongue
Minimum Height	53" (134.62 cm) with display lowered
Maximum Height	105" (266.7 cm) with display frame raised and no speed limit sign, 120" (304.8 cm) with speed limit sign in place
Width	72" (182.88 cm)
Lift	Two (2) 150 lb gas-lift struts used to lift the display

Display	
Cabinet Dimensions	28" (H) x 28" (W) x 8.25" (D) (71.12 cm x 71.12 cm x 20.995 cm) Cabinet
Display Matrix	Two (2) conformal coated, 18" (45.72 cm), seven segment, amber high intensity LEDs displays boards for mph. (2.5 digit for km/h)

Display - continued	
Matrix Dimensions	18" (H) x 22.5" (W) - (2 digits) (45.72 cm x 60.96 cm) - (2.5 digits)
LEDs	High Intensity amber, 100° view angle
Minimum Luminosity	3000 mlm
Display Control Panel	Contains the power on/off switch, Violator and High Speed Cutoff pushwheel switches, test push switch and EZ-STAT data logger port.

Detachable Speed Limit Sign	
Features	Meets all D.O.T. requirements
Dimensions	24" (H) x 18" (W) (60.96 cm x 45.72 cm)
Numbers	7" (H) x 5" (W) (17.78 cm x 12.7 cm) Interchangeable

Storage Box	
Dimensions	17.5" (H) x 48" (W) x 24" (D) (44.45 cm x 121.92 cm x 60.96 cm)
Capacity	11.6 cubic feet
Characteristics	Vented, removable with lockable paddlelatch
Lid Support	150 lb gas-lift strut
Seal	Rubber automotive weatherstrip
Storage Box	Contains the electrical system





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Electrical	
Power Source	Two (2) 6 VDC deep cycle marine batteries wired in series to form one (1) 12 VDC battery bank. (Note: Option to add a second battery bank available.)
Capacity	225 Amp-hours
Charging System	110 VAC automatic battery chargers with boost and float features
Solar Panels Option	Option to add a 55 watt solar panel (3.16 A @ 17.4 VDC)
PV Charge Controller	3-stage photovoltaic charge controller for voltage regulation & low voltage disconnect of battery banks
110VAC Connection	Located on the curb side of the front storage box

Frame - continued	
Front Floor	14 gauge 20.5" x 48" (52.07 cm x 121.92 cm) diamond patterned polished aluminum plate
Suspension	1500 lb (680.39 kg) torsion springs
Fenders	14-gauge hot rolled steel
Leveling Jacks	Four (4) 10" adjustable swivel jacks mounted to each corner
Lights	Meets all D.O.T. requirements for turn signals, brake, tail & license plate lights
Tongue	42" (106.68 cm) long with 2" ball coupler. Removable
Tongue Weight	120 lbs (54.431 kg)
Wheels - Rims	14" x 6" one-piece white
Wheels - Tires	14" - 185/75R14 radial
Wheel Lock	6 ft (1.83 m) steel cable with padlock

Microwave	
Type	SI-3
Accuracy	± 1 unit of measure (± 1 mph, ± 1 km/h)
Beam Width	12° nominal
Detection Distance	1500 ft (457.2 m) (Adjustable)
Direction	Approach only
FCC Identifier	HTRCR-1KD
Frequency	24.150 GHz nominal, (K-Band)
Polarization	Linear
Power Density	<= 1 mW/cm ²
Power Output	7 mW nominal
Speed Range	5 - 150 mph (8 - 241 km/h)

Frame	
Construction	Formed from 10-gauge hot rolled steel. Open "C" channel design
Dimensions	53" (H) x 72" (W) x 109" (D) 134.62 cm x 182.88 cm x 276.86 cm) during transport
Finish	Graffiti & chemical resistant white powder coat paint

