

# Technical Specifications

**OnSite 300™**  
**Radar Speed 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                                    |
| 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                 | 580 lbs (263.084 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 |

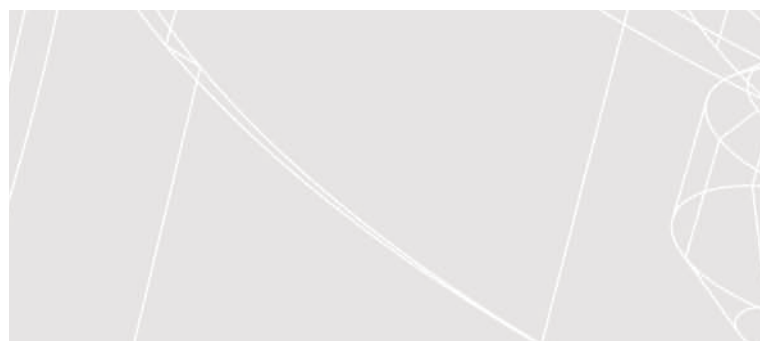
| Mechanical     |   |
|----------------|---|
| Length         | 105" (266.7 cm) including the tongue                    |
| Minimum Height | 37" (93.98 cm) with display lowered                     |
| Maximum Height | 82" (208.28 cm) with display frame raised               |
| Width          | 56" (142.24 cm)   |
| Lift           | Two (2) 150 lb gas-lift struts used to lift the display |

| Display            |  |
|--------------------|--|
| Cabinet Dimensions | 22" (H) x 28" (W) x 2.75" (D) (55.88 cm x 71.12 cm x 6.985 cm) Cabinet   |
| Display Matrix     | Two (2) conformal coated, 18" (45.72 cm), seven segment, amber high intensity LED display boards for mph (2.5 display boards for km/h) |
| Matrix Dimensions  | 18" (H) x 22.5" (W) - (2 digits) (45.72 cm x 60.96 cm) - (2.5 digits)  |

| Display - continued |                                       |
|---------------------|---------------------------------------|
| LEDs                | High Intensity amber, 100° view angle |
| Minimum Luminosity  | 3000 mlm                              |

| 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      | 14" (H) x 36" (W) x 30" (D) (35.56 cm x 91.44 cm x 76.2 cm)  |
| Capacity        | 8.75 cubic feet  |
| Characteristics | Vented, removable with lockable paddelatch   |
| Lid Support     | two (2) 150 lb gas-lift struts   |
| Seal            | Rubber automotive weatherstrip   |
| Storage Box     | Contains the electrical system, power on/off switch, Violator and High Speed Cutoff pushwheel switches, test push switch and EZ-STAT data logger port. |





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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.          |
| Capacity             | 225 Amp-hours   |
| Charging System      | 110 VAC automatic battery chargers with boost and float features  |
| 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 |  |
|-------------------|--|
| Tongue            | 42" (106.68 cm) long with 2" ball coupler. Removable |
| Tongue Weight     | 35 lbs (15.875 kg)                                   |
| Wheels - Rims     | 12" one-piece white                                  |
| Wheels - Tires    | 12" - 4.80-12, 2-ply                                 |
| Wheel Lock        | 6 ft (1.83 m) steel cable with padlock               |

| Important notes  |
|--|
| No Second Battery Bank, Solar Panel, or Emergency Light options are available for the OnSite 300. For trailers equipped with those options please consider the OnSite 350 or OnSite 400. |

| 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 <sup>2</sup>                 |
| 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     | 37" (H) x 56" (W) x 105" (D) 93.98 cm x 142.24 cm x 266.7 cm) during transport     |
| Finish         | Graffiti & chemical resistant white powder coat paint                              |
| Suspension     | 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 |

