

Technical Specifications

OnSite 50™
Pole Mounted Radar Display
Revision Date 4-24-09



Certified ISO 9001

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715 Bright Street
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General Specifications	
Type	Pole mounted Radar Display
Accuracy	100% accurate with a display resolution of ± 1 unit of measure (± 1 mph, ± 1 km/h)
Ambient Operating Temperature	-22°F to +158°F (-30°C to +70°C)
Available Frequencies	K-Band
Communications	RS232, DB-9 serial connector
Controls	On/off switch, violator & cutoff pushwheel switches, test push button switch located inside the control box
Detection Range	3000 ft. maximum (0.914 km) (Default is 1500 ft. (0.46 km))
Features	DSP, 32 bit processing. Four (4) Megabit memory.
Finish Control Box	Gray
Finish Display Box	White Powder Coat finish
Frame Control Box	Fiberglass reinforced polyester
Frame Display Box	14 gauge hot rolled steel sheet
Maximum Humidity	100% relative humidity @ +98.6°F (+37°C)
Ports	Data Logger, RS232
Power	110 VAC
Radar Type	SI-3, K-band
Speed Range (Displayed)	5 - 98 mph (8 -157 km/h)
Speed Range (Recorded)	5 - 150 mph (8 - 241 km/h) for speed statistics when using the optional EZ-Stat Data Logger
Standard Warranty	One-year parts and labor
Target Acquisition Time	0.021 ms

Mechanical - Display	
Cabinet Dimensions	22" (H) x 28" (W) x 2.75" (D) (55.88 cm x 71.12 cm x 6.985 cm)
Display Format	Two (2) conformal coated, 18" (45.72 cm), seven segment, amber high intensity LED display boards
Display Dimensions	18" (H) x 22.5" (W) (45.72 cm x 57.15 cm)
LEDs	High Intensity amber, 100° view angle
Minimum Luminosity	3000 mlm (mililumen), readable from 1000 ft. (304.8 m)

Mechanical - Control box	
Enclosure Dimensions without hardware	11.21" (H) x 9.21" (W) x 6.09" (D) (28.47 cm x 23.39 cm x 15.47 cm)
Enclosure Dimensions with hardware	12" (H) x 12" (W) X 6.25" (D) (30.48 cm x 30.48 cm x 15.875 cm)
Latch	Lockable via padlock
Hardware	Stainless steel hinge pins and latch. Weather resistant conduit body
Mounting Plate	11.5" (H) x 9" (W) x 1.75" (D) (29.21 cm x 22.86 cm x 4.445 cm) 1/4" aluminum
Weight	10.9 lbs (4.944 kg)

Electrical	
Current Draw	1 ampere
Fusing	5A, 32V Mini automotive fuse
Power Requirements	110 VAC nominal
Power Connection	Standard 3 prong 110 VAC power cable located on the left side of the control box



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Microwave	
Type	SI-3 (K-band)
FCC Identifier	HTRCR-1KD
Frequency	24.150 GHz nominal
Beam Width	12° nominal
Polarization	Linear
Power Density	$\leq 1 \text{ mW/cm}^2$
Power Output	7 mW nominal

Mounting	
Pole Mounting	Pole diameters from 2" to 10" (5.08 cm x 25.4 cm)
Hardware	Mounting kit included

Signs	
School/Your Speed	Reversible sign with "School" on one side and "Your Speed" on the other.
Dimensions	7.5" (H) x 24" (W) (19.05 cm x 60.96 cm)

