



# ***SI-3 System Interface***

***Special Application Radar***



- K-Band Antenna
- Directional
- RS232 Serial Port
- Stationary Mounted Radar System
- 5 - 150 mph (8 - 241 km/h) Speed Range
- Range: 350 ft (minimum setting) 2,800 ft (default setting)  
3,000 ft (maximum setting)
- Highly Customizable To Meet Customer Needs

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Serving law enforcement for over 50 years  
radar trailers video

## SI-3 ANTENNA TECHNICAL SPECIFICATIONS

### General

Antenna Frequency	K-band 24.150 GHz +/- 50 MHz
Nominal Power Out	10 mW nominal
Output Power Density	0.5 mW/cm <sup>2</sup>
Beam Width	12 degrees
Range	10 settings: 350 ft (minimum setting) 2,800 ft (default setting) 3,000 ft (maximum setting)
Supply voltage	10.8 VDC – 24 VDC
Nominal current draw	+12 V (180 mA)+24 V (120 mA)
Surge current requirements	1 Amp
Operating temperature	-22°F to +158°F (-30°C to +70°C)
Maximum Humidity	100% (unit is weatherproof, not waterproof)
Polarization	Linear
Input voltage	10.8 – 24 VDC
Target acquisition time	50 ms

### Processor

Serial communications	RS232
Data rate	Baud rates 1200, 2400, 9600, 19200, 38400, 57600, 115200
Data format	<D> [SSS] <cr> (Default) Various other protocols can be selected

### Mechanical

Weight	1.14 lbs. (0.52 kg)
Length	5.6" (14.05 cm)
Width	3" (7.6 cm) diameter horn 3.37" (8.55 cm) diameter with mounting base

### Accuracy

Speed Range	5 - 150 mph (8 - 240 km/h)
Accuracy	±0.1 mph (±0.1 km/h)

### DB-9 Connector Pinout

Signal	DB-9 Connector
+12 VDC power	1 (red)
RS232 TX	2 (white)
RS232 RX	3 (green)
Ground (shield)	5 (brown)
Ground	9 (black)

### Output Rate (Programmable)

Selectable output rate when target speed changes	1-10 times per second
When polled Data hold time:	100 - 9999 ms

### Sample Applications

#### Traffic Safety

- Speed Signs & Trailers
- Variable Message Displays

#### Manufacturers

- Control Systems
- Data Collection
- Motion Detection

#### Sports

- Scoreboards
- Video Overlays
- SI-Arcade Series Available



Certified ISO 9001

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