

Technical Specifications

G3™
Police Traffic Radar



www.DecaturElectronics.com
Phone: 800.428.4315

General Specifications	
Type	Dash-mounted, single or dual directional antenna, moving/stationary Doppler radar.
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 Frequency Communications	Ka-Band 35.5 GHz nominal RS232, DB-9 serial connector, COPS serial output option.
Controls	All functions controlled through wireless hand remote.
Display	Hi Intensity amber LEDs with 3 windows for displaying target speeds, locked speeds and patrol speeds. Special illuminated icons for indicating operating modes and antenna selection.
Features	32 bit floating point DSP (digital signal processor). Digital antenna communication. Internal and user initiated self-tests.
Finish	Black, scratch resistant powder coat paint
Frame	Durable extruded aluminum housing
Maximum Humidity	90% relative humidity @ +98.6° F (+37° C)
Power	12 VDC nominal
Speed Range - Stationary	12 mph - 210 mph (19 km/h - 337 km/h)
Speed Range - Moving	10 mph - 210 mph (16 km/h - 337 km/h) Depending upon mode. Refer to Speed Range details
Standard Warranty	Three-year parts & labor
Weight	0.86 lbs (0.39 kg) Display & Computer

Display - Mechanical	
Display	Detachable display with integrated speaker.
Dimensions	1.45" (H) x 5.25" (W) x 0.7" (D) (3.68 cm x 13.33 cm x 1.8 cm)
Weight	3.8 oz (0.1kg)

Computer - Mechanical	
Dimensions	1.45" (H) x 5.25" (W) x 2.5" (D) (3.68 cm x 13.33 cm x 6.35 cm)
Weight	9.9 oz (0.45kg)

Computer - Electrical	
Power Requirements	+10.8VDC to +16.5 VDC (+13.6 nominal)
Low Voltage Shutdown	+10.8VDC with visual indicator
Minimum Current Draw	0.17 Amperes (Antenna off)
Maximum Current Draw	0.6 Amperes (All segments lit)
Fusing	Internal, resettable and external 2A (in lighter plug)
Power cable	Shielded 3 conductor cable with mini-circular connector.

Computer - Speed Ranges	
Stationary Mode	12 mph - 210 mph (19 km/h - 337 km/h)
Stationary Mode Low Speed Option	2 mph - 210 mph (4 km/h - 337 km/h)
Moving Mode Opposite Direction - Patrol	5 - 100 mph (with no targets) (8 km/h - 161 km/h)
Moving Mode Opposite Direction - Target	10 mph - closure 210 mph (16 km/h - closure 337 km/h)
Moving Mode Same Direction - Patrol	20 mph - 100 mph (32 km/h - 160 km/h)
Moving Mode Same Direction - Target (Slower or Faster)	From the user's selected minimum speed separation up to 75% of the patrol speed



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HandRemote - Mechanical	
Features	10 button back-lit keypad, injection molded housing. Dual IR emitter.
Dimensions	4.56" (H) x 1.56" (W) x 1.12" (D) 11.58 cm x 3.96 cm x 2.84 cm)
Weight	2.65 oz (0.075 kg)

Tuning Forks	
MPH Ka-band	35.2 & 50.6 mph K-band tuning forks with case (S900-22)
KM/H Ka-band	60.2 & 90.6 km/h tuning forks with case (S900-27)

Ka-Band Directional Antenna with integrated A/D converter	
IACP Type	VI
FCC Identifier	HTRKA3
Frequency	35.5 GHz nominal
BeamWidth	12° nominal
Polarization	Circular
PowerDensity	< 2 mW/cm ²
PowerOutput	15 mW nominal
Antenna Digital Output Data	Digitized Doppler Serial Stream
Antenna Cable	Double Shielded CAT 7 High-speed Ethernet
Dimensions	2.85" (L) x 3.8" (W) (7.24 cm x 9.65 cm)
Weight	9.25 oz (0.25 kg)



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