
Specifications

STALKER Sport

PERFORMANCE SPECIFICATIONS

Speed Range	5 - 250 MPH, 8 - 400 KPH
Accuracy	+ / - 0.1 MPH
Target Acquisition Time	0.046 Seconds (Ball Modes) 0.08 Seconds (Vehicle Modes)
Sample Rate	25 Speed Updates per Second
Max. Clocking Distances (Estimated)	4000 Feet - Passenger Car 1500 Feet - Snowmobiles 1000 Feet - Watercraft 200 Feet - Baseballs

MICROWAVE SPECIFICATIONS

Operating Frequency	24.150 GHz (K Band)
Polarization	Circular Polarization
3 db Beamwidth	11 Degrees Nominal
Microwave Source	Gunn-Effect Diode
Receive Type	Schottky Barrier Mixer Diode
Power Output	5 Milliwatts Nominal (15 Milliwatts for HP Version)

The STALKER SPORT Complies with Part 15 and Part 90.101 of the FCC rules. FCC ID #18QACM1003.

GENERAL SPECIFICATIONS

Product Type	Stationary Doppler Radar
Computer Processor	40 MHz Motorola 56002 DSP
Display Type	Backlighted Liquid Crystal
Operating Temperatures	-20F to +120F
Storage Temperatures	-40F to +140F

ELECTRICAL SPECIFICATIONS

Battery Handle	7.5 VDC, 1.5 Ah, Ni-Cad
Corded Handle Input	13.8 VDC (9.0 - 18.0 VDC)
Current Requirements (At 7.5 Volts DC)	Transmitting - 0.66 Amps Standby - 0.20 Amps Sleep Mode - 0.04 Amps

PHYSICAL SPECIFICATIONS

Weight (Battery Handle)	2.5 Pounds
Weight (Corded Handle)	2.2 Pounds
Dimensions	9.25" H x 3.5" W x 10.2" L
Housing Material	High Impact Polycarbonate

WARRANTY

On Radar Gun	2 Years, Parts and Labor
On Batteries	90 Days Replacement

SERIAL COMMUNICATIONS PROTOCOL

A **Display Handle** or **Corded Interface Handle** is required for data communications to speed display boards, computers, and other electronic devices. The data connector is on the bottom of these handles. The display handle requires that the radar gun be powered through the data connector. The corded interface handle includes a cigar lighter plug for powering the radar gun.

Connector on Handles	3 Pin Switchcraft TA3ML
Mating Connector	Switchcraft TA3FL
Pin Order	Pin 1 - Data Pin 2 - 12 VDC Power Pin 3 - Ground
Data Type	TTL Format +5V for Logic High 0V for Logic Low
BAUD Rate	1200 BAUD
Data Format	8 Data Bits No Parity 2 Stop Bits

Data is sent in packets of four ASCII characters followed by a carriage return. A new data word is sent every time the speed changes (up to 25 samples per second) and/or every 1/3 of a second if the speed remains the same.

Example for 59.8 MPH (Vehicle Mode with Tenth Units)

Data Byte 1, ASCII 0
Data Byte 2, ASCII 5
Data Byte 3, ASCII 9
Data Byte 4, ASCII 8
Data Byte 5, ASCII CR

Example for 105 MPH (Ball Mode with Whole Units)

Data Byte 1, ASCII 1
Data Byte 2, ASCII 0
Data Byte 3, ASCII 5
Data Byte 4, ASCII : (Colon)
Data Byte 5, ASCII CR

Peak Mode - If Peak Hold is ON, the speed information transmitted will be only the peak speeds. With Peak Hold OFF, the data will be based on the continuously updated speed information.