

STALKER® II SDR Stationary Radar

GENERAL SPECIFICATIONS

Type:	Handheld Stationary Doppler Radar
Operating Frequency:	34.7 Ghz (Ka-band)
Stability:	±100 Mhz
Battery Type:	Removable/rechargeable sealed battery handle containing a 7.2 Volt Li-Ion battery
Cell Capacity:	2000 mah
Power Requirements:	Removable Battery Handle: 7.2 VDC nominal Cigarette Plug Coil Cord Handle: 7.0 to 18.0 VDC. (currents are typical at 12VDC with Cigarette Plug Handle) XMIT with all displays off and back light off: 950 ma XMIT with moving target and back light: 1020 ma XMIT with no target and back light: 1010 ma Standby with no target and back light on: 370 ma Standby with no target and back light off: 330 ma Sleep mode: 180 ma
Environmental:	-30°C to +70°C, 90% Relative Humidity, Operating 0°C to 45°C, 90 Relative Humidity, Battery Charging -40°C to +85°C, non-operating
Display:	Back-lighted LCD with 3 speed windows (Target speed, Lock/Fast speed, and expansion window), 4-digit Alphanumeric status window, XMIT icon, and CHG icon
Mechanical:	Weight – 2.15 lb. with battery handle attached Height – 7.35 inches Length – 7.9 inches Width – 2.83 inches Radar Body Material – Aluminum and Magnesium die castings Handle Case Material – ABS polymer
Accuracy:	+1, -2 mph, +1, -2 kph
Auto Self-Test:	Performed every 10 minutes while transmitting
Speed Range:	5 mph to 200 mph Standard 15 mph to 200 mph (option menu selectable)

MICROWAVE SPECIFICATIONS

Antenna:	Conical horn
Polarization:	Circular
3db Beamwidth:	12° ±1°
RF Source:	Gunn-Effect diode
Receiver Type:	Two Direct Conversion Homodyne receivers using four low-noise Schottky barrier mixer diodes
Power Output:	10 mw minimum 25 mw nominal 50 mw maximum
Power Density:	2 mw/cm ² maximum at 5 cm from lens

DISPLAY WINDOW INDICATORS

BATT:	A flashing BATT message indicates a nearly exhausted battery
V LO:	A V LO message indicates the battery voltage is too low.

SPEED WINDOW MESSAGES

PR55:	PR55 in the speed windows indicates the unit has just passed self-test.
FRIL:	FRIL in the speed windows indicates the unit has just failed self-test. Speed readings are inhibited. Remove the unit from service and repair. FRIL will remain on the display until reset by being powered off.

MESSAGE WINDOW MESSAGES

RFI:	An RFI message indicates the presence of an interfering signal. Operation is inhibited during an RFI indication
MENU:	A MENU message displayed in the message window after the MENU key is pressed and indicates that the radar is in MENU mode
TEST:	A TEST message indicates that a test sequence is in process
AWAY:	AWAY showing in the message window indicates that the radar is set to track targets moving <u>away</u> from the radar
CLOS:	CLOS showing in the message window indicates that the radar is set to track targets <u>closing</u> on the radar
BOTH:	BOTH indicates that the target direction is set to simultaneously track both <u>closing</u> and <u>away</u> targets
STOP:	A STOP message indicates that the radar is in stopwatch mode. Stopwatch mode is selected from the OPERATOR MENU
LOCK:	A LOCK message indicates that a strong target has been locked. The LOCK message will alternate with the operating mode in the message window
FORK:	A FORK message indicates that the radar is in fork mode. The FORK message will alternate with the operating mode in the message window

SWITCH DEFINITION

TRIGGER:	Press the trigger to transmit and release the trigger for hold. A push (to transmit) push (to hold) operation is optional. The trigger can also be used in stopwatch mode to perform the start/stop function.
MENU:	MENU is used to enter the operator menu
STA/MOV:	STA/MOV is for expansion and is not used
▲/TEST:	▲ sets distance in stopwatch mode and increments settings in the operator menu. TEST performs a diagnostic check on the radar.
LIGHT/▼:	LIGHT switches the backlight on and off. ▼ sets distance in stopwatch mode and decrements settings in the operator menu.
LOCK/REL:	LOCK/REL is used to LOCK and RELEASE strong speed targets
BOTH DIRECTION:	This key is used to select target direction
POWER:	POWER toggles the main power ON and Off.