Optional Accessories

The versatile Stalker II has available mounts, holsters and antenna connections for nearly any application.

Mounts

The Stalker II can be dash mounted (with or without handle) in the police vehicle.

A variety of mounts are available for several makes and models of vehicles and motorcycles.

Holster

The holster fully protects the Stalker II when not in use, keeping it safely and securely tucked away on motorcycle patrol. Available with and without keyed lock.

Detachable Battery Handle

With its detachable high-capacity battery handle, the Stalker II is easily mounted to any law enforcement vehicle, and will go from hand-held to dash mount and back to hand-held in a snap.

The intelligent battery charger protects batteries and operates using either the 120 VAC wall adapter or an optional 12 VDC cigarette plug cable.

STALKER II

Stalker II - SDR | Stationary Directional Radar
Stalker II - MDR | Moving Directional Radar

Model/Features

	Stalker II SDR	Stalker II MDR
Moving mode	N/A	Standard
Automatic Same Lane mode (no slower key)	N/A	Standard
VSS operation	N/A	Standard
VSS Moving/Stationary modes auto switching	N/A	Standard
Removable rechargeable Battery Handle	Standard	Standard
Waterproof down to 2 ft of water depth	Standard	Standard
Rugged but lightweight Die-Cast metal body	Standard	Standard
Stopwatch mode	Standard	Standard
Directional sensing	Standard	Standard
Strongest and Faster display in all target modes	Standard	Standard
Faster Target Lock in all target modes	Standard	Standard
Software upgradeable	Standard	Standard
Video interface connector	Standard	Standard
Battery Handle Charger accessory	Standard	Standard
Cordless Remote Control	Optional	Standard
Dash Mount operation	Optional	Standard
Motorcycle operation	Optional	Optional
Motorcycle Holster	Optional	Optional
Wired Remote Control	Optional	Optional
Rear facing antenna	N/A	Optional

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Stalker II - SDR | Stationary Directional Radar
Stalker II - MDR | Moving Directional Radar

STALKER II

The performance and range of a vehicle-mounted radar in a versatile, hand-held lightweight package. The Stalker II includes direction-sensing and moving mode technology and is available in either moving / stationary or stationary-only versions.

- **High Performance Design Using Direction-Sensing Technology**
- **Faster Speed Tracking**
- **3 Window Display**
- **Detachable, Rechargeable, High Capacity Battery Handle**
- **Rugged, Waterproof Die-Cast Metal Construction**
- **Plug-n-Play Vehicle Speed Sensing for MDR Model**
- **Touch Panel Keys with Backlit LCD**
- ***Stalker - Used by more State Agencies than all other radar brands combined***

Ergonomic infrared remote

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STALKER®

Power to Enforce.

Stalker II MDR | Moving Directional Radar

The Stalker II MDR, moving directional radar, brings direction-sensing technology to a hand-held radar. The Stalker II can automatically distinguish between faster or slower same-lane targets in moving mode without a slower key and can simultaneously track targets closing or going away. The rear antenna option allows the connection to a rear-facing antenna to yield performance of a two-antenna dash-mounted unit. An ergonomic infrared remote control is standard.

Stalker II SDR | Stationary Directional Radar

The Stalker II SDR, stationary directional radar, has the range and performance of a vehicle-mounted radar in a versatile hand-held package with patented direction-sensing technology. The ergonomic infrared remote may be added to increase the Stalker II's versatility.

Backlit Rear Display

The 3-window backlit display presents an intuitive user interface with clear messaging and control buttons. It features LCD display windows for simultaneously displaying Strongest Target, Faster Target, with direction arrows that indicate the direction of travel for both the strongest and faster targets along with Patrol Speed (in moving mode).

By displaying both strongest and faster targets simultaneously, the Stalker II can monitor faster vehicles passing larger vehicles and display the speed of both targets.

TRIGGER – Pull the trigger to transmit and release for hold. A pull (to transmit) pull (to hold) operation is optional. The trigger is used in stopwatch mode to perform the start/stop function.

MENU – is used to enter the operator menu.

STA/MOV – selects stationary or moving mode in the **MDR**. Not used in the **SDR**.

▲/TEST – ▲ sets distance in stopwatch mode and increments settings in the operator menu. **TEST** performs a diagnostic check on the radar.

LOCK/REL – is used to **LOCK** and **RELEASE** strong speed targets.

BOTH/DIRECTION – This key is used to select target direction.

LIGHT/▼ – **LIGHT** switches the backlight on and off. **▼** sets distance in stopwatch mode and decrements settings in the operator menu.

POWER – toggles the main power ON and Off.

Multi-Function Port – connection point for VSS, external power, and RS-232 data output.

Rear Antenna Option

The Stalker II MDR can be purchased with an optional rear antenna port. With this feature, a second, rear-facing antenna can be connected to the Stalker II MDR to yield the performance of a two-antenna dash-mounted unit either in a patrol vehicle or on a motorcycle.

Motorcycle/Waterproof Applications

The Stalker II brings versatility to motorcycle applications as a handlebar mount, with or without the battery handle attached, or used as a traditional hand-held with an optional holster.

Its die-cast-metal case is smaller and lighter than most hand-helds, and the Stalker II is waterproof to a depth of 2 feet. That makes the Stalker II at home on the water as well as on the roadway.

Full-Function Remote Control

The full function remote control adds to the Stalker II's versatility and provides direct access to the operator settings that can also be accessed in the Operator Menu.

▲ – is used to set distance in stopwatch mode and to increment settings in the operator menu.

STRONG LOCK/REL – is used to lock and release strong targets.

ANT – toggles between integral antenna and optional, rear-facing antenna.

FAST LOCK/REL – is used to lock and release faster targets.

▼ – is used to set distance in stopwatch mode and to decrement settings in the operator menu.

BOTH / DIRECTION – is used to select target direction for both stationary and moving modes.

SEn / 100 – **SEn** adjusts the sensitivity (range) of the radar. **100** is used for setting distance in stopwatch mode.

TEST / MENU – **TEST** performs a diagnostic check on the radar; **MENU** is used to enter the operator menu.

XMIT/HLD – toggles between transmit mode and hold mode.

SS – is the Start/Stop control for stopwatch operation.

STA/MOV – selects either stationary mode or moving mode.

SQL / 10 – **SQL** toggles the squelch control on/off. **10** is used for setting distance in stopwatch mode.

PS 5/20 / 1 – **PS 5/20** is used to set the minimum patrol speed. **1** is used for setting distance in stopwatch mode.

PS BLANK – will blank a locked patrol speed and it is also used to reacquire a new patrol speed.

(((► – is used to adjust the Doppler volume and the beep volume.

LIGHT – activates the remote backlight for 6 seconds.

Power to Enforce.

STALKER® II *MDR* Moving Radar

GENERAL SPECIFICATIONS

Type:	Handheld Moving/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: 280 mA XMIT with moving target and back light: 280 mA XMIT with no target and back light: 300 mA Standby with no target and back light on: 150 mA Standby with no target and back light off: 130 mA Sleep mode: 30 mA (when battery powered only)
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 Patrol speed), 4-digit Alphanumeric status window, **XMIT** icon, and **CHG** icon
Mechanical:	**Weight** – 2.15 lb. (0.98 kg) with battery handle attached **Height** – 7.35 in. (18.5 cm) **Length** – 7.9 inches (20.1 cm) **Width** – 2.83 inches (7.2 cm) **Radar Body Material** – Aluminum and Magnesium die castings **Handle Case Material** – ABS polymer
Accuracy:	+1, -2 MPH stationary, ±2 MPH moving +2, -3 KM/H stationary, ±3 KM/H moving
Auto Self-Test:	Performed every 10 minutes while transmitting
Stationary Speed Range:	5 MPH to 200 MPH Standard 15 MPH to 200 MPH (option menu selectable)
Moving Speed Range:	**Patrol speed** - Selectable with **P.S. 5/20** key: **5** in patrol window for acquisition of 5 to 90 MPH **20** in patrol window for acquisition of 20 to 90 MPH Patrol speed, once locked, will track to 150 MPH **Opposite lane target speed** - 200 MPH Max closing For 5 MPH patrol speed: 20 MPH to 195 MPH For 70 MPH patrol speed: 35 MPH to 130 MPH. **Same lane target speed** – Related to patrol speed: ±70% of patrol speed within 5 MPH of patrol speed. i.e. for 50MPH: 16→45 MPH and 55→85 MPH. Same lane patrol speed must be greater than 16 MPH.

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 15 mW nominal 25 mW maximum
Power Density:	2 mW/cm^2 maximum at 5 cm from lens

SPEED WINDOW MESSAGES

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

DISPLAY WINDOW INDICATORS

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

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
FAWY:	FAWY showing in the message window indicates that the radar is set to track targets moving <u>away</u> from the radar in stationary mode
FCLO:	FCLO showing in the message window indicates that the radar is set to track targets <u>closing</u> on the radar in stationary mode
FBTH:	FBTH indicates that the target direction is set to simultaneously track both <u>closing</u> and <u>away</u> targets in stationary mode
FSAM:	A FSAM message indicates that same lane moving mode has just been selected
FOPP:	A FOPP message indicates that opposite lane moving mode has just been selected
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
FLOK:	A FLOK message indicates that a faster target has been locked. The FLOK 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** selects stationary or moving mode
▲/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.

REMOTE CONTROL FUNCTIONS

▲:	▲ is used to set distance in stopwatch mode and to increment settings in the operator menu
STRONG LOCK/REL:	**STRONG LOCK/REL** is used to lock and release strong targets
MENU:	**MENU** is used to enter the operator menu
XMIT/HLD:	**XMIT/HLD** toggles between transmit mode and hold mode
SS:	**SS** is the Start/Stop control for stopwatch operation
STA/MOV:	**STA/MOV** selects either stationary mode or moving mode
FAST LOCK/REL:	**FAST LOCK/REL** is used to lock and release faster targets
▼:	▼ is used to set distance in stopwatch mode and to decrement settings in the operator menu
BOTH/ DIRECTION:	**BOTH/DIRECTION** is used to select target direction
SEn:	**SEn** adjusts the sensitivity (range) of the radar
100:	**100** is used for setting distance in stopwatch mode
SQL:	**SQL** toggles the squelch control on/off
10:	**10** is used for setting distance in stopwatch mode
PS 5/20:	**PS 5/20** is used to set the minimum patrol speed
1:	**1** is used for setting distance in stopwatch mode
TEST:	Press **TEST** to perform a diagnostic check on the radar
(((►:	(((► is used to adjust the doppler volume and the beep volume
PS BLANK:	**PS BLANK** will blank a locked patrol speed and it is also used to re-acquire a new patrol speed
LIGHT:	**LIGHT** activates the remote backlight for 6 seconds

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 external power)
	  XMIT with all displays off and back light off: 280 mA
	  XMIT with moving target and back light: 280 mA
	  XMIT with no target and back light: 300 mA
	  Standby with no target and back light on: 150 mA
	  Standby with no target and back light off: 130 mA
	  Sleep mode: 30 mA (when battery powered only)

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. (0.98 kg) with battery handle attached **Height** – 7.35 in. (18.5 cm) **Length** – 7.9 inches (20.1 cm) **Width** – 2.83 inches (7.2 cm) **Radar Body Material** – Aluminum and Magnesium die castings **Handle Case Material** – ABS polymer
Accuracy:	+1, -2 MPH, +2, -3 KM/H
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 mininum 15 mW nominal 25 mW maximum
Power Density:	2 mW/cm^2 maximum at 5 cm from lens

DISPLAY WINDOW INDICATORS

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

SPEED WINDOW MESSAGES

PASS:	**PASS** in the speed windows indicates the unit has just passed self-test.
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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
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FAWY:	FAWY showing in the message window indicates that the radar is set to track targets moving <u>away</u> from the radar
FCLO:	FCLO showing in the message window indicates that the radar is set to track targets <u>closing</u> on the radar
FBTH:	FBTH 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.
<u>**MENU:**</u>	**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
<u>**BOTH DIRECTION:**</u>	This key is used to select target direction
POWER:	**POWER** toggles the main power ON and Off.