

STALKER[®] LIDAR XLR EU SPECIFICATIONS

Operational:

Type:	Handheld Lidar offering Tracking mode, Single Shot mode, and Time/Distance mode.
Acquisition Time:	0.33 second
Nominal Range :	Minimum < 1.5 meters Minimum Speed Mode = 15 meters Maximum greater than 762 meters
Range Accuracy:	± 0.15 meter *
Speed Measure:	2 km/h to 481 km/h (1 mph to 299 mph; 2 to 260 knots)
Speed Accuracy:	± 1 km/h (± 1 mph, ± 1 knot)
Test/Alignment mode:	Enter using the TEST key and the Trigger. Used to test HUD alignment using audio tone.
Metric, Knots Operation:	Setup menu selectable
Lidar trigger modes:	Setup menu selectable: 1. Constant trigger depression for constant XMIT 2. Separate trigger depressions to start/stop XMIT 3. Remote trigger signal available through I/O port
Time/Dist. trigger mode:	Separate trigger depressions when target enters and exits speed zone
Inclement Weather mode:	Suppresses target returns from targets closer than approximately 76 meters to reduce interference from rain, fog, and snow
Target Speed Tone:	Variable audio tone corresponding to target speed. A fast target generates a higher tone and a slow target generates a lower tone.
Modes of Operation:	Inclement Weather/Obstruction – suppresses target returns for first 76 meters. Zone mode – obtain speeds only while target is in measured area – school or construction zones Auto-Obstruction – learns and ignores where obstructions are in path of laser beam.
Options:	Bluetooth printer Data Logging – stores date/time/speed data internally Following-Too-Close – measures time-between-vehicles

Physical

Dimensions:	22.6 cm Height, 11.9 cm Length, 11.9 cm Width
Weight:	Including Battery Handle - 1.05 kg
Housing:	Injection molded plastic case
Shoulder Stock:	Accessory shoulder stock is available
Input Voltage Range:	Battery Handle: 6.4V to 9.0V @ 400 ma. Nominal Cigarette Cable: 6.4V to 16.0V @ 400ma. Nominal Low voltage inhibit activates between 6.4V and 6.8V
Low Voltage Inhibit:	Inhibits all readings while input voltage is below the low voltage inhibit level
Low Voltage Standby:	After 10 seconds of inactivity (unit not transmitting), power consumption is reduced to 63% of nominal
Input Power Protection:	Solid state automatically resettable fuse
Environmental:	-30 to +60 C, operating -40 to +85 C, non-operating
Humidity Protection:	+37 C, 90% Relative Humidity, 8 hours minimum, operating
Additional Resistance:	IP-65 rated, dust intrusion and waterproof
EMI/RFI:	RFI icon indicates that the unit is in a high EMI field. No false readings.
Tripod Mount:	¼"-20 tripod bracket provides tripod mounting
I/O Connector:	12-pin I/O connector on lower left side of case.

* when the unit is in 0.1 (tenths) resolution

Transmitter & Receiver:

Operating Wavelength: 905 ± 10 nm Peak @ 25° C

Spectral Bandwidth:	5 ± 3 nm FWHM
Laser Type:	MOCVD InGaAs Stacked Array Pulsed Laser Diode
Eye Safety:	Class 1M Laser Product - complies with IEC 60825-1:2007-03. Ed 2.0
Pwr. Output:	20uW maximum average power. 154 nJ maximum pulse energy (meets FDA/CDRH regulations)
Pulse Width:	< 30 nsec.
Pulse Repetition Rate:	Fixed, 130 Hz (±0.1 % at 8.40 VDC) or variable in Anti-Jamming mode
Beam Divergence:	< 3 ± 0.5 mrad FWHM
Optical Design Type:	Bistatic (dual aperture)
Thru Windshield:	Increases targeting range when used inside vehicle. Minimum operating distance 15 meters - Speed mode.

HUD

Targeting:	Illuminated Open E, keyboard adjustable intensity.
Range and Speed Data:	Range: Four 7-Segment Digits (8888) Speed: Three 7-Segment Digits (±888) Range and Speed have keyboard adjustable intensity

PANEL

Display:	8-Character (7-segment) with ± LCD display with keyboard controlled backlight
Display Clear:	Clears previous readings when trigger is pulled.
Power-On Self Test:	Electronic test, timing accuracy verified, and all display elements illuminated. Errors indicated by beep code.
Speed Display Lock:	Locks speed/range when trigger is released.
Controls:	Silicon Rubber Keypad with LED backlight

SWITCH DEFINITION

TRIGGER: (Lidar mode)	Setup Menu Selectable: 1. Constant trigger depression for constant Xmit 2. Separate trigger depressions start/stop Xmit
TRIGGER: (time/dist mode)	Separate trigger depressions when target enters and exits speed zone
PWR:	Toggles main power ON/OFF
TEST:	Performs a complete self-test
HUD Light:	Toggles the HUD intensity from low to high 1-6
MODE:	Used to select Tracking mode, Single Shot mode, Inclement Weather mode, and to toggle between SPEED only, RANGE only, and simultaneous SPEED and RANGE display. Used to exit from MIN, MAX, and TIME/DIST modes.
PANEL LIGHT:	Activates display and keyboard backlights ON and OFF
AUDIO:	Used to adjust speaker volume in 4 steps
TIME/DIST:	Selects TIME/DIST mode
MAX:	Used in TIME/DIST mode to set maximum range
MIN:	Used in TIME/DIST mode to set minimum range

DISPLAY MESSAGES

Err:	Indicates measurement error has occurred
PASS:	Indicates self-test has successfully completed