

STALKER LIDAR LR



New optics and electronics reduce target acquisition time, extend range, and improve tracking.



Stalker's Engineers designed the LIDAR LR's new optics around 44mm objective lenses to achieve better target illumination and improved signal return reception. Plus, the new optics allow a minimum 2500-foot target acquisition distance while newly refined internal software algorithms provide smoother tracking and fewer dropouts, and a reduced sweep affect.

Internally, Surface Mount Technology and modern components yield a 284:1 increase in processing power resulting in an 8:1 improvement in time and distance accuracy.

Externally, the forward swept battery handle improves ergonomics and operator control.

STALKER
Radar & Lidar

2609 Technology Drive
Plano, Texas 75074
972-398-3780

SPECIFICATIONS

Dimensions:	9.4" Height, 6.8" Length, and 4.2" Width 23.9 cm Height, 17.3 cm Length, 10.7 cm Width
Weight:	Including Battery Handle - 3.9 lbs (1.77 kg)
Housing:	Metal case with rubber end caps
Environmental:	-30° to +60° C, operating -40° to +85° C, non-operating
Humidity Protection:	+37° C, 90% Relative Humidity, 8 hours minimum, operating
Type:	Handheld LIDAR offering Tracking mode, Single-Shot mode, and Time/Distance mode.
Acquisition Time:	Less than .4 second
Nominal Range :	Minimum < 5 feet (1.5 meters) Normal = 2000 feet (600 meters) Maximum > 4000 feet (1200 meters)
Range Accuracy:	Less than or equal to 1 foot (1 meter)
Speed Measure:	2 mph to 299 mph (1.6 km/h to 481 km/h; 2.30 to 344.3 knots)
Speed Accuracy:	+1 mph, -1 mph (+2.0 km/h, -2.0 km/h; +0.86, -0.86 knots)
Metric 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
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 250 ft to reduce interference from rain, fog, and snow.
Remote Trigger:	Remote trigger signal available through I/O Port.
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.
Target Return Tone:	No tone when beam is off target; tone repetition increases as beam moves into target and return signal quality increases.
Switching Output:	I/O Port signal for operation of external devices (e.g. a camera). Toggles when speed exceeds speed signal setting.
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:	FDA/CDRH CLASS 1 Laser Device (Rated Eyesafe)
Pulse Width:	< 30 nsec.
Beam Divergence:	< 3 ± 0.5 mrad FWHM