



RANGER LR family

OEM Long-Range Laser Range Finder

The RANGER LR an open- or closed-frame module designed for OEM implementation as a long-range, single-pulse eye-safe laser range finder with an infra red target aiming laser (optional).

These modules are some of the only LRFs in the world of these dimensions that enable continuous lasing at repetition rates of 1 Hz, 3 Hz or 10 Hz.

The RANGER LRs are fully eye-safe - CLASS 1 (not Class 1M) according to IEC 60825-1:2001, thereby complying with the most rigorous customer requirements.

The RANGER LRs are designed for integration as part of a multi-sensor suite and/or UAV payloads.

Smartly designed for maximum packaging flexibility, the RANGER LR is easily adapted to existing systems according to customer needs.

- Very short lasing time ideal for fire control and airborne applications.
- Easy multi-suite OEM integration.

- »» RANGER 12: Based on single-pulse Er:Glass laser, for ranges of 100 – 12,000 m
- »» RANGER 25 – Based on single-pulse Er:Glass laser, for ranges of 100 – 25,000 m
- »» RANGER 25 PLUS – Based on single-pulse Er:Glass laser, for ranges of 100 – 25,000 m, at triple ranging repetition rate (3 Hz)
- »» RANGER 30 High Repetition (HR) – Unique 10 Hz repetition rate LRF based on single-pulse Er:Glass laser, for ranges of 100 – 30,000 m

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Technical Characteristics

	RANGER 12	RANGER 25	RANGER 25 PLUS	RANGER 30-HR
Laser Type	Er:Glass	Er:Glass	Er:Glass	Er:Glass
Wavelength	1540 nm	1540 nm	1540 nm	1540 nm
Ranging Repetition Rate	1 lasing operation/ sec (1Hz) – Continuous	1 lasing operation/ sec (1Hz) – Continuous	3 lasing operation/ sec (3Hz) – Continuous	10 lasing operation/ sec (10Hz) – Continuous
Range Accuracy	±5m (1σ)	±5m (1σ)	±5m (1σ)	±5m (1σ)
Extinction Factor (500m) – Lambertian target with R=85%	>36 dB	>43 dB	>43 dB	>45 dB
Minimum Range	100 m	100 m	100 m	100 m
Maximum Range (Best Conditions)	12,000 m	25,000 m	25,000 m	30,000 m
Laser Safety	Fully eye-safe - CLASS 1, according to IEC 60825-1: 2001	Fully eye-safe - CLASS 1, according to IEC 60825-1: 2001	Fully eye-safe - CLASS 1, according to IEC 60825-1: 2001	Fully eye-safe - CLASS 1, according to IEC 60825-1: 2001
Electrical				
Power Source	18-36VDC	18-36VDC	18-36VDC	18-36VDC
Communication	RS232 or RS422	RS232 or RS422	RS232 or RS422	RS232 or RS422
IR Pointer (Optional)				
Output Power	15-120 mW	15-120 mW	15-120 mW	15-120 mW
Boresight Pointer/LRF	<0.3 mRad	<0.3 mRad	<0.3 mRad	<0.3 mRad
Physical Data				
Weight	<700 g	<750 g	<750 g	<1.5 Kg
Environmental				
Complies with MIL-STD-810F and MIL-STD-461D				



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Specifications subject to change at any time

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The manufacturer has a policy of continuous improvements and reserves the right to make changes without prior notice 10/08