



OVERVIEW

Proudly the smallest and lightest LRF System in its Class. The Miniature Advanced Rangefinder System (MARS) brings precision weapon-mounted laser rangefinding capability to the user in an exceptionally small form factor. With an integrated Applied Ballistics solver, visible and Near Infrared (NIR) pointers, NIR illuminator, and Bluetooth interface to external peripherals such as the Kestrel weather meter, the MARS delivers >2,000m range performance in a compact package weighing less than 8 oz.

USER BENEFITS

- **Ultra-compact with full-power capability:** Weighs under 8 oz and ranges targets >2,000m with a 1550nm laser.
- **Built-in Applied Ballistics® solver:** Calculates real-time windage and elevation using gun profiles and environmental data.
- **Adjustable laser power:** Configurable VIS and IR output based on mission needs.
- **Included Environmental Sensors:** Temperature and pressure to eliminate guesswork and increases long-range lethality.
- **Multiple Ranging Modes:** Switch between Speed, Precision/Long Range, or Continuous Scan Modes.
- **First / Last / Best return logic:** Confirms target in cluttered environments.
- **Haptic feedback:** Vibration feedback to know when you're on target
- **Integrated Bluetooth:** 2-way Bluetooth for integration with external devices such as smartphones, digital weapon sights, or a Kestrel weather meter.
- **OLED Display:** Found under settings, screen will rotate to remain upright for any rail-mounted configurations.
- **Glove-friendly 3-button interface:** Simple, intuitive control under pressure.
- **Remote switch compatible:** Comes with 12" or 20" cable options.
- **Built for combat:** Waterproof up to 1 meter, recoil-rated, and reliable from -4°F (-20°C) to + 140°F (60°C).
- **Mounting:** MIL-STD-1913 rail interface to mount to a wide variety of weapon platforms.
- **Units of Measure:** Imperial, Metric, or Mixed units
- **Single CR123A powered:** >2,000 range activations per battery.



MARS FEATURES

NSN: 1240-99-984-0230

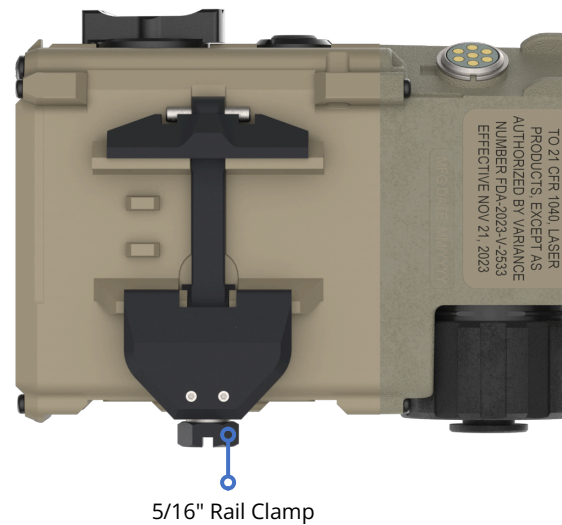
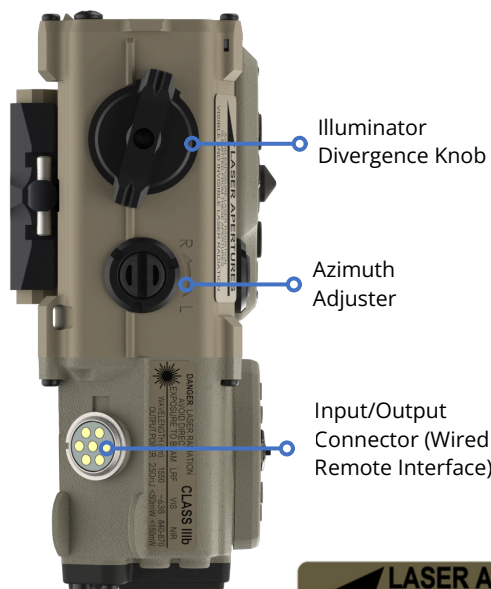
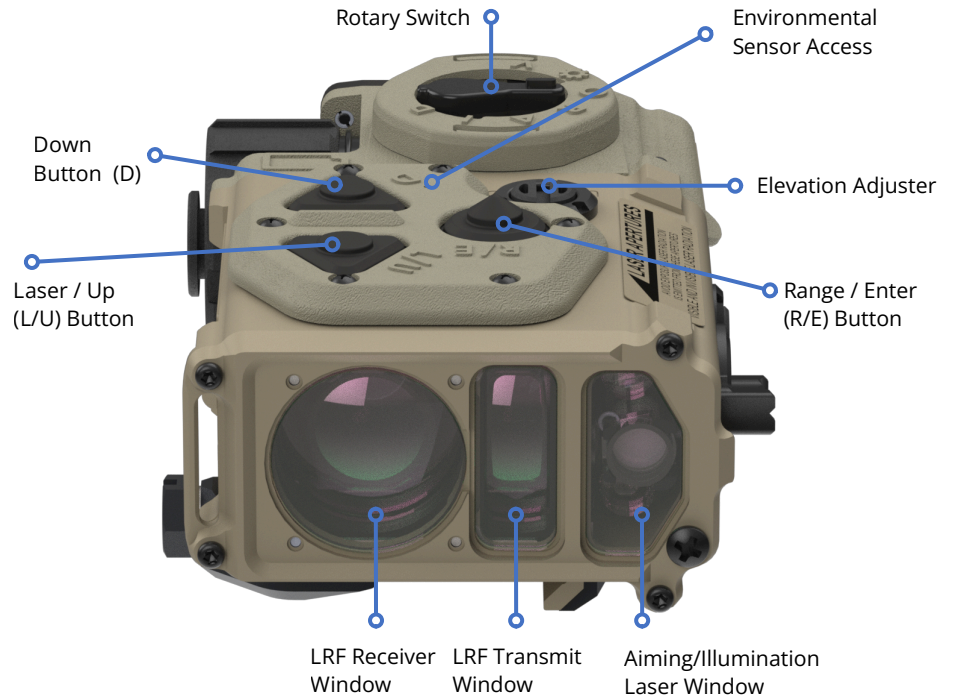
LRF	~1550nm, Class 1 >1,500m on 10% reflective man-size target >2,000m on 30% reflective NATO target
Weight	Without Battery: 6.6oz (187g) With Battery: 7.2oz (204g)
Dimensions	L: 3.7" (96mm) with lens cover deployed W: 2.7" (68mm) with lens cover stowed H: 1.4" (35mm) above rail
Power	Single CR123A Battery
Mounting Interface	MIL-STD-1913 Rail Grabber
Wireless Interface	2 Way Bluetooth
Ballistic Computer	Applied Ballistics, Integrated
Modes	Speed, Precision, Scan (rapid)
User Interfaces	Three-button remote, rotary switch
Visible Pointer	
Output Power	3.5mW (low) Class 3R 38mW (high) Class 3B, +/-20%
Divergence	0.5mR (+/- 0.3mR)
Wavelength	~640nm (at 20°C)
NIR Pointer	
Output Power	0.45mW (low) Class 1 25mW (high) Class 3B, +/-20%
Divergence	0.5mR (+/- 0.3mR)
Wavelength	~850nm (at 20°C)
NIR Illuminator	
Output Power	5.0mW (low) Class 1 105mW (high) Class 3B, +/-20%
Divergence	1 - 6 degrees (+/- 20%)
Wavelength	~860nm (at 20°C)

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Available Accessories & Spares
MARS Fix It Stick
3-Button Remote, 12" / 20"
Mode Select Switch Assembly and Bezel, Spare
Lens Cover Assembly, Spare
Battery Cap Assembly, O-Ring & Strap, Spare
Protective Case, Spare
Mode Select Switch Assembly and Bezel, VIS Only, Spare



LASER APERTURES

AVOID EXPOSURE-LASER RADIATION IS EMITTED FROM THESE APERTURES VISIBLE AND INVISIBLE LASER RADIATION

DANGER: LASER RADIATION
 AVOID DIRECT EXPOSURE TO BEAM LRF VIS NIR

CLASS IIIb

WAVELENGTH (nm): 1550 ~638 840-870

OUTPUT POWER: 250mJ <50mW <150mW