



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

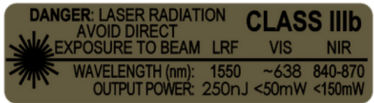
- **Ultra-compact with full-power capability:** Weighs under 8 oz and ranges targets >2,000m with a 1550nm laser.
- **Built-in Applied Ballistics® solver:** Calculates real-time Ballistic Solutions using gun profiles and environmental data.
- **Environmental Sensors:** Integrated temperature and pressure sensors 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 confirms ranging without needing to look away.
- **Auto-rotating OLED display:** Screen rotates automatically to remain upright when mounted at 12, 3, 6, or 9 o'clock positions.
- **Adjustable laser power:** Configurable VIS and IR output based on mission needs.
- **Glove-friendly 3-button interface:** Simple, intuitive control under pressure.
- **Remote switch compatible:** Available in 12" and 20" cable options.
- **Built for combat:** Waterproof up to 1meter, recoil-rated, and reliable from 4°F (-20°C) to + 140°F (60°C).
- **CR123A powered:** >2,000 ranges 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: 3.64" (92.4mm) with lens cover deployed W: 2.6" (68.6mm) with lens cover stowed H: 1.71" above rail (43.4mm) above rail
Power	Single CR123 Battery
Mounting Interface	MIL-STD-1913 Rail Grabber
Visible Pointer	
Output Power	3.5mW (low) Class 3R / 38mW (high) Class 3B, +/-20%
Divergence	0.5mR (+/- 0.3mR)
Wavelength	~640nm (at 20C)
NIR Pointer	
Output Power	0.45mW (low) Class 1 / 25mW (high) Class 3B, +/-20%
Divergence	0.5mR (+/- 0.3mR)
Wavelength	~850nm (at 20C)
NIR Illuminator	
Output Power	5.0mW (low) Class 1 / 105mW (high) Class 3B, +/-20%
Divergence	1 – 6 degrees (+/- 20%)
Wavelength	~860nm (at 20C)
User Interfaces	Three-button remote, rotary switch
Wireless Interface	2 Way Bluetooth communication
Ballistic Computer	Applied Ballistics, Integrated
Modes	Speed, Precision, Scan (rapid)



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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
Soft Case, Spare
Mode Select Switch Assembly and Bezel, VIS Only, Spare

