B.E. MEYERS® ADVANCED PHOTONICS

INFORMATION SHEET

MILR®

MINIATURE INTELLIGENT LASER RANGEFINDER

FIRE CONTROL REVOLUTION

The B.E. Meyers MILR® (Miniature Intelligent Laser Rangefinder) is the world's first ballistically disturbed infrared aiming laser fire control system. This stride in technology redefines precision and capability for modern warfighters.

Engineered for versatility, the MILR® excels on machine guns, precision rifles, and remote weapon stations. Intelligent adjustment of the disturbed infrared pointer with ballistic computation allows the MILR® to provide a precise active aiming solution with head-borne night vision, removing the need for clip-on night vision devises. The rear mounted display can also be used to read out these same calculations for precise holdovers during the day.

The MILR® can be pre-loaded with the ballistic profiles of multiple platforms and ammunition types to allow for rapid setup across a multitude of weapon systems. An intuitive user interface also gives the operator control to manually build a ballistic profile when needed to meet the exact specifications of their weapon, ammunition, and environment.

Part Number : **MILR-V1-M01-FD01-K01**

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CAGE: 6U501
UEI: XVUVLU5FK1X9

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MINIATURE INTELLIGENT LASER RANGEFINDER

The MILR® represents a groundbreaking leap in fire control systems. This compact, all-in-one device innovates with its Ballistically Disturbed Infrared Aiming Laser (DIAL™), a revolutionary technology that allows the IR pointer to internally declinate for a precise ballistic solution, even when observing through head borne night vision goggles. This grants a weapon full day and night ballistic capability without requiring a separate clip-on night vision device. Integral to its advanced functionality is an onboard ballistics calculator, offering on-screen holdovers for day optics and actively adjusting the disturbed IR laser, complete with user-friendly setup.

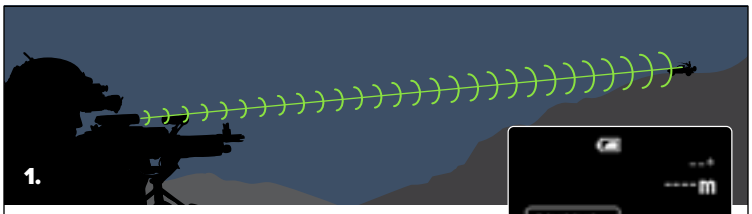
The MILR® boasts a truly digital control system, where all vital functions like power, divergence, and mode selection are digitally manipulated, eliminating any mechanical or optical movement beyond boresight adjustments, and ensuring synchronized, instant adjustments. At its core lies the proprietary MINIRVA™ digital Vertical-Cavity Surface Emitting Laser (VCSEL) diode, enhancing performance, beam quality, and efficiency. Furthermore, a new laser-based variable divergence illuminator ensures exceptional beam clarity across various engagement ranges, streamlining response times.

Designed for extreme combat environments, the MILR® maintains its zero with remarkable stability even after extensive use. It also seamlessly connects via Bluetooth® to Kestrel® instruments, allowing for rapid environmental data downloads.

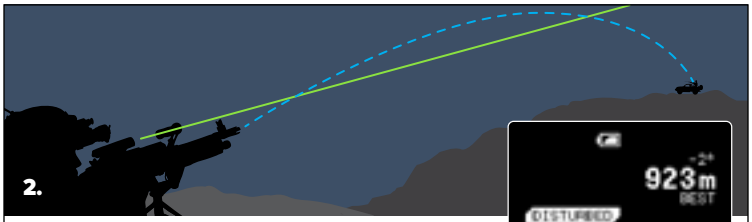
Part Number : **MILR-V1-M01-FD01-K01**

Bluetooth is a registered trademark of Bluetooth SIG, Inc. | Kestrel is a registered trademark of Nielsen-Kellerman Co.

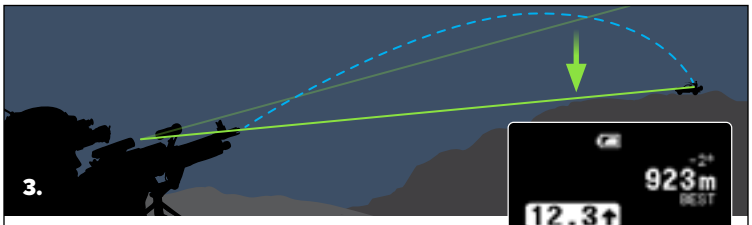
Application Overview:



Operator ranges a target using the zeroed **Aiming Pointer** of the **MILR®**.



Unlike a traditional laser that stays in a fixed position relative to the weapon (as shown here), the internal **IR Aiming Laser** of the **MILR®** digitally adjusts the elevation based on target range & ballistics.



By working with an onboard ballistic computer, the I**R Aiming Laser** moves to Point of Impact (POI), rather than just showing Point of Aim (POA). The operator now holds the **Disturbed IR Aiming Pointer** on target to engage.

NOTE: *Depiction of distance, scale, bullet trajectory and perspective are simplified for illustrative purposes.*

TECHNICAL INFORMATION

Dimensions	5.6” L x 2.8” W x 1.3” Height over rail
Power Source	L91 Batteries / AA 1.5V Lithium (Qty. 2)
Weight	11.2oz without Batteries
Output Power: VIS Pointer	Green: 1mW to 47mW Red: 1mW to 165mW
Output Power: NIR Pointer	0.2mW to 40mW
Output Power: Illuminator	0.6mW to 350mW
Output Power: Rangefinder	0.4uJ, 0.1uS
Nominal Ocular Hazard Distance (NOHD)	258m (Green) 615m (Red)
Environmentally Sealed	Waterproof to 20m up to 2 hrs.

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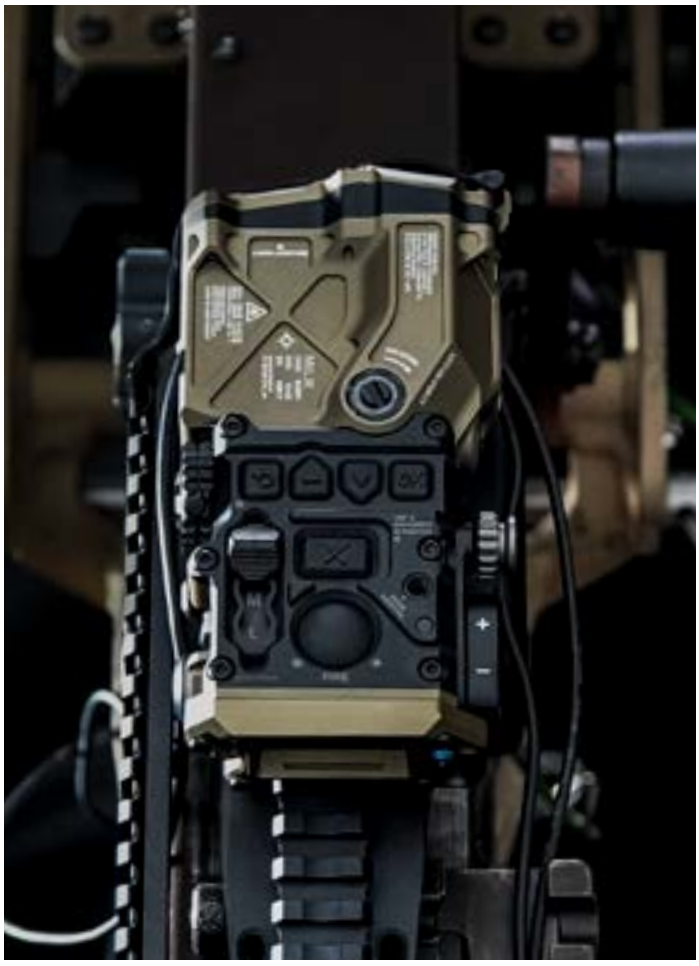

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Part Number : **MILR-V1-M01-FD01-K01**

The MILR® (Miniature Intelligent Laser Rangefinder) is a weapon-mountable Class 3B/3R combination high-power infrared aiming and illumination device with visible pointer, laser rangefinder, and ballistic computer. This combination of technologies allows the MILR® to actively declinate its disturbed infrared laser for precise ballistic compensation when actively aiming with head-borne night vision devices (NVDs). During daylight the MILR® can also provide accurate ballistic solutions for use with a day-optic via the integrated display.

FEATURES

- Adjustable divergence IR illuminator from 0.8° to 6°.
- Six modes of adjustable power output.
- Consistent, artifact-free illumination across all divergences and power levels.
- Onboard laser rangefinder and ballistic calculator provide rapid ballistic solutions via the rear display.
- Ballistic profiles for multiple weapon systems and ammunition types can be pre-loaded onto the device and easily selected via the rear display.
- Disturbed NIR Pointer uses ballistic data to automatically adjust elevation to coalign with projectile impact at ranged distance.
- Patented Wakizashi® port allows for simultaneous remote control and power supply.
- Kestrel® connectivity via Bluetooth® wireless technology.
- Compatible with MIL-STD-1913 rails.
- Intuitive user interface and ergonomic layout.
- Meets MIL-STD 810G/F standards.

KIT INCLUDES:

- **MILR®** Targeting laser and NIR illuminator with disturbed pointer function.
- Soft carrying case
- Operator Manual
- Quick Reference Card
- L91 Batteries (Qty. 2)

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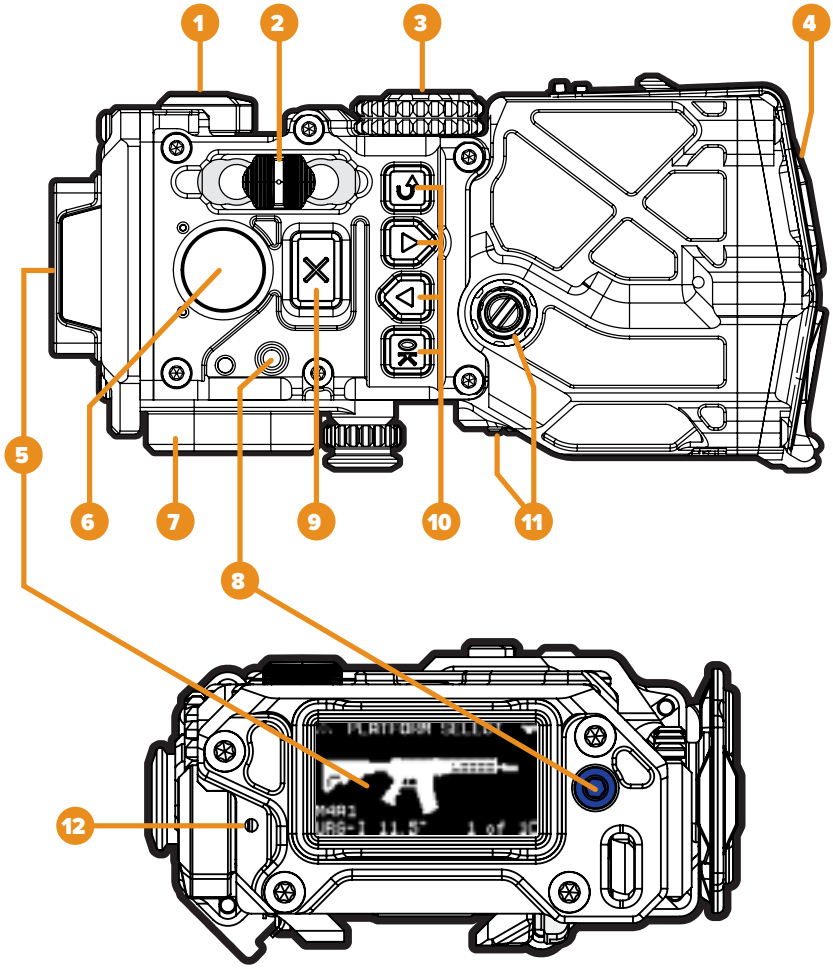
Controls:

1. **Activation Knob (IR-2 / IR-1 / OFF / VIS)**
2. **Output Power Switch**
3. **Divergence Wheel**
4. **Aperture Cover**
5. **Screen**
6. **Fire Button**
7. **Battery Cap**
8. **Training Mode Screw Position**
9. **X Button (LRF and Disturbed Pointer)**
10. **Menu Buttons**
11. **Windage & Elevation Adjusters**
12. **Status Indicator LED**
    Yellow = Armed
    Green = Firing
    Blue = Training Mode

~1550nm, Class 1
>1,500m on 10% reflective man-size target
>2,000m on 30% reflective NATO target



NOMINAL CHARACTERISTICS	
VIS Wavelength	520nm (Green) or 640nm (Red)
Output Power: VIS Pointer	Green: 1mW to 47mW Red: 1mW to 165mW
Divergence: VIS Pointer	0.5 mrad (0.03°)
NIR Wavelength	860nm (IR)
Output Power: NIR Pointer	0.2mW to 40mW
Divergence: NIR Pointer	0.7 mrad (0.03°)
Output Power: Illuminator	0.6mW to 350mW
Illuminator Divergence - Min.	0.8°
Illuminator Divergence - Max.	12°
Rangefinder Wavelength	1550nm
Output Power: Rangefinder	0.4uJ, 0.1uS
Laser Class	Class 3B (Class 3R in Training mode)
Power Supply	L91 Batteries / AA 1.5V Lithium (Qty. 2)
Dimensions	5.6" L x 2.8" W x 1.3" Height over rail
Weight	11.2oz without batteries
Nominal Ocular Hazard Distance (NOHD)	258m (Green) 615m (Red)
Environmentally Sealed	Waterproof to 20m up to 2 hrs.
Azimuth & Elevation Adjustment	Adjustable with a common multi-tool or spent cartridge
Operational Temperature Range	-20°C to +50°C (-4°F to +122°F)
Storage Temperature Range	-40°C to +70°C (-40°F to +158°F)

DANGER

VISIBLE & INVISIBLE LASER RADIATION - AVOID EXPOSURE TO BEAM

47mW - 520nm - Class 3B
400mW - 860nm - Class 3B
0.4µJ, 0.1µJ - 1550mW - Class 1

DANGER

VISIBLE & INVISIBLE LASER RADIATION - AVOID EXPOSURE TO BEAM

165mW - 640nm - Class 3B
400mW - 860nm - Class 3B
0.4µJ, 0.1µJ - 1550mW - Class 1

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