B.E. MEYERS® ADVANCED PHOTONICS

INFORMATION SHEET

MAWL®-DA

MODULAR ADVANCED WEAPON LASER
DIRECT ACTION

MODULAR VERSATILITY.

The MAWL®-DA is a high-power infrared and visible green aiming and illumination laser designed specifically for individual carbines, catering to the needs of modern night fighters. It features cutting-edge VCSEL technology for unparalleled beam quality, eliminating issues of inconsistent illumination. With multiple modes of divergence and power tailored for close, mid, and long-range operations, the MAWL®-DA ensures optimal performance in any environment. Additionally, its modular design allows for ambidextrous configuration to suit any operator's needs.

Part Number : **MAWL-DA**
NSN Number : **5855-01-582-4030**

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CAGE: 6U501
UEI: XVUVLU5FK1X9

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UNEQUALED NIR ILLUMINATION

B.E. Meyers & Co.™ VCSEL diode technology delivers unmatched near-infrared (NIR) performance, providing users with superior visibility in low-light conditions. This advanced technology enhances beam clarity, which is essential for improving situational awareness.

By producing sharper, more defined illumination, users can better identify their surroundings, assess potential threats, and make informed decisions in various environments.

The combination of exceptional performance and enhanced clarity makes this VCSEL diode technology a crucial asset for applications where precision and awareness are critical.

BEAM QUALITY

- VCSEL-based emitters deliver a uniform, artifact-free beam at any divergence setting.
- Rapid, intuitive controls allow instant adjustment of divergence and output to match evolving mission demands.
- Consistent laser wavelength minimizes visible red “glow” signature, outperforming LED-based illuminators in low-visibility engagements.
- Co-aligned pointer and illuminators guarantee the aiming laser remains perfectly centered within the illumination beam for consistent point-of-aim/point-of-light alignment.

BEAM EFFICIENCY

- High-efficiency VCSEL technology extends operational runtime compared to conventional systems.
- Enables higher beam output powers and increased battery life.

BEAM POWER

- Enables illumination, aiming, and communication at farther distances.
- High output VCEL NIR illuminators punch through photonic barriers and project to extended ranges.

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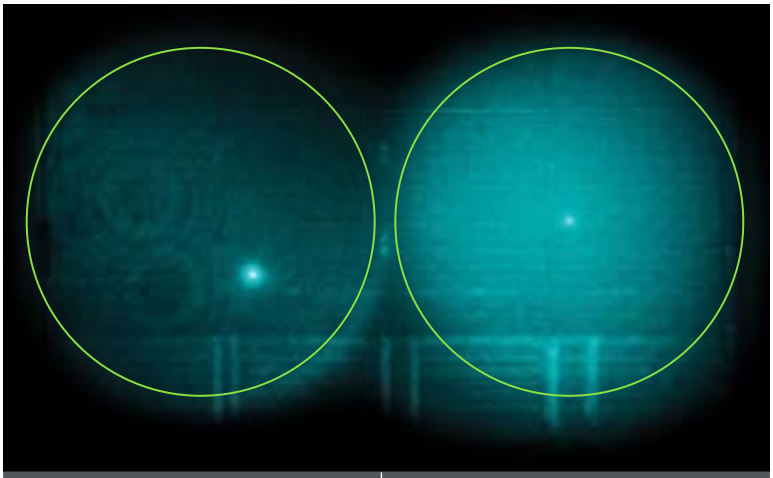
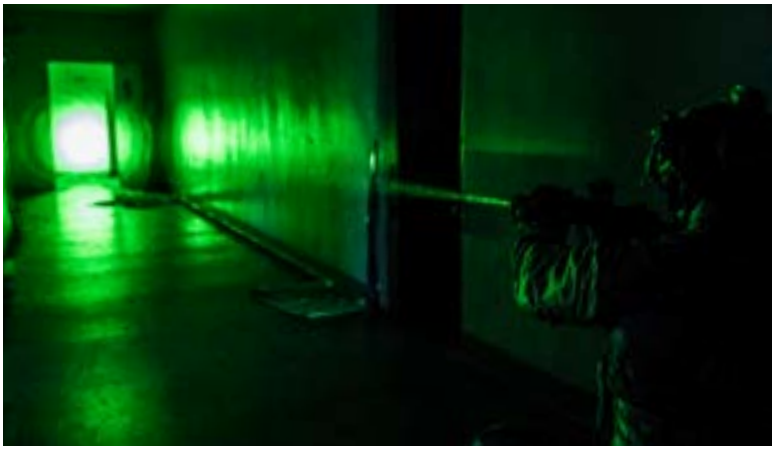


COMPETITOR	B.E. MEYERS™
• Uneven Laser Artifacts • Unaligned Point & Flood	• VCSEL Illumination • Co-Aligned Laser & Illuminator



NOMINAL CHARACTERISTICS	
Dimensions	5.5” L x 2.8” W x 1.8” H
Power Source	3V CR123A Battery (Qty. 1)
Output Modes	OFF // VIS // IR - Short, Mid, Long
Weight	11.1 oz with battery
IR Pointer Divergence (1/e^2)	0.5 mrad
IR Illuminator Divergences (1/e)	2°, 10°, 60°
VIS Pointer Divergence (1/e^2)	0.5 mrad
Azimuth & Elevation Adjustments	0.3mrad / 1.03 MOA per click
Environmentally Sealed	MIL-STD-810 Compliant

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Part Number : **MAWL-DA**

NSN Number : **5855-01-582-4030**

The MAWL®-DA laser device is a modular aiming and illumination tool that provides enhanced Near Infrared (NIR) illumination quality, streamlines the user interface, and improves weapon handling ergonomics.

Its compact design offers a superior form-fit-feel compared to traditional systems. With a low-profile activation button just 0.37 inches above the top rail, the device positions most of its bulk off-axis from the operator's grip, enhancing maneuverability.

The MAWL®-DA is well-suited for combat applications across various environments, ranging from close-quarters battle (CQB) to engagements exceeding 1000 meters.

MODULAR

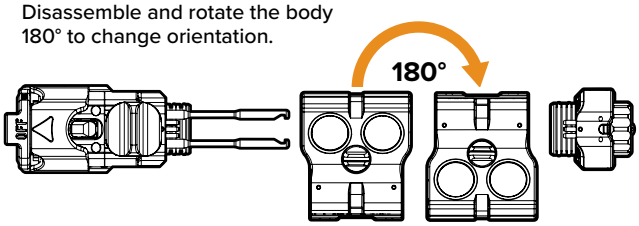
- The MAWL® - DA is a fully ambidextrous and modular system capable of adapting to different mounting and operation requirements.
- The central housing unit, end cap, and laser head can be easily removed and reconfigured, and other variants of these components can be utilized.
- Modular spare parts increase product life.

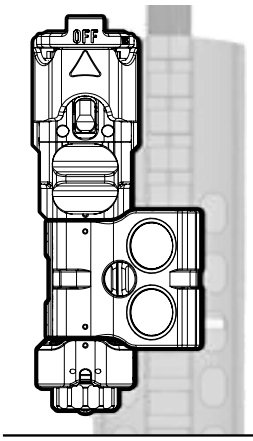
KEY FEATURES

- Co - Aligned Laser Emitters eliminates beam divergence and convergence at different ranges and allows for single zero of all emitters in daylight.
- The MAWL® - DA simplifies and accelerates setting selection with a three - position range switch. Each setting is configured to match different environments and ambient illumination conditions.
- The operator can rapidly select the divergence and output power combination to suit the given conditions.
- Training Mode reduces the maximum output power of all modes, both IR and VIS, to a maximum of a **Class 3R** hazard.
  Training mode **IS NOT** Class 1 across the output range.
  NIR = Class 1/Class 3R ; **VIS** = Class 3R

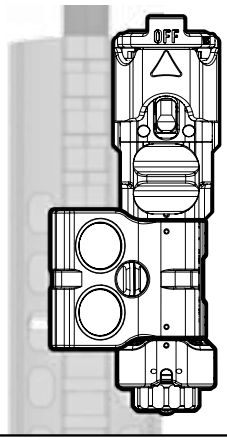
AMBIDEXTROUS DESIGN

Disassemble and rotate the body 180° to change orientation.





LEFT HAND CONFIGURATION



RIGHT HAND CONFIGURATION

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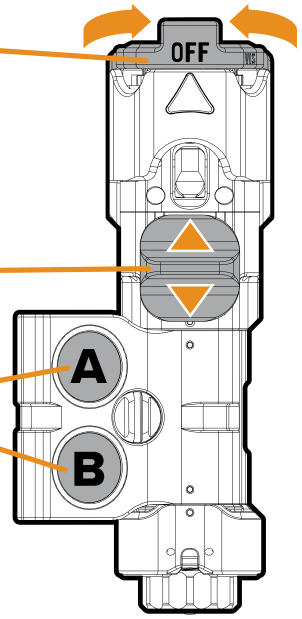
VISIBLE - GREEN (520nm)

LONG	A	25 mW
	B	25 mW Pulsed @6Hz
MID	A	25 mW
	B	10 mW
SHORT	A	5 mW
	B	1 mW

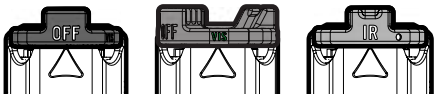
INFRARED (860nm & 852nm)

		ILLUMINATOR DIVERGENCE	ILLUMINATOR POWER	POINTER POWER
TRIPLE CLICK	A	2°	150mW	6 mW
	B	-	-	15 mW
LONG	A	2°	50 mW	1.5 mW
	B	10°	65 mW	0.7 mW
MID	A	2°	17 mW	0.7 mW
	B	10°	13 mW	0.4 mW
SHORT	A	-	-	0.25 mW
	B	60°	5 mW	0.25 mW



MODE SELECT SWITCH

- Replaceable Propeller Cap
- Rotate to change modes: **OFF**, **VIS**, and **IR** modes.



THREE POSITION RANGE SWITCH

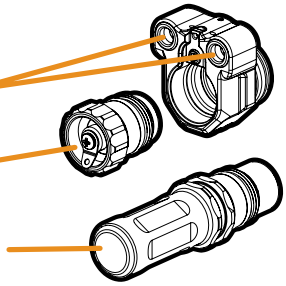
- **Close - Range, Mid - Range, Long - Range**
- Extremely tactile and easy to determine range mode by feel.

ACTIVATION BUTTONS (A & B)

- The **A & B** buttons activate two different sub - divergences for each engagement range.
- A High - Power **"Triple - Click"** capability has been added to allow more control at further distances.
- Easily activate your ideal illumination setting in the dark, under stress, or with gloves on.

MAWL® EC2 ENDCAP

- Two strategically positioned remote fire ports for secure attachment of a remote cable using a CRANE - style connector.
- Features a toolless quick change battery cap.
- Can support multiple power sources: CR123A as standard or AA with a separate **End Cap Extension** (not included).



NOMINAL CHARACTERISTICS

Part Number	MAWL-DA
Displaced Volume	8.5 in^3
Dimensions	5.5" L x 2.8" W x 1.8" H
Housing Material	6061-T6 Type II Anodized Aluminum
Power Source	3V CR123A Battery (Qty. 1)
Output Modes	OFF // VIS // IR - Short, Mid, Long
Weight	11.1 oz with battery
IR Pointer Divergence (1/e^2)	0.5 mrad
IR Illuminator Divergences (1/e)	2°, 10°, 60°
VIS Pointer Divergence (1/e^2)	0.5 mrad
Azimuth & Elevation Adjustments	0.3mrad / 1.03 MOA per click
Operation Temperature	-20°C to 50°C
Storage Temperature	-40°C to 70°C
Environmentally Sealed	MIL-STD-810 Compliant

DANGER

VISIBLE & INVISIBLE LASER RADIATION - AVOID EXPOSURE TO BEAM

520 nm - 25 mW - Class 3B
852 nm - 15 mW - Class 3B
860 nm - 150 mW - Class 3B

IEC60825-1:2014

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