



MTAL VENOM

MULTIPLE TACTICAL AMING LASER „VENOM“

The Laser Light Module MTAL VENOM from Rheinmetall Soldier Electronics (RSE) is a highly ruggedized, compact laser aiming and illuminating system, specifically designed to seamlessly integrate with today's compact assault rifles and withstand the harshest conditions.

It is equipped with a powerful visible aiming laser, an IR aiming laser, an IR illuminator, as well as an IR near-field illuminator for Close Quarter Battle (CQB) in a fully integrated co-aligned laser block. This innovative system provides the operator with superior illumination beam quality that increases their situational awareness in all environments. The MTAL VENOM is compatible with almost all in service night vision devices.

The full metal case with integrated mount features a flat construction so that holographic sights are not obstructed. The Laser output power can be operated by a toggle switch on top of the case. A blue screw protects against unintentional operation with high laser power.

Further options include a connection remote cable to operate the MTAL VENOM, also with tactical lights. An emergency function enables selecting other light sources when the IR modes are on.

FEATURES

- Visible green or red aiming laser
- IR aiming laser
- Electronically focusable IR illuminator
- IR near-field illuminator for indoor use (built-in)
- All lasers co-aligned to bore sight with a single adjustment
- Laser centered on barrel axis of the weapon
- Different laser power modes for training and combat, up to 3 laser power modes
- Emergency function, as override to activate vis aiming laser and tactical light
- Close-fitting design & ergonomic shape for left and right hand firing use (when top mounted, sights are not obstructed)
- 2 different ergonomic fire button for individual use (only laser module or operating tactical light through laser module)
- Robust lightweight & tool free mounting system
- Standard colour Tan, other colours (e.g. black, flat dark earth) on request
- Waterproof up to 30m for 2h (IP68)
- Powered by two IEC CR17345/CR123 batteries to increase operating time
- Laser module can interact with IFF system Rheinmetall BEACON
- SWIR laser wavelengths available, on request/optional

TECHNICAL DATA

General

Length x width x height	113 x 64 x 46 mm
Total height from rail (under rail)	28 mm
Weight incl. battery and rail mount	<210 g
Battery	2x IEC CR17345/CR123
Battery life	4 h @ 20°C, Dual-IR-mode
Waterproof (IP68)	30 m for 2 h
Operating temperature (STANAG 2895)	-32°C to +71°C
Test standard	MIL-STD-810/STANAG 4370

CONNECTIVITY

- Standard picatinny mount (MIL-STD-1913/STANAG4694)
- Special picatinny-rail is available on request for mounting on M-LOK or H-Key systems
- Connection cable for operating with tactical lights or as laser module single remote cable

LASER PARAMETER

Mode	Visible aiming laser (red/green)	IR aiming laser (SWIR optional)	IR illuminator with electronic focus (SWIR optional)	Built-in IR near-field illuminator ¹⁾
Typ. wavelength ³⁾	630/520 nm	852 nm	850 nm	852 nm
Typ. beam divergence d ₆₃	0.2 mrad	0.2 mrad	5.5 to 250 mrad	>90°
Laser class (training)	2	1	1	1
Max. laser power ⁴⁾	1.0 mW	0.3 mW	0.6 mW	30 mW
Laser class (operation)	3B	3B	3B	1
Max. laser power ⁴⁾	26 mW	5 – 40 mW	20 – 150 mW	30 mW
Max. laser range ²⁾	>25 m (at daytime)	>1000 m (at night)	>1000 m (at night with min. divergence)	>15 m (at night)

¹⁾ IR near-field illuminator is always Laser class 1

²⁾ Depending on light condition and laser power

³⁾ Typ. wavelength, can be customized to individual NVG type/product

⁴⁾ Can be changed by OEM according user request to optimize individual laser class set up

The laser output power is specified at maximum capacity and can be limited by the blue screw.
All parameters in the tables were measured at room temperature.



Laser beams can cause damage to your eyes.
The user is responsible to observe the local safety regulations.

Subject to technical changes, error, and printing errors.

CONTACT US

For more information or questions about an individual configuration of the Rheinmetall Soldier Electronics products, please contact our sales consultants.

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