



LM-VTAL

VARIABLE TACTICAL AIMING LASER

The Laser Module “Variable Tactical Aiming Laser” (LM-VTAL) 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 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 LM-VTAL 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.

Eye safe training mode for effective force on force training. Laser output power is set by smart colour-coded trigger cables or dongles (RSE patent granted) e.g. white and blue for training, black and grey for operations.

Further options include Y-cables to interface to a variety of tactical lights, including the RSE TL-MissionLight.

FEATURES

- Electronically focusable IR illuminator
- IR aiming laser
- Visible aiming laser (green or red)
- Near field flood for indoor and outdoor use (smooth, stepless)
- All lasers co-aligned to bore sight with a single adjustment
- Laser centered on the barrel axis of the weapon
- Different laser power modes for training and combat
- Close-fitting design (when top mounted, sights are not obstructed)
- Robust lightweight with around 145 g
- Waterproof up to 30m for 2h (IP68)
- Powered by one IEC CR17345/CR123 battery

CONNECTIVITY

- Standard picatinny mount (MIL-STD-1913/STANAG 4694)
- Dongle: selection of laser power for training or combat
- Triggercable: selection of laser power for training or combat
- Y-cable: For combination with different weapon lamps (Rheinmetall or third party)
- Easy single button operation

TECHNICAL DATA

General

| | |
|-------------------------------------|------------------------|
| Length x width x height | 95 x 60 x 45 mm |
| Total height from rail | 26 mm |
| Weight incl. battery and rail mount | 145 g |
| Battery | 1 x IEC CR17345/CR123 |
| Battery life | 3 h (Dual IR 30/75 mW) |
| Waterproof (IP68) | 30 m for 2 h |
| Operating temperature (STANAG 2895) | -32°C to +71°C |
| Test standard | MIL-STD-810 |



MODE DATA

| Mode | typ. wavelength | typ. output power | typ. beam divergence |
|--------------------------------------|-----------------|-------------------|----------------------|
| Visible aiming laser red | 640 nm | 60 mW | 0.5 mrad |
| or visible aiming laser green | 520 nm | 20 mW | 0.5 mrad |
| IR aiming laser | 850 nm | 30 mW | 0.5 mrad |
| IR illuminator w. electronic focus | 850 nm | 60 mW | 5 mrad to 150 mrad |
| Near IR illuminator | 850 nm | 30 mW | - |

*The laser output power is specified at maximum capacity and can be limited by using colour-coded remote cables.
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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