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Rheinmetall LM-VTAL and TL-MissionLight – the compact Laser-Light-Package for Special Forces

Laser light modules mounted on small arms are used for detecting, identifying and marking targets. Rheinmetall offers a powerful portfolio in this field. Especially for the use in special operations formations, Rheinmetall Soldier Electronic has designed a versatile and powerful laser light package, consisting of the “Variable Tactical Aiming Laser” (LM-VTAL) laser light module and the separate TL-MissionLight weapon torch.

The LM-VTAL is the core component of the new laser light package. Extremely robust and compact, the system is specially designed for today’s shorter assault rifles.

Watertight, light and stable, the metal housing has a built-in MIL-STD 1913/STANAG 4694-interface. Because the LM-VTAL protrudes only about 25 mm above the mounting rail, it does not interfere with the line of sight during conventional optical aiming. The LM-VTAL features an extremely strong visible red dot laser, a near-infrared dot laser, and a near-infrared illuminator. The superior quality of the light rays and their consistency of form enhances the user’s situational awareness in all operating environments. Importantly, the LM-VTAL is compatible with all standard image intensifier devices. The fully integrated laser block is aligned at the factory, making adjustment on the weapon simple. The LM-VTAL can also be configured according to customer requirements.



Owing to the device’s modern design, the operator can adjust the intensity of both dot lasers with the aid of a colour-coded cable switch. The illuminator can be focused using a separate control knob. Furthermore, the LM-VTAL can be coupled with other tactical weapon lights and can be operated using a combined two-button cable switch.

Rheinmetall offers the “TL-MissionLight” as such a separate weapon torch. It is available in a standard version with a dual LED head and a special version for hostage rescue operations. Typically, the LM-VTAL and one of the two weapon lights are mounted on the weapon.

► Key facts

- Compact and versatile laser light package
- Laser module LM-VTAL features strong visible red dot laser, near-infrared dot laser, near-infrared illuminator
- Separate weapon torch TL-MissionLight in different versions
- Can be configured according to customer requirements
- In use with several special operation forces including German KSK

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The robust design assures stability and dependability. The system can withstand the worst battlefield conditions and is waterproof to a depth of 30 metres. This way, operators know they can rely on the device at all times.

Rheinmetall's laser light package is already in use with various special operation units. In Summer 2018, Germany's procurement authority, the Federal Office for Bundeswehr Equipment, Information Technology and In-service Support, has awarded Rheinmetall a contract to supply it with more than 1,700 laser light package sets for the Bundeswehr's Special Forces Assault Rifle ("Sturmgewehr Spezialkräfte Bundeswehr, leicht").

Rheinmetall offers an extensive portfolio of infantry equipment, including a variety of aiming and illumination modules. These were developed in order to enhance the tactical effectiveness of modern small arms. One of these products is the LLM VarioRay laser light module, which is in use by numerous armed forces and was also selected for the new Bundeswehr assault rifle system. Another top-of-the-line Rheinmetall product is the "FCS-TacRay Ballistic", a rangefinder/ballistic computer for snipers and machine gunners.

Learn more about Rheinmetall's laser-light-modules at our EnforceTac booth 10-527!