The laser light module Vario-Ray from Rheinmetall is the successor of the combat-proven LLM01 and is equipped with more powerful lasers as well as the unique Vario-Ray technology. This technology enables the user to electronically focus the infrared illuminator, therefore eliminating the need to manipulate the weapon in the dark. The Vario-Ray technology is a huge advancement in combat safety and readiness, as the hands remain on the weapon at all times while operating the laser light module.

For eye-safety the Vario-Ray employs the patented concept of colour-coded remote cables. Blue and white training cables ensure eye-safe Class 1 and 2 laser powers, while grey, brown and black combat cables release fully installed Class 3R and 3B laser power.

The Vario-Ray is capable of holding a fourth laser system, a SWIR or DSID laser, for example.

**CHARACTERISTICS/FEATURES**

- Several white light lamp heads with a choice of beam patterns available, up to 650 lumens
- Choice of red or green laser target marker
- Infrared laser target marker
- Electronically focusable infrared illuminator, up to 150 mW
- Easy three-button operation, also via remote cable
- All lasers co-aligned at factory, easy adjustment to the weapon
- Eye-safety for training with colour-coded remote cable
- Waterproof up to 30 m
- Uses two CR123 batteries
- Remote cables available in customer-specified lengths
- Colours: RAL8000 (tan), RAL9005 (black), RAL8028 (brown)
TECHNICAL CHARACTERISTICS

**General**
- Size (L x W x H) 136 x 67 x 47 mm
- Height over rail 40 mm
- Weight incl. batteries and rail mount 270 grams
- Battery 2x DL123
- Battery life 7 h (Dual IR 30/80mW)
- Waterproof 30 m for 2 h
- Operating temperature –32°C to +71°C

**Visible aiming laser**
- Max. power output available 5/30 mW
- Wavelength red: 635 nm or green: 520 nm
- Beam divergence 0.5 mrad

**White light lamp head**
- Max. light output available 90/180/650 lumens
- Lamp head exchangeable Yes, see options

**IR aiming laser**
- Max. power output available 0.7/3.7/30 mW
- Wavelength 850 nm
- Beam divergence 0.5 mrad

**IR illuminator w. electronic focus**
- Max. power output available 3.7/30/80/150 mW
- Wavelength 850 nm
- Beam divergence 10 mrad to 100 mrad

**SWIR aiming laser (optional)**
- Max. power output available 5 mW
- Wavelength 1,550 nm
- Beam divergence 0.5 mrad

**DSID laser (optional)**
- Power output 5 W pulse
- Wavelength 905 nm

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OPTIONAL LASERS

- SWIR laser target marker (invisible to current standard night vision goggles)
- DSID IR-laser interrogator (invisible to current standard night vision goggles)

OPERATION

- Use rotary switch to preselect laser light combination, unit is in stand-by
- Rotary switch protected against unintentional activation
- Use push-buttons or remote cable to switch laser light combination on/off
- Activate special functions such as dimming, zooming, strobing of laser and light sources via built-in push-buttons or remote cable.
- Use colour-coded remote cables to set the Laser Class
- Use optional DSID laser to identify friendly force members
- Use optional SWIR laser to mark a target visible only to special SWIR night vision equipment

WEAPON MOUNTING

- Various mounts available; standard is for Picatinny (MIL-STD-1913/STANAG 4694)
- The mounts can be affixed to the Vario-Ray in two different locations to suit every weapon configuration
- Adapter available to mount a Docter® Sight on top the Vario-Ray

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