

LASER LIGHT MODULE VARIO-RAY



LLM Vario-Ray – The successor of the well-proven LLM 01 is even more powerful. Beside the standard functions the LLM Vario-Ray features an integrated electronically focusable infrared illuminator as well as an optional target identification laser friend/foe.

Characteristics/Features

- High-intensity white light lamp
- Red light laser marker
- Infrared laser marker
- Electronically focusable infrared illuminator
- Block alignment of all lasers
- Turn-switch to select light source
- All light sources are infinitely variable

Optional Light Sources/Filters

- ZEFF-Laser (identification friend or foe)
- Green light laser marker
- LED lamp head (instead of white light lamp, exchangeable by the user)

- Electronically focusable infrared illuminator with 80mW
- Red light filter (attachable to white light lamp)
- Yellow light filter (attachable to white light lamp)
- Infrared filter (attachable to white light lamp)
- Remote control via trigger cable
- Trigger cable in four different colours for performance control; Step-by-step classification in training I, training II, combat I and combat II
- Miscellaneous shape generators for personalisation of multiple lasers in one room
- Light source can be switched on via switch key or trigger cable
- The luminosity of the individual marker or illuminator can be individually altered
- Marker range up to 2000 m
- Watertight up to 30 m
- 2 CR17345 (IEC) batteries (e.g. DURACELL® CR17345)

Weapon Mounting

- Various holders are available, e.g. for Picatinny rail (MIL STD 1913/STANAG 4694)
- Docter® Sight II plus adaptable to Vario-Ray

Operation

- 9-phase turn-switch to select light source
- The selected light source can be switched on via three push-buttons on the Vario-Ray or the push-buttons on the trigger cable (accessory)

- The push-buttons on the trigger cable can operate as switch or push-button (selectable by operator)
- Status LED for battery charge condition, IR emission and friend/foe identification laser
- Stroboscope function can be activated via switch
- Operation of a remote light source via Vario-Ray

Device Data	
Laser class	3B (i.a.w. IEC EN 60825-1:2007)
Operating voltage	2.4 ... 7.5 VDC (2x CR123 or 2x AA optionally)
Dimensions (LxWxH)	109x64x43 mm
Weight	<230 g
Water tight	up to 30 m
Battery life (-20°C to +55°C)	up to 20 h depending on selected operating mode (battery life based on Duracell® CR17345)
Temperature range	
Operating	-20°C to +55°C
Storage	-46°C to +71°C
Relative humidity	up to 100%
White Light Lamp (Lamp Head)	
Output	8 W
Luminous flux	up to 180 lm
Ray diameter	≥2 m (after 10 m)
Range	>100 m (in darkness)
VIS Marker (Red Light Laser)	
Output	30 mW
Divergence (FWHM)	≤0.78 mrad (0.5 typically)
Range	
In darkness	up to 1,000 m
In daylight	up to 80 m
IR Marker (Infrared-Laser)	
Output	30 mW
Divergence (FWHM)	≤0.78 mrad
Range	up to 2,000 m (in darkness)
Electronically focusable infrared illuminator	
Output	30 mW (optional 150 mW)
Ray diameter	2.9 mm
Divergence	5 to 100 mrad
Range	up to 1,000 m
Friend/foe Laser (Infrared Laser)	
Output	3 W (pulsed)
Divergence (FWHM)	5 mrad
Range	≥600 m

The illustrations may vary. We reserve the right to make technical alterations.