

Laser diode module F-50TL ◆

Illumination spot size can be adjusted by smooth lens refocusing provided by telescopic design of F-50TL. At minimal beam divergence position it can be used as a laser pointer (laser spot size is 100mm at a distance of 100m). Two color wires are used for connecting IR-searchlight to power source. IR-searchlight can be supplied with built-in potentiometer for output power adjustment and / or with wires for connection of remote potentiometer.



Wavelength	635nm – 1550nm
Power output	≥ 5mW
Beam spot size (position 1)	8.0 ± 0.3m at 100m
(position 2)	2.0 ± 1.0m at 1000m
Beam divergence (position 1)	80mrad
(position 2)	2mrad
Length (position 1)	52mm
(position 2)	65mm
Diameter, max	12.5mm
Operating temperature	-20°C +50°C (selected wavelengths -60°C +80°C)



For further information about our products visit our website or call us to discuss your requirements.

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Our military lasers are easy to use plug and play laser systems suitable for target designation and illumination.

The lasers can be used in night vision goggles, integrated into different weapons for target designation and as illuminators for night vision surveillance.

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Defence Lasers



Applications: ◆

- Target designation
- Illumination
- Surveillance

Features: ◆

- Plug and play system
- Available green, red and infrared output
- Excellent focus
- Rugged design
- ESD Protection
- Reverse polarity protection
- Electrically isolated housing
- No technical laser experience required

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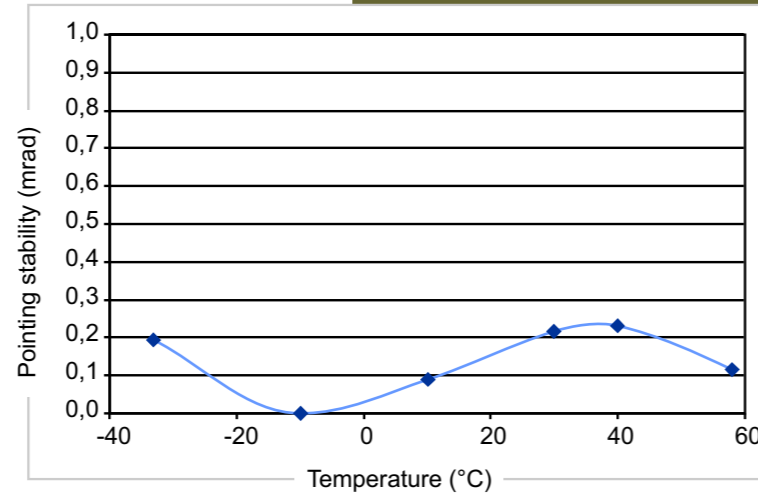
Laser diode module MLSA-840-007

IR Laser Diode Module with High Pointing Stability
 Laser module has 0.7mW output power at 840nm, perfect round spot with beam divergence <0.7mrad, measured pointing stability of <0.5mrad over the temperature range from -35°C to +55°C and low current consumption of 20mA. It provides fine adjustment of windage and leverage max ±30°. The laser module is military qualified for shock up to 500g in a small housing with diameter 13mm and length 25mm.



Wavelength @25°C	840 ± 10nm
Power output @25°C	≤ 0.7mW
Beam dimensions at the module output	< 5mm
Windage / Leverage adjustment	± 30°
Beam divergence	< 0.75mrad
Pointing stability	< 0.5mrad over the temperature range without adjustment
Operating current	≤ 20mA
Operating temperature band	- 35°C + 55°C
Dimensions	Ø 13mm x 25mm

Pointing Stability vs. Temperature



Laser diode module MLSA-XXX-YYY

Laser diode module MLSA-XXX-YYY is also available with the wavelengths from 635nm to 1550nm and output power from <1mW to 5mW.

Wavelength @25°C	635nm – 1550nm
Power output @25°C	< 1mW – 5mW
Beam dimensions at the module output	< 5mm
Windage / Leverage adjustment	± 30°
Beam divergence	< 0.5mrad
Operating temperature band	-20°C +50°C (selected wavelengths -60°C +80°C)
Dimensions	Ø 13mm x 25mm



Laser diode module MLSB-XXX-YYY

Laser diode module MLSB-XXX-YYY offers windage and leverage adjustment of ±1.5°, it is available with the wavelengths from 635nm to 1550nm and output power from <1mW to 5mW. The module is military qualified for shock up to 500g in a small housing with diameter 16mm and length 33mm.



Wavelength @25°C	635nm – 1550nm
Power output @25°C	1mW – 5mW
Beam dimensions at the module output	< 5mm
Windage / Leverage adjustment	± 1.5°
Beam divergence	< 0.5mrad
Operating temperature band	- 10°C + 50°C
Dimensions	Ø 16mm x 33mm



IR Laser Diode Illuminator / Target Designator FLIR-100A & F-50TL

FLIR-100-A and F-50TL are designed for field of view illumination and target designation when using night vision devices and night sights under low illumination conditions and complete darkness. The max. optical output power of 100mW* for FLIR-100-A and 50mW* for F-50TL combined with low beam divergence allows using both modules as searchlights up to 5km distance.

*Power output is factory set to a fixed value from 1mW to 40mW on the order.

Wavelength	830nm – 980nm, 1550nm
Radiation power	5mW – 100mW
Illumination spot size	adjustable: 100mm – 8000mm @ 100m
Power source	3V (CR 123A battery cell)
Operating temperature	-40°C +60°C
Fitting diameter	20mm (optional 25.4mm)
Dimensions	Ø 20mm x 100mm

Laser beam divergence is being adjusted within wide range with fixed intermediate values. Illumination spot size at a distance of 100m is 8m at the maximum beam divergence, at minimum beam divergence beam spot size is less than 100mm which enables to use FLIR-100A as laser sight and illuminator.

Small size and rugged shock-resistant design enable to mount the illuminator on small arms. Air-tight, dust- and moist-proof design allows using the device under any atmospheric conditions within wide temperature range.



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For further information about our products visit our website or call us to discuss your requirements.