TELEDYNE | FLIR Defense

MLI

100 mW & 400 mW VCSEL-Based Near-Infrared Miniature Laser Illuminator

APPLICATIONS

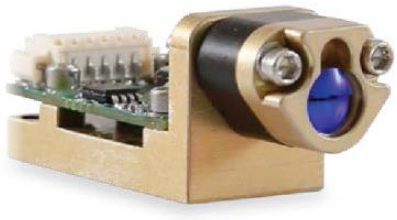
INDUSTRIAL

UNMANNED

HANDHELD

GIMBALED

FIXED MOUNT



MLI-100



MLI-400

Teledyne FLIR's ultra-high reliability VCSEL-based Miniature Laser Illuminator (MLI) is designed for SWaP-sensitive platforms, including unmanned aerial vehicles and hand-held systems for military personnel. Available in 100 mW and 400 mW models at 840, or 860 nm, the MLI is controlled through a serial port and can operate in both CW and QCW modes. Externally controlled brightness and pulsing are available. The MLI is ready to support your mission.

FEATURES

- USES PROPRIETARY VERTICAL-CAVITY, SURFACE-EMITTING LASER (VCSEL) TECHNOLOGY
- IMPROVED EYE-SAFETY FROM VCSELS OVER CONVENTIONAL LASER DIODES
- SPECKLE-FREE, HIGH-QUALITY ILLUMINATION
- LONG RANGE ILLUMINATION CAPABILITY
- FULLY PROGRAMMABLE FOR STAND-ALONE OPERATION OR FLEXIBLE SYSTEM INTEGRATION
- WIDE VOLTAGE ACCEPTANCE RANGE AND INTEGRATED THERMAL CONTROL
- AVAILABLE NIR WAVELENGTHS AT 840/860 NM

For more information contact:
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SPECIFICATIONS

Parameter	MLI-100	MLI-400
Available Wavelengths	840 / 850 nm	860 nm
Laser Output Power	100 mW	400 mW
Conversion Efficiency	+30%	+30%
FWHM Divergence	3°	4°
Technical Data		
Dimensions (LxWxH)	30.9 x 11.5 x 12.5 mm	34.6 x 11.5 x 11.5 mm
System Weight	6 g	5 g
Classification	Class 3B Laser	Class 3B Laser
Input Power	4-40 V	4.5-27 V
Control	strobe and PWM brightness control	strobe and PWM brightness control, optional UART communication

Except as noted, test conditions are 25°C



MLI VCSEL Illumination example featuring superior beam quality with no speckle.



Typical edge emitter laser-based illumination quality with high speckle contrast.



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For more information contact:
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