TELEDYNE | FLIR Defense

MLI-HP

Miniature Laser Illuminator - High Power VCSEL Illuminator

APPLICATIONS

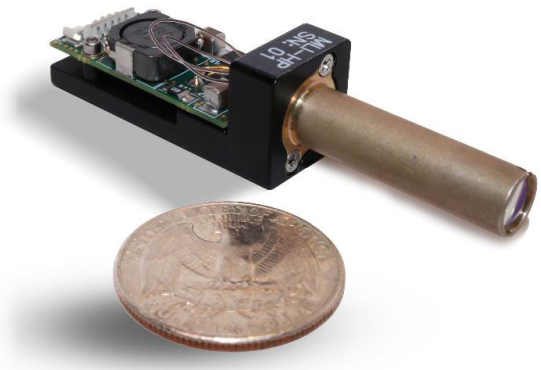
INDUSTRIAL

UNMANNED

HANDHELD

GIMBALED

FIXED MOUNT



Teledyne FLIR's proprietary laser diode technology achieves superior illumination for improved image quality with higher signal-to-noise ratios than competing technologies.

Delivering a low weight, high efficiency, and high reliability package capable of meeting the most demanding applications, MLI-HP is ready to support your mission.

FEATURES

UP TO 499 MW OF 860 NM NEAR INFRARED (NIR) ILLUMINATION

LOW DIVERGENCE BEAM

CONTINUOUS AND CAMERA-SYNCHRONIZED OPERATION

SUPERIOR BEAM QUALITY WITH LOW SPECKLE

For more information contact:
VCSEL@Teledyne.com

SPECIFICATIONS

Parameter	Value
Max Output Laser Power	0.499 Watts
Power Efficiency	35-40%
System Weight	20 grams
Beam Divergence	1- 4° (*fixed to user's specs)
Wavelength (Custom available)	860 nm
Classification	Class 3B
Dimensions	52-65* x 14 x 14 mm
Input Voltage	12 V
Communication	UART or Strobe/PWM



340-meter, moonless night, commercially available CMOS Camera, no laser illumination



340-meter, moonless night, commercially available CMOS Camera, MLI-HP illumination



This document does not contain any export-controlled information. Specifications are subject to change without notice.

This product is subject to United States export regulations and may require US authorization prior to export, reexport, or transfer to non-US persons or parties. Diversion contrary to US law is prohibited. ©2025 Teledyne FLIR Defense, Inc. All rights reserved.

Revised on 11/26/25
MLI-HP Datasheet_LTR_25-0903

For more information contact:
VCSEL@Teledyne.com