NIR Laser Illuminators
40-100 mW TO-46 with Lens

This NIR laser illuminator technology is based on FLIR EOC’s proprietary laser diode technology and achieves superior illumination quality for improved image quality with higher signal-to-noise ratios.

Our proprietary high power Vertical-Cavity Surface-Emitting Laser (VCSEL) arrays provide uniform spatial illumination in a custom-defined illumination pattern with low speckle while delivering low weight, high efficiency, and high reliability.

Applications
- 24-hour persistent surveillance
- Unmanned aerial vehicles
- CCTV Security Illumination
- Handheld applications
- LED replacement

Features
- NIR illumination
- Works with CCD and InGaAs imaging systems
- Continuous and camera synchronized operation
- Superior beam quality with low speckle
- Square and circular illumination patterns
- Low divergence beam
- Optional high brightness laser pointers
- Optional miniature smart drive circuit

FLIR EOC (formerly Aerojet Photronics) is a leading designer and seller of highly-efficient semiconductor lasers, low-noise photodetectors and OEM electro-optical sub-systems for commercial and government applications.

Other FLIR EOC Products
- High-power pulsed and continuous VCSELs
- Miniature laser range-finders and altimeters
- Long range compact rangefinders
- OEM camera sensors
- Infrared detectors and focal plane arrays

Specifications

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>TYPICAL VALUE</th>
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<tbody>
<tr>
<td>Output laser Power</td>
<td>40-100 mW</td>
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<tr>
<td>Power Efficiency</td>
<td>35-40%</td>
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<tr>
<td>Part Weight</td>
<td>1.6 grams</td>
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<tr>
<td>Beam Divergence</td>
<td>2-5°</td>
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<tr>
<td>Wavelength</td>
<td>850 nm</td>
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<tr>
<td>Classification</td>
<td>Class IVB Laser</td>
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