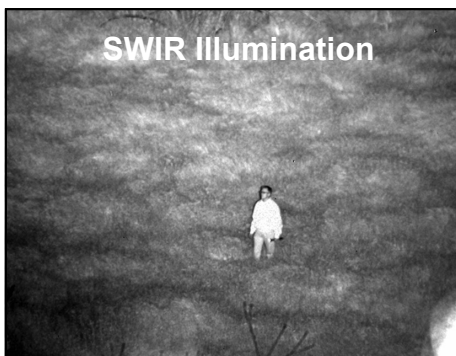


AERIUS™ NIR Illuminators

Aerius Photonics' NIR laser illuminator technology is based on Aerius Photonics' proprietary laser diode technology and achieves superior illumination quality for improved image quality with higher signal-to-noise ratios.

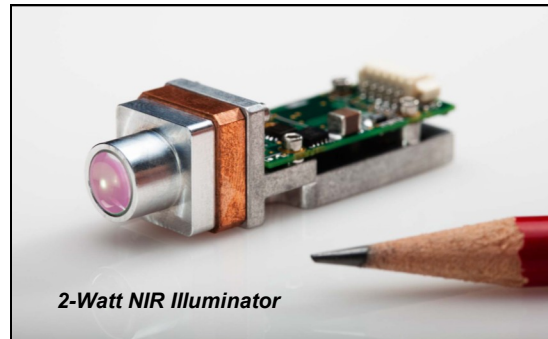
Aerius Photonics' proprietary high power Vertical-Cavity Surface-Emitting Laser (VCSEL) arrays provide uniform spatial illumination in a custom-defined illumination pattern with low speckle. Aerius Photonics' systems achieve low weight, high efficiency, and high reliability.



Short-wave Infrared illumination example featuring superior beam quality with no speckle.

Parameter	Typical Value
Output laser Power	1—4 Watts
Power Efficiency	40%
System Weight	20 grams
Beam Divergence	5 - 20°
Wavelength (Custom available)	940, 1064 nm
Classification	Class IIIB Laser

NIR Laser Illuminators High-brightness, Superior Imaging Quality



2-Watt NIR Illuminator

Features

- NIR and SWIR illumination
- Continuous and camera synchronized operation
- Superior beam quality with low speckle
- Square and circular illumination patterns
- Optional IR laser marker
- Low divergence beam

Applications

- 24-hour persistent surveillance
- Unmanned aerial vehicles
- Counterfeit currency detection
- Handheld applications

Aerius Photonics

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.

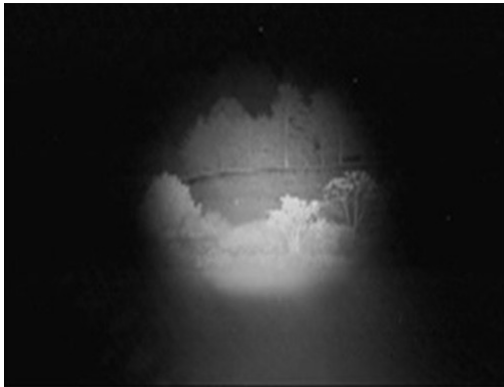
Other Aerius Photonics Products

- High-power pulsed and continuous VCSELs
- Miniature laser range-finders and altimeters
- Long range compact rangefinders
- NIR laser illuminators and pointers
- SWIR camera sensors
- Infrared detectors and focal plane arrays

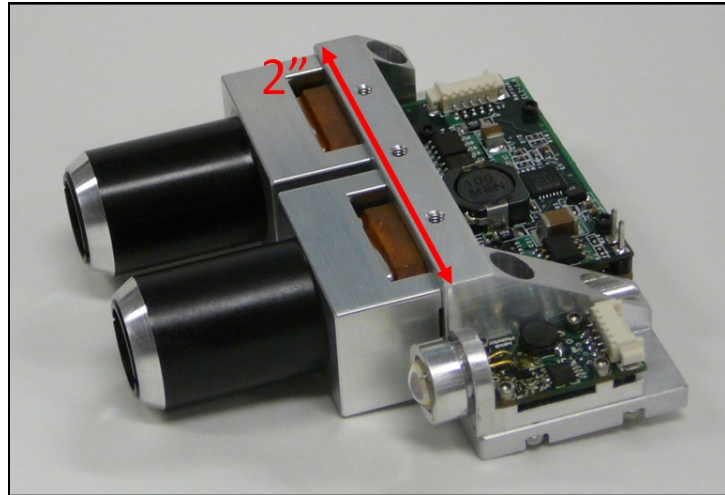
Preliminary Datasheet— specifications may change at any time without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. April 2011.

AERIUS™ NIR Illuminators

4W SWIR Illuminators High-brightness, Superior Imaging Quality



Aerius Photonics' illuminator imaged with a lower magnification. At 2,000 feet in heavy rain (adds image streaking).



Features

- *Aerius Photonics' Illuminator offers improved contrast and puts more of the laser energy into the central region of interest*
- *Prior state-of-the-art illuminator use holographic*
- *homogenized diode laser; a significant amount of laser power is dispersed outside the region of interest and hence is wasted*
- *Integrated IR laser pointer optional*

End Applications

- *24-hour persistent surveillance*
- *Unmanned aerial vehicles*



Aerius Photonics' illuminators have very low speckle compared to the prior state-of-the-art illuminator.

Preliminary Datasheet— specifications may change at any time without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. April 2011.