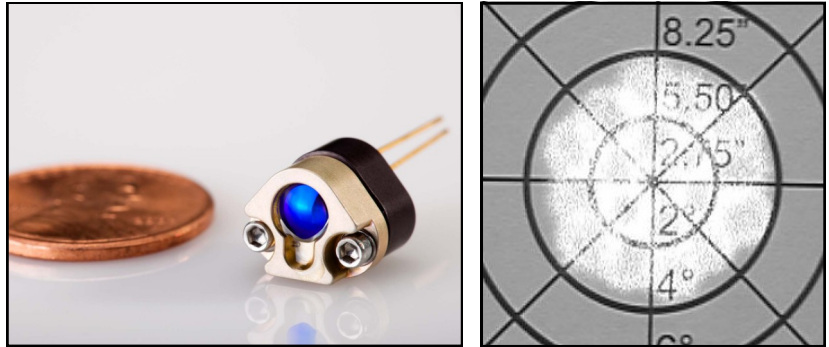


## AERIUS™ NIR Illuminators

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.

### NIR Laser Illuminators 40mW, 60mW and 80mW TO-46 with Lens



#### Features

- **NIR illumination**
- **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**

#### Applications

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

Parameter	Typical Value
Output laser Power	40-80mWatts
Array	19 pixels
Power Efficiency	40%
Part Weight	1.6 grams
Beam Divergence	2 - 5°
Wavelength	850, 885, 940, 1064 nm
Classification	Class IIIB Laser

**Aerius Photonics**  
is a leading designer and seller of highly-efficient semiconductor lasers, low-noise photo detectors 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**
- **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. August 2010.*