

Product Document

Industrial high-power flood illuminator

ams.com/EGA2000



EGA2000 - Industrial high-power flood illuminator

- Delivers highly uniform illumination of the rectangular field-of-view (FOV)
- Multiple field-of-illumination and wavelength options
- Compact design in slim package
- Best-in-class VCSEL and optics enable module efficiency
- Full traceability with unit level track feature (ULT with 2D barcode)

**Sensing
is life.**

General Description

The EGA2000 module is specifically designed for open-space monochromatic infrared high power uniform illumination. The ultra-compact modules are assembled with ams' state-of-the-art opto-electronics component manufacturing processes and are reflow solderable. These modules, using laser illumination, allow improved efficiency, reduced footprint, and overall improved system performance. The EGA2000 can be used for illumination in conjunction with industrial 3D sensing cameras as well as

2D imaging systems for a variety of applications like object dimension detection in robotics and logistics, 3D mapping of the environment for autonomous guided vehicles (AGV) including household robots, 3D face authentication for e-locks and e-payment terminals and illumination in night vision systems. The EGA2000 modules produce high optical output power at either 850nm or 940nm with three field-of-illumination options: 58°x41° (N), 74°x52° (W) and 104°x84° or 102°x85° (UW) FWHM.

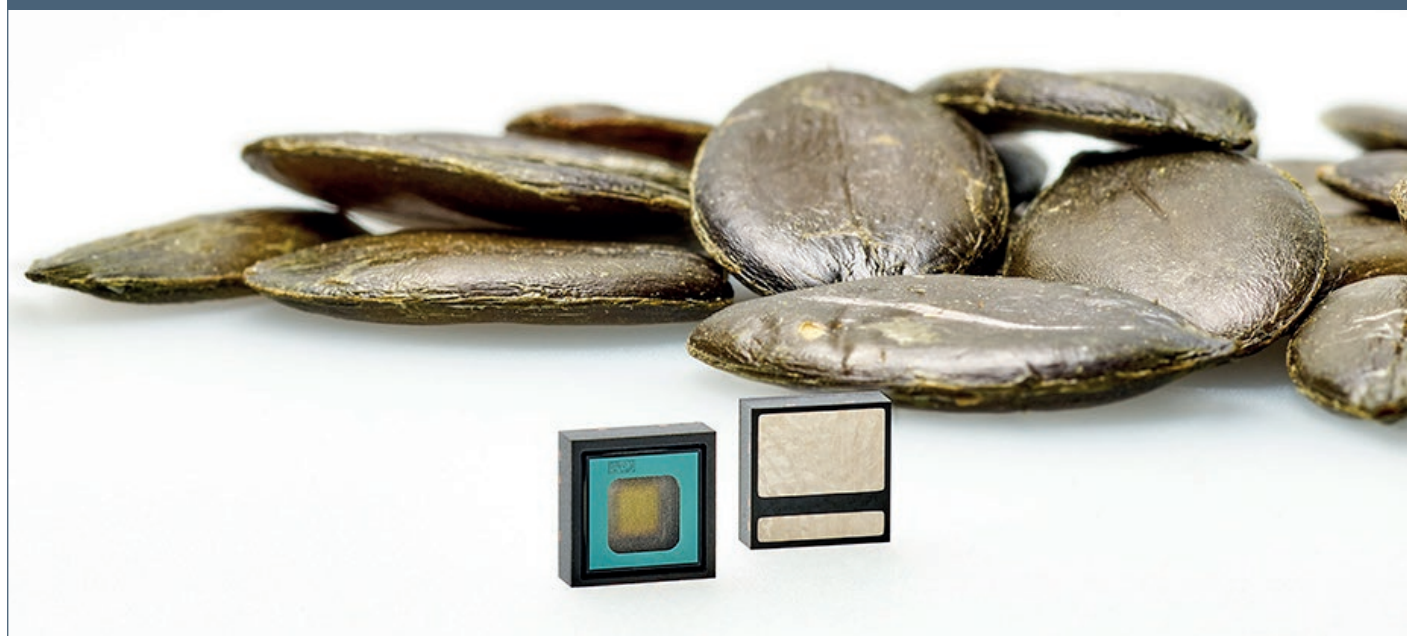
Applications

- Industrial applications using Time-of-Flight and 2D NIR Imaging
- Factory automation: e.g. machine vision, volume measurement
- Home automation: e.g. smart robots, smart speakers
- Smart cities, e.g. smart banking, contactless access control
- Entertainment: e.g. night vision in Wargame

Features

- >4W optical output power in a pulsed mode
- 3 FOI options, 58°x41° (N), 74°x52° (W) and 104°x84° or 102°x85° (UW) FWHM available at both 850nm and 940nm
- Small packaging: 4.1mm x 4.1mm x 1.38mm
- High power conversion efficiency
- Standard lead-free solder reflow compatible
- 2D barcode for unit level traceability

EGA2000



ams.com
 sensors@ams.com
 © 09/2020 by ams
 Subject to change without notice

Headquarters
 ams AG
 Tobelbader Strasse 30, 8141 Premstaetten, Austria
 Phone +43 3136 500-0

Sales Offices Worldwide
 sales-europe@ams.com
 sales-asia@ams.com
 sales-americas@ams.com