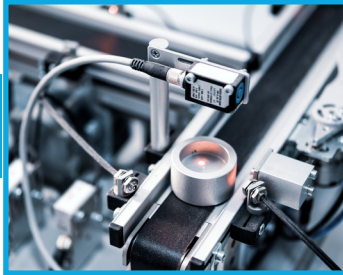


## Industrial Sensors



## EPIGAP OSA Photonics GmbH

is an industrial leader in the field of LED technology based on many years of technological know-how that we continuously develop.

Thanks to their performance, quality and reliability, our innovative optoelectronic products play a key role in many industries and can be found in industrial sensor and automation applications as well as in security technology and in diagnostics, biotechnology and medical technology.

## EPIGAP OSA Photonics GmbH

Köpenicker Straße 325  
12555 Berlin  
[www.epigap-osa.de](http://www.epigap-osa.de)

Phone +49 30 6576 3764  
[sales@epigap-osa.de](mailto:sales@epigap-osa.de)



LED CHIPS

LEDS & PHOTODIODES

CUSTOMIZED  
OPTOELECTRONICS

UV-VIS-NIR

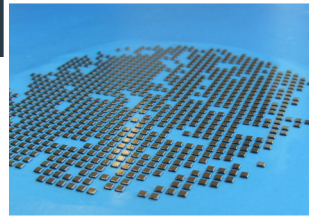


## Medical Technology and Biophotonics

## Safety and Security



## LED-CHIPS



We produce and supply high-end LED chips from ultraviolet to infrared with high efficiency and very good degradation stability.

- Complete chip production under clean room condition class 10.000/100
- AIII-BV semiconductor wafer material  
GaAs | GaP | GaAlAs | AlInGaP | InGaAs
- Capacity of about 50 million chips per year
- Wavelength 255 nm -1900 nm

## SMD-LEDs



Our SMDs meet the requirements of the ongoing miniaturization of electronic devices.

- In-house product line of various SMD types (0805, 1206 high power ceramics)
- Binning of wavelength or radiant power
- Bi-color, RGB or Dublex versions available
- Low power – mid power – high power
- Wavelength 255 nm - 1900 nm

## Chip on Board - CoB customized



We offer CoB modules that can be tailored to the individual application.

Customization includes:

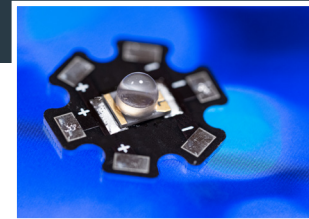
- Definition of optoelectronic targets
- Selection of a suitable substrate material
- Layout and design of the overall module
- Standard platform for up to 7 chips available
- Optics simulation | sample construction
- Qualification and testing | series production

## UV-LEDs



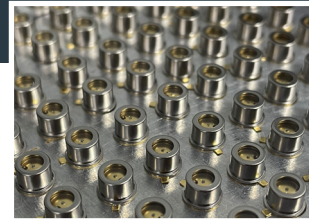
- Production of UV components in-house
- Lifetime up to 10.000 hours | high efficiency and reliability
- Hermetically sealed TO-Packages with flat window or lens cap
- UVC & UVB wavelength  
255 nm | 265 nm | 275 nm | 308 nm | 325 nm | 340nm

## High power SWIR-LEDs



- Size 6.0 (L) x 4.6 (W) x 4.3 (H) mm
- Circuit substrat: AlN Ceramics
- Lens with 20° viewing angle
- up to 400 mW output power
- Wavelength 1040 nm- 1900 nm

## TO-LEDs for encoder & sensors



- High-power, high-speed infrared LED
- Hermetically sealed TO-46 package
- Mounted on reflector header for beamforming
- Peak wavelengths 810 nm | 850 nm | 880 nm
- Operating temperature -40° - +120°C