



THE OPTICAL
SENSOR SPECIALIST



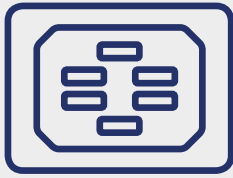


Optoi Microelectronics is the Optoi Group company specialized in the development and production of **optoelectronic components** and **smart optical sensors**.

With over **20 years** of experience in microelectronic technologies, Optoi has a total control of the supply chain ranging from the production of silicon wafer through the assembly of microelectronic component in **cleanroom ISO 6**, until the production, testing and selling of smart microelectronic and electronic sensors.

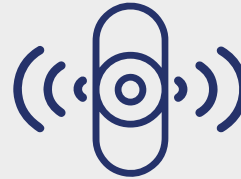
Optoi Microelectronics convey **substantial innovation** as a leading player in the innovation ecosystem of Trentino-Südtirol, in the North-East of Italy, the so-called "Silicon Valley of the Alps".

PRODUCTS



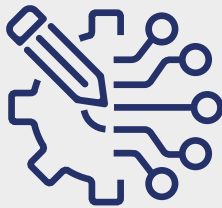
COMPONENTS

Photodiode arrays, Phototransistor arrays, Optical Fiber Receivers, Reflective Sensors, LED.



SENSORS

Optical single position sensors, Optical absolute position sensors, Inclometers and Vibration sensors.



CUSTOM SOLUTIONS

Optoi is your partner for the development and the production of custom solutions.

Feasibility

Development

Certification

Industrialization

Production

Microelectronics

Electronics

Test 100%

Customer

ISO 9001:2015



COMPONENTS

Optical Detectors for

- rotational speed
- angular position
- direction
- linear position
- absolute position and number of cycles/turns

PhotoASICs for

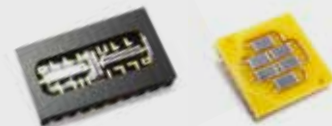
- fieldbus SERCOS II optical communication devices
- building automation system
- optical data transmission

SENSORS

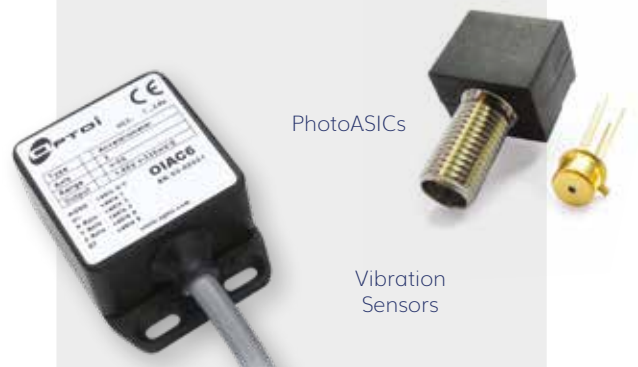
Accelerometers for

- vibration measurement for industrial equipment "Industry 4.0"
- inclination measurement for industrial automation
- vibration measurement on wind turbines

INDUSTRIAL PRODUCTS



Phototransistor and Photodiode
Arrays for angular
and linear optical encoders



PhotoASICs

Vibration
Sensors



SENSORS

Optical Position Sensors (single / absolute) for

- steering cylinders
- stabilizers
- telescopic cylinders

Inclinometers for

- aerial platforms
- construction equipments
- agricultural machines
- overturn alarm systems
- CPV Solar farms
- forestry machines
- cranes

MOBILITY & OFF-HIGHWAY PRODUCTS

Optical Position
Sensors



Inclinometers





Relevant accreditations in the aerospace industry have been achieved, thanks to continuous improvement in the internal methodologies of the microelectronic assembly.

COMPONENTS

Optical Detectors for

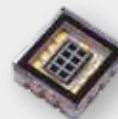
- rotational speed
- angular position
- acceleration and number of cycles
- actuators of control moment gyros, part of motorized gimbals of last-generation satellites

Optocouplers for

- electrical circuits, where one sector has to be isolated (galvanic isolation)

Optoi has become formal member of ESA's Photonic Working Group since March 2019.

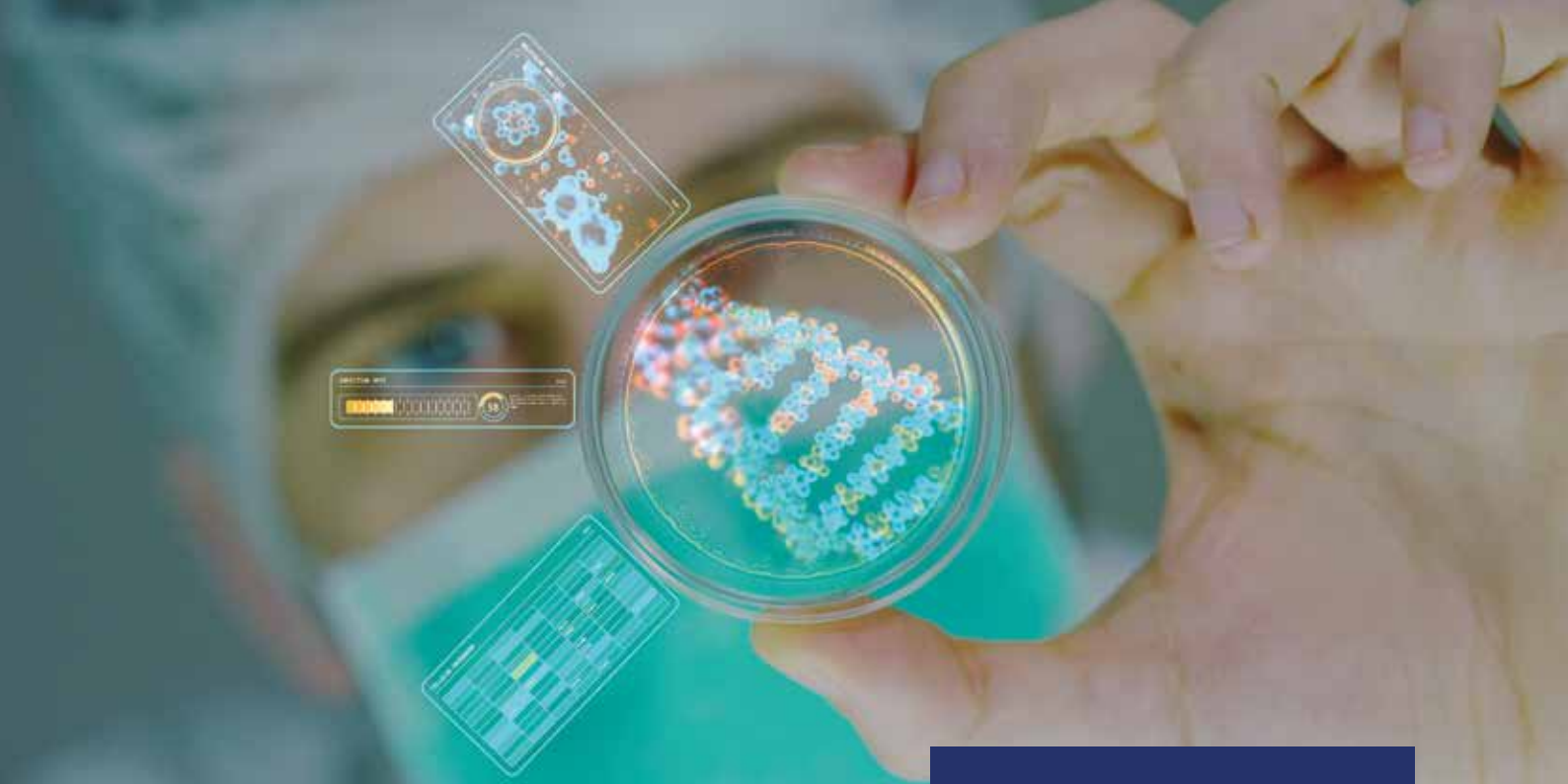
AEROSPACE PRODUCTS



Ceramic package Photodiodes and Phototransistor arrays for angular optical encoders



Ceramic LCC packaged components



COMPONENTS

Optical Sensors for

- innovative medical instruments
- human blood measurements

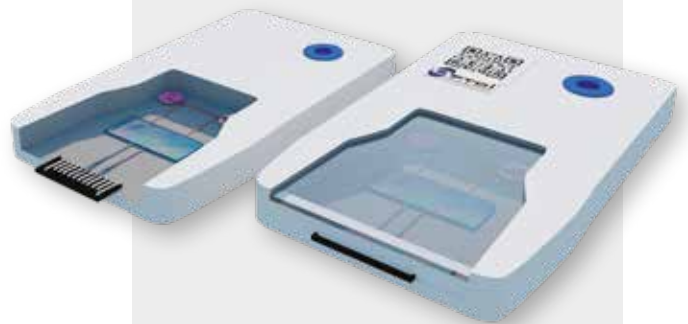
SENSORS

Optical Biochip for

- molecular diagnostics

Focus on a patent pending biochip designed for the rapid analysis of nucleic acids (microRNA).

BIOMEDICAL PRODUCTS



Optical Biochip

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