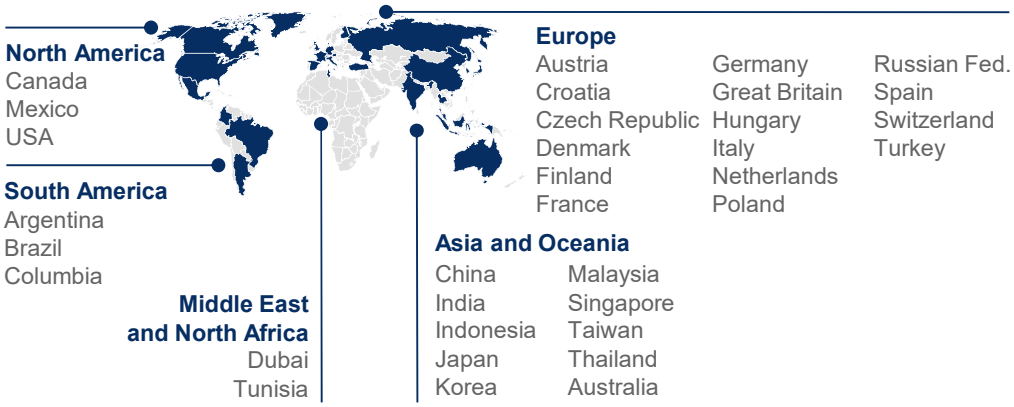
A New Kind of Structured Glass Plates

Overview of Laser-Structuring & Interstitial Deposition Technology

SCHOTT is a leading global manufacturer of specialty glass, glass-ceramics, and other advanced materials

Worldwide presence in 34 countries

43 production sites / 26 sales offices



North America
Canada
Mexico
USA

South America
Argentina
Brazil
Columbia

Middle East and North Africa
Dubai
Tunisia

Europe
Austria
Croatia
Czech Republic
Denmark
Finland
France
Germany
Great Britain
Hungary
Italy
Netherlands
Poland
Russian Fed.
Spain
Switzerland
Turkey

Asia and Oceania
China
India
Indonesia
Japan
Korea
Malaysia
Singapore
Taiwan
Thailand
Australia

Our goal is sustainable growth

FY 2020/21

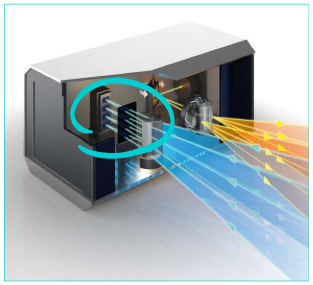
2.52 billion EUR
Global sales

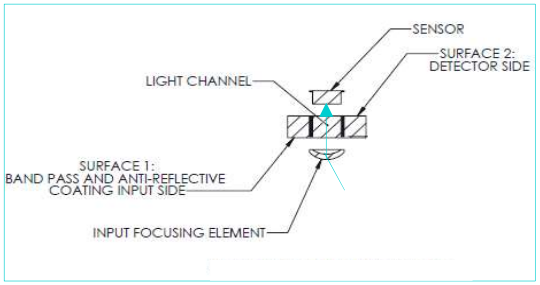
17,300
Employees

Broad product portfolio for various markets

SCHOTT
glass made of ideas

Use case: Photon management in LiDAR sensors via stray-light blocking





- Photodetector arrays are one of the most needed feature of next generation LiDAR sensors to improve spatial resolution
- What if we could make an optically transmissive structure that allows one-to-one registration with sensor pixels…
- … and improve the SNR[1)] by applying an interstitial deposition to optically isolate sensor pixels?

1) SNR – signal-to-noise-ratio

Laser-structured glass plates can improve your detector performance

Optical

1-to-1 pixel registration & maximum fill-factor

Highly efficient reflective/ absorptive solutions

Integration with band-pass filters possible

Mechanical

Customizable format size & shape

Variety of thickness and material options

Structure design freedom

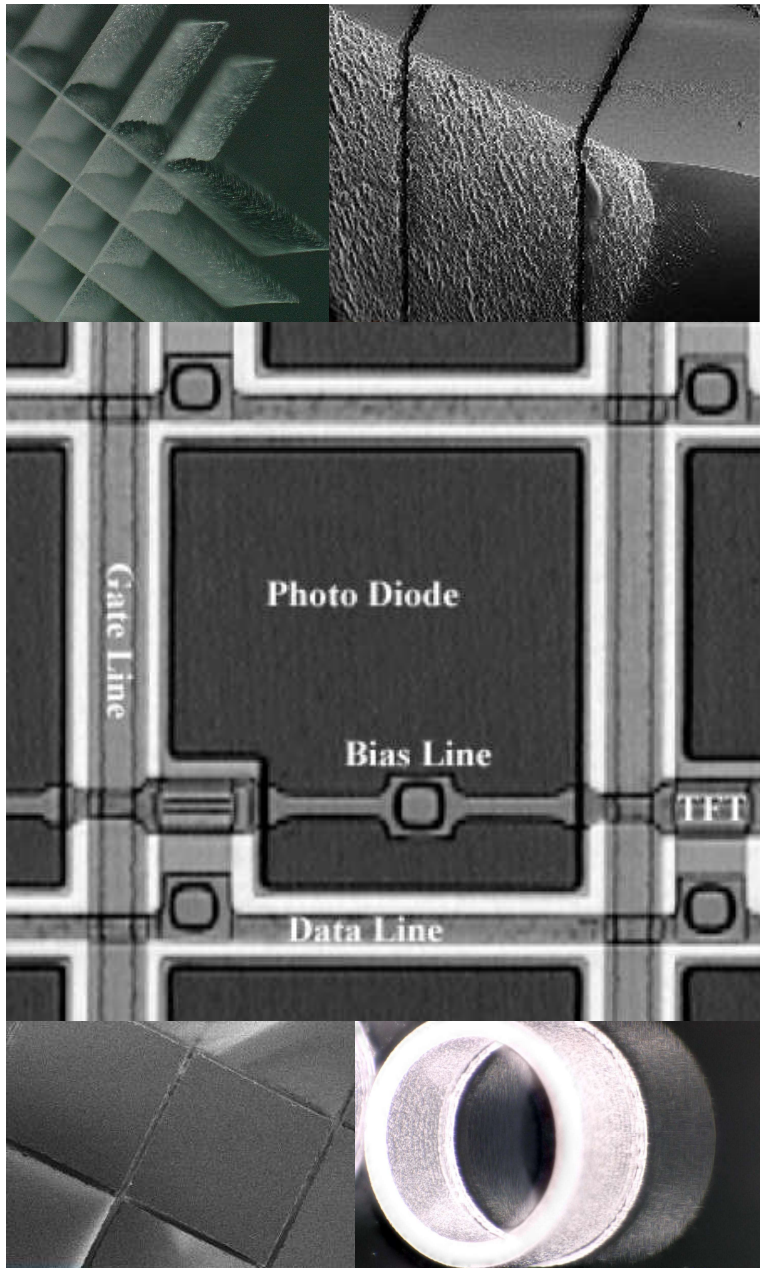
Business

Highly repeatable processing

Scalable for high volumes

Cost-effective wafer level optics

Please contact us, if you are looking for a partner with deep optical know-how on LiDAR sensors.



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