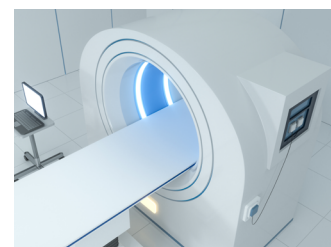


# TE SENSORS SOLUTION IMAGING & PACKAGING

Sensors are everywhere – from the cobot working next to you in the factory, to the machine measuring your vital signs, to the vehicle transporting you safely. TE Sensors seamlessly connects people, machines, and the world, so we can all lead better lives. We serve as co-creators with you, providing innovative approaches to solve your critical sensor system imaging and packaging challenges, and to enable new possibilities and create a better tomorrow. We work together with you to plan, develop, and guide your entire sensor system project, tailored to your requirements. And we offer a wide range of solutions from application-optimized packaging platforms to developing customized assembly solutions.



## Industries and Applications

With more than 30 years of experience in back-end processes to the semiconductor industry, TE Sensors is uniquely qualified to develop and assemble image sensor and opto-electronic components including complex multi-chip modules and systems. And we understand the challenges and special requirements of the automotive, medical, and industrial markets.

**We offer deep industry and application expertise.**



## Ideas

Whether you already have the full specifications for your image sensor assembly or merely a rough idea, our experts can help you design the right solution from a technology, implementation, and cost perspective. We bring deep expertise in all aspects of production engineering and manufacturing, and are eager to share this experience with you in a long-standing and trusting partnership.

**Let's talk about your challenges and ideas.**



## Requirements-oriented analysis

We specialize in customized development and production of image sensor and opto-electronic-based solutions. Our highly qualified planning and manufacturing experts can help shape the entire value chain at in-house production sites – from the bare-die on your wafer to the final product qualification. Together with you, we can develop optimal solutions for your successful applications and unique selling propositions.

**We support your specific applications.**

### Wide-ranging platform portfolio

Our assembly and packaging technologies are renowned for their efficiency and accuracy, and we pride ourselves on the technical excellence, precision, and reliability of our solutions. Our assembly platforms have been specially optimized for the demands of your applications and can also be adapted individually as required.

**We have the expertise you need.**

### TE's packaging platform

Our Engineering and Operations teams are specialized in designing and implementing individually tailored solutions based on application-specific packaging platforms. Components, modules, and sensor systems are developed in close collaboration with you in a Stage-Gate-Process®. Our packaging platform solutions include:

- Image Sensor device in ceramic package (PGA, LCC, QFP, and more)
- Image Sensor device or module on PCB FR4
- Tiled sensor assembly of large-scale CMOS image sensor dice for digital XRAY panels & endoscopes
- Tiled sensor assembly of small image sensor dice for CT, MRT, PET scanning systems
- Line scan image sensor with ultra-precise (positioning, warpage, flatness) assembly for high-speed vision systems

**We offer individually tailored solutions.**

### Production and quality assurance

Utilize our flexible production capacity in clean rooms from ISO class 8 to class 5 – from rapid prototype manufacture via medium-sized production quantities, to cost-efficient order-based production of millions of units. We offer development, validation, qualification, and reliability approval work, together with production and testing, in accordance with the strictest quality standards and certifications specific to your sector. Our production sites also offer application-specific measurement technologies and mastery of various calibration methods.

**We offer flexible production options.**

### Implementation

Our products and processes are individually tailored to your unique requirements, offering long-term availability and a high level of specialization. And you can rely on our proven project and product management to guide you from ideation through implementation. We are a reliable partner who can also serve as co-creators with you, developing innovative imaging and packaging solutions to help you make your ideas a reality.

**Together we enable new possibilities.**

