



Fraunhofer

IIS

FRAUNHOFER INSTITUTE FOR INTEGRATED CIRCUITS IIS

Sensor Characterization

Professional Camera Solutions

High Quality Image Processing Algorithms
Imaging
Implementation
Embedded Hardware Design

INNOVATION ON DEMAND

How would you find it if you needed just a single partner to solve your problem, implement your idea, and introduce it to market?

**Not possible?
It is! Just ask Fraunhofer.**

Thanks to our many years of experience in the areas of image processing and camera technology; our wide network of partners from industry, trade, and public institutions; as well as our comprehensive in-house capacities, we can offer you customer-specific solutions from a single source. You can be sure that our solutions always follow the state of the art and will tread new paths.

You have an idea, but do not know whether it is realizable or marketable?

Talk to us – we will be happy to advise you,

help you in your search for a solution, or carry out a feasibility study beforehand to protect you from unwanted risks. Our technical infrastructure allows us to carry out a specific analysis of your problem and to test its feasibility.

Whether in a small project team, a larger working group, or a cooperation of several regional or international partners – collaboration with us can take many forms. This is guaranteed by our strong and flexible network structures.

What else you can expect from us:

Complete development of hardware platforms and camera systems is part of our core competences.

This includes concept development, circuit design, layout, and commissioning of the working model or prototype (proof of concept).

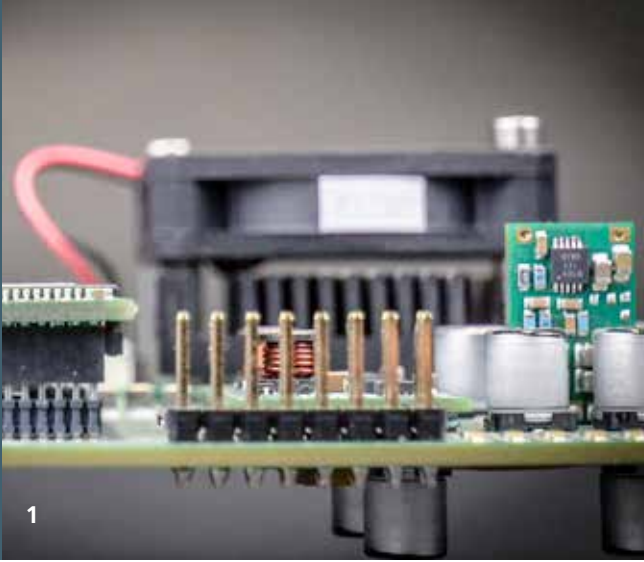
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Our services at a glance

- System design development
- Simulation and validation
- Soft- and hardware development
- Prototyping
- Special sensor integration and signal processing algorithms
- Sensorfusion

Here are some examples of our project work:

VENPIRE® – a powerful embedded platform for industrial, medical, and security applications. Its compact system design, the strong computing power, and the integration of any image sensors you may require offer you the flexibility that you need to achieve what's expected of you tomorrow.

Endocam® – a digital camera platform that can be used for various endoscopic operation techniques and which offers excellent picture quality as well as convenient operation (developed in conjunction with R. Wolf GmbH and available in various device variants).

POLKA – a polarization camera that can measure mechanical tension in transparent material. It can be used for such applications as quality control in inline glass testing.

1 VENPIRE® Versatile Embedded Platform for Image Recognition

2 Polarization camera prototype POLKA

For more information, please visit:

WWW.IIS.FRAUNHOFER.DE/IMAGING