Your advantages of working with Fraunhofer as a development partner

Technology and medicine

Our close cooperation with hospitals and physicians gives you access to medical expertise and a broad patient base. In this way, we ensure that our developments are perfectly adapted to the requirements of medical professionals and everyday care.

Our added value for you

We combine know-how from medicine and technology. We draw on a broad technology portfolio and expertise along the signal processing chain and translate this into a product that gives you a sustainable competitive advantage.

Our promise

With our technical expertise in sensor development, sensor integration and data analysis, we develop innovative solutions that we complete together with you within budget and in time.

Strong partners at your side

We offer you a comprehensive infrastructure as well as laboratories with medical reference systems and conduct technical validation studies, also in cooperation with clinical partners.

Fraunhofer Institute for Integrated Circuits IIS

Management of the institute
Prof. Albert Heuberger (executive)
Prof. Bernhard Grill
Prof. Alexander Martin

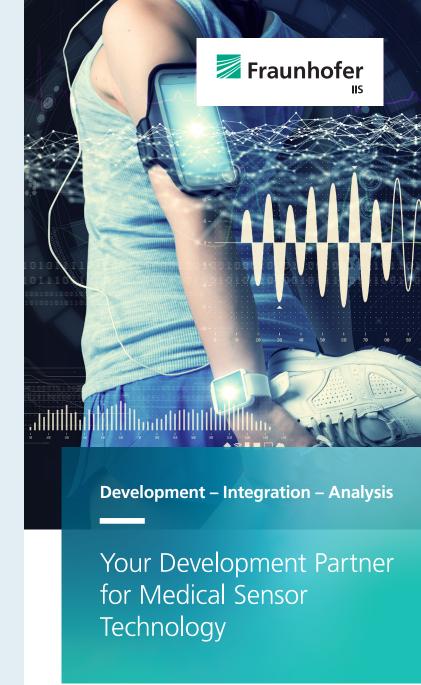
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www.iis.fraunhofer.de/medical-sensors



CardioTEXTIL: ECG in medical quality for the cardiology

Our value proposition: Medical sensors for the detection and analysis of biosignals

As your partner for research and system development we accompany you in the transformation process into digital medicine.

We combine our key competencies for you in medicine and technology along the entire development chain and design for you an individually customized sensor system for the acquisition and analysis of biosignals.

Integration of motion sensors in seating surfaces to analyze movement and activity

- Textiles with integrated sensor technology for recording of ECG, pulse or respiration
- Integration of sensor electronics in vehicles or objects in the everyday environment for regular recording of Biosignals

Our promise: We accompany you from the first idea to the product

Conception

- Technology & feasibility research
- Market and competitor research
- User interviews
- Requirements analysis and system specification

Solution development

- Lab sample development
- Sensor integration and rapid prototyping

Motion sensor technology in seating and reclining surfaces

- Analysis algorithm development
- Data analysis and signal processing

Feasability study

- Measurement campaigns and pilot studies
- Proof-of-concept evaluation
- Subject studies to evaluate the technology

Functional prototype

- Prototype development
- Technical documentation
- Risk management and test reports

Series development

- Design transfer and handover of technology to producers, e.g. to
 - Electronics manufacturers
 - Software and app developers
 - Textile manufacturers