

PRESS RELEASE

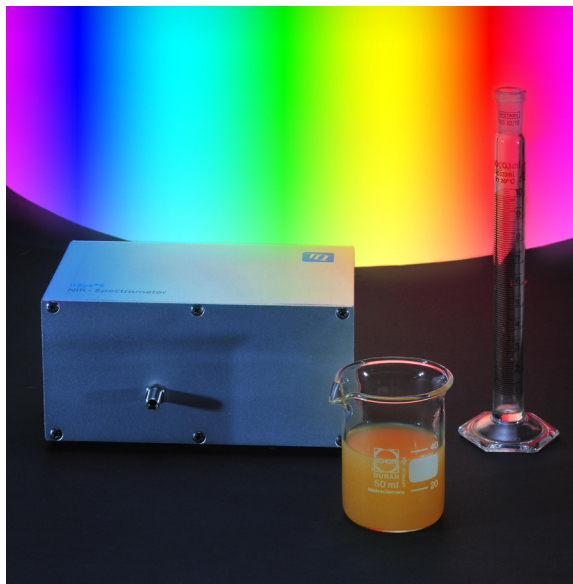
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Fraunhofer ENAS presents mircospectrometer of the second generation at the HANNOVER MESSE 2013

Visitors can test directly microspectrometers at the booth of Fraunhofer ENAS C50.16 in hall 17 on the HANNOVER MESSE.

The NIR spectrometers developed by Fraunhofer ENAS have been successfully launched into the market. Now, the research institute presents a second generation MEMS spectrometer at the HANNOVER MESSE 2013. It has been developed together with TQ Systems GmbH in Chemnitz/Germany and works in the middle infrared range from 2.4 to 4.9 μm . The spectrometer scans with an accuracy of 2 nm and features a high spectral resolution of 20 nm as well as a signal-noise-ratio of 1000:1. The main applications are condition monitoring and analyses of fluids, gases and solids.



Fraunhofer ENAS has developed MOEMS based NIR and MIR spectrometers together with TQ Systems GmbH. Photo © TQ Systems GmbH | Source of photo, colored and printable: www.enas.fraunhofer.de/en/news_events/presse_uebersicht.html

IN COOPERATION WITH



InfracTec

Editorial notes

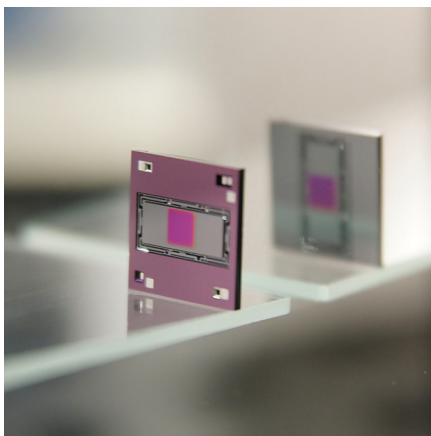
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FRAUNHOFER INSTITUTE FOR ELECTRONIC NANO SYSTEMS ENAS

Fraunhofer ENAS presents a second microspectrometer based on Fabry-Pérot filters. The system has been commonly developed by Fraunhofer ENAS, the Center for Microtechnologies at the Chemnitz University of Technology and InfraTec GmbH in Dresden/Germany. The FPI detector can be applied in small mobile measurement and monitoring systems for analysing gases.

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The spectrometer is based on tuneable Fabry-Pérot filters. The FPI detectors are offered by InfraTec GmbH at the market.

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Researchers of Fraunhofer ENAS will present both spectrometers in the session Smart Optical Systems at the Forum Micro Technology – Innovation for Industry – in hall 17 on Tuesday, April 9, 2013. The spectrometers will be shown at the booth of Fraunhofer ENAS C50.16 in hall 17 on the IVAM Product Market.

Furthermore, Fraunhofer ENAS shows systems for condition monitoring of machines and environments as well as high-precision micro sensors.

The **Fraunhofer-Gesellschaft** is the leading organization for applied research in Europe. 66 institutes and independent research units work at present in Germany. More than 22,000 staff work with an annual research budget of €1.9 billion. Of this sum, more than €1.6 billion is generated through contract research. More than 70 percent of the Fraunhofer-Gesellschaft's contract research revenue is derived from contracts with industry and from publicly financed research projects. Affiliated international research centers and representative offices provide contact with the regions of greatest importance to present and future scientific progress and economic development.

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