

Press release

January 2019

Hertzstück™ NIR detector array modules for spectroscopy

- PbS detector array modules for wavelengths from 1 to 3 μm
- 256 pixels with a pixel pitch of 50 μm
- Highest detectivity at room temperature
- High stability and long lifetime through thin-film encapsulation

During SPIE Photonics West 2019, trinamiX presents the Hertzstück™ infrared detector array modules. The modules comprise a 256 pixel array and a corresponding read-out electronics in a hermetic P28 package. The Hertzstück™ PbS array modules come with an efficient and cost-saving single stage thermoelectric cooling. Deep cooling is not required, as the modules' detectivity at room temperature is above $1 \cdot 10^{11} \text{ cm} \cdot \text{Hz}^{1/2} / \text{W}$. The modules work with framerates up to 1 kHz and have an analog multiplex output. Their low power consumption makes Hertzstück™ PbS array modules the ideal solution for mobile applications such as handheld spectrometers. To meet highest product quality standards, trinamiX guarantees 100% quality control before delivery.

Customization possible

trinamiX also offers customer-specific detector arrays and array modules. The detector designs can be customized to the applications ranging from 1 to 512 pixels and pixel pitches starting from 50 μm . The detector arrays are available as bare chip but also in hermetic package and with thermoelectric cooling. In addition, integration of various filters and optics is possible.



Hertzstück™ NIR detector arrays

About Hertzstück™

Hertzstück™ is a brand of trinamiX GmbH, a spin-off and wholly owned subsidiary of BASF SE. trinamiX GmbH was founded in 2015 and is based in Ludwigshafen, Germany. We offer standard and custom-engineered products in the field of infrared (IR) detection. The infrared detectors Hertzstück™ are developed and completely manufactured at a production site in Ludwigshafen, Germany. Detailed specifications can be found at www.hertzstueck.de.

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