
Press release

25 September 2024

ANDANTA-NEWS:

InGaAs-Matrix Sensor with 1280x1024 Pixel Resolution and 15 μm Pixel Size

ANDANTA is launching a high-resolution InGaAs matrix sensor with a pixel resolution of 1280x1024 and a pixel size of 15 μm^2 at VISION 2024.

Thanks to the use of InGaAs planar technology, a quantum efficiency of > 70 % is achieved in the spectral range from 0.9 μm to 1.7 μm . The typical pixel operability is > 99.5 %.

The sensor can be operated with either 2, 4 or 8 outputs. At 22 MHz pixel rate and in operating mode with 8 outputs, the sensor achieves a full image readout rate of 100 Hz nominal. When reading partial images, a readout rate of up to 48 kHz is achieved.

The integration of a 2-stage thermoelectric cooler and a temperature sensor enables a chip operating temperature of -40 °C within the sensor housing for low noise. The sensor is packaged in a Kovar metal SDIP housing with 32 connections.

Applications of the sensor range from high-resolution near-infrared imaging in machine vision, recycling and security technology to near-infrared astronomy and science.

The data sheets of the new InGaAs matrix sensor 1280x1024, as well as other InGaAs matrix and linear sensors, can be found on the ANDANTA website at:

<https://andanta.de/ingaas-detektoren/>

Visit us at VISION 2024 in Stuttgart. You will find ANDANTA in Hall 10, Stand 10H51.

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