Uncooled infrared imaging arrays and systems

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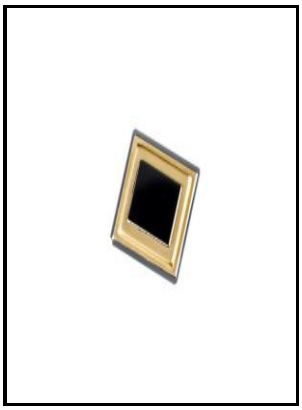

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A CO 2 laser emitting 10. . Although its NETD is higher at 84 mK, the thermal time constant improved to 12 ms.

BAE Systems unveils high

These bolometer-based uncooled sensors are typically designed to work in the longwave infrared LWIR band 7μ-14μ. The image data is then sent to a display 170 to generate an image representing the scene.

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Because of the detector principle they reach a good thermal resolution, but due to the specific detector material and the needed cooling they are very expensive and almost exclusively used for military applications. With no IR illumination, at top, reflection from a probe source peaks at one wavelength, in the blue. The whole micro-lens array consisting of circular Si pillars is directly fabricated on the Si wafer using single step photolithography and standard etching process, which is easy to realize mass-production.

ShieldSquare

Interfaces 5 15 , 7094—7100 2013. This book is an introduction for both professionals and students. The LWIR metasurface micro-lens array with subwavelength thickness is fabricated on the silicon wafer using the processes that are completely compatible with the standard integrated circuit technology.

Infrared Imaging

SPIE, 8012, 80121A 2011 ; doi:10. Flexible - Read on multiple operating systems and devices. In this work, we design a 60 × 60 transmissive LWIR micro-lens array with a pitch of 100 μm and focal length of 100 μm for each micro-lens.

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Since 1991, he has also served as the Physics Division's Associate Director. Skatrud held a Post Doctoral appointment as a research associate and instructor with the Physics Department at Duke University from 1984—1985.

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