



Leading Manufacturer of Uncooled IRFPA

InfiRay® released a 10-micron 1280×1024 uncooled infrared FPA detector in early August 2019, which has the world's smallest pixel pitch to date.

The VOx detector has integrated 14-bit digital output on the chip. It continues the InfiRay®'s feature of high sensitivity. At 30Hz working frame rate, the NETD is better than 40mK; The ultra-large array of 1280×1024 and the ultra-small pixel pitch of 10 microns can provide clear and detailed infrared images in a large field of view, which are very suitable for the application scenarios, such as border security and homeland defense.

This is a new milestone in China's infrared industry.



10-micron real shot



10-micron real shot

Model	RTDS101M
Detector Type	Uncooled VOx infrared detector
Spectral Band	LWIR , 8~14μm
Pixel Pitch	10μm
Array Size	1280 × 1024
NETD	≤50mK (@f/1.0 , 30Hz , 300K)
Thermal Time Constant	<10ms
Frame Rate	≤60Hz
Power Consumption	< 450mW(at 30Hz, 300K, low power mode)
Digital Output	14bits
Operating Temperature	-40°C ~ +85°C
Package Method	Metallic vacuum package
Package Size	41 × 31.5 × 8.31mm ³ (without pin)
Weight	≤50g

Product consulting

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