

SenS 1280

HIGH DEFINITION, HIGH SENSITIVITY SWIR



SIERRA-OLYMPIC
Technologies Inc.

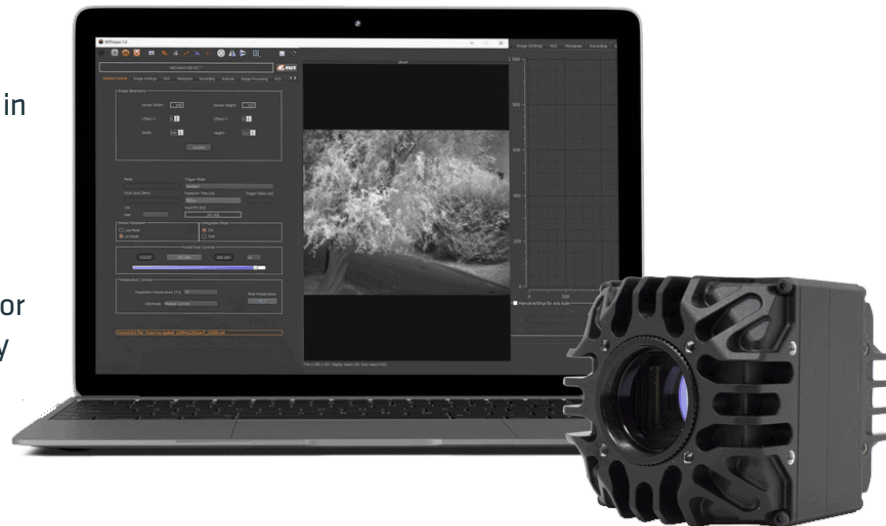


The SenS 1280 is an industry-leading SXVGA resolution short-wave infrared camera core that delivers high sensitivity and low noise imaging for a wide range of specialty applications.

- + 1280 x 1024 x 10 μm InGaAs sensor
- + Linear response delivers high sensitivity
- + Readout noise 30 e-
- + Near infrared imaging from 900-1700 nm
- + Bad Pixels Replacement and Non Uniformity Correction

With a 10 μm SXGA resolution sensor and high-sensitivity linear response, the Sens1280 is a powerful SWIR infrared camera core ideal for applications that require industry-leading performance at a competitive price. SenS 1280 delivers high-resolution digital SWIR imaging capabilities on a variety of digital video standards in a rugged and compact package.

SenS 1280 is developed by the SWIR specialists at New Imaging Technologies. As an authorized reseller, Sierra-Olympic Technologies offers superior service and integration capabilities on these highly capable InGaAs specialty cameras across QVGA, VGA, and HD resolutions.



Applications

- + Active imaging
- + Laser beam profiling
- + Manufacturing inspection
- + Security, surveillance, defense
- + Process control/monitoring
- + Metrology
- + Solar, semiconductor inspection
- + Medical imaging

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Feature Specs

FOCAL PLANE ARRAY

Detector type	SWIR InGaAs
Array size	1280 x 1024
Pixel pitch	10 μ m
Spectral band (approx)	0.9-1.7 μ m

STANDARD FEATURES

Response mode	Linear (CTIA) low and high gain
Modes	IWR/ITS, CDS, ROI
Frame rate	60 Hz full frame
QE	>85% LG
Partial reading mode	ROI, selective line scanning
Dynamic range	52 dB typical in CTIA (High Gain) with CDS
	61 dB typical in CTIA (Low Gain)
Sensor noise	<30e- in CTIA High Gain
	<120e- in CTIA Low Gain
Full well capacity	>10Ke- (CTIA High Gain)
	>130Ke- (CTIA Low Gain)
Dark current	Typical 50ke-/pix/s
Lens mount	C-Mount native
GUI	NITVISION
SDK	USB WIndows and Linux
	Software or hardware
Trigger	- 1x Trigger IN/OUTPUT
	- 2x Programmable outputs
	Selectable delay
ADC	14 bits



ENVIRONMENTAL

Operating temp range	-40°C to 71°C
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DIMENSIONS (NO LENS)

Size	58 x 58 x 70 mm
Weight	< 400 grams

Export classified as dual-use

Specifications and descriptions subject to change without notice.