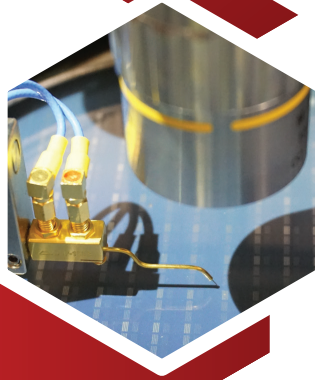


**NEW RELEASE**



# SenS 1280

## High Sensitivity SWIR camera

1280x1024 Pixels Resolution 10 $\mu$ m Pitch  
Near Infrared Imaging up to 1700nm  
Read-out noise 27e-



**niT**

New Imaging Technologies

[www.new-imaging-technologies.com](http://www.new-imaging-technologies.com)

## ▶ Key Features

- ☐ Linear response mode: High sensitivity
- ☐ High QE InGaAs from 900nm to 1700nm
- ☐ SXGA resolution , 1280\*1024 pixels
- ☐ Bad Pixels Replacement and Non Uniformity Correction
- ☐ USB3.0 & CamLink (July) interface

## ▶ Applications

- ☐ Active Imaging
- ☐ Laser Beam profiling
- ☐ Metrology (microscopy, hyperspectral)
- ☐ Process control (industry, semiconductors, food, ...)
- ☐ Defense and security
- ☐ Airborne cameras (UAV)

*Imagine yours...*

## ▶ Technical Specifications

Sensor	NSC1901-T-SI
Material	InGaAs
Resolution	1280 x 1024 pixels
Pixel size	10 μm x 10 μm
Spectral response	0.9 to 1.7 μm
Response	Linear (CTIA) Low & High Gain
Modes	ITR, CDS, ROI
QE	>85%
Output	USB3.0 - CamLink (July)
Frame rate	60Hz full frame

Partial Reading Mode	ROI
	Selective line scanning
Integration Time	10 μs to 220ms
Trigger	IN/OUT (LVTTTL)
Trigger delay	Adjustable
Dimensions	58 * 58 * 70 mm
Weight	< 400 g
Lens mount	C-Mount native
Operating Temp	-40 °C to + 71 °C
GUI	NITVISION
SDK	USBWindows & Linux

### Operating Modes

	CTIA High Gain	CTIA Low Gain
Sensor Noise	typ. 27e-	155e-
Well capacity	> 11Ke-	> 210Ke-
Dynamic Range	52dB	62dB

Products and specifications are subject to change without notice.