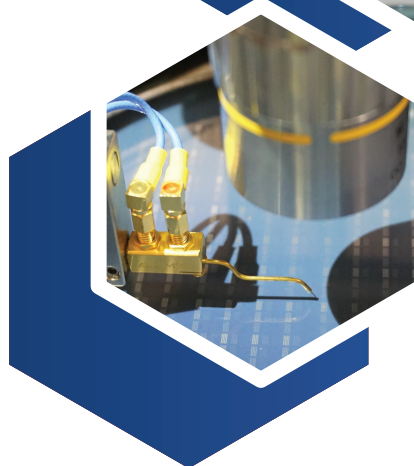


HiPe
Sens

It makes SenSe!



HiPe Sens

High Performance Air-Cooled SWIR camera

Low Dark current for Long exposure applications

640 x 512 Pixels Resolution 15 μ m Pitch

SWIR Imaging from 0.9 to 1.7 μ m



NIT

NEW IMAGING TECHNOLOGIES
PREMIUM SWIR BY LYNRED

www.new-imaging-technologies.com

▶ Key Features

- ☐ TEC & fan aircooled
- ☐ Long exposure time
- ☐ High QE InGaAs from 900nm to 1700nm
- ☐ VGA resolution , 640x512 effective pixels
- ☐ Bad Pixels Replacement and Non Uniformity Correction
- ☐ USB3.0 & CameraLink interface

▶ Applications

- ☐ Medical & Life Science
- ☐ Metrology (microscopy, hyperspectral)
- ☐ Process control (industry, semiconductors, food, ...)
- ☐ Surveillance
- ☐ Photon counting

Imagine yours...

▶ Technical Specifications

Sensor	NIT's NSC1902T-SI	Sensor Noise	<40e ⁻
Material	InGaAs	Dark current Value	<1500 e-/pixels/s @-20°C
Resolution	640 x 512 pixels	Operating Mode	TEC2 + Fan aircooled
Pixel size	15 μm x 15 μm	Cooling capacity	Δ50°C
Spectral response	0.9 to 1.7 μm	Trigger	IN/OUT (LVTTTL)
Response	Linear, 3 gain levels	Trigger delay	Adjustable
Modes	IWR/ITR, CDS, ROI	Dimensions	46 x 57 x 112 mm
QE	>85% (90% typical)	Weight	<350g
Output	USB3.0 & CameraLink	Lens mount	C-Mount native
Frame rate	up to 230fps full frame	Power Supply	12V
Partial Reading Mode	down to 16x16	GUI	NITVision
Integration Time	10μs to 112 sec	SDKs (USB)	x86-64 & Arm64 (C++, C#, Python)

Products and specifications are subject to change without notice.

Sensors  **MADE IN FRANCE**
 Cameras

by **nIT**

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