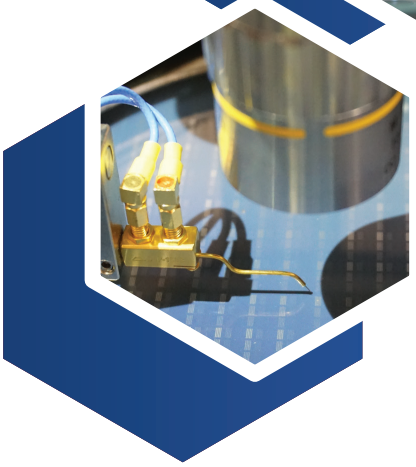






It makes SenSe!



HiPe SenS

High Performance Air-Cooled SWIR camera

Low Dark current for Long exposure applications
640 x 512 Pixels Resolution 15µm Pitch
SWIR Imaging from 0.9 to 1.7µm

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
Material	InGaAs
Resolution	640 x 512 pixels
Pixel size	15 µm x 15 µm
Spectral response	0.9 to 1.7 µm
Response	Linear, 3 gain levels
Modes	IWR/ITR, CDS, ROI
QE	>85% (90% typical)
Output	USB3.0 & CameraLink
Frame rate	up to 230fps full frame
Partial Reading Mode	down to 16x16
Integration Time	10µs to 112 sec

Sensor Noise	<40e⁻
Dark current Value	<1500 e-/pixels/s @-20°C
Operating Mode	TEC2 + Fan aircooled
Cooling capacity	Δ50°C
Trigger	IN/OUT (LVTTL)
Trigger delay	Adjustable
Dimensions	46 x 57 x 112 mm
Weight	<350g
Lens mount	C-Mount native
Power Supply	12V
GUI	NITVision
SDKs (USB)	x86-64 & Arm64 (C++, C#, Python)

Products and specifications are subject to change without notice.

Sensors Cameras MADE IN FRANCE by NIT

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