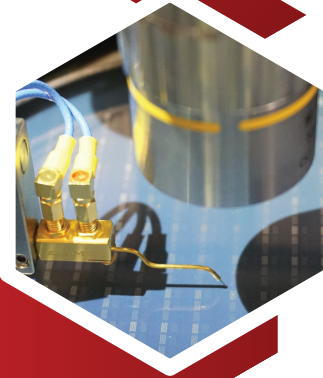




WiDy
Sens

It makes SenSe!



WiDy Sens

High Sensitivity & HDR SWIR camera

Dual mode InGaAs sensor (Lin & Log)
640 x 512 Pixels Resolution 15 μ m Pitch
Near Infrared Imaging up to 1700nm



niT

New Imaging Technologies

www.new-imaging-technologies.com

▶ Key Features

- ☐ Linear & logarithmic:
best trade-off on market between:
 - o High sensitivity
 - o High dynamic range (120dB)
- ☐ High QE InGaAs from 900nm to 1700nm
- ☐ VGA resolution , 640*512 effective pixels
- ☐ Bad Pixels Replacement and smart Non Uniformity Correction
- ☐ USB3.0 & CamLink 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	NSC1601T-SI
Material	InGaAs
Resolution	640 x 512 pixels
Pixel size	15 μm x 15 μm
Spectral response	0.9 to 1.7 μm
Dual response	Linear (CTIA) Low & High Gain Logarithmic
Modes	IWR/ITR, CDS, ROI
QE	70%
Output	USB3.0 - CamLink
Frame rate	up to 230fps full frame
Partial Reading Mode	down to 16x16
Integration Time	CTIA 10 μs to 220 ms LOG 10 μs to 10 ms

Operating Mode	TEC on/off
Gating mode	100ns to 9μs
Cooling capacity	ΔT° = 30°C
Trigger	IN/OUT (LVTTTL)
Trigger delay	Adjustable
Dimensions	46 * 46 * 57 mm
Weight	< 215 g
Lens mount	C-Mount native
Power consumption	Camera < 2.6W TEC < 4W
Operating Temp	0 °C to + 65 °C
GUI	WiDyVISION WiDyCAM
SDK	USB Windows & Linux

Operating Modes	CTIA High Gain	CTIA Low Gain	LOG
Sensor Noise	50e-	270e-	340e-
Well capacity	> 17Ke-	> 380Ke-	≈ 500Me-
Dynamic Range	49dB	63dB	120dB

Products and specifications are subject to change without notice.