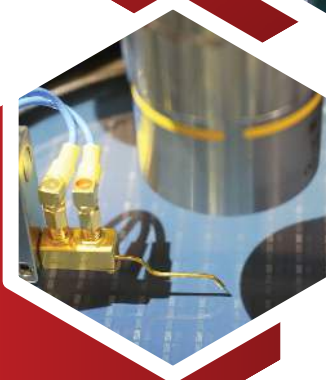




**WiDy**  
Sens

**It makes SenSe!**



# WiDy Sens

**High Sensitivity & HDR SWIR camera**

Dual mode InGaAs sensor (Lin & Log)  
qVGA (320x256 px) & VGA (640x512 px)  
Near Infrared Imaging up to 1700nm



**niT**

New Imaging Technologies

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

# Technical Specifications



## WiDy Sens 640

## WiDy Sens 320

Sensor	NSC1601T-SI	NSC2001T-SI
Resolution	640 x 512 pixels - 15µm pixel pitch	320 x 256 pixels - 15µm pixel pitch
Frame rate	up to 230Hz	1K Hz
Output	USB3.0, CamLink, GigE, Analog & SDI	USB3.0, CamLink
Gating mode	100ns to 9µs	No
Dimensions	46 * 46 * 57 mm	46 * 46 * 53 mm
GUIs	NITVision WiDyCAM/ NITLink	NITVision
Spectral response	0.9 to 1.7 µm	
Sensor Material	InGaAs	
Response	Linear (CTIA) Low & High Gain Logarithmic	
Modes	IWR/ITR, CDS, ROI	
QE	>70%	
Sensor noise	50e-	
Dynamic Range	120dB	
Partial Reading Mode	down to 16x16	
Integration Time	10µs to 1s	
Cooling capacity	ΔT° = 30°C	
Temperature control	TEC on/off Temperature selection	
Trigger (depends on models)	Software or hardware 1x Trigger IN/OUTPUT 2x Programmable outputs	
Trigger delay	Adjustable	
Weight	< 215 g	
Lens mount	C-Mount native	
Operating Temp	-40 °C to + 65 °C	
SDKs (USB & GigE)	x86-64 & Arm64 (C++, C#, Python)	

Products and specifications are subject to change without notice.

