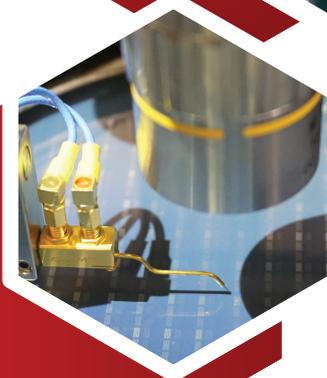


WiDy
Sens

It makes SenSe!



WiDy Sens 640

High Sensitivity & HDR SWIR camera

Dual mode InGaAs sensor (Lin & Log)

VGA (640x512 px)

Near Infrared Imaging up to 1700nm



niT

New Imaging Technologies

www.new-imaging-technologies.com

Technical Specifications



WiDy Sens 640

Sensor	NSC1601T-SI
Resolution	640 x 512 pixels - 15µm pixel pitch
Frame rate	up to 230Hz
Output	USB3.0, CamLink, GigE, Analog & SDI
Gating mode	100ns to 9µs
Dimensions	46 * 46 * 57 mm
GUIs	NITVision WiDyCAM/ NITLink
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.



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