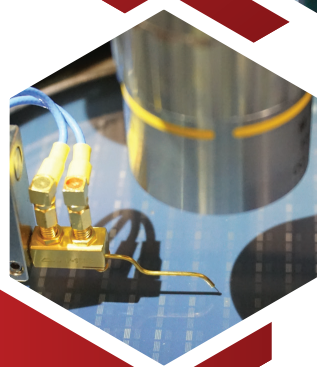




WiDy
Sens

It makes SenSe!



WiDy Sens

High Sensitivity & HDR SWIR camera

Dual mode InGaAs sensor (Lin & Log)
qVGA (320x256 px) & VGA (640x512 px)
Short-wave Infrared Imaging from 900nm to 1700nm



niT

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Technical Specifications



WiDy Sens 640

WiDy Sens 320

Sensor	NIT's NSC1601T-SI	NIT's NSC2001T-SI
Resolution	640 x 512 pixels - 15µm pixel pitch	320 x 256 pixels - 15µm pixel pitch
Frame rate	up to 230Hz full frame up to 5kHz (32x32)	1K Hz full frame Up to 10kHz (32x32)
Output	USB3.0, CamLink, GigE, Analog & SDI	USB3.0, CamLink, GigE
Gating mode	100ns to 9µs	No
Dimensions	46 * 46 * 57/65.4 mm	46 * 46 * 53/59.7 mm
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	
Operating Mode	TEC on/off	
Integration Time	10µs to 1s	
Cooling capacity	ΔT° = 30°C	
Trigger (depends on models)	Software or hardware 1x Trigger IN/OUTPUT 2x Programmable outputs	
Trigger delay	Adjustable	
Weight	< 240 g	
Lens mount	C-Mount native	
Operating Temp	-40 °C to + 70 °C	
GUIs	GUI (USB & Gige): Camera Control and Image Viewer GUI (Cameralink, Analog, HD-SDI): Camera Control only	
SDKs (USB & GigE)	x86-64 & Arm64 (C++, C#, Python)	

Products and specifications are subject to change without notice.

OEM version available on demand

Sensors
Cameras



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