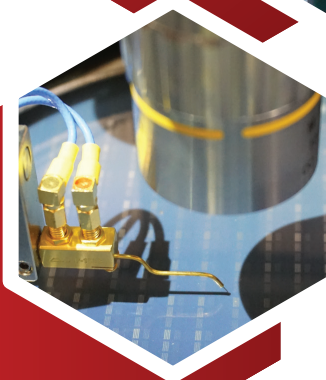




**WiDy**  
Sens

**It makes SenSe!**



# WiDy Sens 640

**High Sensitivity & HDR SWIR camera**

Dual mode InGaAs sensor (Lin & Log)

VGA (640x512 px)

Short-wave Infrared Imaging from 900nm to 1700nm



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# Technical Specifications



## WiDy Sens 640

Sensor	NIT's NSC1601T-SI
Resolution	640 x 512 pixels - 15µm pixel pitch
Frame rate	up to 230Hz full frame up to 5kHz (32x32)
Output	USB3.0, CamLink, GigE, Analog & SDI
Gating mode	100ns to 9µs
Dimensions	46 * 46 * 57/65.4 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

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