



SenS 1280

High Sensitivity SWIR camera

1280x1024 Pixels Resolution 10 μ m Pitch
Near Infrared Imaging from 900nm to 1700nm
Read-out noise 30e-
On-Board Smart Image Processing
USB 3.0, CameraLink, HD-SDI



niT

New Imaging Technologies

www.new-imaging-technologies.com

Technical Specifications

	SenS 1280	SenS 1280 (Smart)
Key features	NUC & BPR Selective line scanning	On-board NUC & BPR Automatic Gain control (Brightness/Contrast) Automatic Integration Time (AIT) GenICam compliant
Output	USB3.0, CamLink	CamLink, HD-SDI
Dimensions	58 x 58 x 70 mm	55 x 55 x 64/72 mm
Weight	<400g	<400g
GUIs	NITVision	NITGenicamControlTool
SDKs (USB & GigE)	x86-64 & Arm64 (C++, C#, Python)	-
Sensors	NIT's NSC1901-T-SI	
Spectral response	0.9 to 1.7 μm	
Sensor Material	InGaAs	
Resolution	1280x1024 pixels (SXGA resolution)	
Pixel size	10 μm x 10 μm	
Response	Linear (CTIA) Low & High Gain	
Modes	ITR, CDS, ROI	
QE	>80% LG	
Sensor noise	<30e-	
Frame rate	up to 60Hz full frame	
Partial Reading Mode	ROI	
Integration Time	10 μs to 500ms	
Trigger (depends on models)	Software or hardware 1x Trigger IN/OUTPUT 2x Programmable outputs	
Trigger delay	Adjustable	
Lens mount	C-Mount native	
Operating Temp	-40 °C to + 71 °C	

Operating Modes

	CTIA High Gain	CTIA Low Gain
Sensor Noise	typ. 30e-	120e-
Well capacity	> 10Ke-	> 130Ke-
Dynamic Range	52dB	61dB

Sensors
Cameras 
by 

Products and specifications are subject to change without notice.