

# SenS 1280 Smart

## High Sensitivity SWIR camera

1280x1024 Pixels Resolution 10 $\mu$ m Pitch  
Near Infrared Imaging from 900nm to 1700nm  
Read-out noise 30e-  
On-Board Smart Image Processing  
CameraLink or HD-SDI

## Technical Specifications


### Sens 1280 Smart

Key features	On-board NUC & BPR Automatic Gain control (Brightness/Contrast) Automatic Integration Time (AIT) GenICam compliant
Output	CamLink, HD-SDI, CoaXPress
Dimensions	55 x 55 x 64/72 mm
Weight	< 400g
GUIs	NITGenicamControlTool
Sensors	NIT's NSC1901-T-SI
Spectral response	0.9 to 1.7 $\mu\text{m}$
Sensor Material	InGaAs
Resolution	1280x1024 pixels (SXGA resolution)
Pixel size	10 $\mu\text{m}$ x 10 $\mu\text{m}$
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 $\mu\text{s}$ 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



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# TECHIMAGING

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