



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, CoaXPress



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, CoaXPress |
| 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  **MADE IN FRANCE**
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