



# SenS 1920

## Full HD resolution SWIR camera

1920x1080 Pixels Resolution 8 $\mu$ m Pitch  
Short-wave Infrared Imaging from 900nm to 1700nm  
Read-out noise 25e-  
USB 3.0



**niT**

New Imaging Technologies

[www.new-imaging-technologies.com](http://www.new-imaging-technologies.com)

# Preliminary Technical Specifications

| <b>Sens 1920</b>     |                                      |
|----------------------|--------------------------------------|
| Output               | USB3.0                               |
| Dimensions           | 58 x 58 x 70 mm                      |
| Weight               | <400g                                |
| GUIs                 | NITVision                            |
| SDKs                 | x86-64 & Arm64<br>(C++, C#, Python)  |
| Sensors              | NIT's NSC2101-T-SI                   |
| Spectral response    | 0.9 to 1.7 $\mu\text{m}$             |
| Sensor Material      | InGaAs                               |
| Resolution           | 1920x1080 pixels (2 Mpix resolution) |
| Pixel size           | 8 $\mu\text{m}$ x 8 $\mu\text{m}$    |
| Response             | Linear (CTIA) Low & High Gain        |
| Modes                | ITR, CDS, ROI                        |
| QE                   | >80% LG                              |
| Sensor noise         | typ. 25e-                            |
| Frame rate           | up to 40Hz full frame                |
| Partial Reading Mode | ROI                                  |
| Lens mount           | C-Mount native                       |

Products and specifications are subject to change without notice.

Sensors  
Cameras



by  
**NIT**

# TECHIMAGING

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