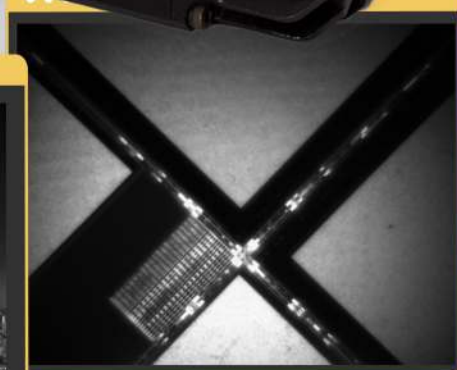


# ***SWIR Camera Series***

from TECless to Air-cooled InGaAs cameras





## Improve your vision knowledge

MADE IN  
FRANCE

### THE SWIR FAMILY

A full range of SWIR InGaAs-based cameras for your applications

**New Imaging Technologies** is a French company pioneer in Wide Dynamic Range solutions. NIT sensors, in HDR mode, can provide 120dB of dynamic range. With over 15 years of academic research and **25 technology patents**, we master all the steps from the sensor design to complete camera engineering.

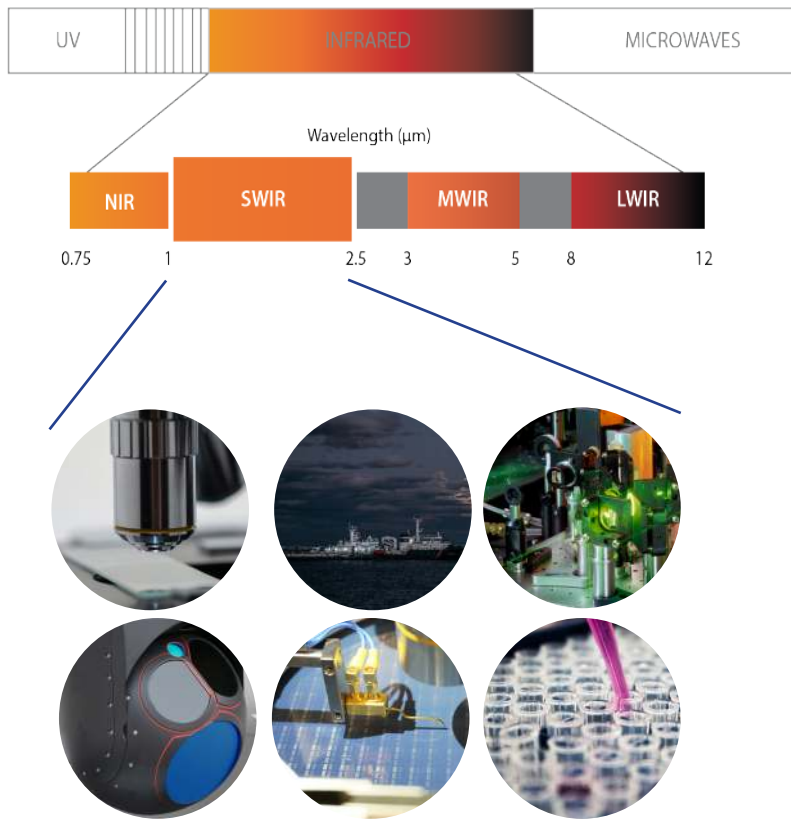
Our products are proudly **Made in France**.

From ROIC to the hybridization, our products give you a taste of performances and cost-effectiveness with ITAR-free.

**Unique Dual-response mode (HDR & High Sensitivity):** Providing a best vision in all situations.

**Versatile cameras/modules.**

NIT has been delivering imaging solutions to various applications for many years. Our products are designed to face highly challenging environments (shocks, vibrations, temperature gradients) and our technology brings unique imaging capabilities for a broad range of markets.



**Pick your application  
and start with a SWIR Camera**

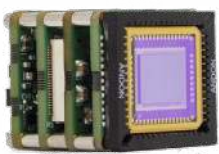
#### Made for your applications

Solar Cell inspection  
Wafer inspection  
Laser alignment  
Industrial sorting  
UAVs  
Airborne and Naval  
Long range active imaging  
Surveillance  
Medical & Life Science

## Technical Specification



	WiDy SWIR	WiDy SenS 640	HiPe SenS
<b>RESOLUTION</b>	320 x 256 or 640 x 512	640 x 512	640 x 512
<b>PIXEL PITCH</b>	15μm (VGA) / 25μm (QVGA)	15μm	15μm
<b>INTERFACE</b>	USB3.0/CameraLink/Analog/GigE	USB3.0/CameraLink/GigE/Analog	USB3.0
<b>MODE</b>	HDR 120dB	High Sensitivity & HDR (120dB)	High Sensitivity
<b>NOISE (readout)</b>	<200e- (VGA) <300e- (QVGA)	<50e-	<40e-
<b>FRAME RATE (full resolution)</b>	Up to 200Hz	Up to 230Hz	Up to 230Hz
<b>GATED MODE</b>	No	Yes (Optional)	No
<b>Dark current</b>	50ke- @+15°C	50ke- @+15°C	<1500 e-/pixels/s @-20°C
<b>TRIGGER</b>	IN/OUT mode (LVTTTL)	IN/OUT mode (LVTTTL)	IN/OUT mode (LVTTTL)
<b>Exposure time</b>	100μs to 25ms	10μs to 220ms	Up to 90s
<b>TEC</b>	No	TEC1	TEC2 + Air-cooled



#### Customized solution

NIT can provide a whole range of custom solutions to fulfill any customer requirements at different integration levels. NIT camera SWIR are also available on modules (please contact NIT for more information)

#### WiDyVISION/ WiDyCAM/ NITGIGViewer: An easy way to stream SWIR images

Simplify your camera integration  
For USB, CameraLink & GigE versions  
Compatible with Windows 7,8,10 | Linux (Xubuntu 18.04 & Debian 9)  
Supplied with a complete C++, C# or Python SDK (for USB and GigE camera)/ Micromanager

Products and specifications discussed herein are subject to change by NIT without notice.  
Products are only warranted by NIT to meet NIT's production data sheet specifications.