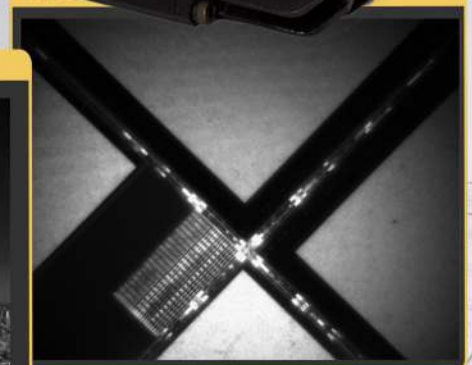


niT

Native
WDR™

SWIR Camera Series

from TECless to Air-cooled InGaAs cameras



niT New Imaging Technologies

www.new-imaging-technologies.com



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.

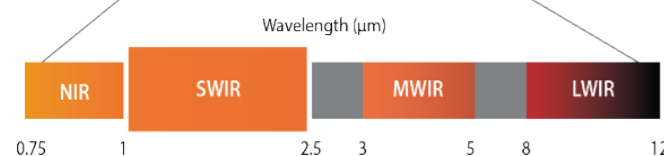
Our products are proudly **Made in France**.

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

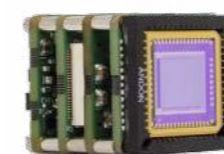
Made for your applications

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



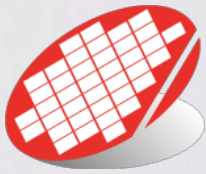
Customized solution

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.



nIT

About New Imaging Technologies

New Imaging Technologies is a leading supplier of SWIR and High Dynamic Range imaging solutions. With more than a decade of R&D, NIT masters all the steps from sensor design to complete camera engineering, including the manufacturing of InGaAs sensors

Our core team clusters experienced CMOS designers, all recognized experts in their fields, with a multi-disciplinary group of optical, mechanical and electronic engineers.

With sales partners in over 20 countries we address most efficiently any customer requests around the globe.

NIT offers a complete portfolio of cameras and detectors embracing Visible, Intensified (I-CMOS) and SWIR technology. NIT serves various markets such as machine vision, defense & surveillance, semiconductor inspection, medical & life science, night vision, ...

NIT also proposes flexible solutions and custom designs to best fit your specific requirements.

ISO 9001

BUREAU VERITAS
Certification



New Imaging Technologies

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