

**nIT**



# WiDy SWIR Camera Series

Enhanced Vision with  
Wide Dynamic Range Technology



Improve your vision knowledge

### Made for your applications

- ☒ Solar Cell inspection
- ☒ Wafer inspection
- ☒ Laser alignment
- ☒ Industrial sorting
- ☒ UAVs
- ☒ Airborne and Naval
- ☒ Long range active imaging
- ☒ Surveillance

## The WiDy Family

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

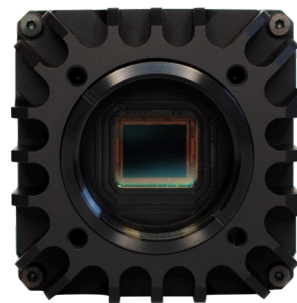
The WiDy family is a complete line of InGaAs cameras designed to perform in multiple applications with an unmatched performance/price ratio.

Equipped with NIT proprietary InGaAs sensors, the NIT WiDy cameras offers natively High Dynamic Range and high-quality SWIR images in all lighting conditions. Easy to integrate thanks the different form factors, NIT WiDy are available in a broad range of output, from USB3.0 to GigE including CameraLink and Analog output.



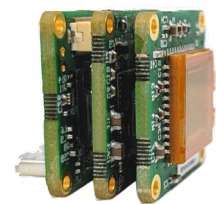
#### WiDy SWIR

- ☒ QVGA and VGA resolution
- ☒ TECless & HDR 120dB
- ☒ Gated Imaging option (VGA & QVGA)
- ☒ Cost effective solutions



#### WiDy Sens

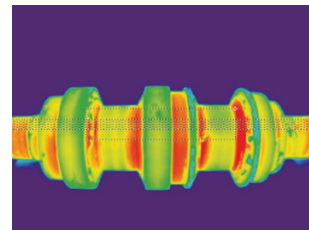
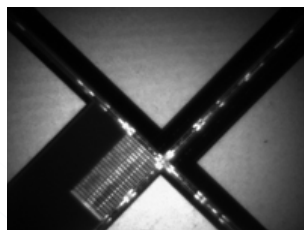
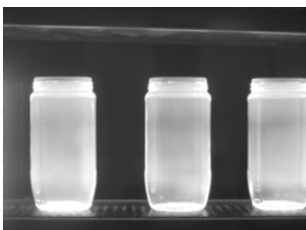
- ☒ VGA resolution
- ☒ High Sensitivity and HDR
- ☒ Gated Imaging option



#### WiDy NaNo

- ☒ VGA resolution
- ☒ HDR 120dB
- ☒ Miniature size

### Pick your app and start with a WiDy Camera



	WiDy SWIR	WiDy SenS 640	WiDy NaNo
<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 (VGA)/GigE	USB3.0/CameraLink/GigE*	USB3.0
<b>MODE</b>	HDR 120dB	High Sensitivity & HDR (120dB)	HDR 120dB
<b>NOISE (readout)</b>	<200e- (VGA) <300e- (QVGA)	<50e-	<200e- (VGA)
<b>FRAME RATE (full resolution)</b>	Up to 200Hz*	Up to 230Hz	Up to 100Hz
<b>GATED MODE</b>	Yes (Optional)	Yes (Optional)	Yes (Optional)
<b>TRIGGER</b>	IN/OUT mode (LVTTTL)	IN/OUT mode (LVTTTL)	IN/OUT mode (LVTTTL)
<b>TEC</b>	No	Yes	No

*Depending on models\**

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: An easy way to stream SWIR images

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



## About New Imaging Technologies

**New Imaging Technologies** is a French company pioneer in Wide Dynamic Range solutions. With over 15 years of academic research and our patented **MAGIC™** pixel technology, we master all the steps from the sensor design to complete camera engineering.

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, instrumentation, night vision, biometrics...

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

For more information on our products, please visit our website:

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

or contact us directly at:

**[info@new-imaging-technologies.com](mailto:info@new-imaging-technologies.com)**

ISO 9001  
BUREAU VERITAS  
Certification



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