niT

Native WDR™

WiDy SWIR Camera Series

Enhanced Vision with
Wide Dynamic Range Technology

Improve your vision knowledge

The WiDy Family

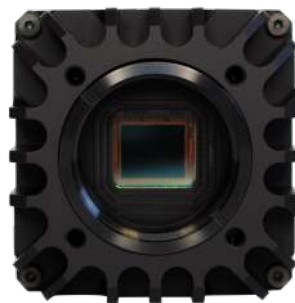**A full range of SWIR InGaAs-based cameras for your applications**

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
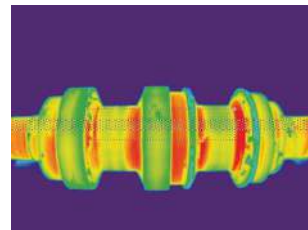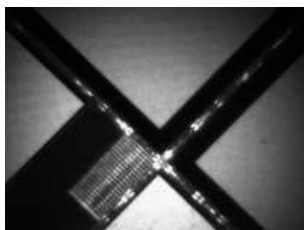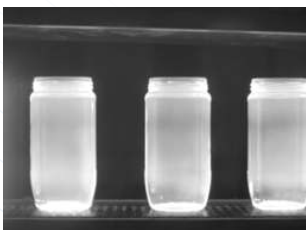- Gated Imaging option (VGA & QVGA)
- Cost effective solutions

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

Technical Specification

	WiDy SWIR	WiDy SenS 640	WiDy NaNo
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 (VGA)/GigE	USB3.0/CameraLink/GigE*	USB3.0
MODE	HDR 120dB	High Sensitivity & HDR (120dB)	HDR 120dB
NOISE (readout)	<200e- (VGA) <300e- (QVGA)	<50e-	<200e- (VGA)
FRAME RATE (full resolution)	Up to 200Hz*	Up to 230Hz	Up to 100Hz
GATED MODE	Yes (Optional)	Yes (Optional)	Yes (Optional)
TRIGGER	IN/OUT mode (LVTTL)	IN/OUT mode (LVTTL)	IN/OUT mode (LVTTL)
TEC	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

or contact us directly at:

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