



WIDYSENS

DUAL RESPONSE VGA RESOLUTION SWIR



The WiDySenS is a unique short-wave infrared camera core with both linear and logarithmic response modes that deliver high-sensitivity, high dynamic range imaging capabilities.

DETAILS

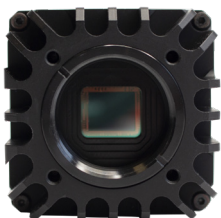
Developed by short-wave infrared specialists, New Imaging Technologies, the WiDySenS is a versatile VGA resolution InGaAs camera core with powerful capabilities for a wide variety of applications. Dual-response modes allow users to switch between LIN (linear) mode for maximum sensitivity in low light situations and LON (logarithmic) mode for maximum dynamic range in variable or inconsistent imaging conditions.

The camera also features powerful gated imaging functionality for niche applications in security, surveillance, counter UAS, 3D mapping and more.

As an authorized reseller, Sierra-Olympia Technologies offers superior service and integration capabilities on these highly capable InGaAs specialty cameras across QVGA, VGA, and HD resolutions.

APPLICATIONS

- + Manufacturing inspection
- + Security, surveillance, defense
- + Laser beam profiling
- + Process control/monitoring
- + Metrology
- + Solar, semiconductor inspection
- + Medical imaging
- + Custom OEM integration



- + 640 x 512 x 15 μm InGaAs sensor
- + USB 3.0, CameraLink, GigE, or Analog models
- + Up to 230 Hz frame rate
- + Gated imaging capable
- + Bad pixels replacement & non-uniformity correction



WIDYSENS

DUAL RESPONSE VGA RESOLUTION SWIR

EXPORT CLASSIFICATION: DUAL USE

FEATURE SPECS

DETECTOR



Detector Type	InGaAs
Array Format	640 x 512
Pixel Pitch	15 Micron
Spectral Response	SWIR
Frame Rate	Up to 230 FPS full frame

ENVIRONMENTAL



Size (L x W x H)	46 x 46 x 57 mm
Weight	<215g
Operating Temp	-40°C to +65°C

SYSTEM



Dual Response	Linear (CTIA) low & high gain / logarithmic
Modes	IWR/ITR, CDS, ROI
QE	>70%
Partial Reading Mode	Down to 16 x 16
Operating Mode	TEC on/off
GUI	NITVision, WiDyCAM, NITLink
SDK	USB, GigE Windows & Linux
Trigger	In/out (LVTTTL)
Trigger Delay	Selectable

