



WiDy Sens 320

HIGH SPEED & COST-EFFECTIVE SWIR CAMERA

- The low-price point SWIR camera – **Unique dual-response InGaAs sensor (Lin & Log)**
- QVGA resolution@15µm pixel pitch
- Deliver up to 1kHz full-frame
- Various interfaces: USB 3.0 & CameraLink
- 30mm cage system compatible
- **NEW** High-speed model: Frame rate 10kHz (ROI), Exposure time 10µs mini, USB3.0 interface

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DESCRIPTION

Technical Specification

Sensor	NSC200T-SI
Material	InGaAs
Resolution	QVGA
Pixel pitch	15µm
Spectral response	0.9 to 1.7µm
Dual response	<ul style="list-style-type: none"> • Linear (CTIA) Low & High Gain • Logarithmic
Modes	IWR/ITR, CDS, ROI
QE	>70%
Output	USB3.0, CameraLink High-speed model: USB3.0
Frame rate	Up to 1K fps full frame High-speed model: 10KHz (ROI)
Partial Reading Mode	Down to 16x16
Exposure time	10µs mini High-speed model: 1µs mini
Operating mode	TEC on/off
Trigger	IN/OUT (LVTTL), Selectable delay
Dimension	46x46x53mm
Mount	C-Mount native
Weight	< 215g
ADC	14 bits
Operating Temp	-40°C to +65°C

Operating modes

	CTIA High Gain	CTIA Low Gain	LOG
Sensor noise	50e-	270e-	340e-
Well capacity	>17Ke-	>380Ke-	≈500Me-
Dynamic Range	49dB	63dB	120dB

Software

Interface	GUI	SDK
USB 3.0 & GigE	NITVision	Yes
CameraLink	NITVision	No

Applications

Main applications:

- Industrial process monitoring
- Laser Beam Profiling & Tracking
- Laser alignment
- R&D purposes

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Watch on YouTube

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