

NS-615A-GE

Area Array SWIR Camera

The NS-615A-GE area array SWIR camera adopts an InGaAs detector with built-in image correction and image processing algorithms, as well as GigE image interfaces. It features low noise, digital output, and low power consumption, making it widely applicable in semiconductors, sorting, etc.



Full Window
180Hz



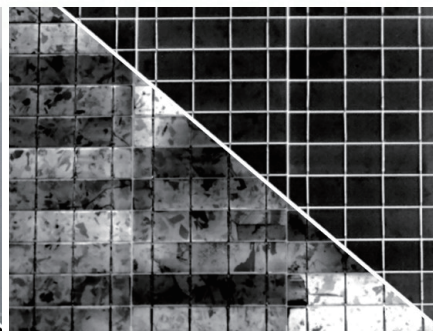
GigE
Interface



46×46×61mm
for Easy Integration



4900FPS for 16 Free
Lines from 512 Lines



Specifications

Technical parameters	NS-615A-GE
Sensor	InGaAs
Spectral response range	0.9 μm~1.7 μm
Quantum efficiency	≥70%(1.0 μm~1.6 μm)
Optical fill factor	100%
Pixel pitch	15 μm
Active pixel	640×512
Pixel operability	≥ 99.8%
Maximum frame rate (full array)	180Hz
Output data depth	14/12/10/8bit
Exposure type	Snapshot global shutter
Minimum integration time	100us
Dynamic range (typical value)	67dB (HG)
Optional gain	3
Average pixel dark current	≤100ke/s@20°C
Power supply voltage	Typical 12V
Typical power consumption	<2.5W (TEC off)
Interface	GigE
Lens mount	C-Mount
Core weight	150±5 g
Core dimensions	46×46×61mm
Operating temperature	-40°C~+60°C
Storage temperature	-40°C~+85°C
Temperature control	TEC1

Application Scenarios



Plastic Sorting



Vision Enhancement



Photovoltaic Inspection



Machine Vision

Company Profile

Raytron Microelectronics Co., Ltd. is a wholly-owned subsidiary of Raytron Technology Co., Ltd., providing global customers with infrared detectors, core modules, and industry solutions.

Our products are widely used in various fields, including infrared temperature measurement, night vision observation, machine vision, intelligent driving, Commercial Drone, smart industry, security monitoring, Internet of Things, medical epidemic prevention and gas detection.

With the mission of "to create incremental value for customers with technological advancements", we are committed to leaving a name in the history of constantly expanding human perception capabilities.



Official Website



LinkedIn Official Account

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