

NS-615AS-10GE

Area Array SWIR Camera



The NS-615AS-10GE is an area scan SWIR camera featuring an InGaAs detector, built-in image correction and processing algorithms, and a 10GigE vision interface, supporting full-window output at up to 825 Hz. It features low noise, digital output, and low power consumption, making it widely applicable in semiconductors, sorting, etc.



Supports
Hardware-based
Single-window ROI



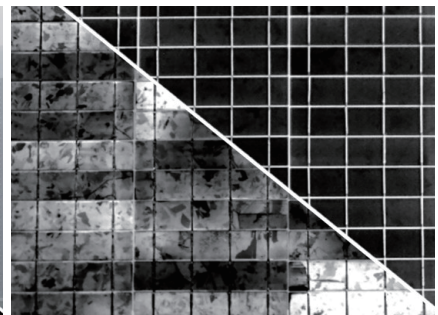
10GigE
Interface



68×68×98mm



Low Noise, Low
Dark Current



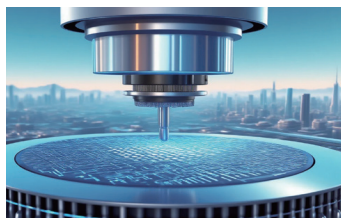
Specifications

Product Model	NS-615AS-10GE
Detector Type	InGaAs short-wave infrared focal plane detector
Spectral Response Range	0.9-1.7μm
Pixel Pitch	15μm
Resolution	640×512
Frame Rate	825Hz
Effective Pixel Rate	≥99.8%
Integration Type	Snapshot global shutter
Exposure Time Range	5us~20ms(LG)
Cooled Mode	TEC 1
Output Data Depth	8bit/10bit/12bit/14bit
Readout Noise (Typical value)	30e@Gain0
Optional Gain	3-level
Dynamic Range	50dB(Gain0),62dB(Gain1),72dB(Gain2)
Average Pixel Dark Current	≤80ke/s@20°C
On-board Image Processing	Non-uniformity correction, defective pixel compensation
Power Supply Range	5V~24V DC (12V DC recommended)
Typical Power Consumption @25°C	<8.4w(TEC OFF)
Digital Video	10GigE
Communication Interface	10GigE
Optical Interface	C-Mount
Weight	486g±10g
Dimensions	68mm×68mm×98mm
Operating Case Temperature	-40°C~+60°C
Storage Case Temperature	-40°C~+85°C
Vibration	50~2000Hz,0.01g ² /Hz, 3 axes
Shock	25g, 6ms, half-sine waveform, 3 axes/ 6 directions

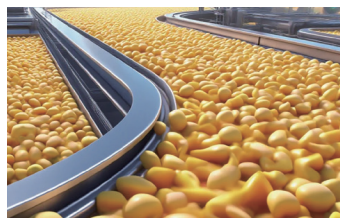
Applications



Plastic Sorting



Semiconductor Inspection



Fruit Sorting



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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