

NS-101L2-GE

Line Scan SWIR Camera

NS-101L2-GE line scan SWIR camera adopts high-resolution InGaAs detector with $12.5\mu\text{m}$ pixel in a 1024×1 array. It features low noise, high line rate and low power consumption, supporting CameraLink or GigE image interface, moreover, friendly SDK for secondary development are available. With built-in image correction and smart processing algorithm, this SWIR camera can be widely used in agricultural products sorting, waste recycling, Industrial sorting, photovoltaic inspection, machine vision, etc.



Built-in Image Processing Algorithm



GigE or CameraLink Output



Low Noise Low Power Consumption



Line Rate Up to 36kHz

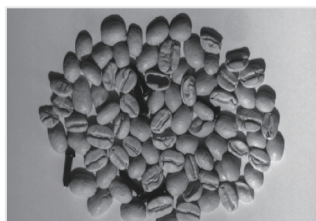


Friendly SDK

Image Examples



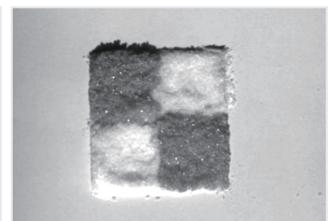
Coffee Bean and Foreign Matter (Visible)



Coffee Bean and Foreign Matter (SWIR)



Sugar and Salt (Visible)



Sugar and Salt (SWIR)

Specifications

Technical Indicators	NS-101L2-GE
Sensor	InGaAs
Spectral Band	0.9 μ m~1.7 μ m
Quantum Efficiency	>70% (1.0 μ m~1.6 μ m)
Optical Fill Factor	100%
Pixel Pitch	12.5 μ m
Active Pixels	1024×1
Pixel Operability	> 99.8%
Maximum Line Rate	36kHz
Output Data Depth	8bit/14bit
Minimum Integration Time	15us
Read Noise (Typical)	\leq 50e@1-36kHz, 20°C
Optional Gain	4
Average Pixel Dark Current	\leq 100ke/s@20°C
Power Supply	Typical 12V
Power Consumption	<2.5W
Digital Video Interface	GigE or Cameralink
Lens Mount	C-Mount
Operating Case Temperature	-20°C~+50°C
Storage Temperature	-40°C~+60°C
Temperature Control	TECless
Weight	226g \pm 10g
Dimension	53×60×60mm
I/O Ports	1 pair differential input/output; 1 single-ended/differential input; 1 pair of optical coupler single-ended input; 1 single-ended output

■ This information is for illustrative purposes only. Images and technical specifications are subject to change without notice.

Application Scenarios



Recycling



Food Sorting



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

Raytron Microelectronics Co., Ltd.

Phone: 400-998-9038

Email: marketing@raytrontek.com

Website: www.raytron-microelectronics.com

Version: PL202510V1