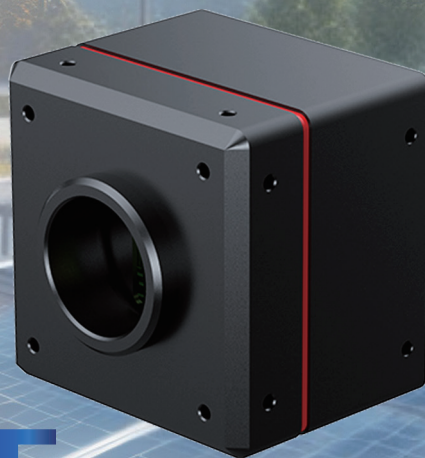




NS-101L2-GE

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

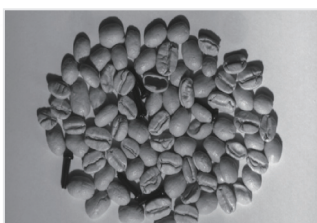


Friendly SDK

Image Examples



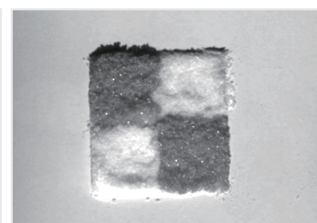
Coffee Bean and Foreign Matter
(Visible)



Coffee Bean and Foreign Matter
(SWIR)



Sugar and Salt
(Visible)



Sugar and Salt
(SWIR)

Specifications

Product Model	NS-101L2-GE
Detector Type	InGaAs
Spectral Response Range	0.9~1.7μm
Quantum efficiency	≥70%(1.0μm~1.6μm)
Optical Fill Factor	100%
Pixel Pitch	12.5μm
Area Array Size	1024×1
Effective Pixel Rate	≥99.8%
Maximum Output Line Frequency	36kHz
Output Data Depth	8bit/14bit
Minimum Integration Time	15μs
Readout Noise (Typical value)	≤50e@ 1-36kHz,20°C
Optional Gain	4~level
Average Pixel Dark Current	≤200ke/s@ 20°C
Power Supply Voltage	Typical 12V
Typical Power Consumption	<2.5W
Communication Interface	GigE
Lens Interface	C-Mount
Operating Environment Temperature	-20°C~+50°C
Storage Environment Temperature	-40°C~+60°C
Temperature Control	TECless
Core Weight	226g±10g
Core Dimensions	53mm×60mm×60mm
I/O Interface	1 set of differential input/output 1 set of configurable differential/single-ended input 1 set of optocoupler single-ended input

Applications



Recycling



Food Sorting



Photovoltaic Inspection



Machine Vision

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