PRELIMINARY

Linea SWIR 1K SL-GA-01K04A-00-R InGaAs Line Scan Camera



Key Features

- 1024 pixel resolution
- 12.5 μ m pixel size
- 950 to 1700 nm spectral band
- 40 kHz line rate
- HDR mode
- Cycling mode
- Programmable I/Os
- Compact form factor
- Configurable full well
- GigE, PoE

Typical Applications

- Food sorting
- · Industrial sorting
- Recycling
- · Solar panel inspection
- General purpose machine vision

GigE SWIR Line Scan Camera

Teledyne DALSA's 1024 pixel GigE SWIR line scan camera features a cutting-edge InGaAs sensor in a compact package for a wide variety of machine vision applications.

This high speed, high resolution camera is the first product in DALSA's SWIR family. The uncooled sensor delivers exceptional responsivity that can be further improved through horizontal pixel binning. Alternatively, digital binning gives customers the option to bin to 512 pixel resolution with 25 μ m pixels.

The newest member of the Linea family features an advanced InGaAs detector with 12.5 μ m pixels in a 1K array that offers a 40 kHz line rate. The small pixels offer high resolution without compromising sensitivity. With high speed, high sensitivity, cycling mode, and programmable I/Os, the versatile Linea SWIR is ideal for applications such as optical sorting, solar panel inspection, and general purpose machine vision.

Specifications

Resolution 1024 pixels Line Rate 40 kHz

Pixel Size $12.5 \mu m \times 12.5 \mu m$ Spectral Band 950 to 1700 nmDynamic Range Up to 74 dB (HDR)

Full Well 1x Gain 10,000 ke-Full Well 62x Gain 150 ke-Noise 1x Gain 1,600 e-Noise 62x Gain 900 e-Peak Quantum Efficiency 66% Dark Current < 5 pA Output Bit Depth 8, 12 bit mono Optical Interface C Mount Control & Data GigE Vision

GPIO 2 programmable inputs and outputs

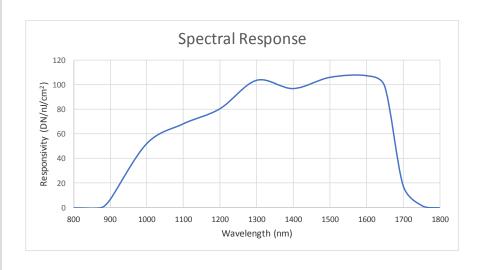
Camera Size 46 x 46 x 51 mm

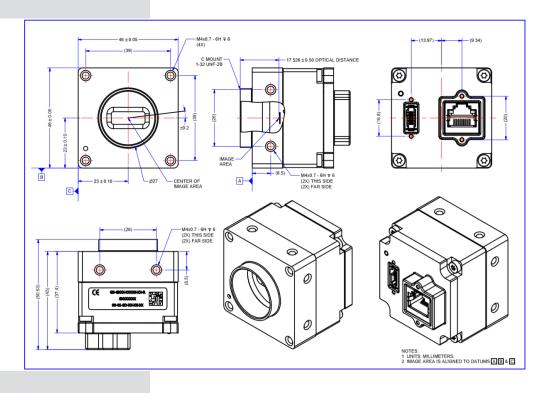
Camera Weight <208 g



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