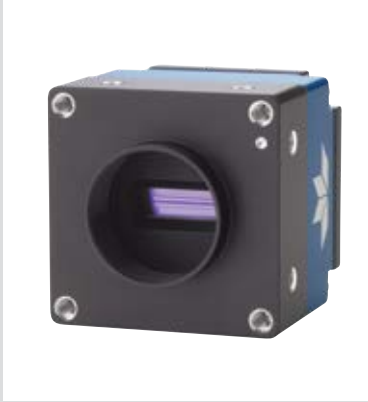


Linea™ SWIR 512

SL-GA-05H04A-00-R InGaAs Line Scan Camera



Key Features

- » 512 pixel resolution
- » 25 µm 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
- » Silicon wafer inspection
- » General purpose machine vision

GigE SWIR Line Scan Camera

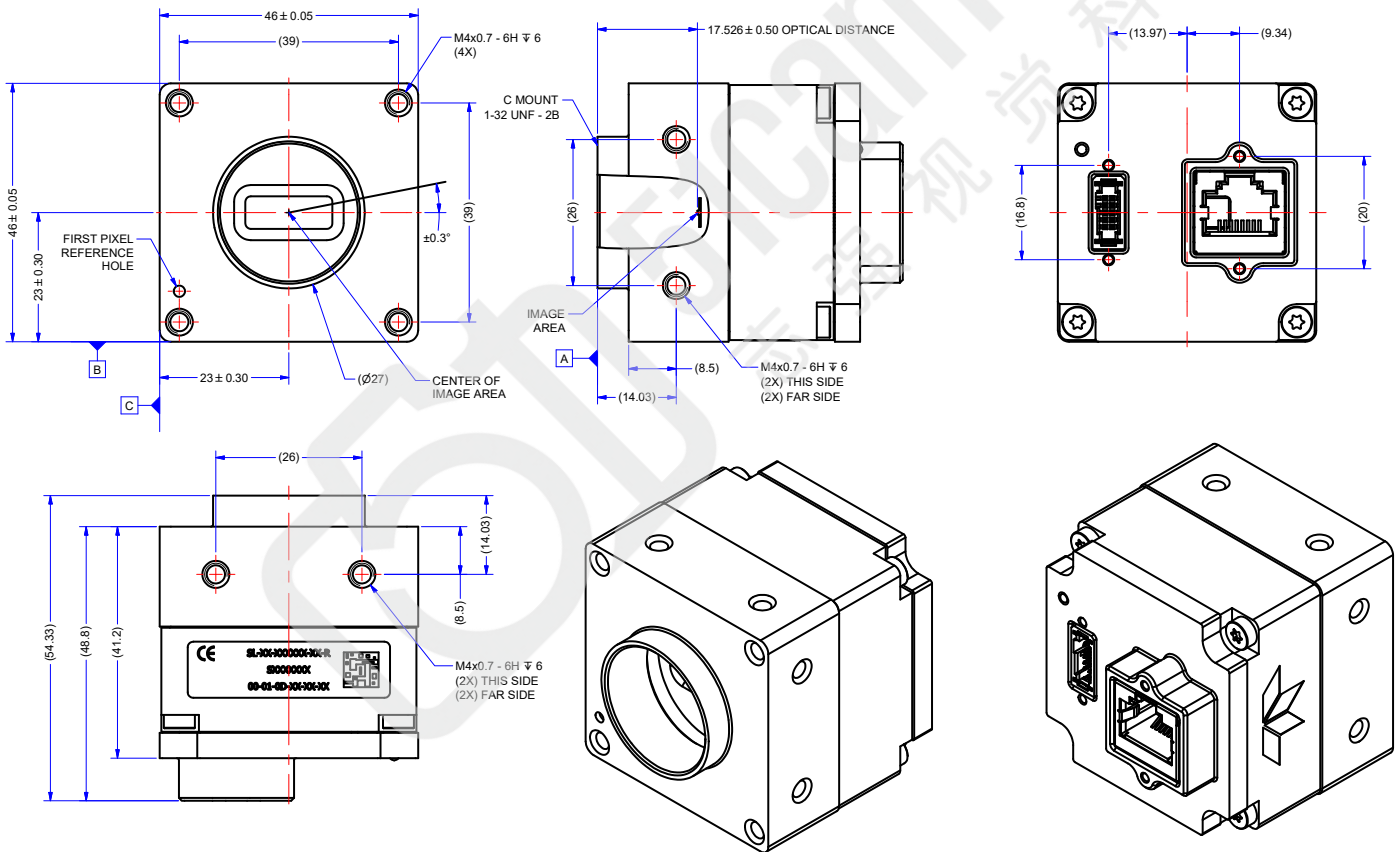
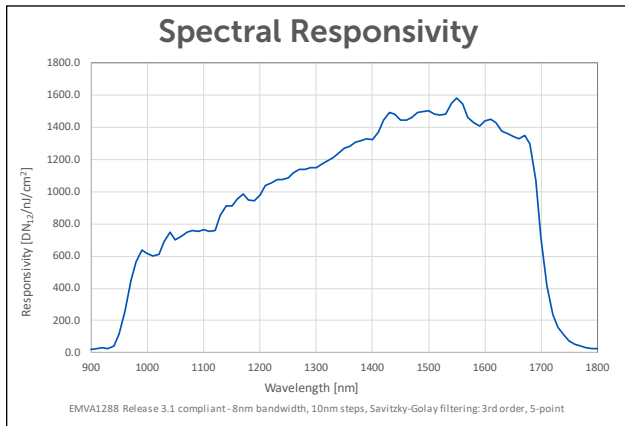
Teledyne DALSA's 512 pixel GigE SWIR line scan camera features a cutting-edge InGaAs sensor in a compact package for a wide variety of machine vision applications.

The newest member of the Linea family features an advanced InGaAs detector with 25 µm pixels in a 512 array that offers a 40 kHz line rate. 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 | 512 pixels | | | |
| Line Rate | 40 kHz | | | |
| Pixel Pitch | 25 µm | | | |
| Spectral Band | 950 to 1700 nm | | | |
| Gain Setting | 1 | 2 | 3 | 4 |
| Max Responsivity (DN12/nJ/cm ² at 1550 nm) | 20 | 200 | 800 | 1600 |
| Dark Noise (DN12) | 2.8 | 4.2 | 14 | 21 |
| Full Well (ke-) | 10,000 | 1,000 | 265 | 135 |
| Dynamic Range (dB) | 66 | 60 | 52 | 48 |
| Peak Quantum Efficiency | 66% | | | |
| Dark Current | < 5 pA | | | |
| Output Bit Depth | 8, 12 bit mono | | | |
| Optical Interface | C Mount | | | |
| Control & Data | GigE | | | |
| GPIO | Programmable: 2 inputs, 2 outputs | | | |
| Camera Size | 46 x 46 x 55 mm | | | |
| Camera Weight | 150 g | | | |

SPECIFICATIONS



NOTES:
1. UNITS: MILLIMETERS.
2. IMAGE AREA IS ALIGNED TO DATUMS **A**, **B** & **C**.

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