

Key Features

- · Low cost
- · Burst mode
- Compact
- · Meta data per each line

Programmability

- · Multiple regions of interest and areas of interest for calibration and data reduction
- · 8 bit output
- · Smart flat field and lens shading correction
- · 4 programmable coefficient sets
- Configurable GPIO ports, timers and counters

Typical Applications

- · Automated optical inspection
- · High performance sorting systems
- · Materials grading
- · Web inspection
- · General purpose machine vision

Regulatory Compliance

· CE. FCC and RoHS

High Performance Color GigE Camera with TurboDrive

The new Linea Color™ line scan cameras deliver the exceptional performance and features found in Teledyne DALSA's current lineup of high-end cameras at an unprecedented price point.

Based on bilinear color CMOS technology, the Linea Color GigE cameras has a 2k or 4k 7.04 μ m x 7.04 μ m pixel array. With excellent sensitivity and speed, Linea Color surpasses the requirements of demanding applications—such as food sorting, materials grading, web inspection, and general purpose machine vision.

The Linea Color cameras come complete with many attractive features, including configurable GPIO ports, Burst Mode and Meta Data per each line. The GigE models provide multiple ROI and AOI, and multiple user and calibration coefficients sets for various lighting conditions.

Our proprietary, patent pending, TurboDrive™ technology delivers high speed data transfer capability that breaks through the GigE limit. Depending on the application, speeds up to 45 kHz are achievable, as TurboDrive boosts data transfer speeds 2 or 3 times faster than standard GigE Vision™ speeds - with no loss of image quality.

Specifications

Resolution 2048 x 2 or 4096 x 2

Line Rate 26 kHz, maximum—2k models without TurboDrive

> 13 kHz, maximum—4k models without TurboDrive (45 kHz, maximum—both models with TurboDrive)

Pixel Size $7.04 \, \mu \text{m} \times 7.04 \, \mu \text{m}$

Data Format

Output Gigabit Ethernet

M42 x 1, C and F-mount adapters available Lens Mount

Responsivity See graph Dynamic Range $> 60 \, dB$ Nominal Gain Range 10y

Size 62 mm x 62 mm x 46.64 mm

Mass $< 280 \, \mathrm{g}$

Operating Temp 0 °C to 65 °C (front plate)

Power +12 V to +24 V DC, HD15 connector (shared with I / O)

Power Dissipation

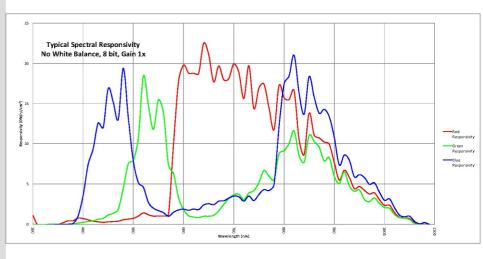
1/0 HD15 connector

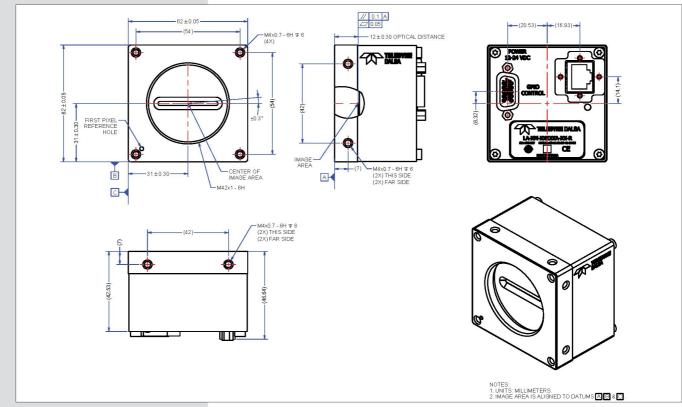
Software Platform GigE Vision v1.2 compliant Teledyne DALSA Sapera LT

or 3rd party GenlCam™ compliant SDK

| | | Models | |
|-------------------|------------|---|-------------------|
| Part Number | Resolution | Maximum Line Rates | Pixel Size |
| LA-GC-02K05B-00-R | 2048 x 2 | 26 kHz without TurboDrive (45 kHz with TurboDrive) | 7.04 μm x 7.04 μm |
| LA-GC-04K05B-00-R | 4096 x 2 | 13 kHz without TurboDrive (45 kHz with TurboDrive) | 7.04 μm x 7.04 μm |







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