Linea 8K GigE Vision Monochrome CMOS Line Scan Cameras



Key Features

- · Low cost and compact
- Cycling mode
- Burst mode
- · Meta data per each line

Programmability

- Multiple regions of interest and areas of interest for calibration and data reduction
- 8 or 12 bit output, selectable
- 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 and inspection
- Web inspection
- General purpose machine vision

Regulatory Compliance

• CE, FCC and RoHS

High Performance GigE Camera with TurboDrive

The new Linea™ 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 the most advanced CMOS line scan technology, the Linea GigE cameras employ an 8k single line $7.04 \, \mu m \times 7.04 \, \mu m$ pixel array. With excellent sensitivity and speed, Linea surpasses the requirements of demanding applications—such as materials grading and inspection, transportation safety, and general purpose machine vision.

The Linea cameras come complete with many attractive features, including Cycling Mode, configurable GPIO ports, Burst Mode and Meta Data per each line. Like the Camera Link models, 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 2 or 3 times faster than standard GigE Vision[™] speeds – with no loss of image quality.

Specifications

Resolution 8192 pixels

Line Rate 13 kHz, maximum—without TurboDrive (45 kHz, maximum—with TurboDrive)

Pixel Size $7.04 \, \mu \mathrm{m} \, \mathrm{x} \, 7.04 \, \mu \mathrm{m}$ Data Format $8 \, \mathrm{or} \, 12 \, \mathrm{bit} \, \mathrm{selectable}$ Output Gigabit Ethernet

Lens Mount M72 x 0.75, F-mount adapters available Responsivity 340 DN / (nJ / cm²) in 12 bit at 1x gain

Dynamic Range > 60 dB
Nominal Gain Range 1x to 10x

Size 76.0 mm x 76.0 mm x 46.7 mm

Mass < 380 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 < 7.5 W

O HD15 connector

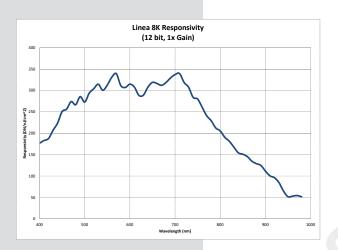
Software Platform GigE Vision v1.2 compliant Teledyne DALSA Sapera LT

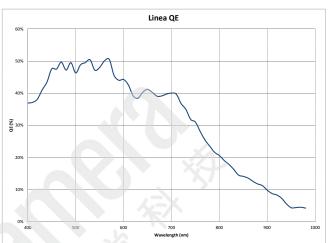
or 3rd party GenlCam™ compliant SDK

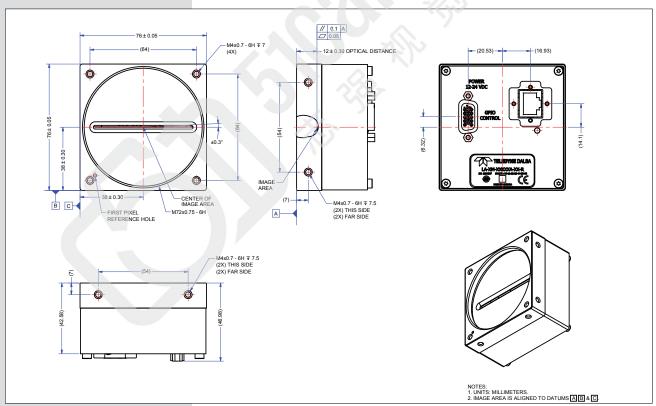
Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
LA-GM-08K08A-00-R	8192	13 kHz without TurboDrive (45 kHz with TurboDrive)	7.04 μm x 7.04 μm



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www.teledynedalsa.com

Americas Boston, USA +1 978-670-2000

sales.americas@teledynedalsa.com

Europe Krailling, Germany +49 89-89-54-57-3-80 sales.europe@teledynedalsa.com Asia Pacific Tokyo, Japan +81 3-5960-6353 sales.asia@teledynedalsa.com

Shanghai, China +86 21-6427-9081 sales.asia@teledynedalsa.com

