

Linea™ 2K and 4K GigE

Monochrome CMOS Line Scan Cameras



High Performance, Low Cost

The new Linea™ family of line scan cameras provides the uncompromising performance and features found in Teledyne DALSA's high-end line scan cameras at an unprecedented price point.

Based on the most advanced CMOS line scan technology, Linea employs a 2K or 4K single line 7.04 μm x 7.04 μm pixel array and a line rate up to 52 kHz (2k). 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.

Linea is a compact, light weight and robust camera with many attractive features, including flat-field correction, multiple ROI, smart triggers and programmable GPIO, multiple user configuration sets, and calibration coefficients for various lighting conditions.

GenICam™ compliant Linea is easy to set up and integrate using a GUI, such as Teledyne DALSA's Sopera™ camera configuration utility CamExpert.

Key Features

- High responsivity
- 2048 or 4096 pixel resolution
- Low cost and compact
- GigE Vision interface supported by Sopera LT
- Data transmission up to 100 meters.

Programmability

- Multiple Regions of Interest for calibration and data reduction
- 8 or 12 bit output, selectable
- Smart flat field and lens shading correction
- 8 programmable coefficient sets
- Flexible signalling and synchronization

Typical Applications

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

Regulatory Compliance

- CE, FCC and RoHS

Specifications

Resolution	2048 or 4096 pixels
Line Rate	Up to 52 kHz (2k) and 26 kHz (4k)
Pixel Size	7.04 μm x 7.04 μm
Data Format	8 or 12 bit selectable
Output	Gigabit Ethernet
Lens Mount	M42 x 1, C and F-mount adapters available
Responsivity	320 DN / (nJ / cm ²) in 12 bit at 1x gain
Dynamic Range	> 60 dB
Nominal Gain Range	1x to 10x
Size	62 mm x 62 mm x 30.9 mm
Mass	< 190 g
Operating Temp	0 °C to 65 °C (front plate)
Power	Hirose 6-pin, 5 V to 24 V DC
Power Dissipation	6.5 W
I / O	DB15 (VGA) connector

Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
LA-GM-02K08A-00-R	2048	52 kHz	7.04 μm x 7.04 μm
LA-GM-04K08A-00-R	4096	26 kHz	7.04 μm x 7.04 μm

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