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L2-GC-02K02B-00-A, DALSA Linea Lite Line Scan GigE Camera

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Teledyne Imaging DALSA Linea Lite GigE Line Scan Cameras - Front



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Color **Spectrum:**

General

Color Camera **Type:**

L2-GC-02K02B-00-A **Model Number:**

Manufacturer:

Teledyne DALSA

LINEA™ LITE

Camera Series:

Resolution (Pixels):

2048 x 2

Physical & Mechanical Properties

Dimensions (mm):

46 x 46 x 37 (excludes connectors and lens mount)

Weight (g):

111

Housing:

Full

Sensor

Pixel Size, H x V (µm):

14.00 x 14.00

Type of Sensor:

DALSA Line Scan CMOS

Pixel Depth:

8/12 bit

Dynamic Range (dB):

72.00

Machine Vision Standard:

GigE Vision

Read Noise (e⁻):

8.5

Maximum Line Rate (kHz):

25 (64 Burst)

Full Well Depth (ke⁻):

30

Electrical

Power Consumption (W):

<5.0

Hardware & Interface Connectivity

Interface:

GigE (PoE)

Connector:

GigE, RJ45 with Screw Locks

Power Supply:

+12 to +24V DC HD15 Connector or 48V POE

Interface Port Orientation:

Back Panel

GPIO Connector Type:

HD15 (High Density)

Threading & Mounting

Mount:

M42-Mbunt

Environmental & Durability Factors

Operating Temperature (°C):

-10 to +65

Regulatory Compliance

Certificate of Conformance:

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Product Details

- Compact 46 x 46mm Form Factor
- Line Rates from 12.5 – 50kHz
- 2k, 4k, or 8k Resolution Options Available
- Simple Integration with Gigabit Ethernet Connectivity
- Teledyne TurboDrive™ Enabled
- Monochrome and Color Options Available

Teledyne DALSA Linea Lite GigE Line Scan Cameras utilize a single line of sensor pixels to build up a two-dimensional image at a lower cost than area scan cameras. Featuring Teledyne DALSA's proprietary TurboDrive™ technology, these cameras can sustain line rates up to 50 kHz (and up to 64 kHz in burst mode) without straining your GigE network. With a compact 46 x 46mm form factor that is 45% smaller than the standard Linea line, these cameras are perfect for space-constrained setups. Teledyne DALSA Linea Lite GigE Line Scan Cameras feature higher dynamic ranges than alternative image capture methods and are available with 2k, 4k, or 8k resolutions. The 8k variants utilize two 4k/7µm pixel rows with a ½ pixel offset and allow for data from the two 4k/7µm images to be captured and reconstructed to achieve an image resolution of 8k/3.5µm in real time, which greatly facilitates the detectability of subpixel defects. These cameras are ideal for automated optical inspections, sorting systems, materials grading and inspections, and general-purpose machine vision applications. Download this [whitepaper](#) for more information on applications that would benefit from line scan camera technology.

Note: An H15 cable is required for GPIO operation and is not included with these cameras.

Sapera LT is a free image acquisition and control software development toolkit (SDK) for Teledyne DALSA'S 1D cameras / 2D cameras / 3D Laser Profiler cameras and frame grabbers. Hardware independent in nature, Sapera LT offers a rich development ecosystem for machine vision OEMs and system integrators. Sapera LT supports image acquisition from cameras and frame grabbers based on machine vision standards including GigE Vision™, CameraLink®, CameraLink HS™, CoaXpress®, and USB3 Vision™.

