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L2-GC-04K03N-00, DALSA Linea2 Multispectral Line Scan 5GigE Camera

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Teledyne Imaging DALSA Linea2 5GigE Line Scan Cameras - Front



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Multispectral **Spectrum:**

General

Multispectral **Type:**

L2-GC-04K03N-00 **Model Number:**

Manufacturer:

Teledyne DALSA

LINEA2™

Camera Series:

Resolution (Pixels):

4096 x 4

Physical & Mechanical Properties

Dimensions (mm):

62 x 62 x 49.3 (excludes connectors and lens mount)

Weight (g):

<280

Housing:

Full

Sensor

Pixel Size, H x V (µm):

7.00 x 7.00

Type of Sensor:

DALSA Line Scan CMOS

Pixel Depth:

8/12 bit

Dynamic Range (dB):

71.00

Machine Vision Standard:

GigE Vision

Read Noise (e⁻):

9.5

Maximum Line Rate (kHz):

32 (x4 RGB + NIR)

Full Well Depth (ke⁻):

32

Electrical

Power Consumption (W):

13

Hardware & Interface Connectivity

Interface:

5GigE (PoE)

Connector:

5GigE, 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

- Color and Multispectral Options Available
- Line Rates of 32 or 40kHz
- Simple Integration with 5Gbase-T (5GigE) Ethernet Connectivity
- 4k Resolution Option Available

Teledyne Imaging DALSA Linea2 5GigE 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. The color camera features a line rate of 40kHz and a resolution of 4096 x 3 with 7µm pixels, whereas the multispectral camera features a line rate of 32kHz with a resolution of 4096 x 4 and 7µm pixels. The high framerates and dedicated RGB and NIR channels enable the detection of sensitive color differences in high-speed applications. Teledyne Imaging DALSA Linea2 5GigE Line Scan Cameras are ideal for automated optical inspections, sorting systems, materials grading and inspections, and general-purpose machine vision applications. The multispectral cameras include sensors that can capture RGB color and NIR in a single scan with minimal spectral crosstalk between the color and NIR channels due to their unique wafer-level dichroic filter coating. 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™.

