

Spyder 3 GigE

Dual Line Scan Cameras



Key Features

- Broadband responsivity up to 408 DN/(nJ/cm²) @ 10 dB gain
- Gigabit Ethernet interface
- High or low speed (40 or 80 MHz)
- Up to 68 kHz line rates

Programmability

- Graphical user interface
- Programmable gain, offset, line rates, trigger mode, test pattern output, and camera diagnostics
- Selectable high or low sensitivity mode
- Horizontal binning, vertical binning as Tall Pixel Mode
- Flat field correction

Typical Applications

- FPD inspection
- Postal sorting
- Wood/tile/steel inspection
- 100% print inspection
- Food inspection
- Web inspection
- Container inspection
- Pick and place

Overview

3x the responsivity of its predecessor and a Gigabit Ethernet interface.

The Spyder 3 GigE surpasses its predecessor, the Spyder 2, with 3x more responsivity. At its core is DALSA's latest dual line scan technology that achieves unprecedented responsivity and throughput rates of 80 Mpixels/s.

The Spyder 3 GigE is fully programmable, offering precise control over key performance variables such as gain and offset. A provided GUI allows you to begin imaging in minutes.

For those OEMs migrating from the Spyder or Spyder 2, the Spyder 3 GigE does not require a new optics design because pixel size and fill factor remain unchanged at 14 μ m and 100% respectively. Also, with a GigE interface, you no longer need a frame grabber which results in significant system cost savings.

In addition to its high performance and affordability, Spyder 3 GigE also incorporates advanced features such as flat field correction and Correlated Double Sampling (CDS).

Specifications

Resolution	1024 / 2048
Data Rate	40 / 80 Mega pixels/second
Max. Line/Frame Rate	68 / 36 kHz
Pixel Size	14 μ m
Data Format	8, 12 bit
Output	Gigabit Ethernet
Lens Mount	M42 x 1, C, F mount
Responsivity	Up to 408 DN/(nJ/cm ²) @ 10 dB
Dynamic Range	Up to 1400 : 1
Nominal Gain Range	\pm 10 dB
Size	72 (h) x 60 (w) x 50 (l) mm
Mass	<300 g
Operating Temp	0 $^{\circ}$ C to 50 $^{\circ}$ C
Power Supply	+12 V to +15 V
Power Dissipation	<8.5 W
Regulatory Compliance	CE
Control	RJ-45, 15-pin mini-DSUB
Data	RJ-45
Power	Hirose 6 HR10 pin
Example Part Number	SG-10-02K80

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The Spyder 3 GigE sports 3x the responsivity of the Spyder 2 while maintaining the same dynamic range.

The GigE interface eliminates the frame grabber, reducing system costs.

