NEW! Spyder3 GigE (Preliminary)
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 Spyder3 GigE surpasses its predecessor, the Spyder2, with 3x more responsivity. At its core is DALSA's latest line scan technology that achieves unprecedented responsivity and throughput rates of 80 MHz.

The Spyder3 GigE is fully programmable, offering precise control over key performance variables such as gain and offset. A GUI is provided allowing you to begin imaging in minutes.

For those OEMs migrating from the Spyder or Spyder2, the Spyder3 GigE does not require a new optics design because pixel size and fill factor remain unchanged at 14 μm and 100% respectively. Also, with a GigE interface, you no longer need a frame grabber which means significant system cost savings.

In addition to its high performance and affordability, Spyder3 GigE also incorporates advanced features such as flat field correction and CDS (Correlated Double Sampling).

Specifications

Resolution	1024 / 2048
Data Rate	40 / 80 MHz
Max. Line/Frame Rate	68.5 / 36 kHz
Pixel Size	14 μm
Data Format	8, 12 bit
Output	Gigabit Ethernet
Lens Mount	M42 x 1, C, F mount
Responsivity	408 DN/(nJ/cm^2) @ 10 dB
Dynamic Range	53.7 dB
Nominal Gain Range	$\pm$10 dB
Size	60 mm x 72 mm x 60 mm
Mass	<275 g
Operating Temp	0 °C to 50 °C
Power Supply	12 V to 15 V
Power Dissipation	<9 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 Spyder3 GigE sports 3x the responsivity of the Spyder2 while maintaining the same dynamic range. The GigE interface eliminates the frame grabber, reducing system costs.

Spyder GigE Responsivity. 0dB Gain (8 Bit)

— High Sensitivity Responsivity
— Low Sensitivity Responsivity

M42x1 THREAD DEPTH 4.0

30.000±0.050 CCD IMAGING CENTER

36.000±0.050 CCD IMAGING CENTER

72   57.0

7.5

42.0

9.0

60

M3x0.5 THREAD DEPTH 5.0 (4X)

60

50

6.56±0.25 TO CCD IMAGING SURFACE

30

GPIO

STATUS

ETHERNET   POWER

10

19   15

22   12

M3x0.5 THREAD DEPTH 5.0 (4X)

6.0

4.0   32.0

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