# 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  $\mu$ m 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 Data Rate Max. Line/Frame Rate Pixel Size Data Format Output Lens Mount Responsivity **Dynamic Range** Nominal Gain Range Size Mass **Operating Temp** Power Supply **Power Dissipation Regulatory Compliance** Control Data Power Example Part Number

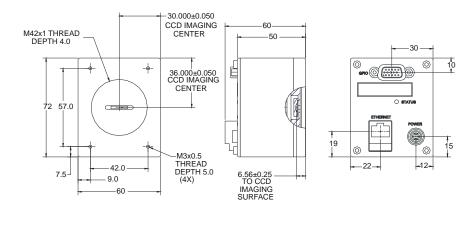
1024 / 2048 40 / 80 MHz 68.5 / 36 kHz 14 µm 8, 12 bit **Gigabit Ethernet** M42 x 1, C, F mount 408 DN/(nJ/cm<sup>2</sup>) @ 10 dB 53.7 dB +10 dB 60 mm x 72 mm x 60 mm <275 g 0 °C to 50 °C 12 V to 15 V <9 W CE RJ-45, 15-pin mini-DSUB RJ-45 Hirose 6 HR10 pin SG-10-02K80

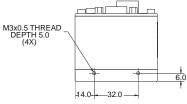


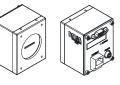
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The Spyder3 GigE sports 3x the Spyder GigE Responsivity. 0dB Gain (8 Bit) 180 responsivity of the Spyder2 while -High Sensitivity Responsivity 160 - Low Sensitivity Responsivity Responsivity {DN/(nJ/cm2)} maintaining the same dynamic range. 140 120 The GigE interface eliminates the 100 frame grabber, reducing system costs. 80 60 40 20 0 400 500 600 800 1000 1100 700 900 Wavelength (nm)









Worldwide Sales, 605 McMurray Rd., Waterloo, Ontario, Canada N2V 2E9 Tel: 1.519.886.6000 sales.americas@dalsa.com European Sales, Breslauer Str. 34, D-82194 Gröbenzell (Munich), Germany Tel: 49.8142.46770 sales.europe@dalsa.com Asia Pacific Sales, Ikebukuro East 13F, 3-4-3 Higashi-Ikebukuro,Toshimo-ku, Tokyo, 170-0013, Japan Tel: 81.3.5960.6353 sales.asia@dalsa.com W

20-Jun-06 03-70-00289-02 www.dalsa.com