Piranha HS NIR 8k Camera TDI Line Scan Camera with Enhanced QE in Near-Infrared



Key Features

- Imaging in near-infrared
- 8192 pixels with 256 TDI stages
- 34 kHz line rate, max
- 281 Mpix/s throughput
- Bidirectional operation
- Lateral antiblooming
- · Camera Link interface

Programmability

- Selectable TDI stages—16, 64, 128, 192, 240, 256
- Area mode of operation for ease of alignment
- Up to four user sets of coefficients
- Mirroring and forward / reverse control
- Flat field correction

Typical Applications

- Solar cell inspection
- PCB / Electronics inspection
- · Large web applications
- Food and drug inspection

Improved sensitivity in near-infrared wavelengths

For certain applications—such as solar cell inspection—improved sensitivity in the nearinfrared region is critical for capturing images beyond the visible spectrum.

Teledyne DALSA's Piranha HS NIR 8k TDI camera is designed to meet the requirements of applications imaging in the near-infrared wavelengths. TDI technology enables multiple exposures to achieve excellent signal-to-noise ratio at high speeds and under low light conditions.

This High Sensitivity NIR camera extends Teledyne DALSA's industry leading high sensitivity product line and provides a cost-effective solution for imaging in the near-infrared wavelengths from 700 nm to 1050 nm.

Specifications

Resolution Data Rate Max. Line Rate Pixel Size Data Format Output Lens Mount Responsivity @ 1000 nm Broadband Responsivity Dynamic Range Nominal Gain Range Size Mass Operating Temp Power Supply Power Dissipation Regulatory Compliance Control Data Power Part Number

8192 x 256 TDI pixels 281 Mpix/s 34 kHz $7 \mu m \times 7 \mu m$ 8 bit or 12 bit. selectable Camera Link M72 x 0.75 430 DN_{8-bit} / (nJ/cm²) @ 0 dB 1240 DN_{a-bit} / (nJ/cm²) @ 0 dB 62 dB 0 dB to + 20 dB 150 mm x 80 mm x 65 mm 650 g 0 °C to 50 °C 12 V to 15 V DC 18.5 W CE and RoHS MDR26 Camera Link Shared with Control Hirose HR10 6-pin HN-80-08K40-00-R



Piranha HS NIR 8k Camera

TDI Line Scan Camera with Enhanced QE in Near-Infrared



www.teledynedalsa.com

Americas

Boston, USA +1 978-670-2000 sales.americas@teledynedalsa.com Europe Krailling, Germany +49 89-89-54-57-3-80 sales.europe@teledynedalsa.com

Asia Pacific

Tokyo, Japan +81 3-5960-6353 sales.asia@teledynedalsa.com Shanghai, China +86 21-3368-0027 sales.asia@teledynedalsa.com

Teledyne DALSA has its corporate offices in Waterloo, Canada

Teledyne DALSA reserves the right to make changes at any time without notice. Teledyne DALSA © 2012.

Revision number 03-070-20043-02. Revision date October 05 2012.

