Piranha HS HS-S0-12Kxx

High Sensitivity Line Scan Cameras



Key Features

- 12, 000 pixels
- 5.2 μm pixel size
- Max 90 kHz line rate
- Up to 1.08 Gpix/s
- Responsivity 300 DN/(nJ/cm²) @ 0 dB. 8 bit
- Bidirectional
- Antiblooming
- HSLink interface

Programmability

- Up to 256 TDI stages selectable · Selectable area mode of
- operation for ease of alignment • Up to four sets of flat field
- correction coefficients
- · Mirroring and forward/reverse control
- · Flat field corrections

Typical Applications

- Flat panel display inspecti
- PCB/electronics inspectior
- · Large web applications · High performance document
- scanning
- · Low light applications

Overview

12k resolution, 1.08 gigapixels per second throughput, and a fast 90 kHz line rate

The Piranha HS 12k high sensitivity camera heralds a breakthrough in TDI digital imaging technology. With a maximum line rate of 90 kHz, a throughput of 1.08 gigapixels per second, and 12, 000 pixel resolution, the Piranha HS 12k camera provides optimal system performance in a compact form factor.

Using our new HSLink interface technology, this HS 12k camera is the first standard product in the marketplace capable of transmitting over 1 gigapixel per second throughput.

The camera is capable of bidirectional operation with up to 256 stages of selectability, while preventing overexposure with antiblooming features. Camera configuration is flexible and all 250 te software is controllable.

Specifications

Resolution Data Rate Max. Line/Fran ne Rate

Pixel Size Data Format Output

Lens Mount Responsivity Dynamic Range Nominal Gain Range

Size Mass

Data

Power

- **Operating Temp**
- Power Supply

Power Dissipation **Regulatory Compliance** Control

Example Part Number

12000 x 256 pixels TDI Up to 1.08 Gpix/s 90 kHz 5.2 μm x 5.2 μm 8 bit HSI ink M72 x 0.75 300 DN/(nJ/cm²) at 0 dB, 8 bit 500:1 0 dB to 20 dB 180 mm (H) x 90 mm (W) x 92.1 mm (D) < 1500 g 0 °C to 50 °C 24 VDC < 39 W RoHS and CE HSLink Shared with Control





Piranha HS HS-S0-12Kxx High Sensitivity Line Scan Cameras





www.teledynedalsa.com

Americas

Boston, USA Tel: +1 978-670-2000 $sales.americas@teledynedalsa.com \\ sales.europe@teledynedalsa.com \\ sales.asia@teledynedalsa.com \\ sales.asia@teledynedals$

Europe Munich, Germany Tel: +49 8142-46770 Asia Pacific Tokyo, Japan

+81 3-5960-6353

Teledyne DALSA is an international leader in digital imaging and semiconductors and has its corporate offices in Waterloo, Ontario, Canada.



All trademarks are registered by their respective companies. Teledyne DALSA reserves the right to make changes at any time without notice. @ Teledyne DALSA 2011. 03-070-20035-01

TELEDYNE DALSA A Teledyne Technologies Company