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 inspection
- PCB/electronics inspection
- · 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 software is controllable.

Specifications

Resolution 12000 x 256 pixels TDI
Data Rate Up to 1.08 Gpix/s

Max. Line/Frame Rate 90 kHz

Pixel Size $5.2 \mu \text{m} \times 5.2 \mu \text{m}$

 Data Format
 8 bit

 Output
 HSLink

 Lens Mount
 M72 x 0.75

Responsivity 300 DN/(nJ/cm²) at 0 dB, 8 bit

Dynamic Range 500:1

Nominal Gain Range 0 dB to 20 dB

Size 180 mm (H) x 90 mm (W) x 92.1 mm (D)

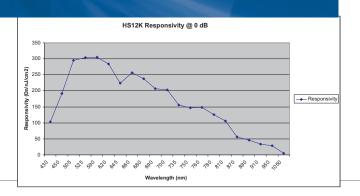
Mass< 1500 g</th>Operating Temp0 °C to 50 °CPower Supply24 VDCPower Dissipation< 39 W</td>Regulatory ComplianceRoHS and CEControlHSLink

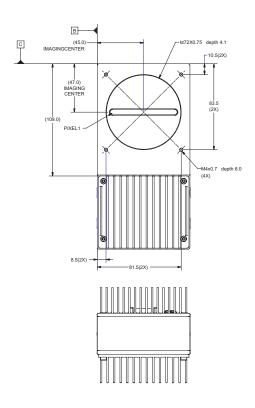
Data Shared with Control
Power Lemo 2 pin
Example Part Number HS-S0-12k40-00-R

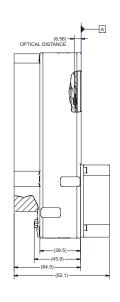


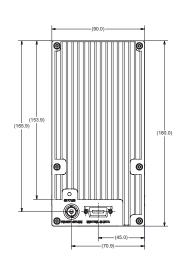
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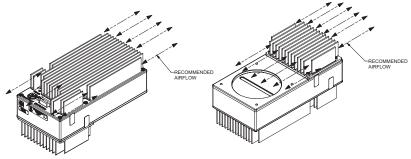
A breakthrough High Sensitivity TDI camera.











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

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