Piranha HS HS-82-04Kx0 High Sensitivity Line Scan Cameras



Piranha HS HS-82-04Kx0

Key Features

- (110 kHz line rate)
- 4096 pixels x 48 TDI stages
- 320 / 640 megapixels/second
- Responsivity up to 2300 DN/(nJ/cm²)
- 15 second calibration time
- Bidirectional
- Antiblooming
- Configurable Medium or Full Camera Link

Programmability

- Stage selectability up to 48 stages
- 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
- Postal sorting (flats)
- High performance document scanning
- Low light applications
- · Large web applications
- High speed scanning

Overview

4k resolution, 50X greater responsivity than traditional line scan cameras (110 kHz line rate)

The Piranha HS camera family represents DALSA's latest generation of high sensitivity, TDI based cameras. With a maximum line rate of 110 kHz and throughput up to 640 MHz, the Piranha HS HS-82-04Kx0 provides the fastest speed available in a TDI camera. Camera alignment is also made easier with the selectable area mode of operation.

Camera configuration is extremely flexible and the number of Camera Link taps, throughput, and line rate are all software controllable.

The camera is capable of bidirectionality with up to 48 stages of selectability, while preventing overexposure with antiblooming.

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

4096 x 48 TDI 320 / 640 megapixels/second 110 kHz 14 *µ*m 8. 12 bit Med. Full Camera Link M72 x 0.75 2300 DN/(nJ/cm²)broadband,8 bit,10 dB 56 dB ±10 dB 150 mm x 80 mm x 65 mm <800 g 0 °C to 50 °C 12 V to 15 V <20 W RoHS and CE (pending) MDR26 Camera Link Shared with Control Hirose HR10 6 pin HS-82-04Kx0



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High Sensitivity Line Scan Cameras



unit: mm

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

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