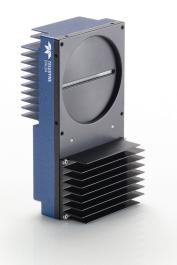
Piranha ES ES-82-04Kx0

Enhanced Sensitivity Line Scan Cameras



Key Features

- 110 kHz line rate
- 4096 pixels x 16 TDI stages
- 320 / 640 megapixels/second
- Responsivity up to 3940 DN/(nJ/cm²) 0 dB, 12 bit
- 15 second calibration time
- Bidirectional
- Antiblooming
- Configurable Medium or Full Camera Link

Programmability

- Stage selectability up to 16 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

- Solar cell inspection
- Flat panel display inspection
- Postal sorting (flats)
- High performance document scanning
- · Low light applications
- Large web applications
- · High speed scanning

Overview

4k resolution, 15x greater responsivity than traditional line scan cameras, 110 kHz line rate

The Piranha ES camera family represents our latest generation of enhanced sensitivity, TDI based cameras. With a maximum line rate of 110 kHz and throughput up to 640 MHz, the Piranha ES ES-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 16 stages of selectability, while preventing overexposure with antiblooming.

Specifications

Resolution 4096 x 16 TDI

Data Rate 320 / 640 megapixels/second

Max. Line/Frame Rate 110 kHz Pixel Size 14 μ m Data Format 8, 12 bit

Output Med, Full Camera Link

Lens Mount M72 x 0.75

Responsivity 3940 DN/(nJ/cm²)broadband,12 bit,0 dB

Dynamic Range 56 dB
Nominal Gain Range ±10 dB

Size 150 mm x 80 mm x 65 mm

 Mass
 < 800 g</td>

 Operating Temp
 0 °C to 50 °C

 Power Supply
 12 V to 15 V

 Power Dissipation
 < 20 W</td>

Regulatory Compliance RoHS and CE (pending)
Control MDR26 Camera Link

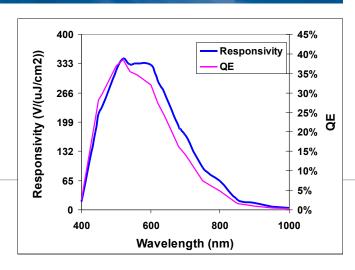
Data Shared with Control
Power Hirose HR10 6 pin
Example Part Number ES-82-04Kx0

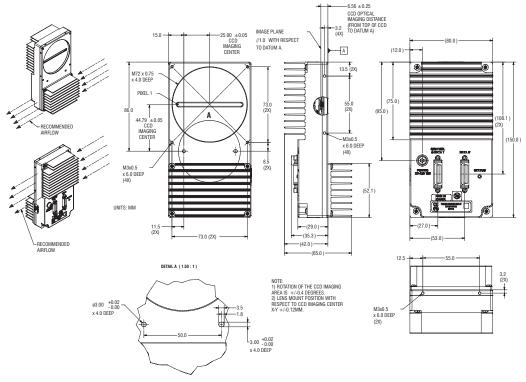


Piranha ES ES-82-04Kx0

Enhanced Sensitivity Line Scan Cameras

These Enhanced Sensitivity Line Scan cameras use TDI technology to maximize photon capture at these high line rates. With a line rate of 110 KHz and 4k resolution, these cameras inspect and detect with unrivalled precision and speed.





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

