Piranha3 P3-S0-16k40-00-R

CMOS Line Scan Cameras



Key Features

- CMOS line scan
- 16k pixel resolution
- Line rates up to 72 kHz and 1,146 MPix/s throughput
- 100% fill factor
- Exposure control
- 1000x antiblooming
- On-chip ADC

Programmability

- Can save up to four sets of flat-field correction coefficients
- Adjustable gain and offset
- Test pattern and diagnostics

Typical Applications

- Flat-panel display inspection
- Printed circuit board inspection
- Parcel sorting
- High performance document scanning
- High throughput applications

Overview

The new Piranha3 16k CMOS line scan cameras have arrived delivering greater speed and more resolution than ever before.

The Piranha3 16k CMOS line scan camera raises resolution and speed to a new level. The 16k pixel resolution and fast 72 kHz line rate is ideally suited for the inspection of large-area flat-panel displays and printed circuit boards.

With the Piranha3 16k camera you can experience more throughput than ever before in the same amount of time, plus our new HSLink interface enables higher speeds and a simpler system design overall.

The Piranha3 cameras are our largest resolution and highest throughput line scan cameras.

Specifications

Resolution16, 384 pixelsData Rate1,146 MPix/sLine Rate72 kHz Max.Pixel Size $3.5 \mu m \times 3.5 \mu m$ Data Format8 bit or 12 bit selectable

Output HSLink
Lens Mount M72 x 0.75

Responsivity 2.50 DN/(nJ/cm²) broadband @ 0 dB, 8 bit

Dynamic Range 65 dl

Nominal Gain Range 0 dB to +20 dB

Size 80 mm (W) x 150 mm (H) x 54 mm (D)

lass TB

Operating Temp $0 \, ^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$, measured at the front plate

Power Supply 12 V to 15 V
Power Dissipation 20 W
Regulatory Compliance Ce and RoHS
Control HSLink

 Data
 Shared with Control

 Power
 Hirose 12 V to 15 V DC

 Part Number
 P3-S0-16K40-00-R

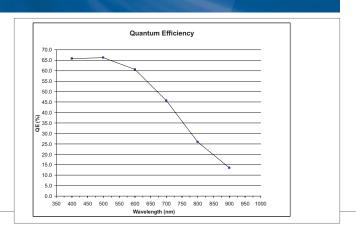


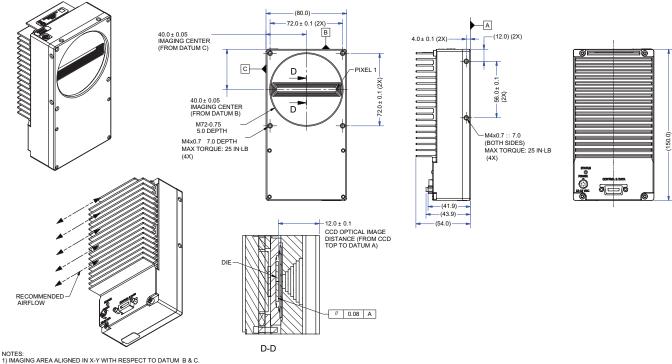
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Line Scan Cameras

With 1,146 MPix/s throughput and 16k of resolution, these cameras inspect and detect with unrivalled precision and speed.

The new Piranha3 cameras allow you to take your inspection system to the next level.





2) ROTATION OF THE CCD IMAGING AREA IS ± 0.6°.

3) LENS MOUNT POSITION WITH RESPECT TO IMAGING AREA: X-Y ± 0.175 MM.

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