Piranha Color PC-30 Line Scan Cameras



Key Features

- 2k or 4k color trilinear sensor
- 3 pixel center-to-center spacing between pixel rows
- Spatially corrected output
- · Forward and reverse scanning
- 32.3 kHz (2k) or 17.6 kHz (4k) maximum line rates
- Base or Medium Camera Link

Programmability

- Programmable flat field correction and white balancing
- Programmable gain and offset
- 8 or 12 bit output
- Adjustable integration time and line rate
- Test pattern, line statistics, and camera diagnostics

Typical Applications

- 100% print inspection
- Electronic manufacturing inspection
- Postal/parcel sorting
- High performance document scanning/image lift
- Full web inspection
- High-end industrial inspection
- Food inspection

Overview

Dream in color—high speed, high resolution, high fidelity color.

The Piranha Color cameras deliver superb color fidelity at the fastest line rates and highest resolutions in the industry. The RGB trilinear sensor eliminates artifacts associated with prism cameras by placing a separate row of pixels for each color on a single sensor die. Our advanced design minimizes distance between rows (equivalent to three pixels center-to-center) to minimize image artifacts due to synchronization.

The result is higher quality images at higher speed. With a single power supply and Camera Link interface, the camera is both easy to use and powerful, offering programmable gains and offsets for each color.

If you're dreaming in color, take a look at a Piranha color camera. Dreams do come true.

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

2048 pixels / 4096 pixels 3 x 60 MHz or 80 MHz 32.3 kHz / 17.6 kHz $14 \,\mu m \times 14 \,\mu m$ (2k) $10 \,\mu m \ge 10 \,\mu m (4k)$ 8 bit, 12 bit selectable Base or Medium Camera Link F mount or M72 x 0.75 see graph > 50 dB ±10 dB 76 mm x 105 mm x 50 mm < 450 a 0 °C to 50 °C 12 V to 15 V 12 W CF MDR26 Camera Link Shared with Control Hirose HR10 6 pin PC-30-04K80



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The Piranha Color camera uses a 2K Spectral Responsivity, FFC on trilinear CCD sensor with 3 lines of - Blue Gree Red pixels: one blue, one red and one green. ength (nm) 4K Spectral Responsivity, FFC on 20 46.5 – OPTICAL DISTANCE ານມານນາງ -M3x0.5 5.0 DEEP 2X Wavelength (nm) æ L_{6.0 2X} L_{5.0} 38.0 7.5 -1/4-20 UNC 9.0 DEEP 6 76.0 MAX 3.5 2X 69.0 2X--22.8 6.56 ±0.25 OPTICAL DISTANCE โทกกกกกกไ 16.0 14.6.2X 46.8 2X າມມາມານ M3x0.5 X 5.0 DEEP 4X F-MOUNT CONFIGURATION M2x0.4 X 7.0 DEEP 4X IMAGE CENTER-62.0 PIXEL 1 - 19.56 OPTICAL DISTANCE րտասվ 46.8 2X 78.0 2X 35.69 0.05 Ó ò 🛉 39.0 2X 3.00 +0.02 22.9 19 28 ¢, L_{3.00} +0.02 3.5 2X ໄກການນານ -3.5 (6.60) 4.52 ± 0.05 (4K) 10.66 ± 0.05 (2K) 10.0 2X (13.00) - 32.8 2X -- 5.4 2X -64.0 2X-ותתתתחו -50.0 RECOMMENDED AIR FLOW (TOP AND BOTTOM) M72 MOUNT CONFIGURATION
 NOTES:
 1) TOLERANCE (UNLESS OTHERWISE SPECIFIEQ)

 .XX
 ±.30

 .X
 ±.5

 2) ROTATION WRT CAMERA EDGE IS.2 MAX
 UNITS: MM

www.teledynedalsa.com

AmericasEuropeAsia PacificBoston, USAMunich, GermanyTokyo, JapanTel: +1978-670-2000Tel: +49 8142-46770+81 3-5960-6353sales.americas@teledynedalsa.comsales.europe@teledynedalsa.com

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

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