

Piranha 2 P2-2x-xxx40 (10 μm)

Line Scan Cameras



Key Features

- 80 MHz throughput
- 10 μm pixels
- Resolutions from 1k to 4k
- High responsivity
- Base Camera Link™
- Single 12 V to 15 V power supply
- Compact design

Programmability

- Programmable pixel to pixel correction
- Adjustable analog and digital gain and offset
- 8 or 10 bit output
- Adjustable integration time and line rate
- Test pattern, line statistics, and camera diagnostics

Typical Applications

- Printed circuit board inspection
- High performance document scanning/image lift
- Postal/parcel sorting
- Flat panel display inspection
- General machine vision

Overview

Base Camera Link, 10 μm pixels and resolution up to 4k with proven performance.

Piranha 2 delivers superb performance with a wide selection of resolutions. Base Camera Link with two 8 or 10 bit outputs at 40 MHz deliver 80 MHz throughput, and boosted responsivity means the Piranha 2 needs less light. Our 10 μm models are available in resolutions from 1k to 4k.

The camera is small, light, and uses a single power supply. The compact design is shallow and small. Cabling interfaces are simplified with the Base Camera Link™ high-speed serial standard. The camera is very sensitive, but still provides quieter, more uniform output thanks to CDS (correlated double sampling) and embedded flat-field correction algorithms. Gain and offset are fully programmable for each output channel, and the camera can output test patterns for cable/system troubleshooting. All resolutions provide appropriate, readily-available standard lens options (C mount, F mount, and M72 x 0.75).

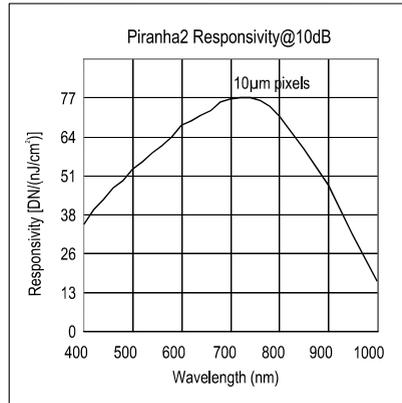
Specifications

| | |
|-----------------------|-------------------------------------|
| Resolution | 1024 / 2048 / 4096 |
| Data Rate | 2 x 40 MHz |
| Max. Line/Frame Rate | 65 / 35 / 18 kHz |
| Pixel Size | 10 μm |
| Data Format | 8, 10 bit |
| Output | Base Camera Link |
| Lens Mount | M72 x 0.75, C, F mount |
| Responsivity | 76 DN/(nJ/cm ²) @ 10 dB |
| Dynamic Range | 54 dB |
| Nominal Gain Range | ± 10 dB |
| Size | 50 x 85 x 50 / 85 x 85 x 53.7 mm |
| Mass | <450 g |
| Operating Temp | 10 °C to 50 °C |
| Power Supply | 12 V to 15 V |
| Power Dissipation | <9 W |
| Regulatory Compliance | CE |
| Control | MDR26 Camera Link |
| Data | Shared with Control |
| Power | Hirose HR10 6 pin |
| Example Part Number | P2-22-04K40 |

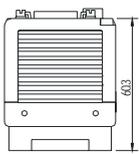
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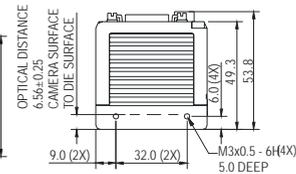
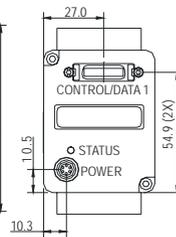
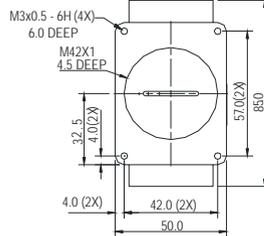
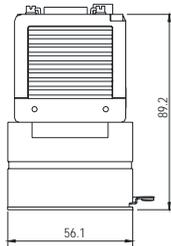
With established performance and wide customer base, the Piranha 2 is the camera generation known to have brought line scan performance to the next level.



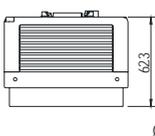
1k/2k, 10 μm 2 TAP WITH C-MOUNT



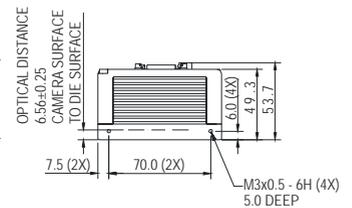
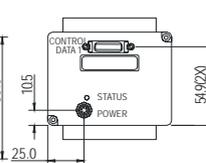
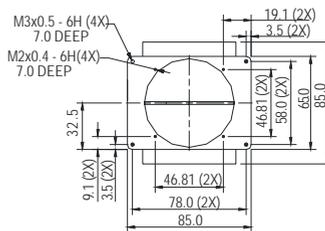
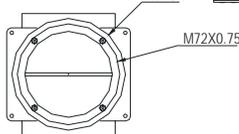
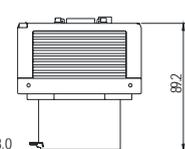
1k/2k, 10 μm 2 TAP WITH F-MOUNT



4K 10 μm 2 TAP WITH LARGE FORMAT ADAPTER



4K 10 μm 2 TAP WITH F MOUNT



All units in mm.