Line Scan Cameras

Piranha2 P2-2x

The best gets better.

Piranha2 is smaller, faster, and more responsive than the original...and it has Camera Link™ too.

Line Scan imagers use a single line of sensor pixels to build up a twodimensional image. Fax machines are lowresolution examples. Piranha2 takes performance to a higher level. Two 8 or 10-bit outputs at 40MHz deliver 80MHz throughput, and boosted responsivity means the Piranha2 needs less light than the original, even at higher speed.

Available in resolutions from 1k to 8k, the camera is small, light, and uses a single power supply. The compact design is shallower than previous cameras for the 6k and 8k models, and smaller in every dimension for 1, 2, and 4k models. Cabling and interface are simplified with the Camera Link[™] high-speed serial standard. The camera is more 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 M72x0.75 photography standards).

Piranha2 is the most powerful linescan camera in the world. Set it loose on your toughest imaging challenge.

Features

- 80 MHz throughput
- Resolutions from 1k to 8k
- High responsivity
- Programmable pixel-to-pixel correction, integration time, line rate, gain, offset, bit depth, test pattern, and diagnostics
- High speed serial output (Camera Link[™])
- Single 12V to 15V power supply

Specifications

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Resolution	1024/2048/4096/6144/8192	
Pixel Size	10 / 10 / 7 / 7 / 7µm	
Aperture	10.2 / 20.5 / 28.7 43.0 / 57.4mm	
Lens Mount	See Chart	
Max. Line/Frame Rate	65 / 35 / 18 / 12 / 9kHz	
Data Rate	2x40MHz	
Data Format	2x8 or 2x10-bit via Camera Link	
Responsivity	64DN/(nJ/cm²) @10dB	
Dynamic Range	up to 492:1	
Nominal Gain Range	$\pm 10 dB$	
Size	50x85x50 or 85x85x50mm	
Mass	<450g	
Operating Temp	front plate: 10-50°C	
Power Supply	12 to 15V	
Power Dissipation	<7.5W	
Regulatory Compliance	CE, MIL-STD-810E	
Example Part Number	P2-22-04K40	

Applications

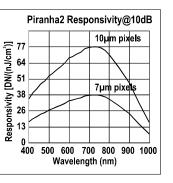
- Printed circuit board inspection
- High performance document scanning/image lift
- Postal/parcel sorting
- Flat panel display inspection

Sensor

The P2-2x uses DALSA's latest sensor with advanced "pinned photodiode" pixels using DALSA advanced surface gated photodiode technology. Contact DALSA for more information.

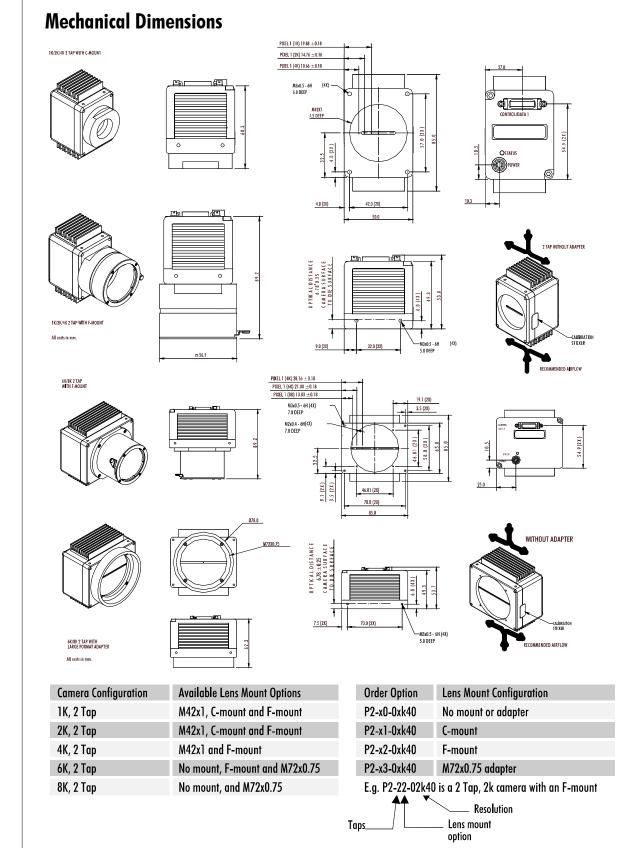
Connectors

Control	MDR26 Camera Link
Data	MDR26 Camera Link
Power	Hirose HR10 6-pin
Other	none





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For More Information

For more detailed information on this and other products, including pinouts, timing, and signal descriptions, see the user manual. Contact your local rep or visit our website at http://vfm.dalsa.com/piranha2.

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This information subject to change without notice.