Piranha2 P2-2x-xxx40

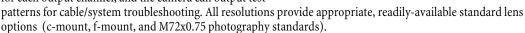
Piranha2 is smaller, faster, and more responsive than the original...and it has Camera Link™ too.

Line Scan imagers use a single line of sensor pixels to build up a twodimensional image. Fax machines are lowresolution examples.

The best gets better.

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 and smaller than previous cameras. Cabling interfaces are simplified with the Base Camera ${\rm Link}^{\rm TM}$ highspeed 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



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
- Base Camera Link[™]
- Single 12V to 15V power supply
- Diagnostic LED for immediate feedback

Programmability

- Programmable pixel-to-pixel correction
- Adjustable analog and digital gain
- Analog and digital offset control
- 8 or 10 bit selectable 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

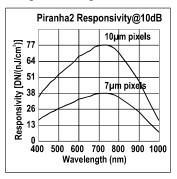
Camera Specifications

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Resolution	1024/2048/4096/6144/8192	
Data Rate	2x40MHz	
Max. Line/Frame Rate	65 / 35 / 18 / 12 / 9kHz	
Pixel Size	10/10/7/7/7 μ m	
Data Format	2x8 or 2x10-bit via Base Camera Link	
Lens Mount	See Chart	
Responsivity	64DN/(nJ/cm²) @10dB	
Dynamic Range	up to 492:1	
Nominal Gain Range	±10dB	
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	
Control	MDR26 Camera Link	
Data	Shared with Control	
Power	Hirose HR10 6-pin	
Example Part Number	P2-22-04K40	

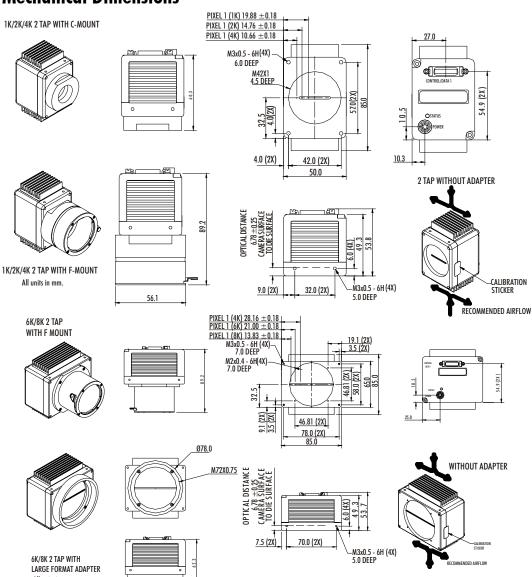


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Responsivity



Mechanical Dimensions



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Camera Configuration	Available Lens Mount Options
1K, 2 Tap	M42x1, C-mount and F-mount
2K, 2 Tap	M42x1, C-mount and F-mount
4K, 2 Tap	M42x1 and F-mount
6K, 2 Tap	No mount, F-mount and M72x0.75
8K, 2 Tap	No mount, and M72x0.75

Order Option	Lens Mount Configuration
P2-x0-0xk40	No mount or adapter
P2-x1-0xk40	C-mount
P2-x2-0xk40	F-mount
P2-x3-0xk40	M72x0.75 adapter
E.g. P2-22-02k40 is a 2 Tap, 2k camera with an F-mount	



For More Information

For more detailed information on this and other products, including pinouts, timing, software, and signal descriptions see the user's manual. The user's manual is available at http://vfm.dalsa.com. You can also contact your local rep or visit our website at http://vfm.dalsa.com.

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