

Piranha CL-P1

Line Scan imagers use a single line of sensor pixels to build up a two-dimensional image. Fax machines are low-resolution examples.

Piranha: the benchmark for linescan performance.

Unmatched speed sets Piranha a step above all other line scan cameras. With two outputs running at 25MHz, Piranha cameras deliver line rates up to 79.2kHz. Careful design of both sensor and camera combine to provide unparalleled performance.

Piranha's 100% fill factor and 10-bit digitization (8 bits output) ensures superior images, and its LVDS communication protocol adapts well to industrial environments. With low noise, high responsivity, and CE compliance, the Piranha defines superior performance.

System designers all over the world continue to make Piranha the linescan benchmark.

The CL-P1 also offers models configured with 5x more gain for higher responsivity. These 5x models are available in 1024, 2048, and 4096 resolutions.



Features

- Two outputs for high line rate
- 100% fill factor
- Low lag pixels
- Antiblooming
- Electronic exposure control

Specifications

Resolution	512 / 1024 / 2048 / 4096
Pixel Size	10 μ m x 10 μ m
Aperture	5.1 / 10.2 / 20.5 / 41mm x 10 μ m
Lens Mount	C / C / F / F-mount
Max. Line/Frame Rate	79 / 43 / 23 / 11kHz
Data Rate	2x25MHz
Data Format	2x8-bit LVDS
Responsivity	4.12 or 20.6DN/(nJ/cm ²)
Dynamic Range	496:1
Nominal Gain Range	1 or 5x
Size	89x89x83mm
Mass	0.8kg
Operating Temp	0-50 C
Power Supply	+5V, -5V, +15V
Power Dissipation	< 9W
Regulatory Compliance	CE
Example Part Number	CL-P1-1024W-ECEW

Applications

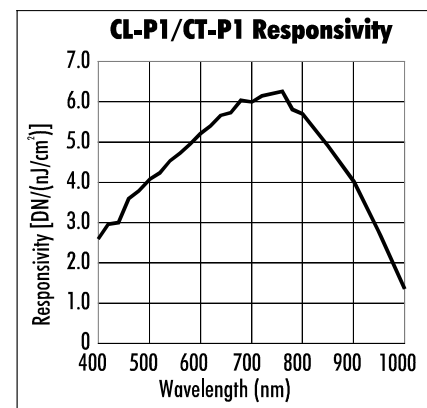
- High performance document scanning/image lift
- Optical character recognition
- Industrial inspection

Sensor

The CL-P1 uses DALSA's IL-P1 sensor with low-voltage, low-lag pixels. See the IL-P1 datasheet for more details.

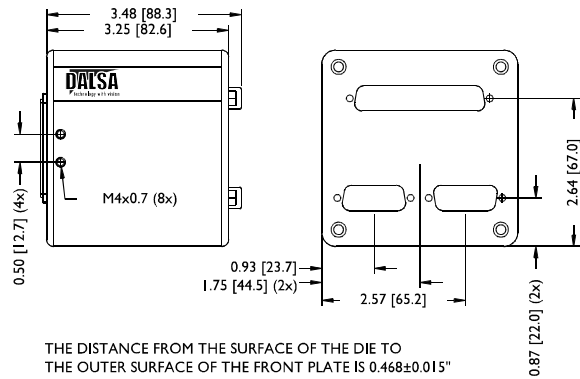
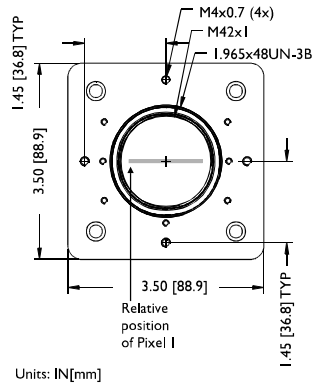
Connectors

Control	DB15F
Data	DB37F
Power	DB15M
Other	none



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www.dalsa.com

Mechanical Dimensions



For More Information

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

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