

Line Scan Cameras

Piranha CT-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 up to 4 digital 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.



Features

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

Specifications

Resolution	1024 / 2048 / 4096
Pixel Size	10 μ m x 10 μ m
Aperture	10.2 / 20.5 / 41mm x 10 μ m
Lens Mount	C / F / F-mount
Max. Line/Frame Rate	79 / 43 / 23kHz
Data Rate	4x25MHz
Data Format	4x8-bit LVDS
Responsivity	4.12DN/(nJ/cm ²)
Dynamic Range	496:1
Nominal Gain Range	fixed
Size	89x89x105mm
Mass	0.8kg
Operating Temp	0-50 C
Power Supply	+5V, -5V, +15V
Power Dissipation	9W
Regulatory Compliance	CE
Example Part Number	CT-P1-1024W-ECEW

Applications

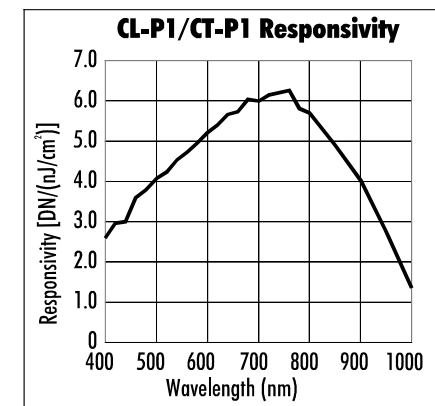
- High performance document scanning/image lift
- Optical character recognition
- Industrial inspection

Sensor

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

Connectors

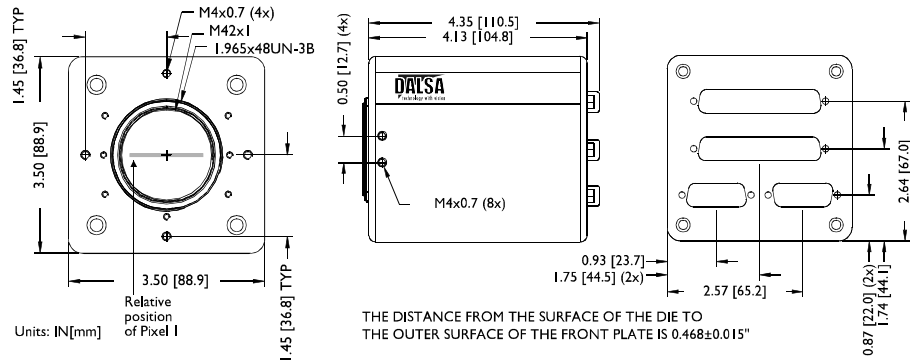
Control	DB15F
Data	2xDB37F
Power	DB15M
Other	none



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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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