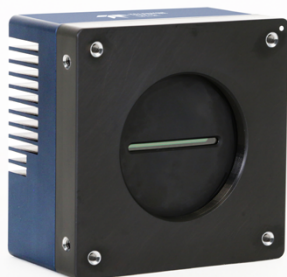




Piranha XL Color 8K

Multiline CMOS TDI Camera



Multiline CMOS Color TDI Camera Delivers Breakthrough Performance

Teledyne DALSA presents our latest multi-line CMOS color camera—the Piranha XL™ 8k. This camera delivers an unprecedented combination of speed and responsivity with low noise and in each color. Each color uses four rows, resulting in an exceptionally responsive tricolor operation with no color interpolation.

The camera uses the field-proven Camera Link HS™ interface based on Teledyne DALSA's technology. The camera achieves very high data throughput with long transmission distances and reliability. This camera, combined with the XTium Camera Link HS frame grabber, offers a complete solution for the next generation Automatic Optical Inspection.

Key Features

- Trilinear color TDI sensor
- True exposure control
- Up to 70 kHz of three line RGB data
- High full well maximizing signal-to-noise
- High dynamic range using a look-up table (LUT)
- Bidirectional scanning
- Smart lens shading correction
- Parallax correction for applications using angled cameras
- CX4 active optical cable compatibility

Programmability

- Sub-pixel spatial correction for precise encoder timing alignment
- White balancing
- Multiple areas of interest (AOI) for data reduction
- Multiple regions of interest (ROI) for easy calibration
- Lens and shading correction
- Test pattern and diagnostics

Typical Applications

- Flat panel display inspection
- Film and web inspection
- Printed circuit board inspection
- High throughput and high resolution applications
- Print inspection

Specifications

Resolution	8,160 x 12 pixels (4 rows per color)
Line Rate	70 kHz, maximum
Pixel Size	5 μ m x 5 μ m
Data Format	8 or 10* bit, selectable
Output	Camera Link HS (1 or 2 cables)
Lens Mount	M58 x 0.75 mm
Peak Responsivity	21 nJ/cm ² @ 460 nm, 8 bit, 1x gain 22 nJ/cm ² @ 525 nm, 8 bit, 1x gain 25 nJ/cm ² @ 625 nm, 8 bit, 1x gain
NEE	20 pJ/cm ² @ 460 nm 18 pJ/cm ² @ 525 nm 12 pJ/cm ² @ 625 nm
Nominal Gain Range	1x to 5x
Antiblooming	> 100x
Size	97 (W) x 97 (H) x 61 (D) mm
Mass	680 g
Operating Temp	0 to +60 °C (front plate)
Power	+12 V to +24 V DC, Hirose 6-pin
Power Dissipation	18 W, max
Control & Data	Camera Link HS
Regulatory Compliance	CE and RoHS

*10 bit data support with Xtium PX8 will be available at a future date.

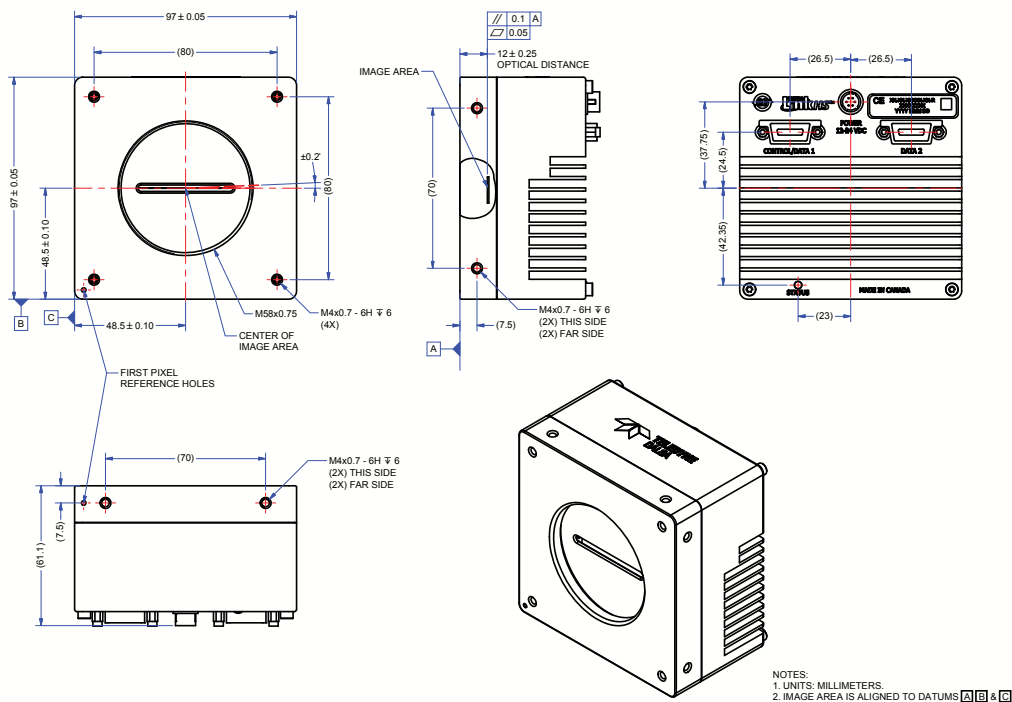
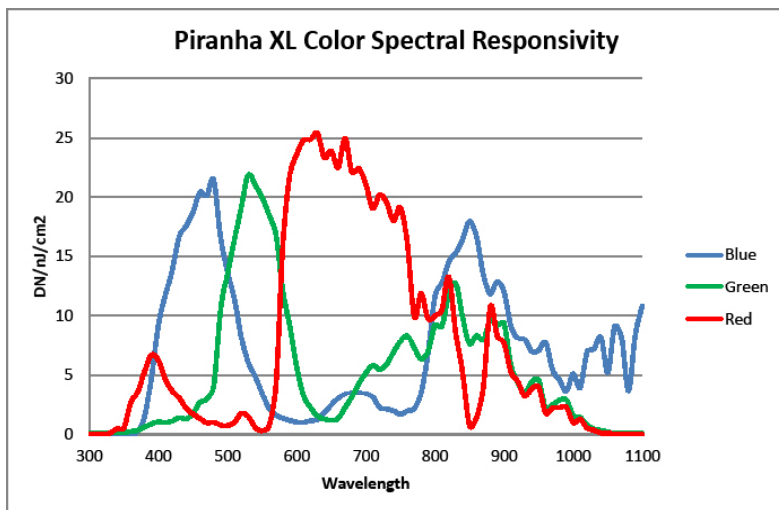
Models			
Part Number	Resolution	Maximum Line Rates	Pixel Size
PX-HC-08K07T-00-R	8,160 x 12	70 kHz	5 μ m x 5 μ m





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