Adept Electronic Solutions
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DALSA XR-4

X-Ray Cameras

DALSA XR-4

Key Features

- High spatial resolution
- High DQE
- High sensitivity and low noise
- Large field of view
- High frame rate
- GigE output interface
- Automatic exposure control
- Flexible binning
- Region of Interest

Typical Applications

- Micro-CT
- Diagnostic spot mammography
- Stereotactically-guided needle breast biopsy
- Specimen radiography
- Industrial X-ray

Overview

A larger, faster, more sensitive X-ray camera.

The DALSA XR-4 is an innovative 16 megapixel CCD digital X-ray camera for high resolution radiography applications such as diagnostic spot mammography, stereotactically-guided needle breast biopsy and pre-clinical CT. The camera has a large field of view (150 x 150 mm) and can operate up to 10 frames per second (4 x 4 binning mode).

The XR-4 camera comes in three models, a 16 megapixel (150 X 150 mm), an 8 megapixel (150 x 75 mm) and a 4 megapixel (75 x 75 mm) version. GigE interface eliminates the need for a frame grabber, which reduces system cost and complexity.

The high spatial resolution, low noise, and high sensitivity of the XR-4 provides better images than other competing technologies. The XR-4 is a reliable camera with consistent performance over time. Its robustness and durability maximizes return on investment.

Specifications

Resolution	4K x 4K / 4K x 2K / or 2K x 2K
Field of View	150 X 150 mm / 150 x 75 mm / or 75 x 75 mm
Data Rate	5 MHz
Max. Line/Frame Rate	Up to 10 fps binning dependent
Effective Pixel Size	36 μm
Spatial Resolution	10 lp/mm (center)
Output Data Format	16 bits GigE
Dynamic Range	>70 dB
Binning	1x1, 2x2, 4x4
Size	201 x 190 x 95 mm
Mass	6 kg (Quad) / 5 kg (Dual) / 3 kg (Single)
Operating Temp	5 °C to 40 °C
Power Supply	+24 VDC (±5%), 50 mV ripple, 20W
Connectors:	
Data	RJ-45
Power	2-pin Lemo
Hardware Trigger	4-pin Lemo
Example Part Number	X4-40-16M01-00-R (Quad), X4-20-08M01-00-R (Dual)

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