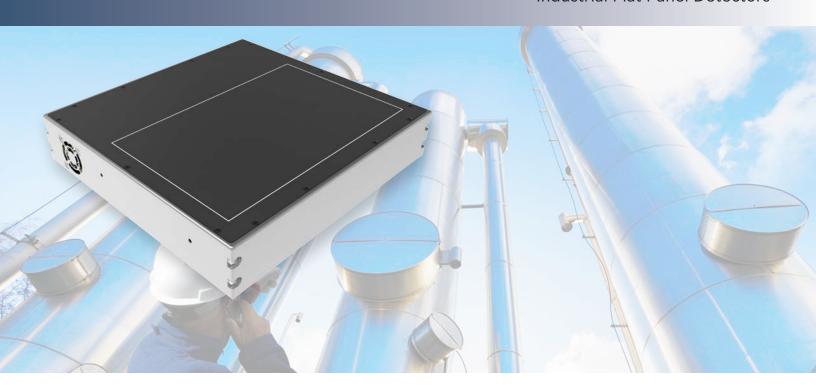


Making the Invisible Visible

2315N CMOS

Industrial Flat Panel Detectors



OVERVIEW

Varex Imaging's 2315N CMOS Flat Panel X-ray Detector (FPD) is a high speed, low noise X-ray detector with excellent sensitivity. It employs state-of-the-art large-area CMOS (Complementary Metal-Oxide Semiconductor) image sensor technology and is supplied with a range of scintillator and interface options.

Varex Imaging's 2315N Flat Panel X-ray Detector has switchable pixel gain that makes it well suited to real-time imaging and CT as well as static imaging with high dynamic range.

FEATURES AND BENEFITS

- 74.8 μm pixel pitch
- 3072 x 1944 pixel matrix
- High Sensitivity and High Dynamic Range modes
- Operation up to 160 kV
- Suitable for real-time imaging at up to 86 fps
- 1 x 1, 2 x 2 and 4 x 4 pixel binning options
- High DQE
- · Various scintillator options available
- Input/output for X-ray generator synchronization
- Camera Link data connection
- Superior Image Quality with High Resolution for Non-Destructive Testing

APPLICATIONS

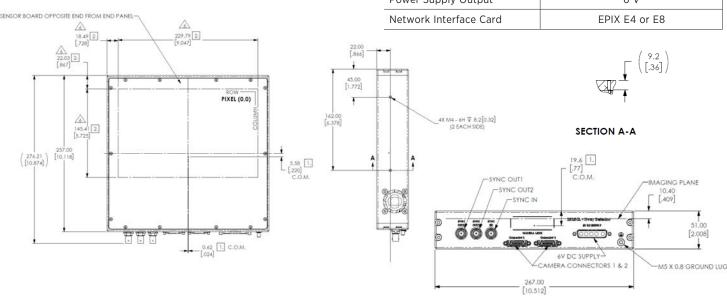
- Electronics inspection
- Casting inspection
- Weld inspection
- Metrology
- Micro Cone Beam Computed Tomography
- Materials science
- Quality control in automotive, aerospace and electronics manufacturing

Technical Specifications

SENSOR	
Pixel Size (μm)	74.8
Sensitive Area (mm²)	229.8 × 145.4
Pixel Matrix (px)	3072 × 1944
MAX FRAME RATE (FPS)	
Pixel Binning	Camera Link
1×1	26
2×2	70
4×4	86
IMAGE PERFORMANCE	
Dynamic Range (dB)	
High Dynamic Range Mode	typ. 73
High Sensitivity Mode	typ. 69
X-ray Energy Range (kV)	12 - 160
MECHANICAL	
Weight (kg)	8
Dimensions I × w × h (mm³)	267 × 257 × 51

MECHANICAL CHARACTERISTICS

(Dimensions in mm)



Camera Link Medium 80 MHz (2 cables) 115 kBaud serial link / Camera Link Control Channel 14-bit Digital Output Sync Ports BNC Sync In Port 3 - 15 V edge or level trigger Sync Out Port 2 x TTL (0 - 3.3 V-CL) Support for 32 and 64 bit Software Windows® OS **POWER** Dissipation 18 W **SCINTILLATOR OPTIONS** High Efficiency microcolumnar CsI DRZ Standard **TEMPERATURE RANGE** Operating Temperature +10°C to +40°C -10°C to +50°C Storage Temperature **ACCESSORIES** Power Supply Type **6V PSU** Power Cable 3 m XLR to D-Sub 50 - 60 Hz, 100-240 VAC Power Supply Input **Power Supply Output** 6 V

COMMUNICATIONS

Unless otherwise specified, Varex Imaging Flat Panel X-ray Detectors are components intended to be integrated into products by X-ray system manufacturers. System manufacturers are responsible for qualifying and validating their products for their intended uses and meeting all applicable regulatory requirements.



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