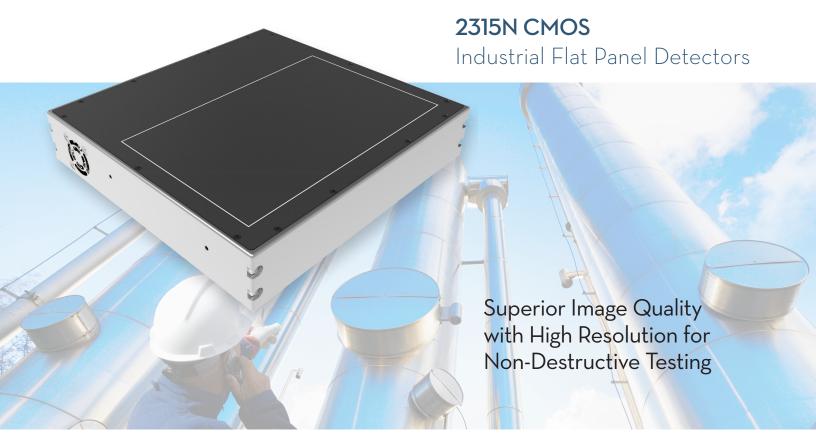


# **ENGINEERED SOLUTIONS**



### **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

#### APPLICATIONS<sup>1</sup>

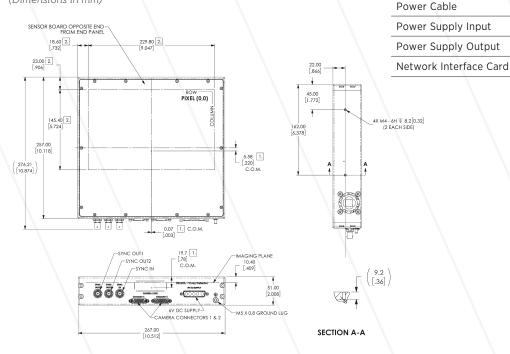
- Electronics inspection
- · Casting inspection
- · Weld inspection
- Metrology
- Micro Cone Beam Computed Tomography
- Materials science
- Quality control in automotive, aerospace and electronics manufacturing

## 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)



<sup>&</sup>lt;sup>1</sup> 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.

**COMMUNICATIONS** 

**SCINTILLATOR OPTIONS** 

TEMPERATURE RANGE
Operating Temperature

Storage Temperature

ACCESSORIES

Power Supply Type

Medium 80 MHz (2 cables)
115 kBaud serial link /

Camera Link

14-bit

BNC

3 - 15 V edge or level trigger

2 x TTL (0 - 3.3 V-CL) Support for 32 and 64 bit

Windows® OS

18 W

+10°C to +40°C

**6V PSU** 

3 m XLR to D-Sub

50 - 60 Hz, 100-240 VAC

6 V

EPIX E4 or E8

High Efficiency microcolumnar Csl

DRZ Standard

Camera Link

Control Channel

Digital Output

Sync Ports

Sync In Port

Sync Out Port

Software

**POWER**Dissipation

Contents in this document are subject to change without notice.

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