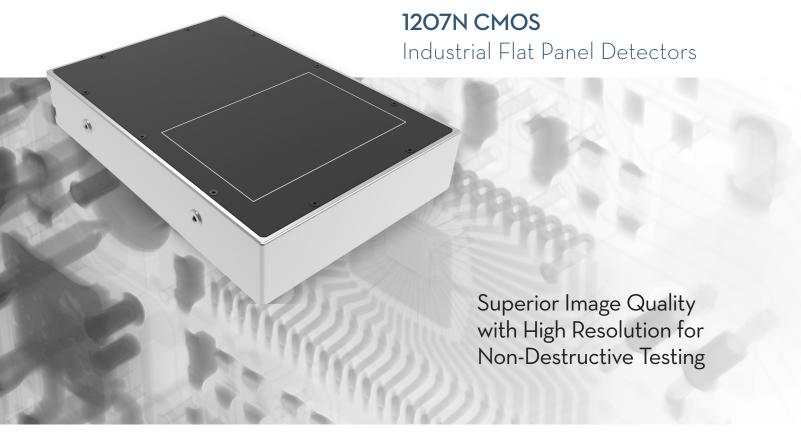


ENGINEERED SOLUTIONS



OVERVIEW

Varex Imaging's 1207N 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 1207N 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
- 1536 x 864 pixel matrix
- High Sensitivity and High Dynamic Range modes
- Operation up to 160 kV
- Suitable for real-time imaging at up to 191 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 or GigE Vision data connection

APPLICATIONS¹

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

Technical Specifications

SENSOR				
Pixel Size (μm)	74.8 114.9 × 64.6 1536 × 864			
Sensitive Area (mm²)				
Pixel Matrix (px)				
MAX FRAME RATE (FPS)				
Pixel Binning	Camera Link	GigE Vision		
1×1	60	31		
2×2	156	126		
4×4	191	191		
IMAGE PERFORMANCE				
Dynamic Range (dB)	\			
High Dynamic Range Mode	typ. 71			
High Sensitivity Mode	typ. 68			
X-ray Energy Range (kV)	12 - 160			
MECHANICAL				
Weight (kg)	3.1			
Dimensions I × w × h (mm³)	223.5 × 150 × 42			

	COMMUNICATIONS			
	Camera Link Base 80 Mhz (1 cak			
	GigE Vision	1000BASE-T		
	Digital Output	14-bit		
	Control Channel	115 kBaud serial link / Camera Link / GigE Vision		
	Sync Ports	BNC		
	Sync In Port	3 - 15 V edge or level trigger		
	Sync Out Port	TTL (0 - 5.0 V)		
	Software	Support for 32 and 64 bit Windows® OS		
	POWER			
		Camera Link	GigE Vision	
	Dissipation	8 W	10.5 W	
	SCINTILLATOR OPTIONS High Efficiency microcolumnar Csl High Resolution microcolumnar Csl Various Gd ₂ O ₂ S:Tb (GOS) fluorescent screens			
TEMPERATURE RANGE				

Operating Temperature

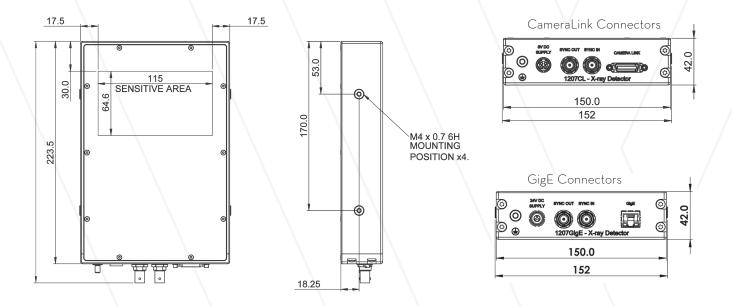
Storage Temperature

+10°C to +40°C

-10°C to +50°C

MECHANICAL CHARACTERISTICS

(Dimensions in mm)



¹ 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.

Contents in this document are subject to change without notice.

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