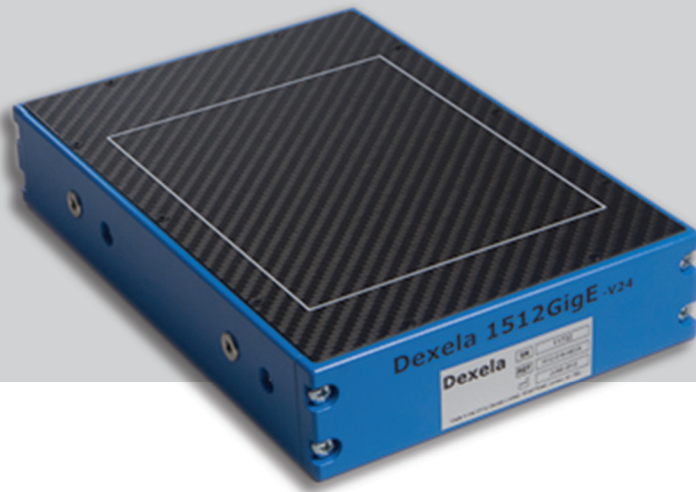


DEXELA 1207, 1512, 2307, 2315 and 2923

Flat Panel X-ray Detectors



Features and Benefits

- 75 μ m pixel pitch
- 1536 x 864 px (1207), 1944 x 1536 px (1512), 3072 x 864 px (2307), 3072 x 1944 px (2315), 3888 x 3072 px (2923)
- High sensitivity and high dynamic range modes
- Pixel binning options up to 4x4
- Suitable for real time imaging at up to 86 fps
- High DQE at low dose
- 14 bit digital output
- Various scintillator options available
- Input/output for X-ray generator synchronization
- Camera Link or GigE Vision data connection

Applications¹

- Medical
- Dental
- Veterinary
- Life sciences

**Superior Image Quality
Fast, Low Dose Imaging**

Overview

The PerkinElmer Dexela Flat Panel X-ray Detectors (FPDs) are high speed, low noise X-ray detectors with excellent sensitivity. They employ state-of-the-art

large-area CMOS image sensor technology and are supplied with a range of scintillator and interface options.

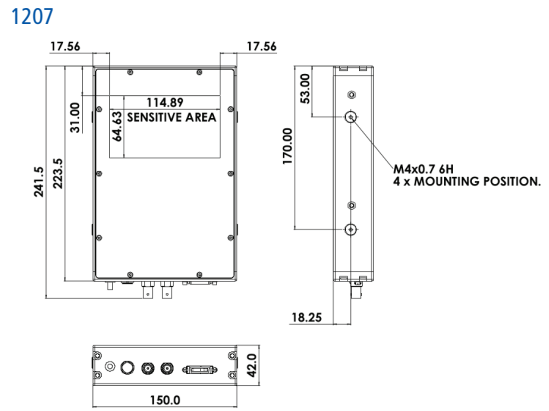
PerkinElmer Dexela Flat Panel X-ray Detectors have switchable pixel gain that makes them well suited to real-time imaging and CT as well as static imaging with high dynamic range.

We have over 20 years of experience partnering with OEMs integrating FPDs into demanding X-ray applications and can customize our product to meet your specific requirements. Let our digital imaging expertise work for you.

DEXELA 1207

	1207	
Sensor		
Pixel Size (µm)	74.8	
Sensitive Area (mm ²)	114.9 x 64.6	
Pixel Matrix (px)	1536 x 864	
Max Frame Rate (fps)		
Pixel Binning	Camera Link	GigE Vision
1x1	60	32
2x2	156	127
4x4	191	191
Image Performance		
Dynamic Range (dB)		
High Dynamic Range Mode	typ. 66	
High Sensitivity Mode	typ. 65	
X-ray Energy Range (kV)	12–130	
Mechanical		
Weight (kg)	1.9	
Dimensions l x w x h (mm ³)	223.5 x 150 x 42	
Communications		
Camera Link	Base 80 MHz (1 cable)	
GigE Vision	1000BaseT	
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 1	TTL (0 – 5 V)	
Sync Out Port 2	NA	
Software		
Power		
Camera Link/GigE		
Dissipation	11 / 13 W	
Scintillator Options		
	High Resolution CsI	
	High Efficiency CsI	
	Various Gd ₂ O ₂ S:Tb (GOS) fluorescent screens	
Temperature Range		
Operating Temperature	+10 °C to +40 °C	
Storage Temperature	-10 °C to +50 °C	
Accessories		
Camera Link/GigE		
Power Supply	50-60 Hz 110 V – 240 VAC	
Power Cable	3m Lemo Low Voltage	
Interface Card	EPIX EB1 Intel PRO1000/PT	

Case Dimensions (mm)



1: Unless otherwise specified, PerkinElmer 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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