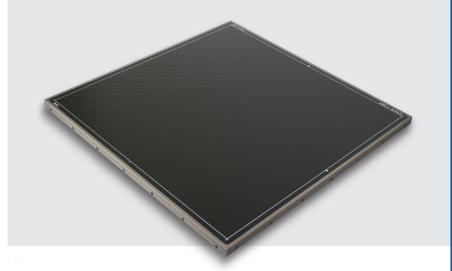
XRpad 4343 F



Flat Panel X-ray Detectors

Features and Benefits

- Fixed configuration cassette detector
- True 43 cm \times 43 cm (17" \times 17") image
- High resolution 100 µm pixel pitch
- Up to 65,536 gray levels
- Automatic Exposure Detection (AED)
- Direct deposition CsI scintillator (XRpad 4343 F)
- High Efficiency Gadox scintillator (XRpad 4343 F-N)
- High Resolution Gadox scintillator (XRpad 4343 F-J)

Applications¹

• Digital radiography

Upgrade to Digital Radiography

Overview

PerkinElmer XRpad™ 4343 F is a lightweight, cassette-sized flat panel detectors for digital radiography. It fits into a conventional table or wall-stand bucky, just like a film-screen cassette.

Featuring a 18.7 million pixel image matrix and best-in-class 100 μ m pixel pitch, this detector provides exceptional image quality. Both CsI and Gadox scintillators are available. The true cassette-sized construction, with 43 \times 43 cm² imaging area, fits in a standard bucky, enabling easier placement and cleaning. Automatic Exposure Detection simplifies integration.

We have over 25 years of experience partnering with customers to develop products in a wide range of X-ray applications. Let our digital imaging expertise work for you.



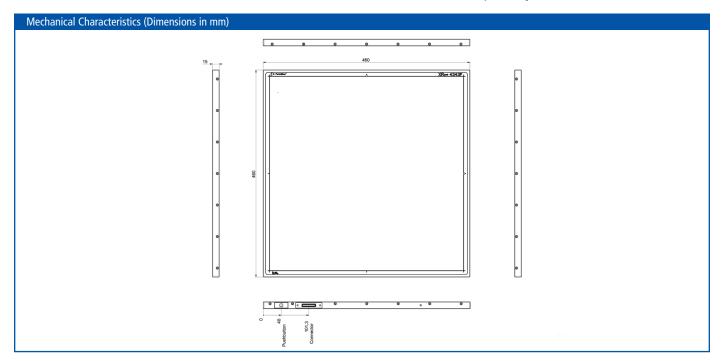
XRpad 4343 F

Single substrate amorphous silicon active TFT/diode array			
XRpad 4343 F: Direct Deposition CsI:Tl XRpad 4343 F-N: High Efficiency Gadox XRpad 4343 F-J: High Resolution Gadox			
4318 × 4320			
100 μm			
Low noise ASICs with user selectable gains			
16-bit			
600 ms			
1 GB DDR3, 4/8 GB SDHC card			
Mechanical			
43 cm \times 43 cm (17" \times 17") cassette size			
432 mm × 432 mm			
60 mm (w) \times 460 mm (l) \times 15 mm (h)			
4.1 kg (9.0 lbs)			
Aluminum frame with carbon-fiber entrance window			
Communications			
GigE via power and communication tether			
Integrated X-ray trigger control Automatic Exposure Detection			

Imaging Performance			
Typical DQE	cy/mn	XRpad 4343 F (CsI)	XRpad 4343 F-N (Gadox)
	0	75%	35%
	1	60%	25%
	3	40%	8%
Typical MTF	cy/mn	XRpad 4343 F (CsI)	XRpad 4343 F-N (Gadox)
	1	70%	56%
	2	40%	25%
	4	15%	5%
Limiting Resolution	5 cy/mm		
Energy Range	20 - 150 kV		
Environmental			
Temperature	10 – 35 °C operating		
Humidity	30 - 70 % RH operating (non-condensing)		
Accessories			
Interface and Power Unit	XRpad IPU external power supply 100 - 240 V AC, GigE, and X-ray I/F		
Regulatory			
Standards	IEC 60601-1, IEC 60601-1-2, IEC 60601-1-6, EN 62311, ISO 10993-5, ISO 10993-10		

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.

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