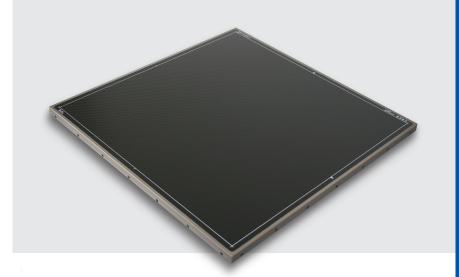
XRpad 4343 F



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 Csl, for excellent image quality

Applications¹

• Digital radiography

Upgrade to Digital Radiography

Overview

The PerkinElmer XRpad™ 4343 F is a lightweight, cassette-sized flat panel detector 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, a best-in-class 100 μ m pixel pitch, and a direct deposited CsI scintillator, the PerkinElmer XRpad 4343 F provides exceptional image quality. True 43 \times 43 cm imaging area is provided, along with single-piece carbon-fiber construction for the front and back housing which allows for easier placement and cleaning. Automatic Exposure Detection simplifies integration.

We have over 20 years of experience partnering with customers to develop products in a wide range of X-ray applications. Let our digital imaging experience work for you.



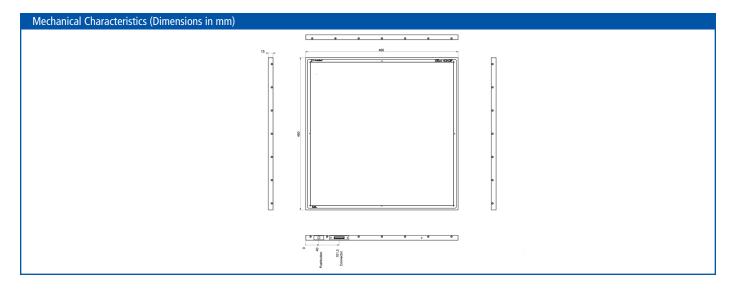
XRpad 4343 F

Sensor	
Panel	Single substrate amorphous silicon active TFT/diode array
Scintillator	Direct deposition CsI:Tl
Pixel Matrix	4318 × 4320
Pixel Pitch	100 μm
Electronics	
Amplifiers	Low noise ASICs with user selectable gains
ADC	16bit
Image Transfer Time	Wired: 600 ms
On-board Memory	1 GB DDR3, 4 GB SDHC card
Mechanical	
Size	43 cm \times 43 cm (17" \times 17") cassette size
Active Area	432 mm × 432 mm
External Dimensions	460 mm (w) × 460 mm (l) × 15 mm (h)
Weight	4.5 kg (9.4 lbs)
Housing	Carbon-fiber front & back
Communications	
Wired Data I/F	GigE via power and communication tether
X-ray I/F	Integrated X-ray trigger control Automatic Exposure Detection

Limiting resolution	5 cy/mm
Typical MTF	70% (1 cy/mm), 40% (2 cy/mm), 15% (4 cy/mm) for RQA5
Typical DQE	75% (0 cy/mm), 60% (1 cy/mm), 40% (3 cy/mm) for RQA5
Energy Range	20 - 150 kV
Environmental	
Temperature	10 – 35 °C operating
Humidity	30 - 70 % RH operating (non-condensing)
Accessories	
Interface and	XRpad IPU with external power supply 100 - 240 V AC,
Power Unit	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, CE
Customizable optic	ons
Sequence Mode	Up to 3 fps
Binned Mode	Up to 8 fps for 2 \times 2 binned, 200 μm pitch for a pixel matrix of 2159 \times 2160
Image Calibration	On-board offset, gain and defect pixel corrections
Fast Preview	4×4 binned quick preview image

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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