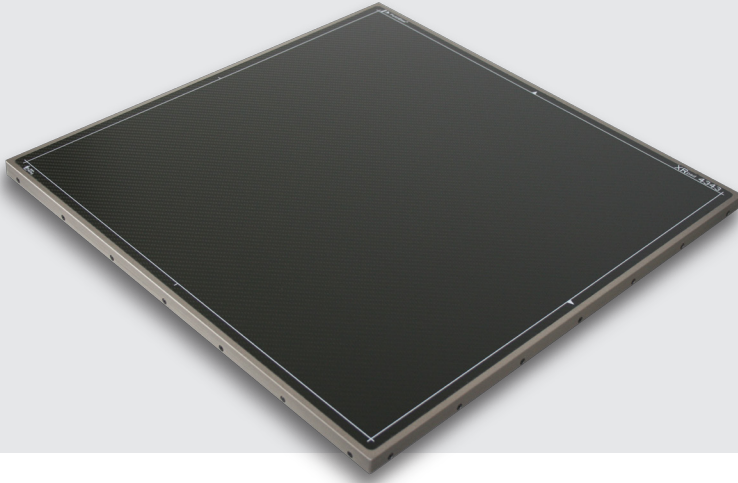


## XRpad 4343 F



## Flat Panel X-ray Detectors

## Features and Benefits

- Fixed configuration cassette detector
- True 43 cm × 43 cm (17" × 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)

Applications<sup>1</sup>

- 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 μm pixel pitch, this detector provides exceptional image quality. Both CsI and Gadox scintillators are available. The true cassette-sized construction, with 43 × 43 cm<sup>2</sup> 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

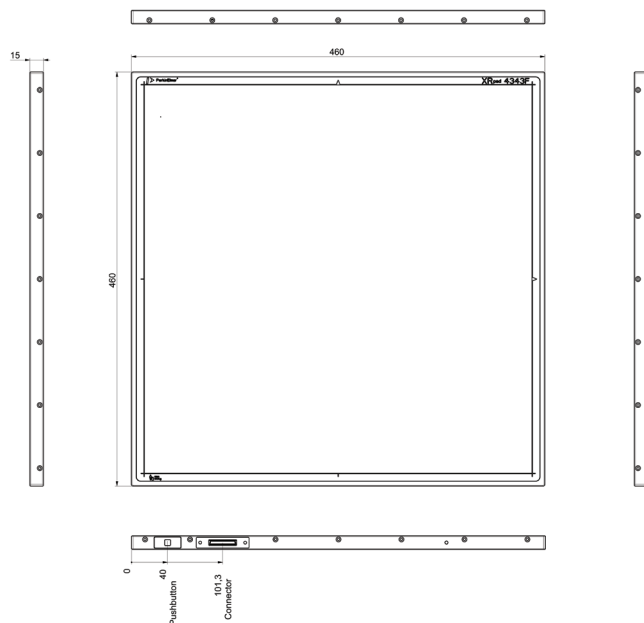
Sensor	
Panel	Single substrate amorphous silicon active TFT/diode array
Scintillator	XRpad 4343 F: Direct Deposition CsI:TI XRpad 4343 F-N: High Efficiency Gadox XRpad 4343 F-J: High Resolution Gadox
Pixel Matrix	4318 × 4320
Pixel Pitch	100 μm
Electronics	
Amplifiers	Low noise ASICs with user selectable gains
ADC	16-bit
Image Transfer Time	600 ms
On-board Memory	1 GB DDR3, 4/8 GB SDHC card
Mechanical	
Size	43 cm × 43 cm (17" × 17") cassette size
Active Area	432 mm × 432 mm
External Dimensions	60 mm (w) × 460 mm (l) × 15 mm (h)
Weight	4.1 kg (9.0 lbs)
Housing	Aluminum frame with carbon-fiber entrance window
Communications	
Wired Data I/F	GigE via power and communication tether
X-ray I/F	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%
Typical MTF	3	40%	8%
	1	70%	56%
	2	40%	25%
Limiting Resolution	4	15%	5%
	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.

Contents in this document are subject to change without notice.

## Mechanical Characteristics (Dimensions in mm)



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