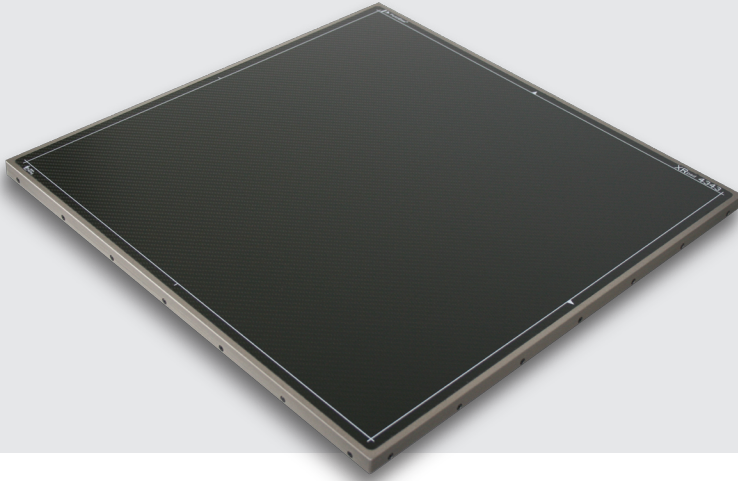


## XRpad 4343 F



## 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, for excellent image quality

Applications<sup>1</sup>

- 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 µm pixel pitch, and a direct deposited CsI scintillator, the PerkinElmer XRpad 4343 F provides exceptional image quality. True 43 × 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:TI
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 × 43 cm (17" × 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

Imaging Performance	
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)

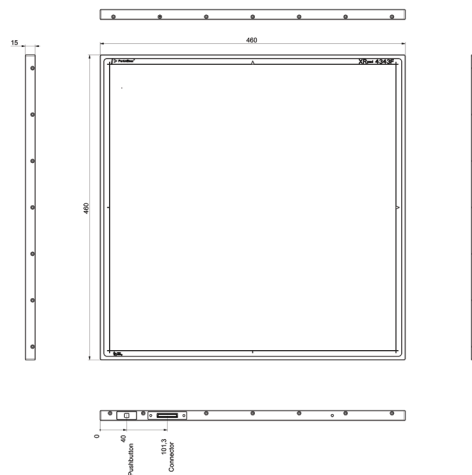
Accessories	
Interface and Power Unit	XRpad IPU with external power supply 100 - 240 V AC, GigE, and X-ray I/F

Regulatory	
Standards	IEC 60601-1, IEC 60601-1-2, IEC 60601-1-6, EN 62311, ISO 10993-5, ISO 10993-10, CE

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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