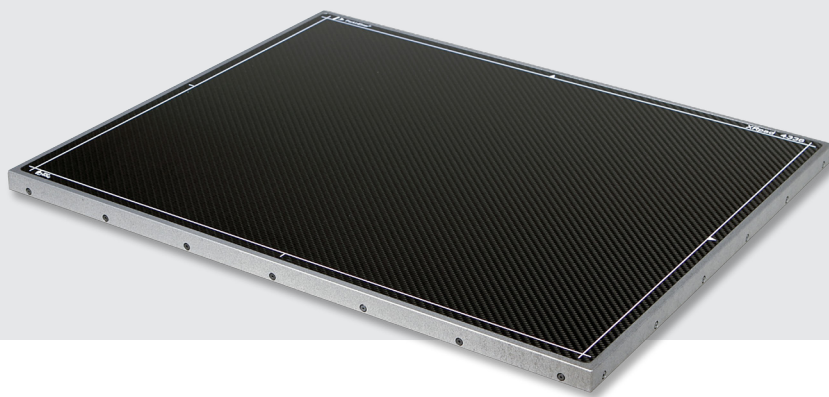


XRpad 4336

Flat Panel X-ray Detectors



Features and Benefits

- Cassette detector per ISO 4090, fits in conventional Bucky
- True 35 cm × 43 cm (14" × 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
- Wireless 802.11n standard
- Integrated status display
- Rechargeable battery
- Optional connector for power and data communication
- On board memory for image storage

Applications¹

- Digital radiography

Upgrade to Digital Radiography

Overview

The PerkinElmer XRpad™ 4336 is a wireless, light weight, 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 15 million pixel image matrix, a best-in-class 100 µm pixel pitch, and a directly deposited CsI scintillator, the PerkinElmer XRpad 4336 provides exceptional image quality. True 35 × 43 cm² imaging area per the ISO 4090 cassette standard is provided, along with a removable, rechargeable battery. Single-piece carbon-fiber construction for the front and back housing 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 4336

Sensor

Panel	Single substrate amorphous silicon active TFT/diode array
Scintillator	Direct deposition CsI:TI
Pixel Matrix	3556 × 4320
Pixel Pitch	100 µm

Electronics

Amplifiers	Low noise ASICs with user selectable gains
ADC	16 bit
Image Transfer Time	Wired: 500 ms; Wireless: 3000 ms
On Board Memory	1 GB DDR3, 4 GB SDHC card

Mechanical

Size	ISO 4090 for 35 cm × 43 cm (14" × 17") cassette size
Active Area	True 355 mm × 432 mm
External Dimensions	384 mm (w) × 460 mm (l) × 15 mm (h)
Weight	3.8 kg (8.4 lbs)
Housing	Carbon-fiber front & back

Communications

Status Display	OLED display with WiFi, battery, and sensor indicators
Wireless Data I/F	802.11n WiFi standard
Wired Data I/F	GigE via optional power & 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

Environmental

Temperature	10 – 35 °C operating
Humidity	30 – 70 % RH operating (non-condensing)

Power

Battery	Rechargeable battery, 53.3 Wh
Battery Charger	External two bay charger 100-240 V AC 50/60 Hz
Interface and Power Unit	Optional XRpad IPU with external power supply 100-240 V AC, GigE, and X-ray I/F

Regulatory

Standards	IEC 60601-1, IEC 60601-2, IEC 60601-1-6, FCC 47CFR PT 15, FCC OET 65C, ETSI EN 301 893, EN 62311 ISO 10993-5, ISO 10993-10, CE
-----------	-----------------------------------------------------------------------------------------------------------------------------------

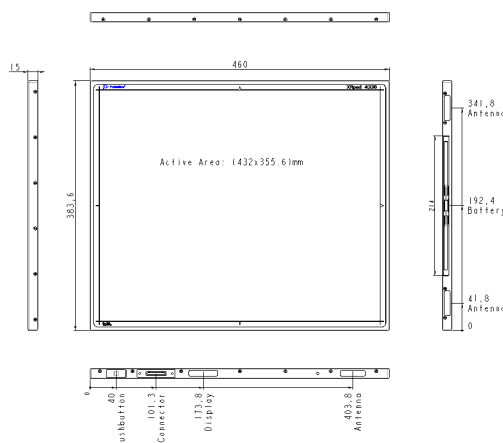
Customizable Options

Sequence Mode	Up to 3 fps (Wired and Wireless with image buffer)
Binned Mode	Up to 8 fps for 2 × 2 binned, 200 µm pitch for a pixel matrix of 1778 × 2160
Image Calibration	On-board offset, gain and defective pixel corrections
Fast Preview	4 × 4 binned quick preview image
WAP Mode	Wireless Access Point Functionality

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)



USA
PerkinElmer, Inc.
2175 Mission College Blvd
Santa Clara, CA 95054 USA
P: +1 408-565-0796
F: +1 408-969-6493
fpd@perkinelmer.com
www.perkinelmer.com

Germany
PerkinElmer
Technologies GmbH & Co. KG
In der Rehbach 22
65396 Walluf Germany
P: +49 6123 971-300
F: +49 6123 971-600
fpd@perkinelmer.com
www.perkinelmer.com

United Kingdom
Dexela Limited
A PerkinElmer Company
Wenlock Business Centre
50-52 Wharf Road
London N1 7EU United Kingdom
P: +44 20 7148 3107
www.dexela.com
fpd@perkinelmer.com
www.perkinelmer.com

China
PerkinElmer, Inc.
No. 1670 Zhangheng Road
Zhangjiang Hi-Tech Park
Shanghai 201203, PRC
P: +86 21 60645611
F: +86 21 60645666
fpd@perkinelmer.com
www.perkinelmer.com



For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

Copyright ©2012-2014, PerkinElmer, Inc. All rights reserved. PerkinElmer® is a registered trademark of PerkinElmer, Inc. All other trademarks are the property of their respective owners.

011064C_01