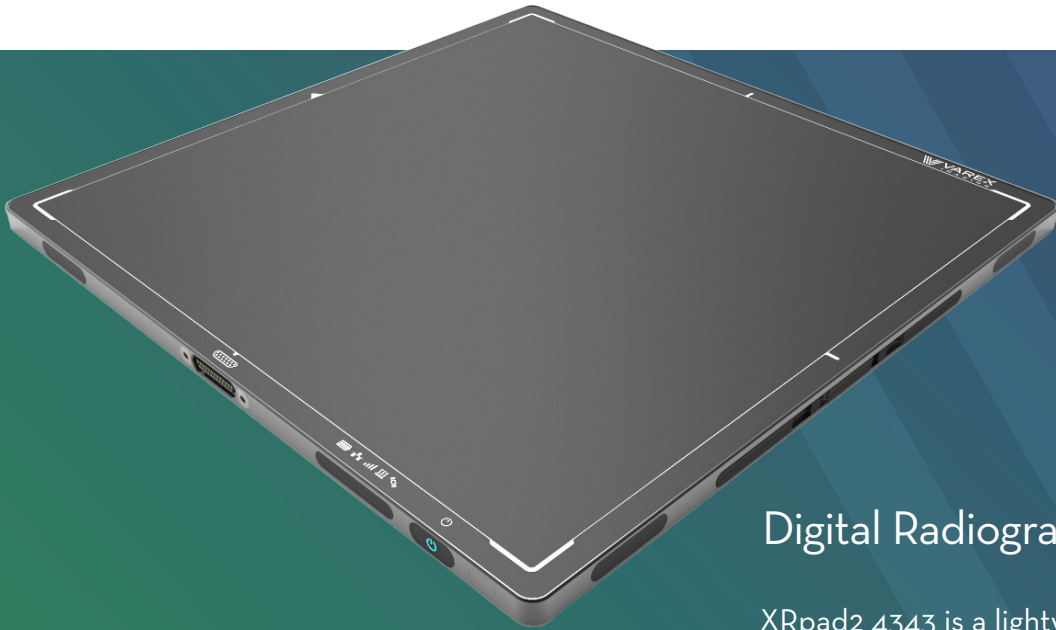


# XRpad2 4343

## Flat Panel Detector



## Digital Radiography and Beyond

XRpad2 4343 is a lightweight wireless cassette detector with advanced features enabling digital radiography as never seen before.

### OVERVIEW

Featuring best-in-class 100  $\mu\text{m}$  pixel size, direct deposition CsI or Gadox scintillator and excellent DQE, XRpad2 4343 enables high resolution imaging with reduced X-ray exposure. Design of the second-generation XRpad<sup>®</sup> is lightweight, robust and ergonomic, permitting easy lifting from table top. Automatic Exposure Detection, on-board corrections, and wireless access point mode make system integration quick and simple.

New features of the XRpad2 4343 include fast preview, internal image storage, and magnetic connector for tethering or docking. Sequence imaging mode at up to 8 fps facilitates advanced applications such as tomosynthesis, dual energy subtraction, and image stitching.

### FEATURES AND BENEFITS

- Cassette detector per ISO 4090, fits in bucky
- 43 cm x 43 cm (17" x 17") image
- High resolution 100  $\mu\text{m}$  pixel pitch (5.0 lp/mm)
- Direct deposition CsI or Gadox Scintillator, for excellent image quality
- Up to 65,536 grey levels (16-bit ADC)
- Automatic Exposure Detection (AED)
- Wi-Fi interface (Station and Access Point modes)
- Docking connector for GigE, power and sync
- On-board pixel corrections and storage
- Sequence mode with 8 fps at 200  $\mu\text{m}$  resolution
- Fast preview image
- Robust and lightweight design

### APPLICATIONS<sup>1</sup>

- Digital radiography

## Technical Specifications

### SENSOR

Panel	Amorphous silicon active TFT-diode array
Scintillator	Direct deposition CsI:TI or Gadox
Pixel Matrix	4288 x 4288
Pixel Pitch	100 $\mu$ m

### ELECTRONICS

Amplifiers	Low noise ASICs with user selectable gains
ADC	16-bit
Image Transfer Time	Wired: 600 ms; Wireless: 3600 ms
On-board Memory	1 GB DDR3, 8 GB SDHC card

### MECHANICAL

Size	ISO 4090 for 43 cm x 43 cm (17" x 17") cassette size
Active Area	426 mm x 426 mm
External Dimensions	460 mm (w) x 460 mm (l) x 15.5 mm (h)
Weight	3.8 kg (8.4 lbs)
Housing	Aluminum frame with carbon-fiber entrance window

### COMMUNICATIONS

Status Display	OLED display with Wi-Fi, LAN, battery, and sensor indicators
Wireless Data I/F	802.11n Wi-Fi standard at 5 GHz
Wired Data I/F	GigE, trigger and power via docking connector
X-ray I/F	Integrated X-ray trigger control, Automatic Exposure Detection

### IMAGING PERFORMANCE

Typical DQE (CsI)	75% (0 cy/mm), 60% (1 cy/mm), 40% (3 cy/mm) for RQA5
Typical MTF (CsI)	65% (1 cy/mm), 35% (2 cy/mm), 10% (4 cy/mm) for RQA5
Limiting Resolution	5 cy/mm

### ADVANCED FEATURES

Sequence Mode	8 fps at 200 $\mu$ m resolution
On-board Corrections	Offset, gain and defective pixel
On-board Storage	Image storage with tagging
Fast Preview	4 x 4 binned quick preview image

### ENVIRONMENTAL

Temperature	10°C to 35°C operating
Humidity	20% to 80% operating
Ingress Protection	IPX4 rated

### ACCESSORIES

Battery	Rechargeable battery, 11.1 V
Battery Charger	External two bay charger 100 - 240 V AC, 50/60 Hz
Interface and Power Unit	Optional IPU-2 external power supply 100 - 240 V AC, GigE and X-ray I/F

### REGULATORY

Standards	IEC 60601-1:2005+AMD1:2012 ED.3.1, IEC 60601-1-2:2014 Ed 4.0, FCC part 2 subpart J, FCC part 15 subpart B/C/E, ETSI EN 301 893 V2.1.1 (2017), ETSI EN 301 489-1 V2.2.0 (2017-03), ETSI EN 301 489-17 V3.2.0 (2017-03), ISO 10993-5:2009, ISO 10993-10:2010, ISO 4090:2004
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<sup>1</sup> Unless otherwise specified, Varex Imaging 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.

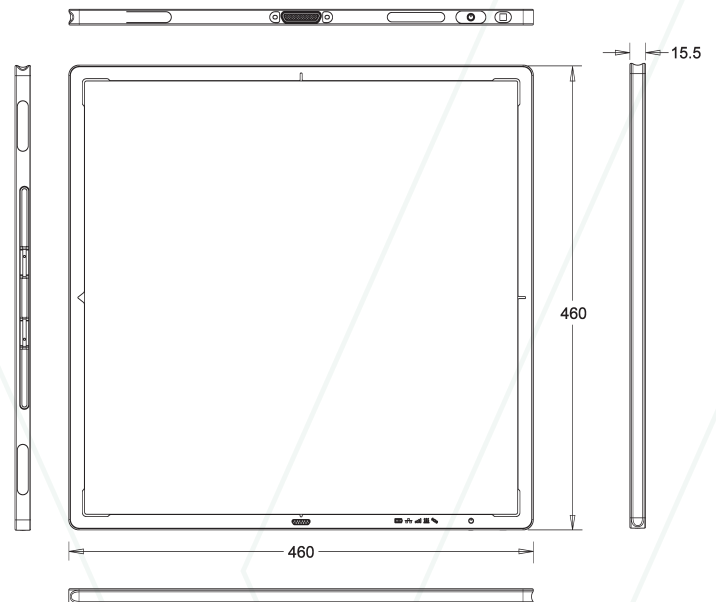
<sup>2</sup> According to IEC 62220-1-1:2015

Contents in this document are subject to change without notice.

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### MECHANICAL CHARACTERISTICS

(Dimensions in mm)



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