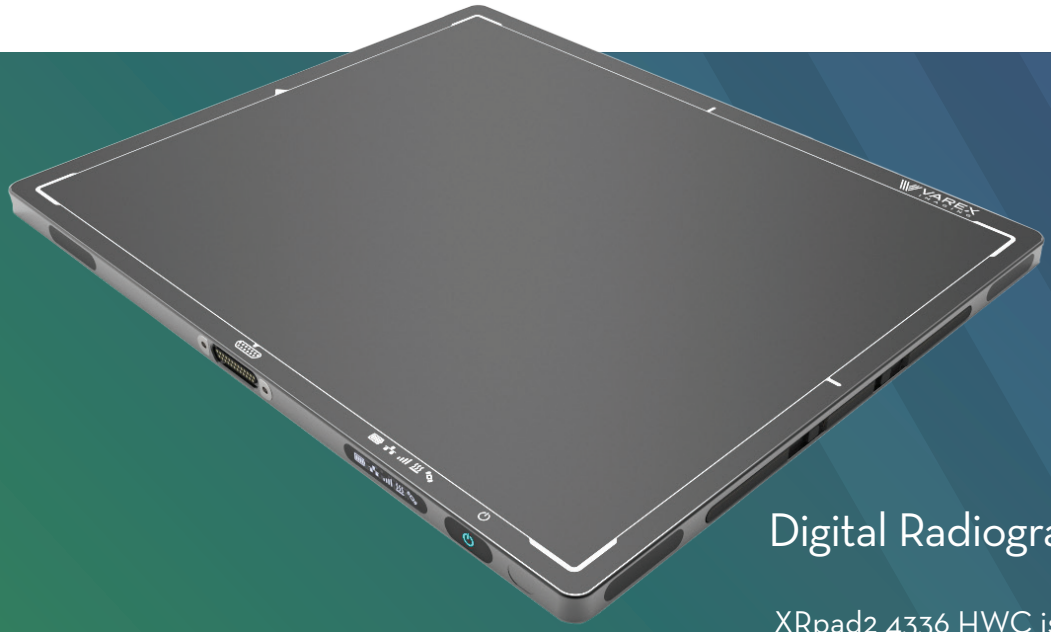
XRpad2 4336 HWC

Flat Panel Detector

VAREX IMAGING



Digital Radiography and Beyond

XRpad2 4336 HWC is a lightweight wireless cassette detector with advanced features enabling digital radiography as never seen before.

OVERVIEW

Featuring best-in-class 100 µm pixel size, direct deposition CsI scintillator and excellent DQE, XRpad2 4336 HWC enables high resolution imaging with reduced X-ray exposure. Design of the second-generation XRpad® 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 4336 HWC include fast preview, internal image storage, and magnetic connector for docking. Continuous imaging 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
- 35 cm x 43 cm (14" x 17") image
- High resolution 100 µm pixel pitch (5.0 lp/mm)
- Direct deposition CsI, 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
- Dynamic mode with 8 fps at 200 µm resolution
- Fast preview image
- Robust and lightweight design

APPLICATIONS[1]

- Digital radiography

Technical Specifications

SENSOR

Panel ..... Amorphous silicon active TFT-diode array
Scintillator ..... Direct deposition CsI:Tl
Pixel Matrix ..... 4288 x 3524
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, 8 GB SDHC card

MECHANICAL

Size ..... ISO 4090 for 35 cm x 43 cm (14" x 17") cassette size
Active Area ..... 426 mm x 350 mm
External Dimensions ..... 384 mm (w) x 460 mm (l) x 15.5 mm (h)
Weight ..... 3.2 kg (7.0 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 .... 75% (0 cy/mm), 60% (1 cy/mm), 40% (3 cy/mm) for RQA5
Typical MTF .... 70% (1 cy/mm), 40% (2 cy/mm), 15% (4 cy/mm) for RQA5
Limiting Resolution ..... 5 cy/mm

ADVANCED FEATURES

Dynamic Mode ..... 8 fps at 200 µm resolution
On-board Corrections ..... Offset, gain and defective pixel
On-board Storage ..... Image storage with tagging
Fast Preview ..... 4 × 4 binned quick preview image

ENVIRONMENTAL

Temperature ..... 10°C to 35°C operating
Humidity ..... 20% to 80% operating
Ingress Protection ..... IPX4 rated (protection against splashing water)

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

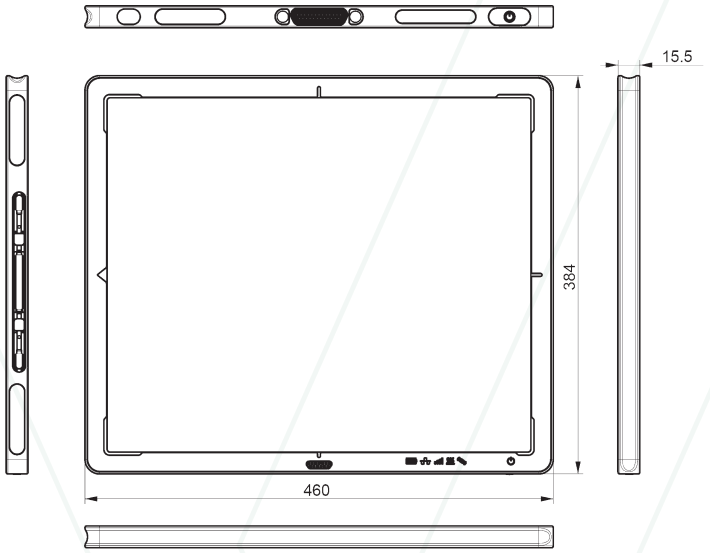
Standards ..... EN 60601-1:2006/A1:2013, EN 60601-1-2:2015, FCC part 2 subpart J, FCC part 15 subpart B/C/E, ETSI EN 301 893 V2.1.1 (2017), ETSI EN 301 489-1 V2.2.0 (2017-03), ETSI EN 301 489-17 V3.2.0 (2017-03), EN ISO 10993-5:2009, EN ISO 10993-10:2013

[1] 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.

Contents in this document are subject to change without notice.

MECHANICAL CHARACTERISTICS

(Dimensions in mm)



Varex Imaging Corporation

USA

HEADQUARTERS
Salt Lake City, UT
P: +1-801-972-5000

Santa Clara, CA
P: +1-844-726-8228

Germany
Walluf
P: +49-6123-971-300

China
Wuxi
P: +86 510 8592-9201

For a complete listing of our global offices, visit www.vareximaging.com