

# XRpad2 3025 HWC

## Flat Panel Detector



## Digital Radiography and Beyond

XRpad2 3025 HWC is a lightweight wireless cassette detector with advanced features enabling digital radiography as never seen before.

### OVERVIEW

Featuring best-in-class 100  $\mu$ m pixel size, direct deposition CsI scintillator and excellent DQE, XRpad2 3025 HWC 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 3025 HWC include fast preview, internal image storage, and magnetic connector for docking. Continuous imaging at up to 10 fps facilitates advanced applications such as tomosynthesis, dual energy subtraction, and image stitching.

### FEATURES AND BENEFITS

- 25 cm x 30 cm (10" x 12") image
- High resolution 100  $\mu$ m 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 for with 10 fps at 200  $\mu$ 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:Tl
Pixel Matrix	3004 × 2508
Pixel Pitch	100 μm

### ELECTRONICS

Amplifiers	Low noise ASICs with user selectable gains
ADC	16-bit
Image Transfer Time	Wired: 300 ms; Wireless: 2000 ms
On-board Memory	1 GB DDR3, 8 GB SDHC card

### MECHANICAL

Size	ISO 4090 for 25 cm × 30 cm (10" × 12") cassette size
Active Area	297.6 mm × 248.0 mm
External Dimensions	282 mm (w) × 332 mm (l) × 15.5 mm (h)
Weight	1.8 kg (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	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	10 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

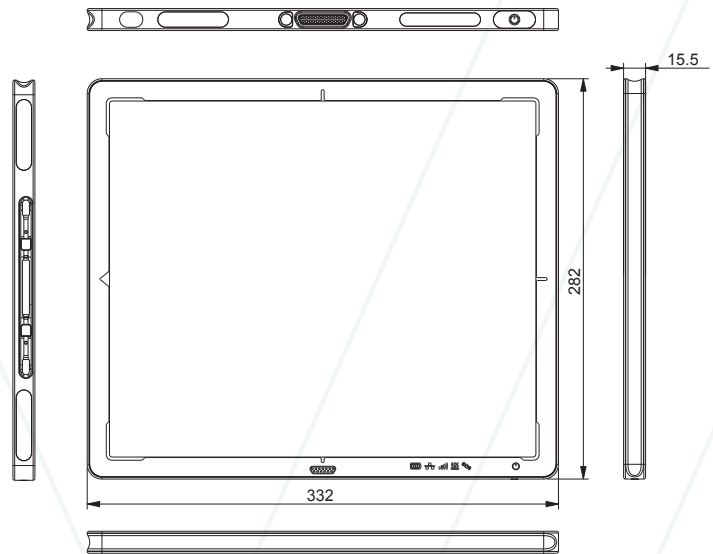
Standards	EN 60601-1:2006/A1:2013, EN 60601-1-2:2015, FCC part 2 subpart J, FCC part 15 subpart B/C/E, ETSI EN 301 893 V2.1.1 (2017), ETSI EN 301 489-1 V2.2.0 (2017-03), ETSI EN 301 489-17 V3.2.0 (2017-03), EN ISO 10993-5:2009, EN ISO 10993-10:2013
-----------	---

<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.

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](http://www.vareximaging.com)

©2018 Varex Imaging Corporation. All Rights reserved. Production of any of the material contained herein in any format or media without the express written permission of Varex Imaging Corporation is prohibited.