

# XRpad2 3025

## Flat Panel Detector



## Digital Radiography and Beyond

XRpad2 3025 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 3025 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 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  $\mu\text{m}$  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
- Dynamic mode for with 10 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:Tl or Gadox  
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 (CsI) 75% (0 cy/mm), 60% (1 cy/mm), 40% (3 cy/mm) for RQA5  
Typical MTF (CsI) 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

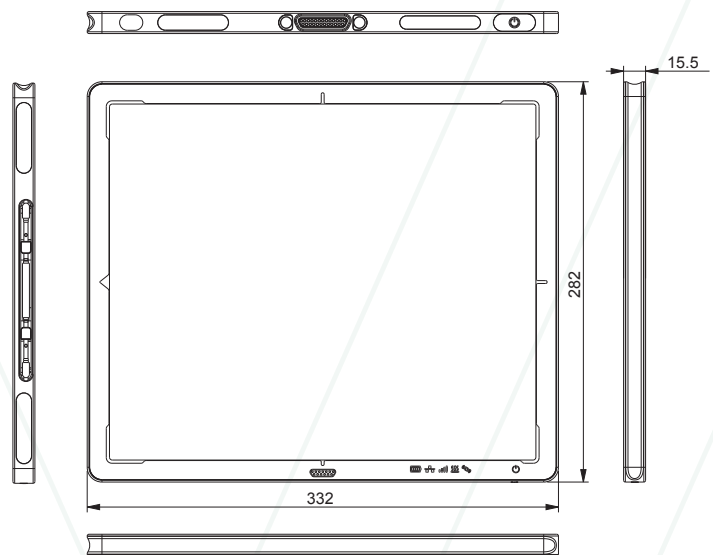
Standards . . . . . EN 60601-1:2006/AC:2010, EN 60601-1-2:2015,  
FCC part 2 subpart J, FCC part 15 subpart B/C/E,  
ETSI EN 301 893 V2.1.1 (2017),  
ETSI EN 301 489-1 V2.2.0 (2017-03),  
ETSI EN 301 489-17 V3.2.0 (2017-03),  
EN ISO 10993-5:2009, EN ISO 10993-10:2010

<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)



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