

## XRpad2 3025



## Flat Panel X-ray Detectors

**Features and Benefits**

- 25 cm × 30 cm (10" × 12") 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 for tomosynthesis
- Fast preview image
- Robust and lightweight design

**Applications<sup>1</sup>**

- Digital radiography

## Digital Radiography and Beyond

### Overview

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

Featuring best-in-class 100 μm pixel size, direct deposition CsI scintillator and excellent DQE, XRpad2 3025 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 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.

PerkinElmer Medical Imaging has partnered with OEM customers for more than 25 years to develop products for a wide range of X-ray applications. Let our digital imaging expertise work for you.

# XRpad2 3025

| Sensor              |   |
|---------------------|---|
| Panel               | Amorphous silicon active TFT-diode array                        |
| Scintillator        | Direct deposition CsI:TI  |
| Pixel Matrix        | 2508 × 3004   |
| 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         | 248.0 mm × 297.6 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 |

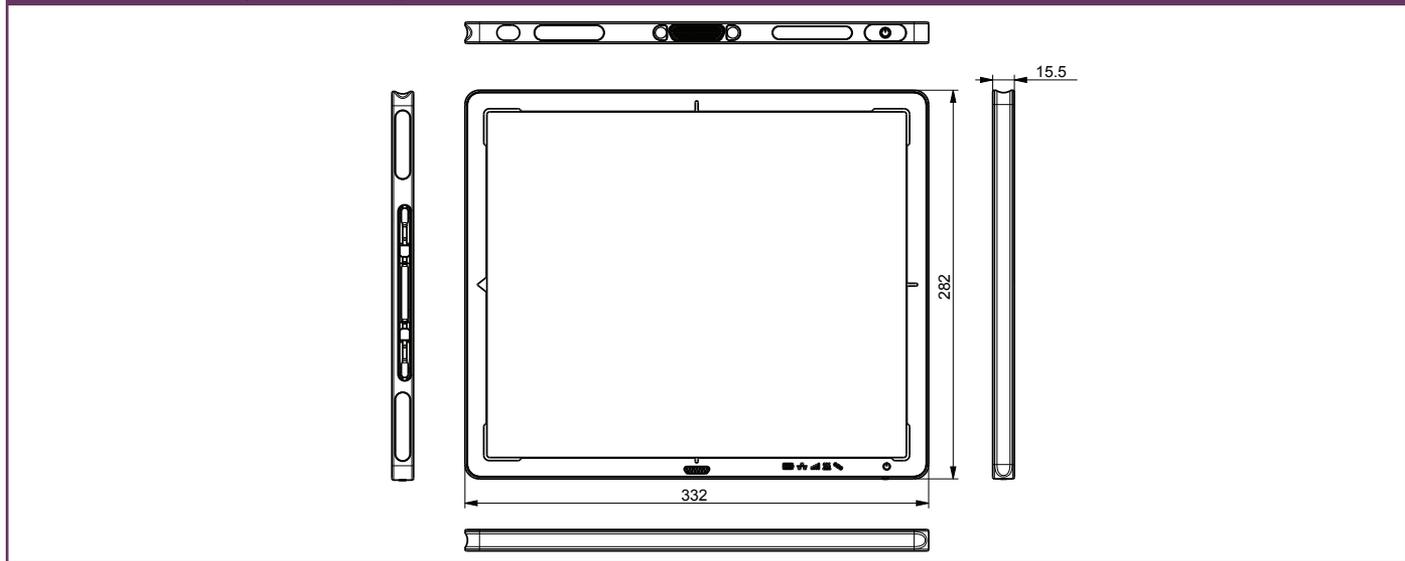
| Imaging Performance       |   |
|---------------------------|---|
| Typical DQE               | 75% (0 cy/mm), 60% (1 cy/mm), 40% (3 cy/mm) for RQA5  |
| Typical MTF               | 70% (1 cy/mm), 40% (2 cy/mm), 15% (4 cy/mm) for RQA5  |
| Limiting Resolution       | 5 cy/mm   |
| Advanced Features         |   |
| Dynamic Mode <sup>2</sup> | 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 50/60 Hz 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 V.1.7.1 (2012), ETSI EN 301 489-1 V1.9.2 (2011), ETSI EN 301 489-17 V2.2.1 (2012), EN ISO 10993-5:2009, EN ISO 10993-10:2010 |

<sup>1</sup> 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.

<sup>2</sup> Not intended for fluoroscopy applications

Contents in this document are subject to change without notice.

## Mechanical Characteristics (Dimensions in mm)



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