

XRpad2 3025



Flat Panel X-ray Detectors

Features and Benefits

- 25 cm × 30 cm (10" × 12") image
- High resolution 100 μ 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 tomosynthesis
- Fast preview image
- Robust and lightweight design

Applications¹

- 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 μ m 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		Imaging Performance	
Panel	Amorphous silicon active TFT-diode array	Typical DQE	75% (0 cy/mm), 60% (1 cy/mm), 40% (3 cy/mm) for RQA5
Scintillator	Direct deposition CsI:Tl	Typical MTF	70% (1 cy/mm), 40% (2 cy/mm), 15% (4 cy/mm) for RQA5
Pixel Matrix	2508 × 3004	Limiting Resolution	5 cy/mm
Pixel Pitch	100 µm	Advanced Features	
Electronics		Dynamic Mode ²	10 fps at 200 µm resolution
Amplifiers	Low noise ASICs with user selectable gains	On-board Corrections	Offset, gain and defective pixel
ADC	16-bit	On-board Storage	Image storage with tagging
Image Transfer Time	Wired: 300 ms; Wireless: 2000 ms	Fast Preview	4 × 4 binned quick preview image
On-board Memory	1 GB DDR3, 8 GB SDHC card	Environmental	
Mechanical		Temperature	10 °C to 35 °C operating
Size	ISO 4090 for 25 cm × 30 cm (10" × 12") cassette size	Humidity	20% to 80% operating
Active Area	248.0 mm × 297.6 mm	Ingress Protection	IPX4 rated (protection against splashing water)
External Dimensions	282 mm (w) × 332 mm (l) × 15.5 mm (h)	Accessories	
Weight	1.8 kg (4 lbs)	Battery	Rechargeable battery, 11.1 V
Housing	Aluminum frame with carbon-fiber entrance window	Battery Charger	External two bay charger 100 - 240 V AC, 50/60 Hz
Communications		Interface and Power Unit	Optional IPU-2 external power supply 100 – 240 V AC 50/60 Hz GigE and X-ray I/F
Status Display	OLED display with Wi-Fi, LAN, battery, and sensor indicators	Regulatory	
Wireless Data I/F	802.11n Wi-Fi standard at 5 GHz	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
Wired Data I/F	GigE, trigger and power via docking connector		
X-ray I/F	Integrated X-ray trigger control / Automatic Exposure Detection		

¹ 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.

² Not intended for fluoroscopy applications

Contents in this document are subject to change without notice.

Mechanical Characteristics (Dimensions in mm)

