OVERVIEW

Featuring best-in-class $100 \mu\text{m}$ 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.

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, 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

- Digital radiography
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/AC:2010, EN 60601-1-2:2015,
FCC part 2 subpart J, FCC part 15 subpart B/C/E,
ETSI EN 301 893 V2.11 (2017),
ets EN 301 489-1 V2.0 (2017-03),
ETS EN 301 489-17 V3.0 (2017-03),

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.

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