XRpad2 4343
Flat Panel Detector

OVERVIEW
Featuring best-in-class 100 μm pixel size, direct deposition CsI scintillator and excellent DQE, XRpad2 4343 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 4343 include fast preview, internal image storage, and magnetic connector for tethering or docking. Sequence imaging mode at up to 8 fps facilitates advanced applications such as tomosynthesis, dual energy subtraction, and image stitching.

FEATURES AND BENEFITS
- Cassette detector per ISO 4090, fits in bucky
- 43 cm x 43 cm (17” x 17”) 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
- Sequence mode with 8 fps at 200 μm resolution
- Fast preview image
- Robust and lightweight design

APPLICATIONS
- Digital radiography

Digital Radiography and Beyond
XRpad2 4343 is a lightweight wireless cassette detector with advanced features enabling digital radiography as never seen before.
Technical Specifications

SENSOR
Panel ........................................ Amorphous silicon active TFT-diode array
Scintillator ................................. Direct deposition CsI:Tl
Pixel Matrix ............................ 4288 x 4288
Pixel Pitch ............................ 100 µm

ELECTRONICS
Amplifiers ................................. Low noise ASICs with user selectable gains
ADC .......................... 16-bit
Image Transfer Time ................. Wired: 600 ms; Wireless: 3600 ms
On-board Memory ............................. 1 GB DDR3, 8 GB SDHC card

MECHANICAL
Size .................................... ISO 4090 for 43 cm x 43 cm (17” x 17”) cassette size
Active Area .............................. 426 mm x 426 mm
External Dimensions ................. 460 mm (w) x 460 mm (l) x 15.5 mm (h)
Weight ................................. 3.8 kg (8.4 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 ROAS
Typical MTF .... 65% (1 cy/mm), 35% (2 cy/mm), 10% (4 cy/mm) for ROAS
Limiting Resolution .................. 5 cy/mm

ADVANCED FEATURES
Sequence Mode ......................... 8 fps at 200 µm resolution
On-board Corrections ............... Offset, gain and defective pixel
On-board Storage ...................... Image storage with tagging
Fast Preview ......................... 4 x 4 binned quick preview image

ENVIRONMENTAL
Temperature ......................... 10°C to 35°C operating
Humidity ............................... 20% to 80% operating
Ingress Protection ...................... IPX4 rated

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 ................................ IEC 60601-1:2005+AMD1:2012 Ed.3.1, IEC 60601-1-2:2014 Ed 4.0,
 .............................................. 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),

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.
2 According to IEC 62220-1:2015

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