XRpad2 4336 HWC
Flat Panel Detector

OVERVIEW

Featuring best-in-class 100 μm pixel size, direct deposition CsI scintillator and excellent DQE, XRpad2 4336 HWC 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 4336 HWC include fast preview, internal image storage, and magnetic connector for docking. Continuous imaging 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
- 35 cm x 43 cm (14” 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
- Dynamic mode with 8 fps at 200 μm 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: 4288 x 3524
- Pixel Pitch: 100 µm

### ELECTRONICS
- Amplifiers: Low noise ASICs with user selectable gains
- ADC: 16-bit
- Image Transfer Time: Wired: 500 ms; Wireless: 3000 ms
- On-board Memory: 1 GB DDR3, 8 GB SDHC card

### MECHANICAL
- Size: ISO 4090 for 35 cm x 43 cm (14" x 17") cassette size
- Active Area: 426 mm x 350 mm
- External Dimensions: 384 mm (w) x 460 mm (l) x 15.5 mm (h)
- Weight: 3.2 kg (7.0 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: 8 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

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.