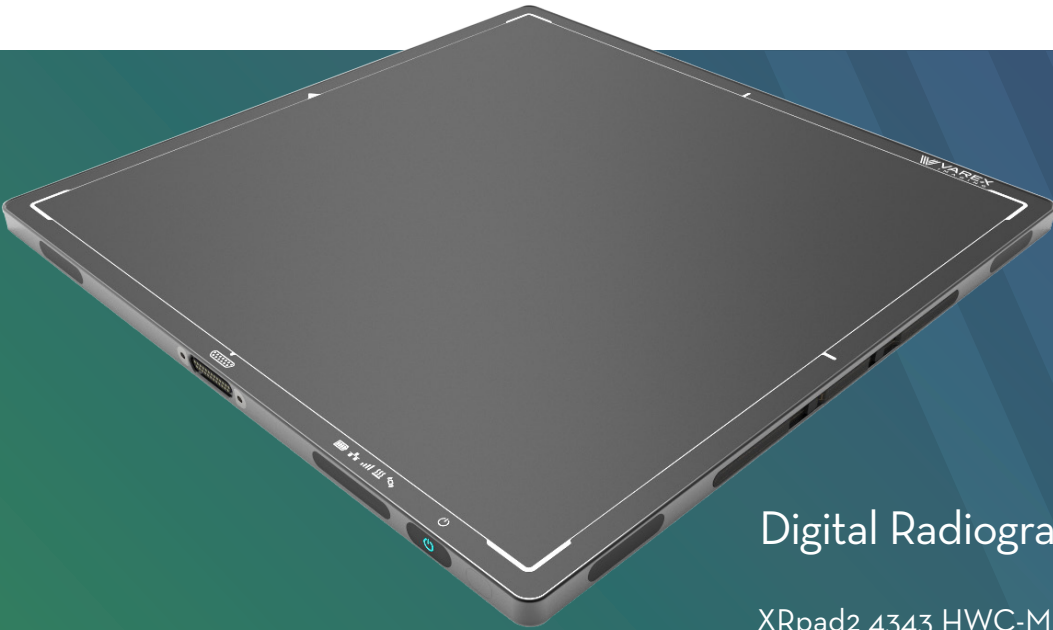


# XRpad2 4343 HWC-M

## Flat Panel Detector



## Digital Radiography and Beyond

XRpad2 4343 HWC-M is a lightweight wireless cassette detector with advanced features enabling digital radiography as never seen before.

### OVERVIEW

Featuring best-in-class 100  $\mu\text{m}$  pixel size, direct deposition CsI scintillator and excellent DQE, XRpad2 4343 HWC-M enables high resolution imaging with reduced X-ray exposure. Design of the second-generation XRpad<sup>®</sup> 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 HWC-M 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  $\mu\text{m}$  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
- Sequence mode with 8 fps at 200  $\mu\text{m}$  resolution
- Fast preview image
- Robust and lightweight design

### APPLICATIONS<sup>1</sup>

- Digital radiography

## Technical Specifications

### SENSOR

|              |  |
|--------------|--|
| Panel        | Amorphous silicon active TFT-diode array |
| Scintillator | Direct deposition CsI:Tl                 |
| Pixel Matrix | 4288 x 4288                              |
| Pixel Pitch  | 100 $\mu$ m                              |

### 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 <sup>2</sup> | 75% (0 cy/mm), 60% (1 cy/mm), 40% (3 cy/mm) for RQA5 |
| Typical MTF <sup>2</sup> | 65% (1 cy/mm), 35% (2 cy/mm), 10% (4 cy/mm) for RQA5 |
| Limiting Resolution      | 5 cy/mm  |

### ADVANCED FEATURES

|                      |                                  |
|----------------------|----------------------------------|
| Sequence Mode        | 8 fps at 200 $\mu$ m 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

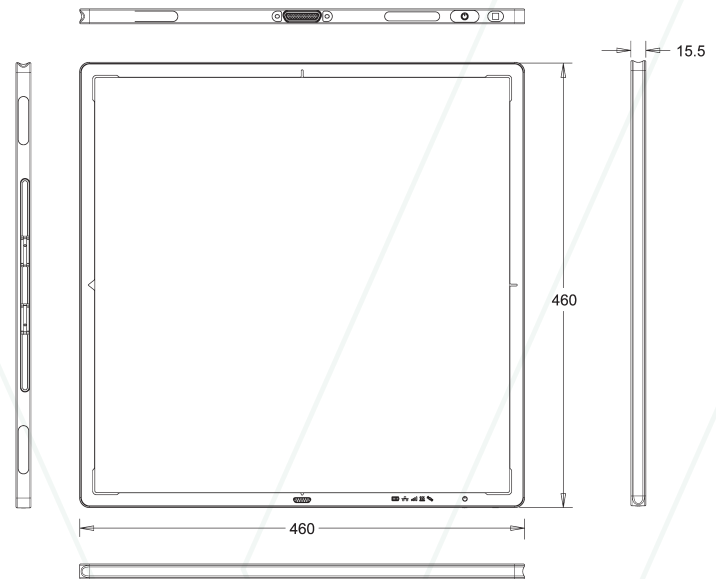
|           |  |
|-----------|--|
| Standards | IEC 60601-1, IEC 60601-1-2, FCC part 15 subpart/E, ETSI EN 301 893 V2.1.1 (2017), ETSI EN 301 489-1 V2.2.0, ETSI EN 301 489-17 V3.2.0, ISO 10993-5:2009, ISO 10993-10:2010, ISO 4090 |
|-----------|--|

The product is classified as a Class IIa medical device according to EU-MDR 2017/745.

The notified body involved is BSI Group, The Netherlands, identification number CE2797.

### MECHANICAL CHARACTERISTICS

(Dimensions in mm)



<sup>1</sup> 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.

<sup>2</sup> According to IEC 62220-1-1:2015

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