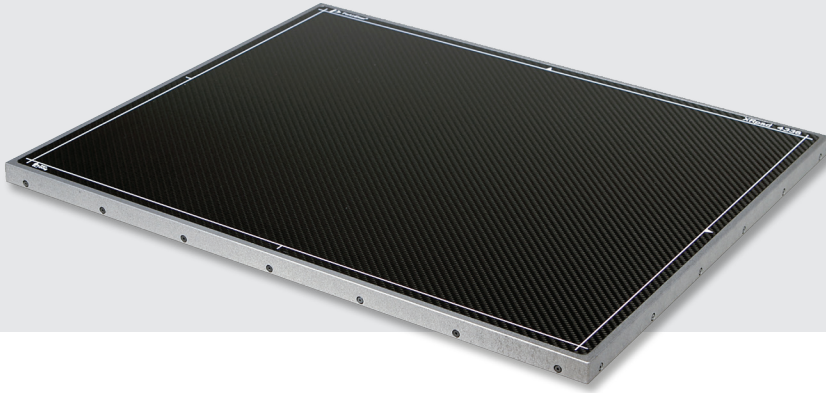


XRpad 4336



Flat Panel X-ray Detectors

Features and Benefits

- Cassette detector per ISO 4090, fits in conventional Bucky
- True 35 cm × 43 cm (14" × 17") image
- High resolution 100 μm pixel pitch
- Up to 65,536 gray levels
- Automatic Exposure Detection (AED)
- Direct deposition CsI, for excellent image quality
- Wireless 802.11n standard
- Integrated status display
- Rechargeable battery
- Optional connector for power and data communication
- On board memory for image storage

Applications¹

- Digital radiography

Upgrade to Digital Radiography

Overview

The PerkinElmer XRpad™ 4336 is a wireless, light weight, cassette-sized flat panel detector for digital radiography. It fits into a conventional table or wall-stand Bucky, just like a film-screen cassette.

Featuring a 15 million pixel image matrix, a best-in-class 100 μm pixel pitch, and a directly deposited CsI scintillator, the PerkinElmer XRpad 4336 provides exceptional image quality. True 35 × 43 cm² imaging area per the ISO 4090 cassette standard is provided, along with a removable, rechargeable battery. Single-piece carbon-fiber construction for the front and back housing allows for easier placement and cleaning. Automatic Exposure Detection simplifies integration.

We have over 20 years of experience partnering with customers to develop products in a wide range of X-ray applications. Let our digital imaging experience work for you.

XRpad 4336

Sensor

| | |
|--------------|---|
| Panel | Single substrate amorphous silicon active TFT/diode array |
| Scintillator | Direct deposition CsI:Tl |
| Pixel Matrix | 3556 × 4320 |
| 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, 4 GB SDHC card |

Mechanical

| | |
|---------------------|--|
| Size | ISO 4090 for 35 cm × 43 cm (14" × 17") cassette size |
| Active Area | True 355 mm × 432 mm |
| External Dimensions | 384 mm (w) × 460 mm (l) × 15 mm (h) |
| Weight | 3.8 kg (8.4 lbs) |
| Housing | Carbon-fiber front & back |

Communications

| | |
|-------------------|--|
| Status Display | OLED display with WiFi, battery, and sensor indicators |
| Wireless Data I/F | 802.11n WiFi standard |
| Wired Data I/F | GigE via optional power & communication tether |
| X-ray I/F | Integrated X-ray trigger control Automatic Exposure Detection |

Imaging Performance

| | |
|---------------------|--|
| Limiting Resolution | 5 cy/mm |
| Typical MTF | 70% (1 cy/mm), 40% (2 cy/mm), 15% (4 cy/mm) for RQA5 |
| Typical DQE | 75% (0 cy/mm), 60% (1 cy/mm), 40% (3 cy/mm) for RQA5 |
| Energy Range | 20 – 150 kV |

Environmental

| | |
|-------------|---|
| Temperature | 10 – 35 °C operating |
| Humidity | 30 – 70 % RH operating (non-condensing) |

Power

| | |
|--------------------------|---|
| Battery | Rechargeable battery, 11.1 V |
| Battery Charger | External two bay charger 100-240 V AC 50/60 Hz |
| Interface and Power Unit | Optional XRpad IPU with external power supply 100-240 V AC, GigE, and X-ray I/F |

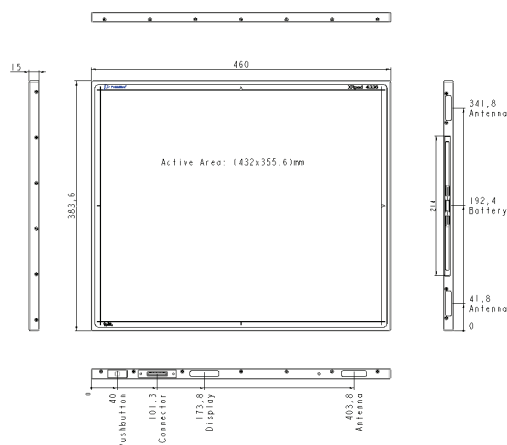
Regulatory

| | |
|-----------|---|
| Standards | IEC 60601-1, IEC 60601-1-2, IEC 60601-1-6, FCC 47CFR PT 15, FCC OET 65C, ETSI EN 301 893, EN 62311, ISO 10993-5, ISO 10993-10, CE |
|-----------|---|

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.

Contents in this document are subject to change without notice.

Mechanical Characteristics (Dimensions in mm)



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