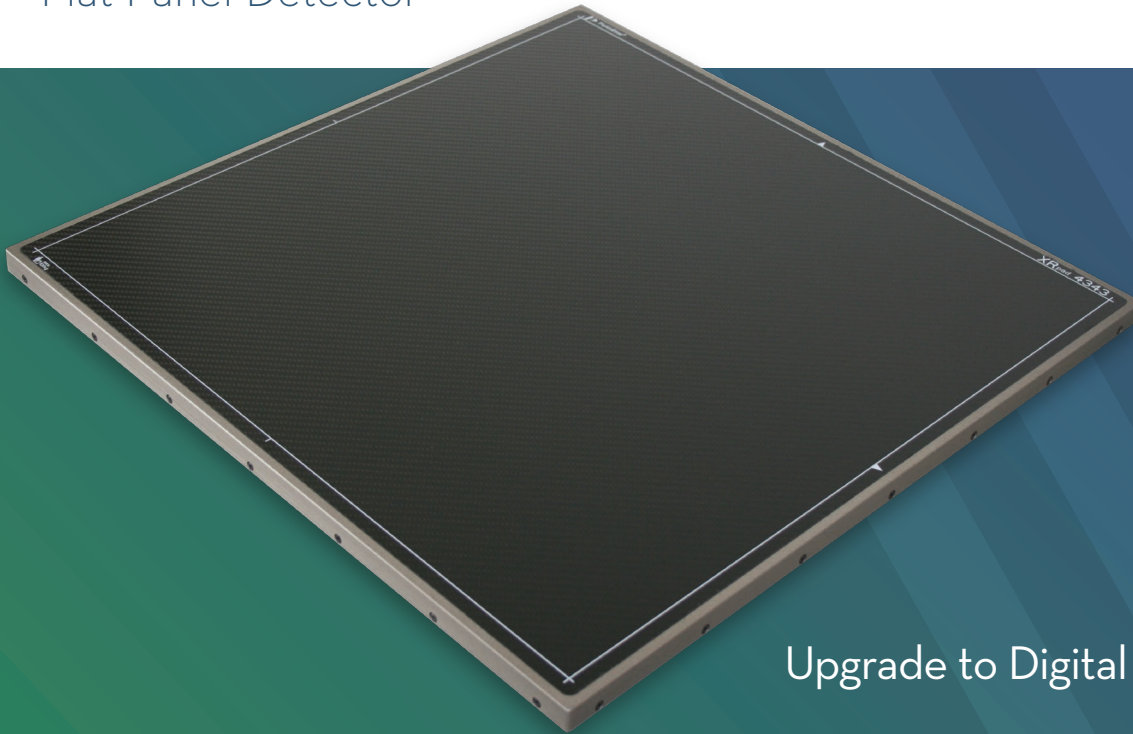


XRpad 4343 F

Flat Panel Detector



Upgrade to Digital Radiography

OVERVIEW

Varex Imaging XRpad™ 4343 F is a lightweight, 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 18.7 million pixel image matrix and best-in-class 100 µm pixel pitch, this detector provides exceptional image quality. Both CsI and Gadox scintillators are available. The true cassette-sized construction, with 43 x 43 cm² imaging area, fits in a standard bucky, enabling easier placement and cleaning. Automatic Exposure Detection simplifies integration.

FEATURES AND BENEFITS

- Fixed configuration cassette detector
- True 43 cm x 43 cm (17" x 17") image
- High resolution 100 µm pixel pitch
- Up to 65,536 grey levels (16-bit ADC)
- Automatic Exposure Detection (AED)
- Direct deposition CsI scintillator (XRpad 4343 F)
- High Efficiency Gadox scintillator (XRpad 4343 F-N)
- High Resolution Gadox scintillator (XRpad 4343 F-J)

APPLICATIONS¹

- Digital radiography

Technical Specifications

SENSOR

Panel Single substrate amorphous silicon active TFT/diode array
Scintillator XRpad 4343 F: Direct Deposition CsI:Tl
XRpad 4343 F-N: High Efficiency Gadox
XRpad 4343 F-J: High Resolution Gadox
Pixel Matrix 4318 × 4320
Pixel Pitch 100 μm

ELECTRONICS

Amplifiers Low noise ASICs with user selectable gains
ADC 16-bit
Image Transfer Time 600 ms
On-board Memory 1 GB DDR3, 4/8 GB SDHC card

MECHANICAL

Size 43 cm × 43 cm (17" × 17") cassette size
Active Area 432 mm × 432 mm
External Dimensions 460 mm (w) × 460 mm (l) × 15 mm (h)
Weight 4.1 kg (9.0 lbs)
Housing Aluminum frame with carbon-fiber entrance window

COMMUNICATIONS

Wired Data I/F GigE via power and communication tether
X-ray I/F Integrated X-ray trigger control
Automatic Exposure Detection

IMAGING PERFORMANCE

Typical DQE	cy/mn	XRpad 4343 F (CsI)	XRpad 4343 F-N (Gadox)
	0	75%	35%
	1	60%	25%
	3	40%	8%

Typical MTF	cy/mn	XRpad 4343 F (CsI)	XRpad 4343 F-N (Gadox)
	1	70%	56%
	2	40%	25%
	4	15%	5%

Limiting Resolution 5 cy/mm
Energy Range 20 - 150 kV

ENVIRONMENTAL

Temperature 10°C - 35°C operating
Humidity 30% to 70% operating (non-condensing)

ACCESSORIES

Interface and XRpad IPU with external power supply 100 - 240 V AC,
Power Unit GigE, and X-ray I/F

REGULATORY

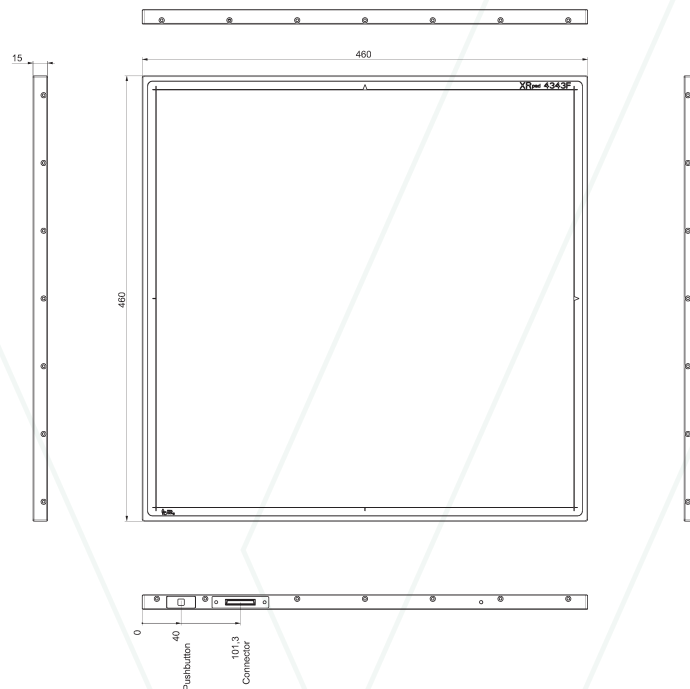
Standards IEC 60601-1, IEC 60601-1-2, IEC 60601-1-6, EN 62311,
ISO 10993-5, ISO 10993-10

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.

MECHANICAL CHARACTERISTICS

(Dimensions in mm)



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