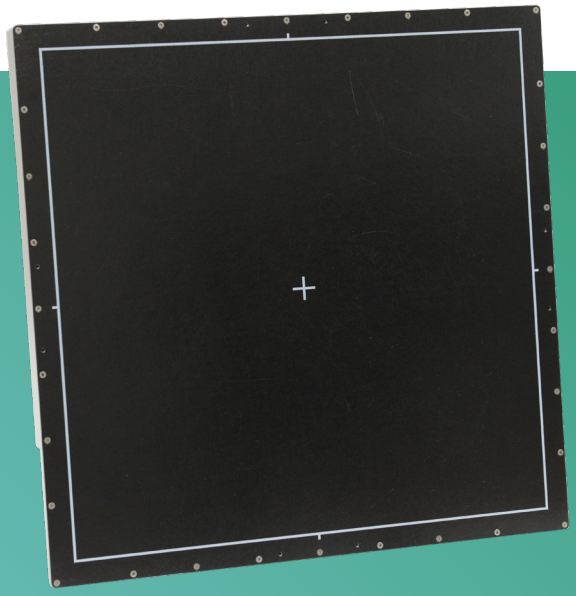
4343R
Digital Radiography



Reliability and Performance

Varex 4343R is a robust X-ray detector designed for fixed and digital radiography applications.

OVERVIEW

The Varex PaxScan 4343R is our largest X-ray imaging flat panel detector designed for general digital radiographic imaging. Based upon the new Gigabit Ethernet interface, images are displayed on a user-supplied workstation.

The 4343R embeds the M-series Varex Smart Panel (VSP) software within the receptor. Developers interface with the receptor through VSP COMM which resides on the workstation. The integrator experience is simplified through the new M-series software interface. An onboard Control Panel is used to manage receptor settings and configuration. The ViVA™ sample imaging application is included. VSP COMM is Windows 10 (32 & 64-bit) compatible.

FEATURES AND BENEFITS

- Designed for fixed applications
- Excellent image quality
- High reliability
- Extremely short cycle time 3.4 sec
- Automated Exposure Detection (AED)

APPLICATIONS[1]

- Digital radiography

TECHNICAL SPECIFICATIONS

SENSOR

Receptor Type	Amorphous Silicon with PIN Technology
Scintillator	DRZ+ / CsI
Pixel Area - Total	427 (h) x 427 (v) mm (16.8 x 16.8 inch)
Active (DRZ+)	424 (h) x 424 (v) mm (16.7 x 16.7 inch)
Active (CsI)	421 (h) x 421 (v) mm (16.6 x 16.6 inch)
Pixel Matrix - Total	3,072 (h) x 3,072 (v)
Effective (DRZ+)	3,052 (h) x 3,052 (v)
Effective (CsI)	3,032 (h) x 3,032 (v)
Pixel Pitch	139 µm
Limiting Resolution	3.6 lp/mm

IMAGE QUALITY

DQE @ 2.1 µGy	GADOX/DRZ+ (typical)	CsI (typical)
DQE @ 0 lp/mm	38%	78%
DQE @ 1 lp/mm	27%	55%
DQE @ 2 lp/mm	16%	42%
DQE @ 3 lp/mm	7%	28%
DQE @ Nyquist	3%	14%
MTF @ 1 lp/mm	54%	56%
MTF @ 2 lp/mm	23%	27%
MTF @ 3 lp/mm	9%	14%
MTF @ Nyquist	6%	10%

COMMUNICATIONS

Cycle Time @ 550 ms	3.4 sec
X-Ray Window	350-4000 ms
Data Output	Gigabit Ethernet
A/D Conversion	16-bit
Workstation Interface	Ethernet Port
Exposure Control	Inputs: Expose-Request and Prep Outputs: Expose-OK AED: vTrigger

MECHANICAL

Weight (DRZ+ / CsI)	6.1 kg ±0.1 kg / 6.2 kg ±0.1 kg
Housing Material	Aluminum
Sensor Protection Material	Carbon Fiber and aluminum

ENVIRONMENTAL

Shock	High-shock tolerance
Temperature Operating (at back cover)	10°C to 40°C (max.)
Storage Temperature (ambient)	-20°C to +70°C
Humidity - Operating & Storage (non-condensing)	10% to 90%

POWER

Power Dissipation	14 watts (max.)
Power Supply/Adaptor	90-240 VAC, 47-63 Hz

REGULATORY

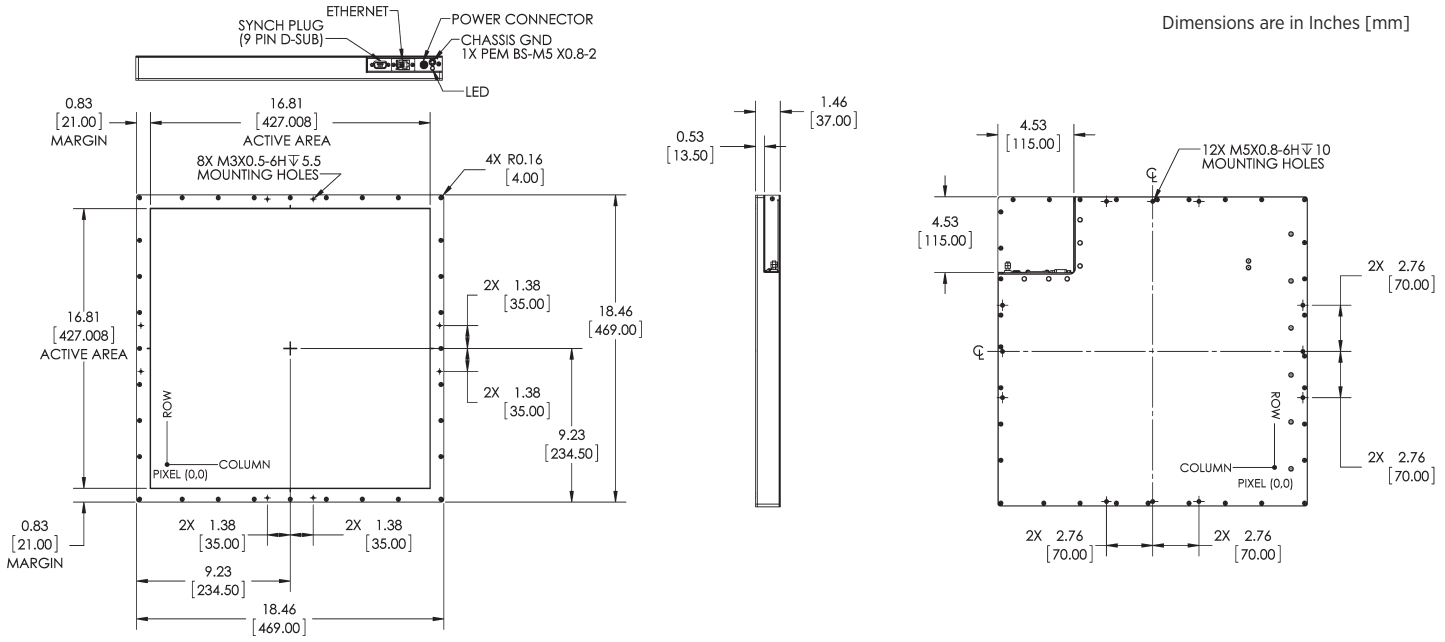
U.S.	ANSI/AAMI ES 60601-1:2012
Canada	CAN/CSA C22.2 No. 60601-1:14
EU	IEC/EN 60601-1:2012

[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.

4343R Panel

DImension are for reference only

Dimensions are in Inches [mm]



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