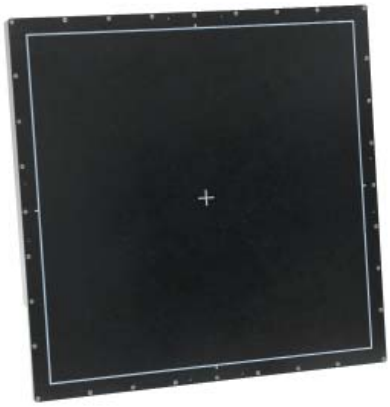
PaxScan® 4343R

Flat Panel Detector

Version 3



Product Description

The PaxScan 4343R Version 3 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.

Technical Specifications

Receptor Type ..... Amorphous Silicon with PIN Technology

Conversion Screen ..... CsI, DRZ+

Pixel Area - Total ..... 42.7 (h) x 42.7 (v) cm (16.8 x 16.8 inch)
Active ..... 42.4 (h) x 42.4 (v) cm (16.7 x 16.7 inch)

Pixel Matrix - Total ..... 3,072 (h) x 3,072 (v)
Effective ..... 3,052 (h) x 3,052 (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%
Sensitivity	402 LSB/nGy	768 LSB/nGy

Dose Range	DRZ+	CsI
Saturation Dose	163 µGy	85 µGy
Maximim Linear Dose	132 µGy	59 µGy
Noise Equivalent Dose	367 nGy	179 nGy

Cycle Time @ 550ms ..... 3.4 sec

X-ray window 350-4000ms

Energy Range ..... 40 - 150 kVp

Fill Factor 63%

Scan Method ..... Progressive

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

Software

The 4343R Version 3 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® 7, (32 & 64-bit), Windows 8.1 (32 & 64-bit) or Windows 10 (32 & 64-bit) compatible.

Computer Requirements

RAM ..... 2.00 GB

CPU ..... Pentium dual core running @ 2.0 GHz or equivalent

Power

Power Dissipation ..... 14 watts (max.)

Power Supply/Adaptor ..... 90-240 VAC, 47-63 Hz

Mechanical

Weight

DRZ+ ..... 6.1 kg (13.4 lbs.)

CsI ..... 6.2 kg (13.6 lbs.)

Housing Material ..... Aluminum

Sensor Protection ..... Carbon fiber and aluminum

Environmental

Shock ..... High-shock tolerance

Temperature Range - Operating (at back cover) .. 10°C to 40°C (max.)
(Ambient) - Storage ..... -20°C to +70°C

Humidity - Operating & Storage (non-condensing) ..... 10% to 90%

Atmospheric Pressure - Operating & Storage ..... 70 kPa to 106 kPa

Regulatory

U.S. ..... ANSI/AAMI ES60601-1:2012

Canada ..... CAN/CSA C22.2 No. 60601-1:14

EU ..... IEC/EN 60601-1:2012

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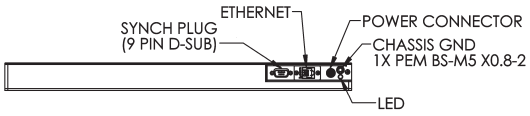
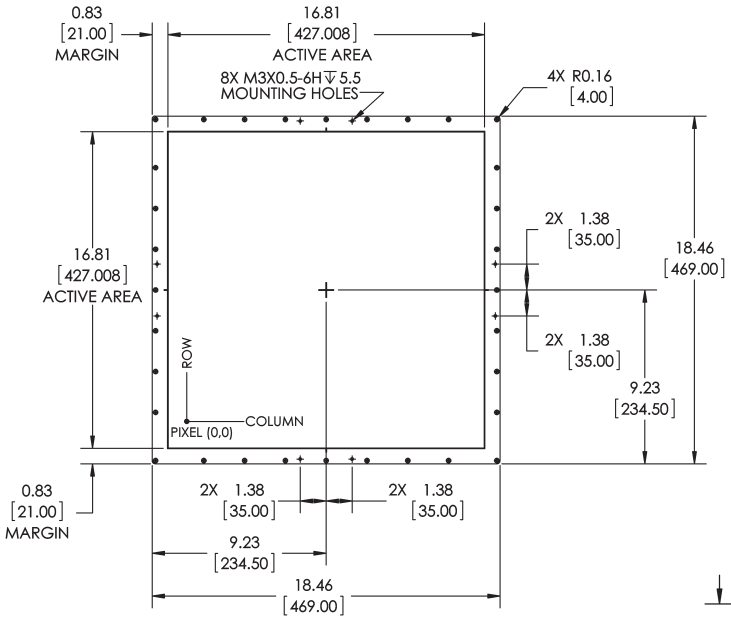
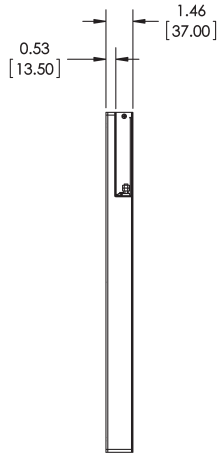
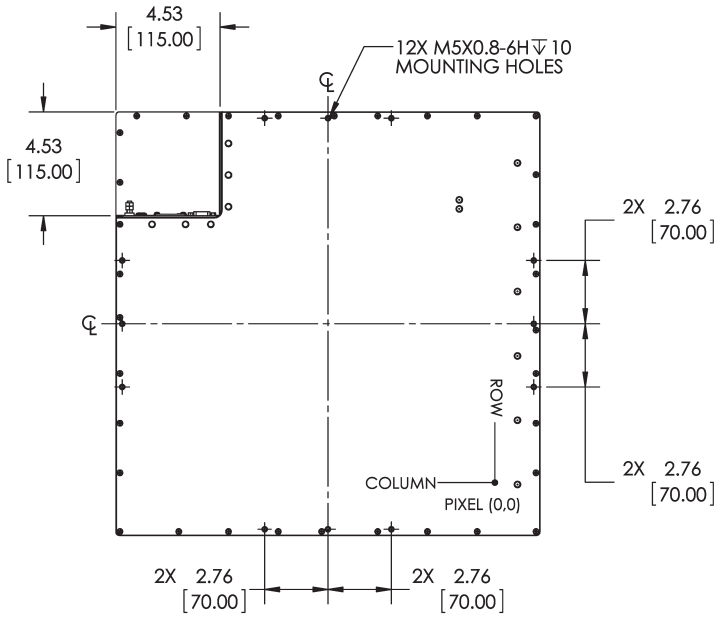


DImensions are for reference only

Dimensions are in Inches [mm]







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Manufactured by Varex Imaging Corporation

Specifications subject to change without notice.

Note: All Varex Imaging Amorphous Silicon Receptors are designed to be integrated into a complete X-ray system by a qualified system integrator. The system Integrator is responsible for obtaining FDA clearance for medical use.