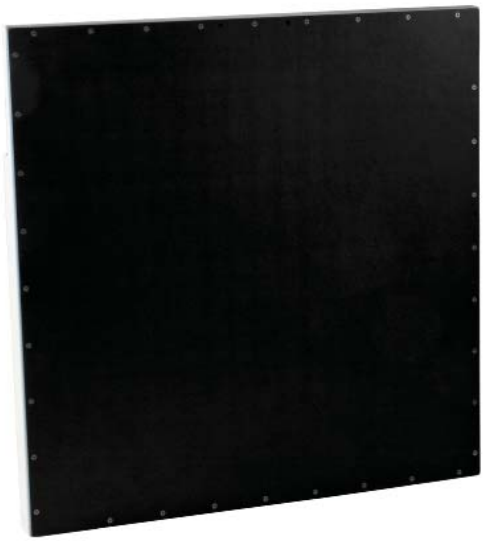
PaxScan® 4343DXV

Flat Panel Detector



Product Description

The PaxScan® 4343DXV is a real-time digital X-ray imaging device commonly referred to as a flat panel detector (FPD). The main system components are the 43 x 43cm 139µm-pixel amorphous silicon FPD. Excellent low-dose performance is achieved by combining Varex Imaging's proprietary readout electronics with a custom Cesium Iodide scintillator. A Windows® (64 bit systems only) based application program and a communications command (DLL) library has also been developed to assist OEM customers tasked with developing their own system interface. This imager is intended for incorporation into a complete X-ray system by a qualified equipment manufacturer.

Technical Specifications

Receptor Type . . . . . Amorphous Silicon
Conversion Screen . . . . . Integral columnar CsI:Tl
Pixel Area - Total . . . . . 42.7cm (h) x 42.7cm (v) (16.8 x 16.8 in)
Pixel Matrix - Total . . . . . 3,072 (h) x 3,072 (v)
Effective . . . . . 3,032 (h) x 3,032 (v)
Pixel Pitch . . . . . 139 µm
Limiting Resolution . . . . . 3.6 lp/mm @ 4 fps (1 x 1)

Image Quality (RQA5) . . . . . **(typical)**

MTF (1x1)
1.0 lp/mm 54%
DQE (1x1, Quantum-limited)
0 lp/mm 78%
Quantum-limited Dose (2x2) . . . . . 6 nGy (3x3)
Energy Range . . . . . 40 - 150 kVp
Fill Factor 60%
Lag . . . . . <3% (first frame)
Scan Method . . . . . Progressive
Data Output . . . . . Gigabit Ethernet
A/D Conversion 16-bit
Cooling . . . . . Passive
Radiation Tolerance . . . . . 2000 Gy (active area)

Power Requirements

Power Dissipation . . . . . 18 watts (cont.)
25 watts (max.)
Power Supply/Adaptor . . . . . 100-240 VAC, 50-60 Hz

Mechanical

Weight . . . . . approx. 8.0 kg panel
Housing Material . . . . . Aluminum
Sensor Protection . . . . . Carbon fiber and aluminum
Mounting Provisions . Blind, threaded mounting holes on the back.

Image Acquisition Modes (Current)

Fluoro Zoom: 1024 (h) x 1024 (v)
30 fps continuous X-ray, 15 fps pulsed X-ray
2 x 2 binning, FOV 285 x 285 mm
RAD: 3072 (h) x 3072 (v)
4 fps continuous X-ray, 2 fps pulsed X-ray
1 x 1 binning, FOV 427 x 427 mm
RF: 1024 (h) x 1024 (v)
25 fps continuous X-ray, 15 fps pulsed X-ray
3 x 3 binning, FOV 427 x 427 mm

Additional Modes: Consult Varex Imaging

Note: Faster pulsed frame rates are available depending on desired X-ray window

Environmental

Temperature Limit . . . . . 19°C - 58°C
(as reported by imager internal sensor)
Relative Humidity . . . . . 10 - 90% Non-Condensing
Atmospheric Pressure . . . . . 70 kPa - 106 kPa
Shock Tolerance . . . . . 20G (any direction no power applied)

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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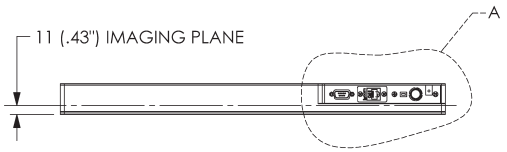
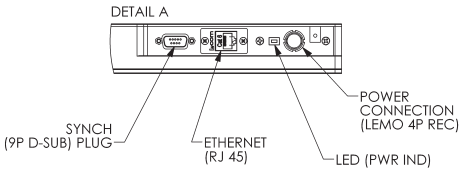
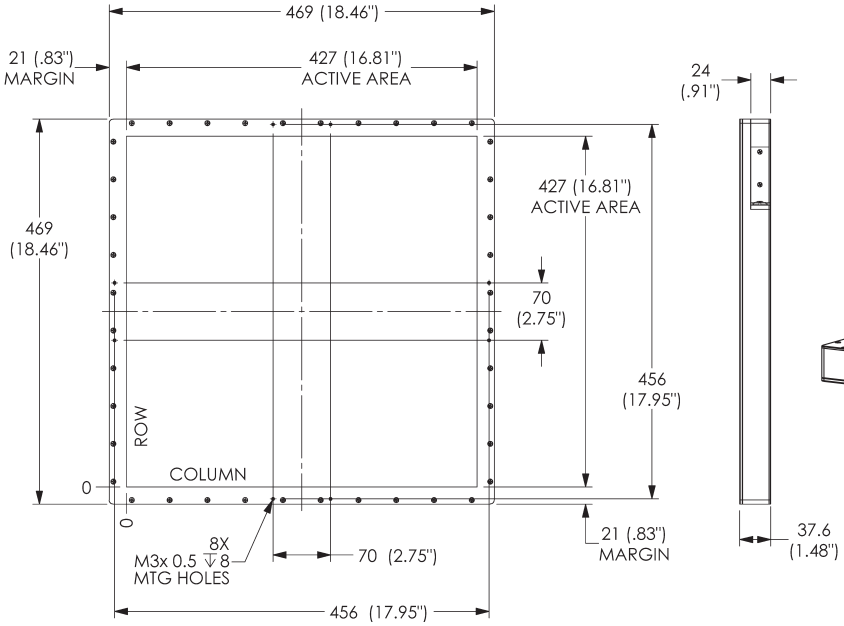
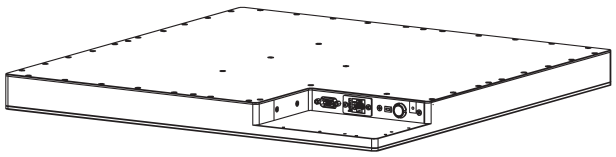
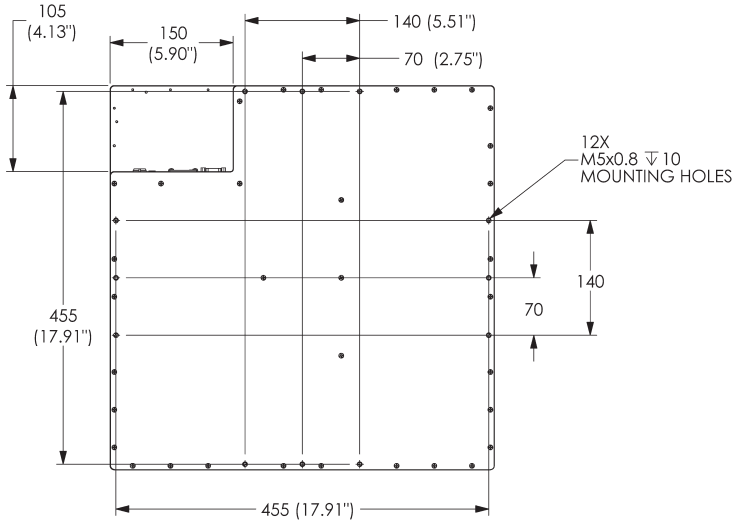






Dimensions are for reference only
Dimensions are in mm (inches)





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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.