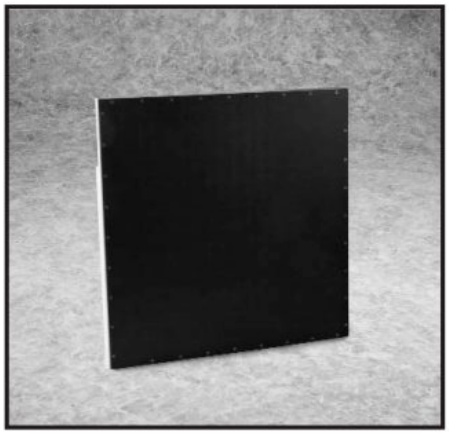
VARIAN medical systems | X-RAY PRODUCTS

PaxScan® 4343R
Digital Image Receptor



Product Description

The 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

Technical Specifications

Receptor Type
Amorphous Silicon with Charge Well Pixel™ Technology

Conversion Screen .... Direct Deposit CsI, Detached CsI, DRZ Plus

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)
Active ..... 3,052 (h) x 3,052 (v)

Pixel Pitch ..... 139 µm

Limiting Resolution ..... 3.6 lp/mm

DQE (0) (RQA5) ..... 70% ±5%

Energy Range Standard ..... 40 - 150 kVp

Fill Factor 100%

Scan Method ..... Progressive

Data Output ..... Gigabit Ethernet

A/D Conversion 14-bits

Cycle Time (minimum / standard) ..... 6 / 8 sec.

Workstation Interface ..... Ethernet Port

Exposure Control ..... Inputs: Expose-Request
Outputs: Expose-OK

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Software

The software release includes ViVA™, a basic application for image acquisition and viewing on an end-user workstation or laptop running Microsoft® Windows™. The developer's software package includes a "Virtual Command Processor" software interface that performs detector calibration, detector set-up, image acquisition, and image corrections. ViVA™ includes file type translators for .viv, .raw, .jpg, and .bmp file formats. Windows® XP and Windows® 7 (32 bit) compatible.

Environmental

Shock ..... High-shock tolerance

Temperature Range - Operating (at back cover) ... 10°C to 35°C (max.)
(Ambient) - Storage ..... -20°C to +70°C

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

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

Regulatory

U.S. ..... UL 60601-1
Canada ..... CSA 22.2 No. 601.1-M90

Mechanical

Weight ..... 16.5 lbs. (7.5 kg)

Housing Material ..... Aluminum

Sensor Protection Material ..... Carbon fiber plate and aluminum

Power

Power Dissipation ..... 40 watts (cont.)
42 watts (max.)

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

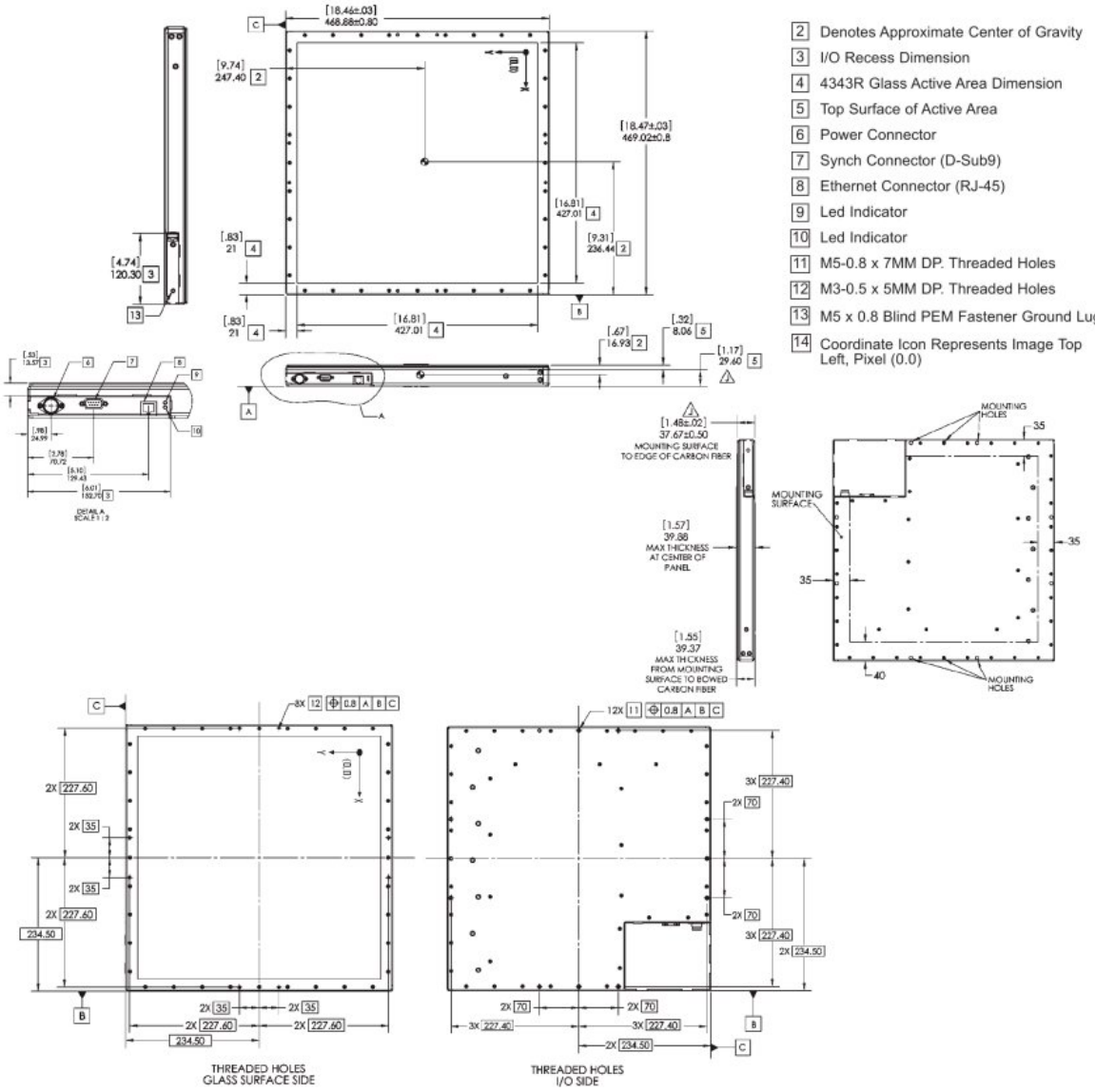
Computer Requirements

RAM ..... 2.00 GB

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

Drawings are for reference only

Dimensions are in mm [inches]



2 Denotes Approximate Center of Gravity
3 I/O Recess Dimension
4 4343R Glass Active Area Dimension
5 Top Surface of Active Area
6 Power Connector
7 Synch Connector (D-Sub9)
8 Ethernet Connector (RJ-45)
9 Led Indicator
10 Led Indicator
11 M5-0.8 x 7MM DP. Threaded Holes
12 M3-0.5 x 5MM DP. Threaded Holes
13 M5 x 0.8 Blind PEM Fastener Ground Lug
14 Coordinate Icon Represents Image Top Left, Pixel (0.0)

NOTE: As with all Varian Amorphous Silicon Image Receptors, the PaxScan 4343R is 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.

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