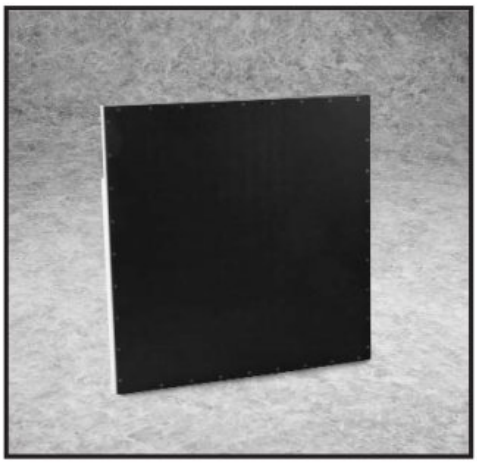
VARIAN medical systems | X-RAY PRODUCTS

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

®PaxScan is a Registered Trademarks of Varian Medical Systems

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

24445-000 Rev F 02/13 Manufactured by Varian Medical Systems Specifications subject to change without notice.