OR Technology

Varex
Flat panel detector
PaxScan® 4343RC

17 x 17 Zoll [43 x 43 cm]

The PaxScan 4343RC is a ruggedised flat panel detector designed for general radiographic imaging in fixed and portable applications. The flat panel detector fits into a conventional table or wall-stand Bucky, just like a film-screen cassette.

Equipped with a resolution of 3.6 lp/mm and 139 μm pixel pitch, the PaxScan 4343RC offers exceptional image quality. The highly efficient CsI scintillator guarantees very sharp images with minimal radiation dose.

The X-ray detector consists of aluminium and carbon fibre and is extremely stable with a load of up 100 kg* or more.

- Detector based on amorphous silicon (a-Si) with PIN technology and with caesium iodide (CsI) scintillator
- Automatic synchronisation of detector and generator by means of AED - no need to modify the X-ray system and to adjust the system or the cable connections
- Pixel pitch 139 μm
- Resolution approx. 3.6 lp/mm
- A/D conversion 16 Bit
- Dimension 42.7 x 42.7 x 1.5 cm
- Weight ca. 3.76 kg

**concentrated load with 40 mm diameter in the middle of the detector*

Varex Flat panel detector PaxScan® 4343RC

17 x 17 Zoll [43 x 43 cm]

Parameter

Technical Specifications	
Receptor Type	Amorphous Silicon with PIN Technology
Conversion Screen	CsI
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

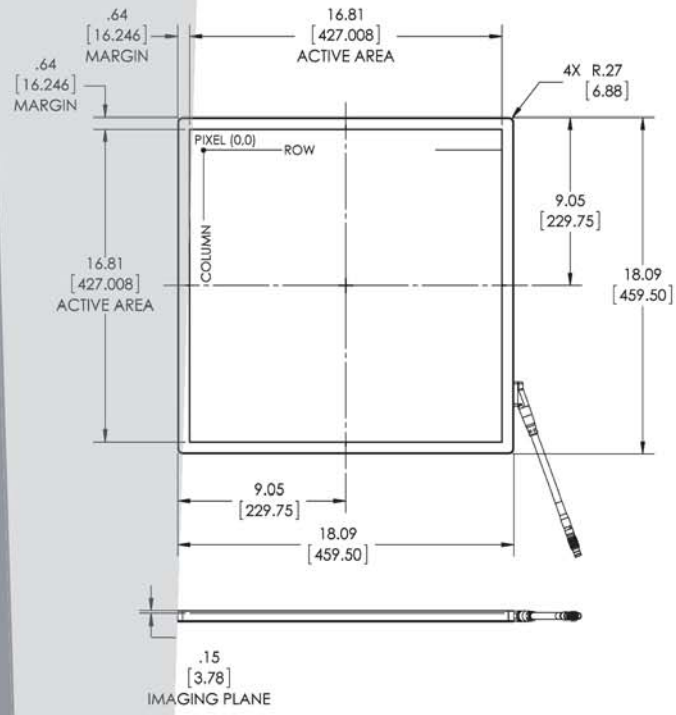
Image Quality	
DQE @ 0 lp/mm	78%
DQE @ 1 lp/mm	55%
DQE @ 2 lp/mm	42%
DQE @ 3 lp/mm	28%
DQE @ Nyquist	14%
MTF @ 1 lp/mm	56%
MTF @ 2 lp/mm	27%
MTF @ 3 lp/mm	14%
MTF @ Nyquist	10%
Sensitivity	768 LSB/nGy

Dose Range	
Saturation Dose	85 µGy
Maximim Linear Dose	59 µGy
Noise Equivalent Dose	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

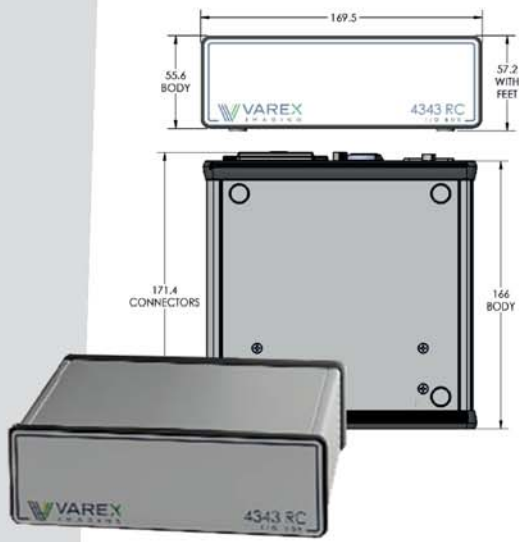
Mechanical	
Weight (without cable)	3.76 kg ± 0.1 kg
Housing Material	Aluminum
Sensor Protection	Carbon fiber and aluminum

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

4343RC Panel



I/O Box



Please visit **www.or-technology.com** for more details

Specifications subject to revision without notice

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Version: 001_07_19