# PaxScan 4336Wv4

14x17 Wireless Cesium DR System

PaxScan 4336Wv4 is a light weight, wireless flat panel detector designed to work with your new or existing x-ray system. The detector fits standard 14"x17" Bucky trays and its wireless communication enables easy migration between the table and chest stand.

Varex Imaging's wireless detectors with Nexus DR acquire software allows you to take full advantage of superior digital image quality along with higher throughput, significant workflow efficiencies, and the potential to greatly enhance the level of patient care.

Highlights

- 139 micron Pixel Pitch

- Limiting Resolution 3.0 cy/mm

- Automatic Exposure Detection (AED)

- 16-bit Dynamic Range 65,536 shades of gray

- Cassette-sized to fit most conventional Bucky trays

- 3-Bay Battery Charger and Three Li-Polymer Batteries

- Directly Deposited Cesium Iodide (CsI) for Excellent Images

- 5 Year Manufacturer's Defect Warranty
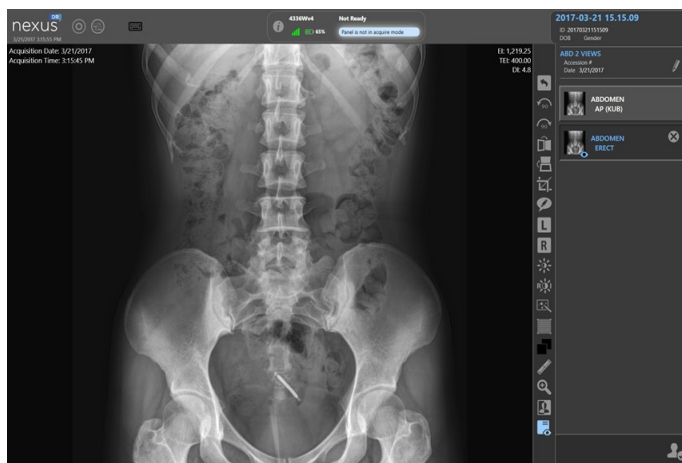
Nexus DR is an advanced digital image acquisition system designed to automate patient work flow. Nexus includes advanced image processing algorithms for optimal image quality and excellent reliability.

Designed to provide fast and accurate diagnostic images with minimal user interaction. Optimized work flow allows X-ray technologists to focus on the patient while easily capturing high quality images.

Ti-BA ENTERPRISES, INC.

Technical Specifications

Receptor Type .... Amorphous Silicon with TFT/PIN diode Technology
Conversion Screen .... CsI

Pixel Area

Total .... 42.7 (v) x 34.4 (h) cm (16.8 x 13.5")

Active (CsI) .... 42.4 (v) x 33.9 (h) cm (16.6 x 13.3")

Pixel Matrix

Total .... 3,072 (v) x 2,476 (h)

Active (CsI) ...…... 3,032 (v) x 2,436 (h)

Pixel Pitch .... 139 µm
Limiting Resolution .... 3.6 lp/mm
Automatic Exposure Detection (AED) .... via vTrigger

Image Quality

	CSI (typical)
DQE @ 3 lp/mm	26%
DQE @ Nyquist	15%
MTF @ 1 lp/mm	57%
MTF @ 2 lp/mm	27%
MTF @ 3 lp/mm	13%
MTF @ Nyquist	10%
Sensitivity	0.82 LSB/nGy
Pixel Noise (1000ms)	8.7 LSB
Memory Effect	0.004 (@ 60sec)

Main Functionalities

Cycle Time @ 550ms (X-ray Window)	7 sec (MSR2, RCT)	7 sec (MSR2, RCT)
X-ray window	350-3500 ms	350-3500 ms

Dose Range

	DRZ+	CsI
Maximim Linear Dose	100 µGy	69 µGy
NED	0.65 µGy	0.4 µGy

Energy Range   Standard .... 40 - 150 kVp
Fill Factor 60%
Scan Method .... Progressive
Data Output .... Wireless
A/D Conversion 16-bit
Exposure Control   Inputs: .... Prepare, Expose-Request
Outputs: .... Expose-OK

Patient Contact

Surface Temperature .... rated to not exceed 42 degrees C
Weight Limit
Uniform load across entire carbon fiber surface .... 150 kg
  Concentrated 40mm diameter load at the center of the imager … 100 kg

Computer Requirements

RAM .... 2.00 GB

CPU .... 1 GHz or faster processor (32-bit or 64-bit)

Power

Power Consumption .... Idle - 3.3 watts

Acquisition - 7.8 watts
Image Transfer - 10.2 watts

Wireless

Wireless Modes STA or AP .... 802.11 a/g/n/ac, 2x2 MIMO

Mechanical

Weight (values are typical and includes battery)

CsI .... 3.8 kg ± 0.25 kg

Housing Material .... Aluminum/Magnesium

Sensor Protection Material .... Carbon fiber plate

Three-bay Charger with 3 batteries

Lithium polymer smart battery prevents over charging

Charge capability .... 1000 images over 6 hrs
Expected Life .... 300 cycles of charge/discharge

Environmental

Shock .... High-shock tolerance
Water Resistant .... IP51 (horizontal, face up)
Temperature Range - Operating (at back cover) .... 10°C to 35°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