



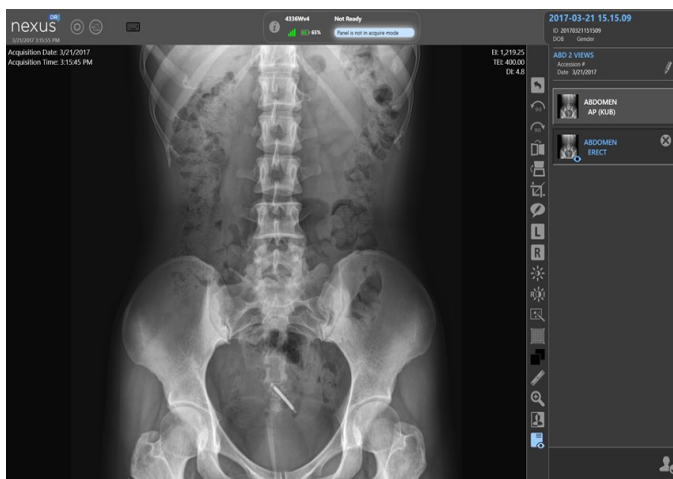
XRpad 4343

17x17 Wired Cesium DR System

Featuring best-in-class 100 μm (micron) pixel size, direct deposition CsI scintillator and excellent DQE, XRpad 4343 enables high resolution imaging with greatly reduced X-ray exposure. Automatic Exposure Detection (AED), on-board corrections, and Interface Power Unit (IPU) for wired connectivity make system integration quick and simple. Powered by Nexus® image acquisition software by Varex, XRpad is a true OEM solution.

Highlights

- Cassette-sized fits in conventional Bucky tray
- Reduce patient dose by up-to 40%
- Direct deposition Cesium Iodide
- vTrigger Automatic Exposure Detection (AED)
- Industry Best 100 Micron Pixel Pitch
- Battery charger and two batteries
- Excellent Limiting Resolution 5 cy/mm
- 16-bit Dynamic Range 65,536 shades of gray
- IPX4 rated (protection against liquids)
- On-board pixel corrections and storage



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.

XRpad2 4336 Technical Specifications

Sensor	
Panel	Single substrate amorphous silicon active TFT/diode array
Scintillator	Directly deposition CsI:TI
Pixel Matrix	4388 × 4388
Pixel Pitch	100 μm
Electronics	
Amplifiers	Low noise ASICs with user selectable gains
ADC	16 bit
Image Transfer Time	Wired: 500 ms;
On Board Memory	1 GB DDR3, 4 GB SDHC Card
Mechanical	
Size	ISO 4090 for 43 cm × 43 cm (17" × 17")
Active area	True 426 mm × 426 mm
External dims	460 mm (w) × 460 mm (l) × 15.5 mm (h)
Weight	6.8 lbs (3.1 kg)
Housing	Aluminum frame with carbon-fiber entrance window
Communications	
Status Displays	OLED display: LAN connectivity indicators
Wired Data I/F	GigE trigger and power via docking connector
X-ray I/F	Integrated X-ray trigger control Automatic Exposure Detection (AED)
Acquisition SW	Nexus Acquire Software, DICOM 3.0
XRpad Warranty	Two Year Warranty on Detector One Year Warranty on Battery System

Imaging Performance	
Limiting Resolution	5 cy/mm
Typical MTF	65% (1 cy/mm), 38% (2 cy/mm), 14% (4 cy/mm) for RQA5
Typical DQE	75% (0 cy/mm), 58% (1 cy/mm), 38% (3 cy/mm) for RQA5
Environmental	
Temperature	10 – 35 °C operating
Humidity	30 – 70 % RH operating (non-condensing)
Ingress Protection	IPX4 rated (protection against splashing water)
Power	
Battery	n/a
Battery Charger	n/a
Interface and Power Unit	XRpad IPU with external power supply 100-240 V AC, GigE, and X-ray I/F
Regulatory	
Standards	IEC 60601-1, IEC 60601-2, IEC 60601-1-6, FCC 47CFR PT 15, FCC OET 65C, ETSI EN 301 893, EN 62311 ISO 10993-5, ISO 10993-10, CE
Customizable Options	
Sequence Mode	Up to 3 fps (Wired and Wireless with image buffer)
Binned Mode	Up to 8 fps for 2 × 2 binned, 200 μm pitch for a pixel matrix of 1778 × 2160
Image Calibration	On-board offset, gain and defective pixel corrections
Fast Preview	4 × 4 binned quick preview image



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