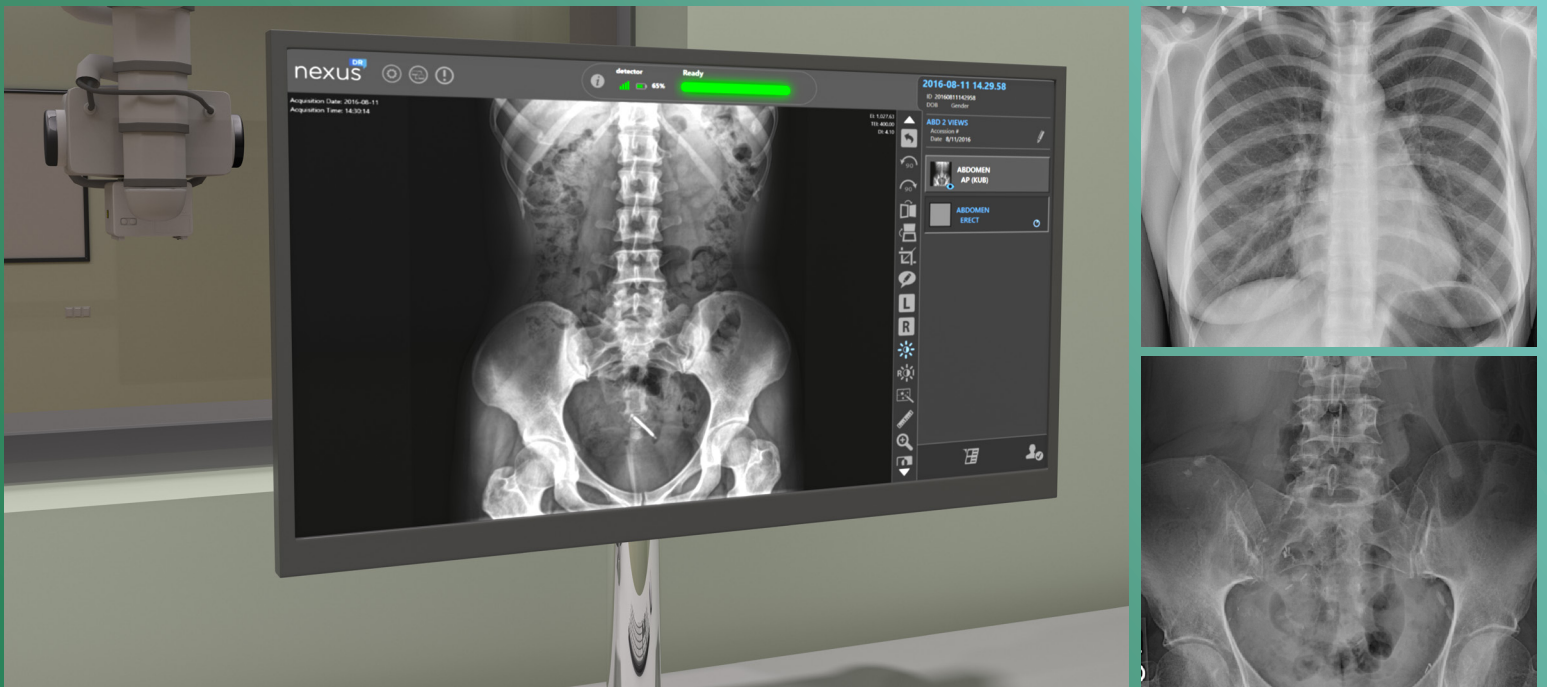# nexus DR

Digital Radiography Made Fast, Accurate, and Affordable

VAREX IMAGING

Making the Invisible Visible

Nexus DR is an advanced digital image acquisition system designed to automate patient work flow. It is a cost effective solution that includes advanced image processing algorithms for optimal image quality and reliability.

Designed to provide fast and accurate diagnostic images with minimal user interaction, Nexus DR is an efficient solution for your digital radiography needs. Optimized work flow with this product will allow X-ray technologists to focus on the patient while seamlessly capturing images.

Advanced Image Quality
- Processing and enhancement tuned to each anatomical protocol
- Site specific tuning capability

Cost-effectiveness
- Nexus DR is designed to be packaged and resold to end users by our customers
- Nexus DR package options can include a Varex Flat Panel detector and a complete workstation computer kit. When a complete hardware and software kit are purchased, Varex Imaging will setup and test the system with the flat panel prior to shipment.
- Varex Imaging also saves you time to market by obtaining FDA clearance for our Nexus DR package

Easy to Use
- IOS-like look and feel with multi-touch monitor
- Easy patient worklist selection when integrated with RIS
- Extensive pre-loaded exam protocols
- System guidance through defined protocol with seamless image transfer to DICOM server
- DICOM 3.0 compliant

Integration Capabilities
- Nexus DR can be integrated with the generator to eliminate the generator console[2]
- Available in-room console is optimized for use with a small, overhead-mounted touchscreen

Making the Invisible Visible

Acquisition features

- User input via touchscreen or keyboard & mouse
- Simple patient selection from work list
- Exposure Index for technique optimization
- Auto advance to acquisition upon patient selection
- Auto acquisition advance based on custom protocols
- Highly optimized DR image acquisition work flow
- Auto send to DICOM upon completion of exam
- Multi-Panel Support - up to 3 panels
- Dose measurement with VacuDAP dose meter[1]
- Generator integration[2]

Software Features

- HIS/RIS work list support
- Configurable automatic study advance
- Over 500 preloaded exam profiles
- Accept/reject functionality
- Auto region of interest (ROI)
- Thumbnail image display
- Left/right markers with smart positioning
- Optimized work flow for fast patient throughput
- Image measurement and annotation tools
- Support for multiple languages
- Background multi-tasking hard copy allows simultaneous processing and printing during acquisition
- Online and remote service diagnostics
- Stitching - allows to combine multiple images into one large image

Image Processing Software

- Utilizes advanced image processing algorithms for optimum image quality
- Imaging parameters tied to customizable APR-based acquisition profiles
- Grid detection and suppression
- Extensive post-processing features
- vSharp® - Scatter correction (optional)

Nexus DR Hardware Specifications

Our Recommended Hardware as follows:
- Tablet, all-in-one, or small desktop PC
- Intel Core family CPU (4th generator or later)
- Windows 10 Professional® - 64 bit operating system
- 256 GB HD or SSD (not intended to be an archive device)
- 8 GB RAM
- Multi-touch monitor to enable touch capability
- Keyboard and mouse fully supported

Flat Panel Detector

Nexus DR is integrated with Varex's latest PaxScan 43x36cm (17x14 inch) and 43x43cm (17x17 inch) and XRpad2 43x36cm (17x14 inch), 30x25cm (12x10 inch) and XRpad 43x43cm (17x17 inch) Radiographic Flat Panel Detectors

- Cesium iodide or Gadox scintillators available
- XRpads - 100 μm pixel
- PaxScan 139 μm pixel pitch for up to 3.6lp/mm spatial resolution
- 16 bit A/D contrast resolution
- vTrigger (AED Mode) or hardwire exposure synchronization

[1] Nexus DR with VacuDAP not sold or offered for sale in the United States
[2] Generator integration
   CPI CMP200® or
   Spellman® HFe

More Information

As a market leader and independent supplier of medical X-ray components, we have extensive experience providing high-quality, safe, and effective products.

For more information, please contact a Varex Imaging sales representative at NexusSoftware.cs@vareximaging.com.

All promotional material and the information provided herein is for planning purposes only. Commercial sale is dependent upon FDA clearance.

Varex Imaging Corporation

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