

Complete Digital Imaging System

The DR Navigator 14x17" Smart Panel 200 is one of the smallest sized - highest detail - self-contained digital imaging systems available. The DR Navigator 200 system is a silicon flat-panel digital X-ray detector with revolutionary CSI screen technology that captures radiographic images in digital format within seconds, eliminating the need for an X-ray film, phosphorescent plates or cassettes.

Features & Benefits:

- Elimination of film processing
- No odors or hazardous waste materials
- Faster, image display
- Decrease of patient x-ray retakes in some cases
- Image manipulation for and enhanced diagnosis (zoom, contrast, tilt, color, special filters, archiving, etc..)
- Less expensive to operate (eliminate chemicals, film and processor)
- Less time consuming, little maintenance, no processor cleaning
- Better reliability-consistent & repetitive high quality images
- Less patient stress, increased image diagnostic information & manipulation with less patient movement
- Capable of transmitting images via e-mail
- Archival, long-term storage and retrieval capabilities
- Approximately 50,000 images are stored in the computer for easy accessibility & transfer
- A comprehensive toolkit permits physicians to adjust image gray scale window/level, ensuring confidence in their assessments
- Transmits DR images using the DICOM format and protocol to any DICOM based PACS



System Includes:

- Samsung 14x17 Flat Panel Imaging Unit
- Work Station Server Computer
- Interface cabling
- Full Featured Imaging Software
- Technique Charts

Specifications:

Flat-panel Digital X-Ray Portable Detector:

- » Detecting Area - 14"x17"
- » Pixel Active - Area 5200x2800
- » Pixel Pitch - 150um
- » Pixel Size - 150x150um
- » Pixels - 6.7 million pixels
- » Active Array - 2400x2880
- » Active Area - 360x432mm
- » Xray Convertor - CsI:Tl
- » A/D Convert - 14bits
- » Voltage - AC 100~240V±10% (50/60Hz)
- » Operation Environment - 5-35°C, 20-75% RH (Non-Condensing)
- » DICOM Store - Interface to DICOM storage servers
- » Dimensions - Detector 491x480x15mm (14x17")
- » Weight 8.6LBS/3.8KG

Dell Computer Specifications:

- » Intel Dual Core 2.40 GHz, 3 MB/ DVD/RW
- » 160 GB Hard Drive, 9.5MM, 7200 RPM
- » Memory 2.0 GB, DDR3 SDRAM, 1 DIMM
- » 23" LED Monitor
- » IBM-Compatible tower mini Server/Workstation
- » Dual core or Better, 2 GB RAM
- » RAID 1 - 1 TB (2 x 1TB HDD)
- » Integrated Gigabit NIC, keyboard and mouse, 500R UPS
- » LG 20" Flat Panel LCD monitor 1600 x 1200 (2MP) Resolution

Opal-Rad General Viewing Software:

- » Work Station Server Software - 2 - Client Viewer Licenses
- » DICOM Send, DICOM Print, Image Server (short-term storage)
- » Review & Processing,- Patient review
- » Window Leveling,- Reverse Black/White (Window polarity inversion)
- » Image rotation,- Electronic zoom with pan & scroll capabilities
- » Magnifying glass,- Multi-scale contrast enhancement and Dynamic Range
- » Electronic shutter for masking of image (cropping)
- » Multi-format display (for printing),
- » Screen display formats of 1,4,9,16 within a single frame
- » Automatic background Blackening
- » Optimized image processing parameters feature

