



**DEL MEDICAL**

**DELWORKS MEDICAL DR** *take the next step*



# DELWORKS MEDICAL DR

If you are thinking of taking the next step to digital radiography, consider a DelWorks Medical DR Retrofit Package, the easy and affordable way to upgrade an existing general radiographic room to digital. Upgrading to digital will streamline the imaging process in any facility allowing you to diagnose quickly and efficiently.

All DelWorks Medical DR Retrofit Packages include:

- Varian Amorphous Silicon Flat Panel Detector
- DelWorks Acquisition & Processing Software
- Exposure Synchronizing Device
- Dell Optiplex 780; Intel Core 2 Duo 3.0 Ghz, 4GB RAM, 250GB HD
- Barco 19" touchscreen flat panel, 1280 x 1024 color display, keyboard and mouse
- Standard DICOM connectivity functions: Print, Store, Worklist
- Barcode reader
- Complete generator integration on select generator models



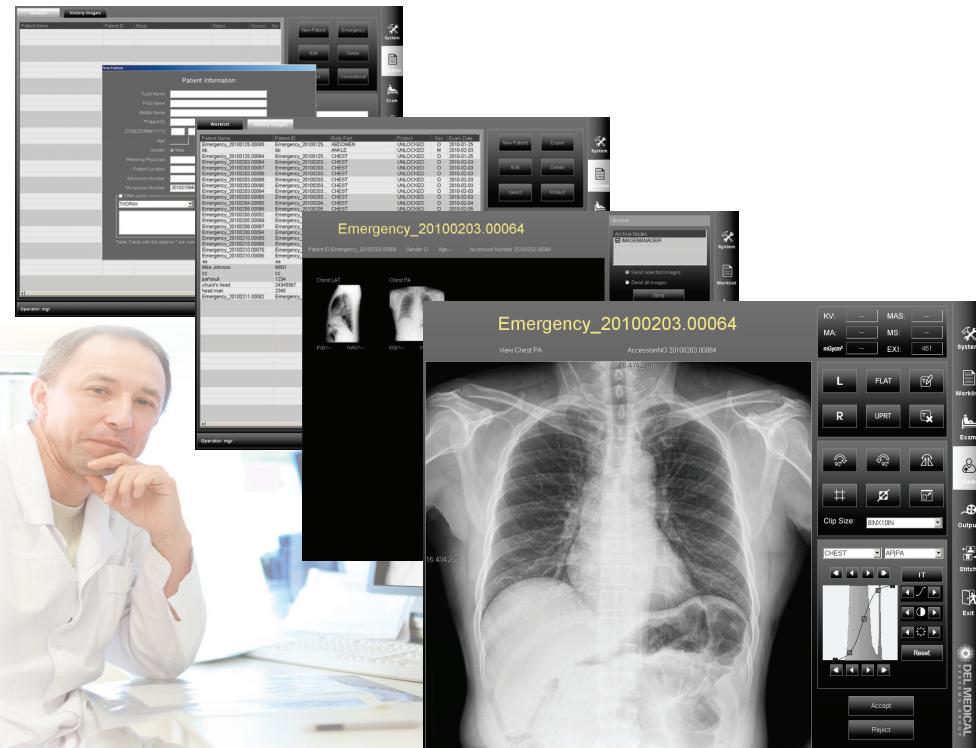


# DELWORKS

## acquisition & processing software

Del Medical's DelWorks Acquisition & Processing Software is a fully integrated, Windows-based user interface for every step of the examination procedure, including:

- Network connectivity for patient selection
- Exam configuration
- Anatomical programming
- Setting of exposure parameters
- QA and post processing of acquired images
- DICOM Store, DICOM Print and DICOM Modality Worklist
- Image Stitching (medical applications only)
- Advanced Image Processing and algorithms



## VARIAN dr detectors

Choose from the Varian 14" x 17" Portable or 17" x 17" Fixed Flat Panel detectors for your DR Package. The innovative 14" x 17" portable flat panel detector will easily retrofit into your existing table or wallstand, making it an immediate replacement for CR plates and conventional films. The portable detector is tethered with a cable that allows for easy movement from the table to the wall stand in seconds, without the need for expensive dual-detector configurations.



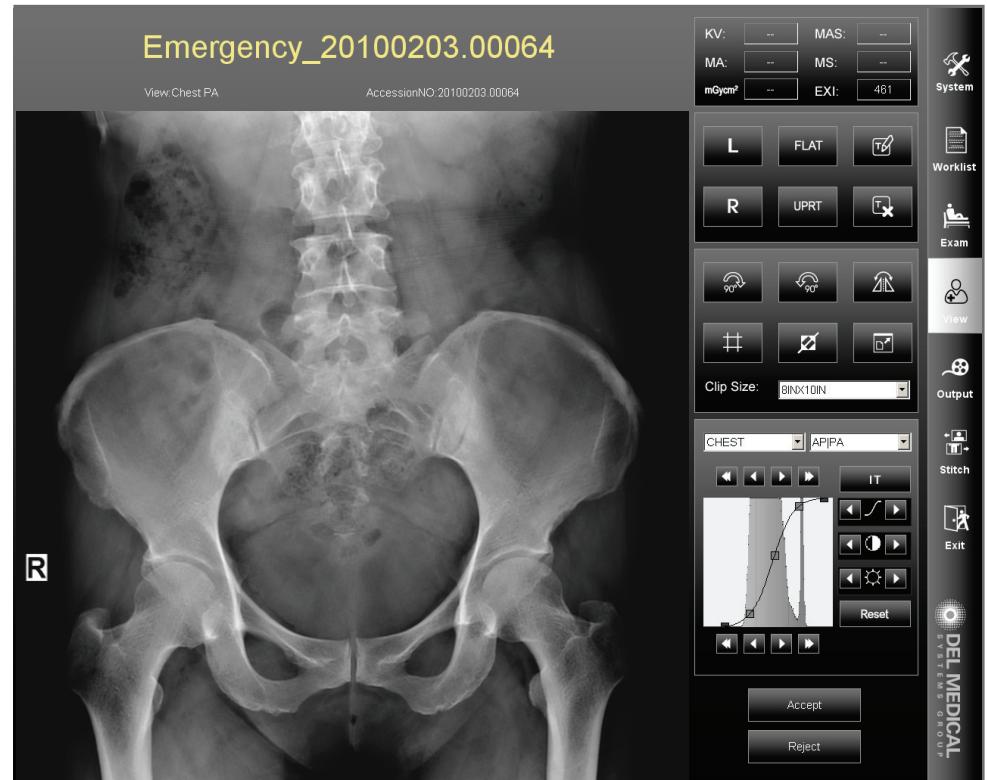


# DELWORKS

## advanced image processing

For the best efficiency and workflow maximization, the entire system is controlled and operated via one console without the need for external devices.

- Exam-specific image processing algorithms automatically optimize the images based on selected patient anatomy
- Optimized image processing parameters. APR specific default values with manual adjustment if desired.
- Image rotation in 90° steps
- Horizontal mirroring
- Automatic image cropping to collimated area
- Manual image cropping
- Adding orientation markers to the image
- Adding text comments directly on the image or into DICOM header (predefined or free text).
- Histogram of pixel density
- Selection of optimized LUT (Look-Up Table) according to exam type
- Manual adjustment the LUT, window and level
- Rejected images management
- User selection of two different image processing method. The first applies to the acquired image a specific algorithm to enhance the anatomic structures for film-like appearance. The second enhances in the same image the appearance of low contrast structures such as tissue and vessels, while maintaining and enhancing the visibility of high-contrast structures such as bones.



# The Digital advantage

DR digital imaging benefits patients and healthcare providers alike. For hospitals and imaging centers, DR is faster than both film and CR and speeds workflow. This results in increased overall efficiency. Some of the time-saving benefits of DR that are immediately evident include:

- Technologists capture higher quality images in less time
- Minimized need for repeat exposures with exam specific image processing algorithms
- Decreased procedure times resulting in increased patient throughput
- Eliminates film, processor and film processing chemicals
- Patient-side image processing and enhancement
- Image sharing via PACS for expedited diagnosis



# The Del advantage

For over 80 years, Del Medical has been an innovative provider of the next generation of radiographic equipment. The Del legacy continues with offerings of the latest and most efficient DR technology with the DelWorks Medical DR packages for upgrading existing equipment or as part of a complete Del Medical digital system.

Timely and professional customer support is synonymous with Del Medical. The experienced, senior level staff within the Del Medical Customer Service Department has the ability to assist their worldwide dealer base with any questions quickly and efficiently. The experienced Technical Support Team offers support by telephone, e-mail and web site, plus VPN support for hardware, software and applications delivery. Every Del Medical product is backed by these professional services, professionally delivered.





# Detector specifications

**VARIAN**  
medical systems



Varian PaxScan  
17" x 17" Fixed



Varian PaxScan  
14" x 17" Portable



Optional Enclosure  
14" x 17" Portable

	14G	14C	17G	17C
<b>Cassette Size</b>	14" x 17" (36 x 43 cm)		17" x 17" (43 x 43 cm)	
<b>Model</b>	Varian PaxScan 4336R Portable Solid State Flat		Varian PaxScan 4343R Fixed Solid State Flat Panel	
<b>Technology</b>	Amorphous Silicon Matrix with Charge Well Pixel™ Technology			
<b>Scintillator</b>	GadOx ( $\text{Gd}_2\text{O}_2\text{S}$ ) Gadolinium Oxysulfide	Cesium Iodide (CsI)	GadOx ( $\text{Gd}_2\text{O}_2\text{S}$ ) Gadolinium Oxysulfide	Cesium Iodide (CsI)
<b>Pixel Size</b>	139 $\mu\text{m}$			
<b>Resolution</b>	3.6 lp/mm			
<b>Megapixels</b>	7.5 megapixels (3072 x 2560 pixels)		9 megapixels (3072 x 3072 pixels)	
<b>Active Area</b>	35.3 x 42.4cm		42.4 x 42.4cm	
<b>Image Depth</b>	16 bit A/D conversion with 14 bit output (16384 gray levels)			
<b>Image Preview</b>	$\leq 1$ second			
<b>Cycle Time (min./standard)</b>	7.1-10 seconds	8-10 seconds	7.1 -10 seconds	6-8 seconds
<b>MTF – (Modulation Transfer Function)</b>	52% @ 1.0 lp/mm 21% @ 2.0 lp/mm 8% @ 3.0 lp/mm 5% @ 3.6 lp/mm	63% @ 1.0 lp/mm 34% @ 2.0 lp/mm 19% @ 3.0 lp/mm	53% @ 1.0 lp/mm 21% @ 2.0 lp/mm 7.5% @ 3.0 lp/mm	63% @ 1.0 lp/mm 34% @ 2.0 lp/mm 19% @ 3.0 lp/mm
<b>DQE – (Detection Quantum Efficiency)</b>	25% @ 0 lp/mm 20% @ 1.0 lp/mm 10% @ 2.0 lp/mm 3% @ 3.0 lp/mm 1% @ 3.6 lp/mm	65% @ 0 lp/mm 58% @ 1.0 lp/mm 45% @ 2.0 lp/mm 28% @ 3.0 lp/mm	38% @ 0 lp/mm 27% @ 1.0 lp/mm 17% @ 2.0 lp/mm 5% @ 3.0 lp/mm	65% @ 0 lp/mm 58% @ 1.0 lp/mm 45% @ 2.0 lp/mm 28% @ 3.0 lp/mm
<b>Detector Size</b>	18.1" x 15.1" x 0.6" (46 x 38.35 x 1.5cm) <i>excluding cable</i>			
<b>Cable</b>	8M extension			
<b>Detector Weight</b>	8.6 lbs. (3.9kg)			
<b>Housing Material</b>	Aluminum			
<b>Sensor Protection</b>	Carbon fiber plate and aluminum			

Please contact Del Medical for more information on digital upgrades and complete digital systems. We will be happy to assist you in determining the best solution for your practice.

Del Medical is an ISO 13485 & ISO9001 Certified Facility. Specifications are subject to change without notice.

**DEL MEDICAL**

Toll Free: (800) 800-6006  
 Fax: (847) 288-7011  
 Email: info@delmedical.com  
[www.delmedical.com](http://www.delmedical.com)  
 50 N. Gary Ave., Suite B, Roselle, IL 60172

**UMG** Medical Imaging

Toll Free: (800) 261-9808  
 Fax: (914) 835-6111  
 Email: info@umgxray.com  
[www.umgxray.com](http://www.umgxray.com)  
 28 Calvert Street, Harrison, NY 10528