



DELWORKS

DIRECT RADIOGRAPHY

DELWORKS

The user-friendly DelWorks image acquisition and processing software provides a wide range of tools for a variety of image enhancements. Its user interface simplifies every step of the examination procedure, including:

- Anatomical programming
- Advanced image processing and algorithms
- QA and post processing of acquired images
- Network connectivity for patient selection
- DICOM Connectivity (store, print, MPPS, MWL)
- Image Stitching (optional)

Get more from your images with Symphony Image Processing

- 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, and manual image cropping
- Verifying the assigned image laterality and patient orientation, and correcting them if necessary
- Adding orientation markers and text comments directly on the image (pre-defined or free text)
- View multiple images in a single frame
- Histogram of pixel density
- Selection of optimized LUT (Look-Up Table) according to exam type
- Manual adjustment of the LUT, window and level
- Rejected images management



Featuring two intuitive workstations

DELWORKS software comes with a stunning 23 inch LCD touchscreen monitor that offers superior viewing capabilities and the ability to utilize simple hand gestures to navigate through the user interface

Workstation Operations

- Automatic data input from RIS/HIS via DICOM Modality Worklist query*
- Manual input of patient data via keyboard or touchscreen
- Optimized patient search
- Automatic selection of exam procedure based on Worklist*
- Automatic patient query to the worklist via bar code reader (option)*
- Programmable x-ray technique factors for each exam, including APR program and AEC settings with manual override capability (with compatible generators)
- Pre-exposure display of patient and procedure information, X-ray generator exposure factors, status and control functions integrated in a single display screen
- Post-exposure display of actual exposure parameters and acquired thumbnail images
- Dose-Area Product (DAP) reading is displayed on the workstation monitor and is automatically burned in the DICOM header (if the generator is connected to a DAP Meter)

Connectivity

- System can be connected to DICOM compatible devices through Ethernet port
- Capable of sending images to multiple destinations at the same time
- The workstation is equipped with a CD burner to export acquired images in DICOM format or in other formats (jpg, bmp, tiff)



Supported DICOM classes

- Modality Worklist (SCU) for fast patient throughput
- Storage (SCU) for image transfer to workstations and archives
- Print (SCU) for laser imagers
- MPPS (SCU) to update the worklist provider on exam progress

* subject to availability and compatibility of exam data on the RIS/HIS network



DELWORKS FIT

Maximize portability with DELWORKS Fit, a wireless touchscreen workstation that can withstand the elements of any radiology (or non-radiology) environment. Existing analog mobile and portable x-ray devices, older radiographic rooms, and other remote or distant locations can greatly benefit from the enhanced workflow efficiency provided by DELWORKS Fit. Capture high quality images in just seconds by simply bringing your DelWorks E-Series Wireless detector and DelWorks Fit Console to any x-ray source, anywhere.

DELWORKS EDR

DelWorks E-Series, state-of-the-art DR solutions, include portable wireless and fixed detector options with Cesium Iodide (CsI) scintillators. E-Series detectors are configurable for single, dual, or multi-detector applications.

- Capture high-quality images with more detail and lower patient dose
- Minimize the need for repeat exposures with exam specific image processing algorithms
- Optimize workflow with detector integration flexibility designed to accommodate varying technologist work routines
- Improve workflow efficiency with full generator integration which gives the technologists the ability to view images and adjust techniques from multiple locations

E14C Wireless, Portable Detector

The E14C is an ultra-light, portable 14in x 17in (36cm x 43cm) wireless detector with outstanding image quality, offering the versatility needed to optimize workflow. The E14C has an internal accelerometer which automatically senses motion and takes the detector in and out of ready mode, extending its battery life.

E24C Wireless, Portable Detector

The E24C is a compact 24cm x 30cm version of the E14C detector that is ideal for small anatomy and pediatric imaging.

E17C Fixed Detector

The E17C fixed, 17in x 17in (43cm x 43cm), large format flat-panel detector is designed to minimize technologist interaction with upright exams in a dual or multi-detector configuration. It is easy to integrate in all types of X-ray systems and delivers both quality images and fast exams, for increased productivity.

Specifications	E14Cw	E17C	E24Cw
Detector Size	15in x 18in x 0.6in	19.7in x 19.3in x 1.8in	27cm x 33cm
Active Area	13.8in x 16.8in	16.9in x 16.9in	24cm x 30cm
Type	Wireless	Fixed	Wireless
Scintillator	Cesium Iodide	Cesium Iodide	Cesium Iodide
Pixel Pitch	148µm	148µm	148µm
Spatial Resolution	3.5 lp/mm	3.5 lp/mm	3.5 lp/mm
Pixels	2,400 x 2,880	2,880 x 2,880	1,646 x 2,057
Bit Depth	16 bit (A/D)	16 bit (A/D)	16 bit (A/D)
Image Preview	3 second	4 seconds	1 second
Image Display (QC)	9 seconds	6 seconds	6 seconds
MTF	61% @ 1.0 lp/mm	64% @ 1.0 lp/mm	61% @ 1.0 lp/mm
DQE	66% @ 0.05	65% @ 0.05 lp/mm	66% @ 0.05
Weight	6.17lb (2.8kg)	27.5lb (12.5kg)	3.5lb (1.6kg)
Battery Life	up to 8 hrs	NA	up to 10 hrs

EasyConnect auto-detection, senses exposure without the need for generator synchronization (prep signal), enabling fast and simplified imaging. *

* This feature is available on the E14C and E24C wireless detectors.



T17C



T14C

DELWORKS TDR

DelWorks T-Series offers affordable DR solutions that include wired and fixed detector options with Cesium Iodide (CsI) scintillators. T-Series detectors are configurable for single, dual, or multi-detector applications.

Specifications	T14C	T17C
Detector Size	18in x 15in x 0.6in	19.7in x 19.3in x 1.7in
Active Area	13.8in x 16.8in	16.9in x 17.3in
Type	Wired	Fixed
Scintillator	Cesium Iodide	Cesium Iodide
Pixel Pitch	143µm	143µm
Spatial Resolution	3.7 lp/mm	3.7 lp/mm
Pixels	2,448 x 2,984	3,008 x 3,072
Bit Depth	16 bit (A/D)	14 bit (A/D)
Image Preview	3 second	4 seconds
Image Display (QC)	9 seconds	6 seconds
MTF	36% @ 2.0 lp/mm	36% @ 2.0 lp/mm
DQE	70% @ 0.05 lp/mm	70% @ 0.05 lp/mm
Weight	6.6lb (3.2kg)	20lb (9kg)

T14C Wired Detector

T14C wired, 14in x 17in (36cm x 43cm) detector is ultra-light and will fit inside an existing wall stand or table bucky without any modifications. This makes retrofitting your conventional x-ray system to digital as simple as switching your conventional film cassette to a T14C detector. The in-room portability of the T14C allows the versatility needed to optimize workflow without the need for batteries.

T17C Fixed Detector

The T17C fixed, 17in x 17in (43cm x 43cm), large format flat-panel detector is designed for fixed configurations, typically mounted inside an X-ray table, wall-stand, or single-receptor systems such as a straight-arm or U-arm. It is easy to integrate in all types of X-ray systems and delivers high resolution, low noise and superior image quality along with the benefit of lower radiation dose to the patient.

Technology

Through our commitment to quality and innovation, DEL MEDICAL continues to extend limits and maintain a leading role in the development of Healthcare products that better the needs and wants of global communities. It is our goal to exceed expectations by collaborating with our customers and partners to focus on advanced technologies and inspire enthusiasm with high-value-added products.

Experience

When you make the choice to partner with DEL MEDICAL, you join one of the most experienced medical imaging teams in the industry. For over 85 years we have been dedicated to providing customers with the highest quality products and services. We strive to improve work flow and create further efficiencies while enhancing your bottom line.

Support

DEL MEDICAL equipment products are serviced through local, trained professionals around the globe. In addition, we invest a lot of technical and human power to offer expert support assistance from a dedicated team. Located throughout North America the DEL MEDICAL Customer Assistance team is among the most knowledgeable in the industry and are ready to provide fast, courteous troubleshooting assistance.



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