

D2RS

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DIGITAL DYNAMIC REMOTE SYSTEM



SEE THOROUGHLY, ENSURE SAFETY



ACCELERATE YOUR WORKFLOW

D²RS is a digital radiographic and fluoroscopic (R&F) system that saves you time, meets your clinical needs and delivers you brilliant image quality.

► AUTO-POSITIONING

The single touch, remote-controlled user-interface and table auto-positioning facility greatly reduces examination preparation time thanks to its ability to control:

- All table movements
- All collimation and spectral filtration settings
- All exposure and digital acquisition parameters.

► INTEGRATED SOLUTION

D²RS is a fully integrated digital imaging solution. Generator and digital imaging functionality is

seamlessly integrated in the table control console. The **'MOVE'** button drives the table to the correct position based upon the selected procedure and readies the system for immediate imaging.

► FAST IMAGE DISPLAY

Superb quality dynamic and static images are displayed instantly. The images are automatically post-processed to your requirements and ready to be transmitted to the network destinations of your choice (or printed) using industry-standard DICOM protocols.



THE UNIQUE 3-IN-1 SOLUTION

D²RS is a direct digital dynamic remote-controlled fluoroscopy and radiography system equipped with the latest generation of Canon Flat Panel Detector (FPD). The single FPD can perform both fluoroscopy and radiography and is detachable and portable for direct projections to create a unique and highly versatile 3-in-1 imaging solution.

D²RS is protocol driven thanks to the latest interactive system communication and features auto-positioning of the table to reduce user workload.

Using the dynamic portable detector, fluoroscopy examinations, general radiography procedures and direct radiographic projections can all be routinely made with a

single cost-effective detector. Meeting both your current clinical needs and new requirements and applications, **D²RS** represents a sound imaging investment. Software enhancements ensure that the system is always ready to meet new challenges.

► CONVENIENCE

The design of **D²RS** ensures patient comfort in all applications.

► PERFORMANCE

The FPD provides brilliant image quality without compromise.

► PRODUCTIVITY

STEPHANIX and CANON intelligent design ensures that **D²RS** meets the highest workflow demands.



PATIENT CENTRIC DESIGN

▶ EASY ACCESS

The D²RS table top has motorised height adjustment and the low minimum height simplifies access for patients with mobility issues.

The impressive table loading capacity allows examination of bariatric patients weighing up to 230 kg (500 lbs).

Examinations of the extremities can be performed without restriction. Motorised tube column angulation combined with motorised tube rotation provides end-to-end table top coverage.

▶ SMART ACCESS

D²RS also offers 'Smart Access',* a unique and extremely useful feature providing clear access to a 120cm section of the table top and allowing effortless transfer of patients arriving on a trolley or in a bed.



AND EFFORTLESS CONTROL

▶ TOUCH SCREEN

The well thought-out system control console provides comprehensive and user-friendly touch screen functionality that gives access to:

- Integrated generator and digital imaging controls
- Automatic FPD rotation
- Fluoroscopic magnification controls
- Unique, dose-reduction video camera control
- 3 table position quick selections (stretcher, parking and chest).

▶ REMOTE CONTROLLED

The system is fully remote controlled using 4 joysticks. An infrared remote control is also provided to control all the D²RS movements when in-room at the table side.

The auto-positioning function is operated by pressing the "MOVE" button located on the control console and duplicated on the remote control handset.

▶ COMPRESSION

Compression* is operated remotely from the control console. It is motorised and can be automatically retracted into a park position outside the X-ray field.

* optional feature



* optional feature





UNMATCHED PATIENT COVERAGE IN A COMPACT SYSTEM

D²RS is designed with embedded control electronics mounted in its base allowing valuable room space to be freed-up.

▶ EXCELLENT PATIENT COVERAGE

The longitudinal and lateral table top movements are fully motorised. Patient coverage is one of the highest available with a head-to-toe coverage of over 2.5m without the need for patient repositioning.

The X-ray tube support column can be remotely angled ($\pm 40^\circ$)

at any position along the entire length of the table top to facilitate unrestricted angled projections of e.g. the skull, spine and knees. It can also assist in achieving otherwise difficult projections on patients having limited mobility.

▶ 180 CM CONTINUOUS SID

D²RS features a continuously selectable Source Image Distance (SID) from 110cm to 180cm and so provides the versatility to perform all imaging procedures including uncompromised chest imaging.



THE 3-IN-1 SOLUTION: FLUOROSCOPY

D²RS provides incredible image quality for positioning fluoroscopy and dynamic examinations. The following are just a few examples of the procedures that can be performed using D²RS:

▶ POSITIONING FLUOROSCOPY PROCEDURES

- Spine
- Osteo-articular

▶ GASTROINTESTINAL EXAMINATIONS

- Barium swallow / oesophagus
- Stomach & small intestine
- Barium enema and large bowel

▶ UROGENITAL TRACT EXAMINATIONS

- Urography
- Cystography
- Hysterosalpingography

▶ ANGIOGRAPHY

- Venography
- Digital angiography
- Digital Subtraction Angiography (DSA)*

▶ INTERVENTIONAL RADIOLOGY

- Myelography
- Arthrography
- Endoscopy / ERCP

▶ TOMOSYNTHESIS*



* Work in progress

THE 3-IN-1 SOLUTION: RADIOGRAPHY

D²RS - The **GOLD** standard in direct digital radiographic and fluoroscopic imaging:

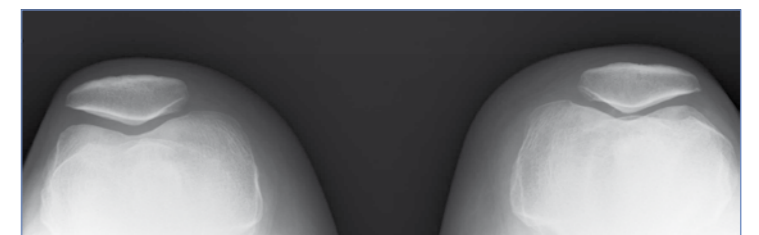
- Skull
- Thorax
- Abdomen
- Spine and pelvis
- Osteo-articular
- Extremities
- Tomography
- Automatic Image Stitching: full spine and leg imaging.



THE 3-IN-1 SOLUTION: DIRECT PROJECTIONS

The dynamic capability of D²RS combined with a unique portable imaging capability makes for a unique and innovative 100% DR solution:

- Extremities
- Paediatrics
- Lateral projections
- Stretcher-based radiography
- Limited mobility patient imaging.





LEADING FLAT PANEL DETECTOR TECHNOLOGY

The 35x43cm (FPD) can be used in and out of the table and for both static, dynamic and direct digital studies.

► DYNAMIC FPD

The detector has an acquisition rate of up to 30 frames per second ensuring that it is suitable for the most demanding fluoroscopic applications.

► PORTABLE FPD

Equipped with an easily detachable cable, the detector allows convenient positioning for direct projections away from the table. The simple but robust and secure connector is quickly re-connected and the FPD is ready for use.

UNRIVALLED POSITIONING FREEDOM



* A ceiling tube support is also available as a system option.

ENHANCE YOUR CLINICAL CAPABILITIES

Different fluoroscopic frame rates can be selected to ensure optimum dose-saving characteristics, e.g. during paediatrics examination.

Fluoroscopic and radiographic images are automatically saved and automatically transmitted for diagnosis.

► REMOVABLE GRID

The anti-scatter grid is easily removed for paediatric examinations and extremity projections.

► RADIATION-FREE POSITIONING

An innovative integrated video camera allows radiation-free positioning.

► SMART COLLIMATION

Automatic collimation and spectral filtration are protocol driven and individual settings are stored into each anatomical programs.

Virtual collimation,* on the last image hold of fluoroscopy, allows radiation-free collimation.



OPTIMUM WORKFLOW, BRILLIANT IMAGE QUALITY

► SAVE TIME

DICOM 3.0 conformity allows easy patient selection from the patient worklist presented on the user-interface.

The comprehensive image acquisition console has the ability to store unlimited anatomical protocols, all individually customisable to your requirements. It offers powerful image processing dedicated to each anatomical body part to provide superb, high resolution images.

Images are displayed instantly in both fluoroscopy and radiography modes allowing rapid, efficient examination review.

► POWERFUL POST-PROCESSING

Advanced post-processing algorithms provide brilliant image quality and

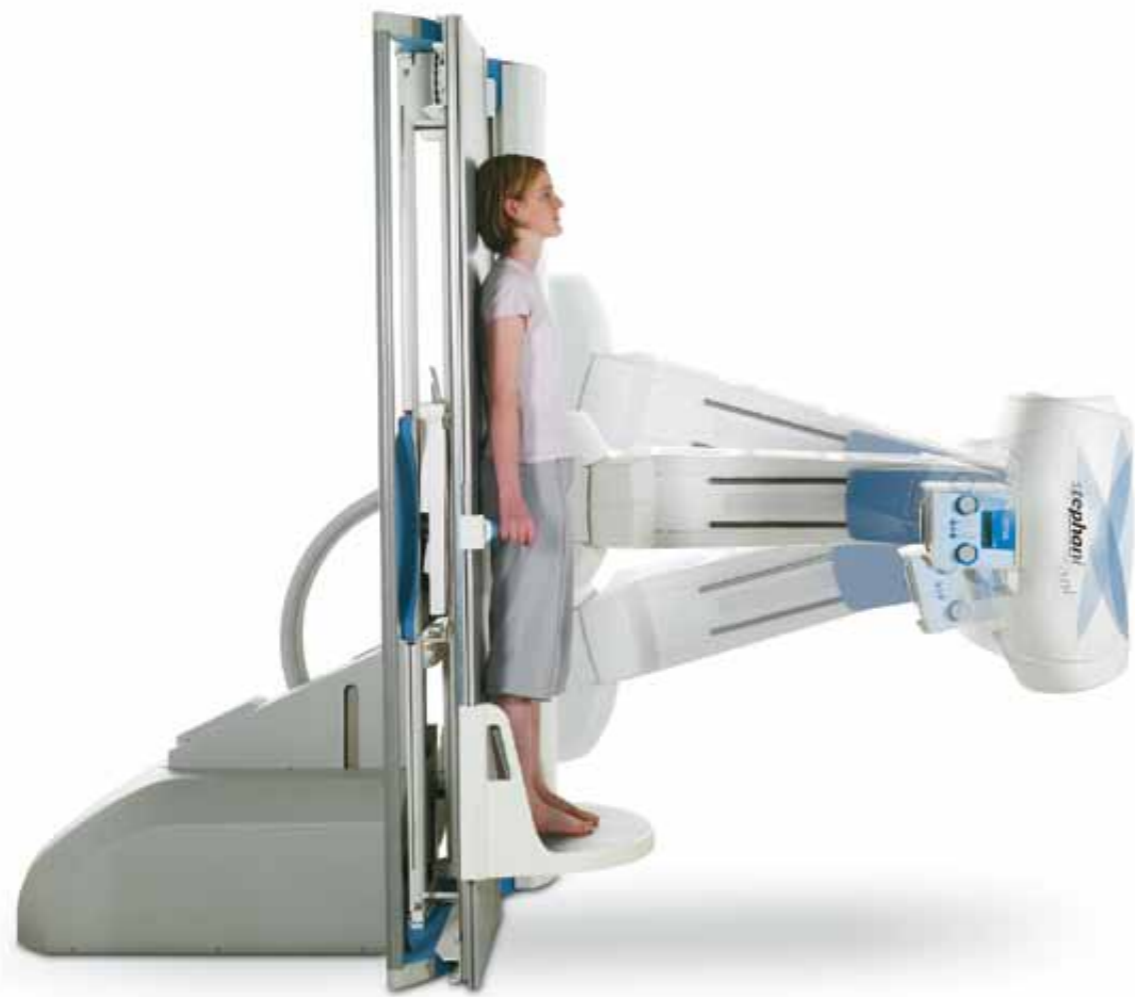
the fully featured software also includes:

- Automatic electronic shutters
- Image orientation tools
- Windowing
- Edge enhancement
- Choice of region of interest and so much more.

The dynamic range of the image can be adjusted to bring both under and over exposed areas into view with hard and soft tissues visible on the same image.

The user-interface is extremely versatile. Annotations can be added on images before being pushed to networked printers and archiving solutions (PACS, CD, DVD ...).





AUTOMATIC IMAGE STITCHING

D²RS studies requiring full spine and long leg imaging are fully automated and include:

- Automatic positioning of the tube and the detector
- Acquisition of 2, 3 or 4 images
- Erect and supine imaging capability
- Seamless automatic pasting.



CONNECT TO THE WORLD OF IMAGING

► DICOM WORKLIST & MPPS

- Retrieve patient data from RIS
- Automatic examination selection from RIS*
- Dose Area Product (DAP) transmission to the patients record using DICOM MPPS*.

► DICOM PRINT

- to laser imagers
- to paper printers
- Customisable layouts from the acquisition console.

► DICOM STORE

Automatic image transmission to workstations, to PACS or wherever required, ... for rapid archiving and review.



► DREAMVIEW CONSOLES*

- Multi-modality capabilities
- Advanced measurement tools
- Customizable filters (edge enhancement, contrast and dynamic range)
- Exams comparison package: DICOM Query/ Retrieve and specific display for image comparison
- Stitching package
- Burning package: CD/ DVD including DICOM viewer
- Advanced printing package.

*option

Latest generation digital radiography solutions with Integrated, Dynamic, Portable, Wired and Wireless detectors



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