DelftDI Modality Overview
About Us

Canon offers a complete range of Digital Radiography solutions for all areas of the hospital environment, for medical centres and even for field and rescue forces, operating in difficult terrain. Whatever the Digital Radiography application, wherever it is needed, we supply the ideal solution. Furthermore, DelftDI as part of Canon Medical Imaging Group, specialises in digital X-ray imaging systems.

We have been working closely with healthcare organisations for 75 years, in order to develop innovative technological solutions to meet different needs, from better document management to dedicated eye care and digital radiography solutions.

High end solution for all radiographic applications

Xsense DR is the combination of ergonomic design with auto-positioning technology together with a fixed tabletop. The system can be maneuvered around the patient quickly and easily without any need to move the patient, especially important in orthopedic, trauma and pediatric applications. The result is an advanced digital radiography system that creates efficient working environment and maximizes patient throughput.

Xsense DR also features (optional) automatic image stitching for optimal convenience and image quality in studies such as full spine and long leg imaging. Manual system handling is almost eliminated as all X-ray system positioning components are motorized.

An information display integrated on the X-ray tube support allows access to, and the ability to amend on the fly, a variety of examination information such as:
- Patient information
- Study Name
- Generator Exposure Parameters (amendable)
- Automatic Exposure Control (amendable)
- Table and Wall control
- X-ray Tube Tracking selections
- Post-exposure Image display

The Xsense DR tubehead display allows users to work in the way they find most convenient and efficient. The positioning components offer the most extensive auto positioning system currently available. It's fast, accurate and very versatile and the process can be RIS-controlled or fully user-defined.

You have the freedom to decide; you're always comfortably in control with Xsense DR.

Delft DI Xsense DR

Key Features
- Optimized workflow for high volume patient throughput
- High efficiency with RIS-integrated workflow
- Smart Automatic Positioning
- Detector tracking in horizontal and vertical projections
- Integrated cable management
- Fully Automatic Image Stitching (optional)
- Fixed tabletop makes it suitable for trauma procedures
- Generator interface on Tube head display
- Acquisition workstation with large DICOM-calibrated touchscreen display
- Canon CXDI-NE Image Acquisition, Management and Distribution software with X-ray generator integration
- High sensitivity detector scintillator for lowest patient X-ray dose and shortest exposure times
- Choice from the most extensive range of Flat Panel Detectors available made by Canon - the name you can trust
- 125μm detector pixel pitch for highest resolution imaging
- Sophisticated image processing for optimized diagnostic presentation
- Share detectors between different radiographic modalities

Delft DI General X-ray Orthopedics Resuscitation Traumatology Pediatrics Fluoroscopy Mobile DR Urology

| Xsense DR | ++ | ++ | ++ | ++ | ++ | - | - | - |
| Triathlon DR | ++ | ++ | - | - | - | ++ | - | - |
| Adora DR | ++ | ++ | - | - | - | ++ | - | - |
| Adora RSA | + | + | - | - | - | - | - | - |
| Intuition DR | ++ | ++ | - | - | ++ | - | - | - |
| Covator DR | + | + | - | - | - | - | + | - |
| Easy DR | + | + | - | - | - | - | - | - |
| DaRT | + | + | - | - | - | - | ++ | - |
| Mobile DR | + | + | + | + | + | - | - | ++ |
| Movix DR | + | + | + | + | - | - | - | - |
| Trauma DR ++ | + | ++ | ++ | - | - | ++ | - | - |
| Trauma DR ++ | + | ++ | ++ | - | - | ++ | - | - |
| D2RS RF | + | + | - | - | - | - | ++ | - |
| Uromat RF | - | - | - | - | - | - | - | ++ |
| Adora DRFi | ++ | ++ | - | - | ++ | - | - | - |
DelftDI Triathlon DR

Key Features

- Optimised workflow for high volume patient throughput
- High efficiency with RIS-integrated workflow
- Smart Automatic Positioning
- Fully Automatic Image Stitching
- Advanced 6-way Patient Table with motorised adjustment and motorised detector tracking
- Acquisition workstation with large DICOM-calibrated touchscreen display
- Canon CXDI-NE Image Acquisition, Management and Distribution software with X-ray generator integration
- Choice from the most extensive range of Flat Panel Detectors available made by Canon - the name you can trust
- 125µm detector pixel pitch for highest resolution imaging
- High sensitivity detector scintillator for lowest patient X-ray dose and shortest exposure times
- Sophisticated image processing for optimised diagnostic presentations
- Share Detectors between different DelftDI modalities

The Triathlon DR tubehead display allows users to work in the way they find most convenient and efficient. The positioning components offer the most extensive auto positioning system currently available. It’s fast, accurate and very versatile and the process can be RIS-controlled or fully user-defined. You have the freedom to decide; you’re always comfortably in control with Triathlon DR.

Advanced Canon technology

- Extensive portfolio of Canon CXDI Flat Panel detectors
- Docked in Adora detector dock and/or wireless, portable
- High resolution, 125 µm pixel pitch
- Best performance in workflow, sensitivity, image quality and versatility
- Light weight and robust
- Wireless detectors can be shared across rooms and modalities

DelftDI Adora DRi

Inspired by users, the Adora DRi offers the ideal way to boost productivity and improve health care delivery. It provides versatile, fast and accurate digital DR imaging from every examination angle imaginable - surprisingly simple to use and easy to maintain clean and hygienic. It improves the working environment for staff and prioritises patient comfort and care.

Manual handling is reduced to a minimum. inMotion auto-positioning enables automatic operation with smooth, power-assisted movements and direct positioning of the detector and tube, even for complex DR examinations. Up to 999 APR auto-positions, including all examination parameters, can be programmed using the anatomical DR programme selection

The ergonomic SmartHandle joystick enables hands-on, power-assisted positioning in all three dimensions. Built in iNTouch technology ensures seamless and safe operation of all joystick by lighting up at the base when activated by the touch of a finger. It can be activated any time for manual operation, e.g. minor adjustments of pre-set auto-positions.

A large 12” floating tube touch screen - which displays and controls the 12” floating touch screen user interface remains horizontal to the user regardless of tube rotation

State-of-the-art ergonomics

- Designed to minimize stress on staff and maximize patient comfort
- One-touch, stress-free DR with minimum manual handling
- Automatic, smooth, low-noise motorized movements
- SmartHandle with inTouch technology and light indicator for direct and intuitive manual control & adjustments
- 12” floating touch screen user interface remains horizontal to the user regardless of tube rotation

Key Features

Unique versatility

- PositionAnywhere, i.e. imagine any projection and perform it, and save it as an auto-position for future use
- 999 programmable APR’s and auto-positions
- Enables patella skyline examinations, straight and oblique projections without manual detector handling
- Motorized detector/tube positioning
- Single-side suspended table, max. 250 kg patient weight
- 340 rotating table for maximum flexibility even in small rooms - make space for wheelchair and bed-side examinations
- AccessAnywhere, provides easy patient access all around the table and optimal cleaning conditions

A large 12” floating tube touch screen

- Post-exposure Image display
- X-ray Tube Tracking selections (amendable)
- Automatic Exposure Control (amendable)
- Generator Exposure Parameters
- Study Name
- Image Stitching selections
- A touchscreen information display

High end solution for all radiographic applications

Triathlon DR represents the ultimate combination of auto-positioning technology with ergonomic design. The result is an advanced digital radiography system that creates a comfortable and efficient working environment and maximises patient throughput.

Triathlon DR also features automatic image stitching for exceptional convenience and image quality in studies such as full spine and long leg imaging. Manual system handling, and therefore user strain, is almost eliminated as all X-ray system positioning functions are easily met.

An extended range of movements ensures that all positioning requirements are easily met.

A touchscreen information display integrated on the X-ray tube support allows access to, and the ability to amend on the fly, a variety of examination information such as:

- Patient information (with on/off display capability)
- Study Name
- Generator Exposure Parameters (amendable)
- Automatic Exposure Control (amendable)
- X-ray Tube Tracking selections
- Image Stitching selections
- Post-exposure Image display (with on/off display capability)

The Triathlon DR tubehead display allows users to work in the way they find most convenient and efficient. The positioning components offer the most extensive auto positioning system currently available. It’s fast, accurate and very versatile and the process can be RIS-controlled or fully user-defined. You have the freedom to decide; you’re always comfortably in control with Triathlon DR.

DelftDI modalities

- Share Detectors between different DelftDI modalities
- AccessAnywhere, provides easy patient access all around the table and optimal cleaning conditions
- State-of-the-art ergonomics
- Designed to minimize stress on staff and maximize patient comfort
- One-touch, stress-free DR with minimum manual handling
- Automatic, smooth, low-noise motorized movements
- SmartHandle with inTouch technology and light indicator for direct and intuitive manual control & adjustments
- 12” floating touch screen user interface remains horizontal to the user regardless of tube rotation
- Configurable inlight in equipment ceiling dims when the collimator light is activated

Advanced Canon technology

- Extensive portfolio of Canon CXDI Flat Panel detectors
- Docked in Adora detector dock and/or wireless, portable
- High resolution, 125 µm pixel pitch
- Best performance in workflow, sensitivity, image quality and versatility
- Light weight and robust
- Wireless detectors can be shared across rooms and modalities

DelftDI Triathlon DR
DelftDI Adora RSA

Radiostereometric analysis (RSA) for the benefit of researchers, clinical staff and patients

RSA is a precise method for determining the migration and wear of orthopedic implants such as hip and other joint replacements. Adora RSA is the world’s first system of its kind using fast, high quality DR imaging technology. In addition to RSA procedures, the second telescopic X-ray tube column can be parked, i.e. made in-active, enabling all the radiographic examination options which makes the Adora exceptional in terms of ease of use, ergonomics and examination flexibility.

Key Features
- Adora RSA with double tube head for RSA imaging procedures
- Intelligent workflow for high volume patient throughput
- Full APR auto-positioning - no manual handling
- Up to 1000 auto-positions
- Smart handle motorized movement, zero force
- Intuitive tube head control
- Acquisition station with large DICOM calibrated touch screen display
- Canon NE acquisition software with generator integration
- Extensive portfolio of Canon CXDI Flat Panel Detectors
- High resolution, 125µm pixel pitch
- High sensitivity
- Sophisticated Image processing for highest diagnostic value
- Detector exchangeability between different DelftDI modalities

Optional:
- Integrated image stitching for total spine and total leg
- Integrated frame for image stitching
- Fluoroscopic capability with Adora DRFi, employing Canon’s CXDI-50RF portable 35 x 45cm DR/RF detector
- Integrated patient lifting device

DelftDI Intuition DR

Versatile solution for all radiographic applications

The DelftDI Intuition DR is a general trauma and radiography system meeting all current safety guidelines and regulations. Intuition combines a new lightweight ceiling suspended X-ray tube support, a 6-way patient table, a patient wall-stand and high frequency X-ray generator with the latest DR technology from Canon - and includes a large touchscreen user-interface and info-display at the tube head.

This easy to use system incorporates both manual and motorized movements. The ceiling X-ray tube support benefits from motor-assisted vertical movements and vertical auto-tracking to the Wall Stand and Table heights for added convenience. Motorized height adjustment of the table is combined with smooth floating table top movements for quick and efficient patient positioning.

The DelftDI Intuition DR is an extremely simple to use and intuitive radiography system designed for general purpose radiography where it is well-suited to both in- and outpatient imaging as well as for the demands of accident and emergency imaging. The system is delivered fully-tested and ready for a plug-in installation allowing for quick installation into a suitably prepared X-ray room. It includes a fully integrated Canon DR system for instant film- and digitizer-free imaging.

Key Features
- Optimized workflow for medium volume patient throughput
- High efficiency with RIS integrated workflow
- Lightweight manual Alpha, Beta, X and Y movement
- Motorized Z-movement
- Smart Chest and Table tracking
- Floating tabletop
- Acquisition station with large DICOM calibrated touchscreen display
- Canon NE acquisition software with generator integration
- Possibility to install in low ceiling X-ray rooms

DelftDI Intuition DR
Easy DR - Compact and robust
The Easy DR system combines the advantages of a compact, easy to install system with proven Canon digital imaging technology. This extremely robust system can be installed in a mobile vehicle or in container which can be a major benefit for field deployable requirements. The versatile Easy DR is ideal for chest imaging but also suited for general radiography.

Easy DR uses Canon’s intuitive ‘CXDI-NE’ Graphical User Interface (GUI) which is common to all DelftDI digital radiography modalities. This commonality of Canon GUI across the DR product range is a major advantage when it comes to speed of operator training and user familiarity and convenience. The configuration options ensure a GUI that is right for you; comprehensive image processing choices guarantee optimised image quality every time and the industry standard DICOM interface ensures multi-vendor and cross-platform connectivity in any situation.

There’s just one compact X-ray system we recommend for smaller X-ray rooms and mobile screening centres: DelftDI Easy DR!

DelftDI Easy DR is the smart and robust digital radiography system that guarantees the maximum patient throughput whilst requiring the minimum of your valuable space. It has the versatility to be used for most radiographic procedures and is robust enough to sustain continuous use around the clock. Such a large capability with a small X-ray system - now that’s impressive!

DelftDI Covator DR
The Height-Adjustable Bucky Table
Covator provides a comprehensive solution for use in small clinics as well as small X-ray rooms, and includes a height-adjustable Bucky table with an integrated column system and wall mount. It is easy to manage imaging on standing, seated, or recumbent patients. Even lateral imaging can be done easily.

The height adjustability of the Bucky table makes it easy for patients to get on and off and provides an optimized working height for the user. A patient bearing load of up to 320 kg enables examination of adipose patients. The movable Bucky drawer and optional transversally displaceable X-ray carrier arm, in conjunction with the floating and removable tabletop, enable diagnosis of the entire trunk of the patient without repositioning.

Using the optional automatic Bucky coupling guarantees permanent centering of the X-ray beam. When used together with a Wall Mount unit, images can be recorded of standing or seated patients. For this purpose, the columns are moved to the ends of the table.

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DelftDI Covator DR
Key Features
- Entry level DR system for medium volume patient throughput
- High efficiency with RIS integrated workflow
- Manual movements
- Easy installation, no ceiling suspension
- Floating tabletop
- Acquisition station with large DICOM calibrated touch screen display
- Canon NE acquisition software with generator integration
- Extensive portfolio of Canon CXDI Flat Panel Detectors
- High resolution, 125µm pixel pitch
- High sensitivity
- Sophisticated Image processing for highest diagnostic value
- Detector exchangeability between different DelftDI modalities

Optional:
- Patient positioning accessories

DelftDI Easy DR
Key Features
- Unique compact solution with easy installation in small rooms, a vehicle or mobile container
- Multipurpose floor-mounted X-ray system
- Vertical and horizontal positioning of the U-arm
- Removable anti-scatter grid
- Acquisition station with large DICOM calibrated touch-screen display
- Canon CXDI-NE acquisition software with X-ray generator integration
- Canon large area direct digital Flat Panel Detector with very high X-ray sensitivity for lowest patient dose
- Instant image display allowing very high patient throughput
DelftDI Mobile DR

The future of mobile imaging in your hands today

Great things come in small packages and the DelftDI Mobile DR battery-operated mobile direct digital radio- graphic (DR) system is the perfect example. The ultra-compact design and the motorized collapsible tube support column provide a clear forward view for the user when driving the unit to and from your patients. The DelftDI Mobile DR’s small form houses, amongst other advanced technologies, a unique, powerful and long-life battery pack offering unsurpassed endurance – a full day’s work on a single charge - and superfast charging times. Even a quick 10 minute charge time when the battery is depleted will provide up to 30 minutes use. So impressive is the DelftDI Mobile DR’s battery pack that we even include an extended battery warranty. Smart whilst robust design has sculpted the Mobile DR into a featherweight unit around 200 kg lighter, and with a significantly smaller footprint, than most other motorized mobile X-ray units available in the marketplace; this fact together with the powerful electric motors and the highly manoeuvrable chassis make it a real pleasure to use. Couple this advanced motorized mobile technology with the hugely successful and well-appreciated Canon wireless flat-panel detectors and DR user-interface and the result is the ultimate in mobile X-ray imaging technology.

Key Features
- Lightweight and very compact for improved manoeuvrability
- Advanced new battery technology for exceptional power and life
- Achieve a full day’s work on a single charge
- Superfast charging times eliminates unexpected unserviceability of a mobile unit
- Collapsible column providing clear forward visibility during transport
- Height and reach adjustable drive handle reduces work-related strain & customizes the unit to your preference
- Mini Joystick on the tube assembly allows full movement control when positioning at the bedside
- Integrated battery charger for Canon wireless flat panel detectors
- All cables tidied away making the unit easy to clean
- Large 17” adjustable touchscreen display with DICOM pre-set for optimum image viewing conditions
- Integrated storage compartments for Canon portable detectors ensures they are kept safe during transport
- DAP meter integrated inside the collimator provides patient dose information to PACS
- LED collimator light – no more frustrating halogen lamp failures
- Colour LED indicator lights clearly indicate the current status of the unit
- Integrated Canon CXDI Control Software NE - quick to learn, easy and fast to use
- Optional tablet computer allows connection to the Radiology Information System (RIS)

DelftDI Movix DR

- The Most Powerful Mobile True Nominal 20kW, 32kW, 40kW, 50kW as per IEC Standard @100kV 0.1s
- Battery capacity for up to 9 hours work or over 350 exposures depending on the duty cycle
- Patented manual telescopic column for seamless, fast and reliable positioning with no electronic breakdowns
- Easy Moving patented driving system, the best driving experience in the World
- Fast positioning by manual movements
- Precise Positioning Buttons for forward or backward Movement
- All Free Buttons for Positioning in one step
- 17” Touch Screen Console with integrated Digital acquisition display
- Over 6000 mobiles manufactured. Robust design and proven technology for your everyday mobile work

DelftDI DaRt

- Low chassis height ensures excellent forward vision
- Drive away immediately; no waiting around for the PC to boot-up before drive is possible
- With battery powered drive, integral independent drive motors, along with sensitive steering & speed enable effortless and accurate positioning
- The tube support column rotates 270° and the ergonomic telescopic arm allows smooth, fast positioning of the X-ray tube
- The ‘inch mover’ facility allows fine tuning of the unit’s position from the tube head
- The optional second exposure switch allows the radiographer to acquire an image when they are positioned remotely to the trolley or bed
The Trauma DRPLUS X-ray system is a solution for trauma wards and emergency rooms. The DelftDI Trauma DRPLUS is a dedicated and unique digital radiography solution for trauma departments and emergency rooms. The system can be manoeuvred around the patient quickly and easily without any need to move the patient, especially important in critical trauma situations including spinal injuries.

This system comprises a U-arm and the X-ray beam always remains centered to the image receptor so you never have to worry about misalignment. A wireless portable Canon Flat Panel Detector (FPD) provides instantaneous imaging and benefits from the integrated Automatic Exposure Control (AEC). This provides the highest possible image quality and ensures accurate and repeatable exposures with the lowest patient X-ray dose.

**High Workflow Efficiency**

After extensive clinical study, Trauma DRPLUS’s image receptor / X-ray tube support positioning arm has been optimised with a source detector distance of 135cm and with an overall width minimised to a slim 55cm. This allows easy and fast positioning which, in combination with super-fast Canon DR imaging, results in quicker examination completion times. The wide range of Trauma DRPLUS movements allows the positioning arm to be used for precise and easily manoeuvred horizontal beam projections, resulting in stress-free lateral imaging without having to move the patient.

**Key Features**
- Large area of X-ray coverage
- Source Detector Distance: 135cm
- Slimline 55cm positioning arm assembly width
- High patient throughput capability
- Easily positioned for horizontal beam lateral imaging
- Large, clear interactive tubehead display
- Free adjustment of the X-ray beam projection angle
- Integrated cable management system
- Motor-assisted vertical movements
- Automatic Exposure Control
- Integrated Dose Area Product (DAP) meter
- Removable anti-scatter grid
- Removable Wireless DR Detector for increased versatility
- RIS-integrated workflow
- Powered by Canon

The Trauma DRPLUS X-ray system is a solution for trauma wards and emergency rooms. The DelftDI Trauma DRPLUS is a dedicated and unique digital radiography solution for trauma departments and emergency rooms. The system can be manoeuvred around the patient quickly and easily without any need to move the patient, especially important in critical trauma situations including spinal injuries.

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- RIS-integrated workflow
- Powered by Canon

Trauma DR is a dedicated and unique digital radiography solution for trauma departments and emergency rooms. The system can be manoeuvred around the patient quickly and easily without any need to move the patient, especially important in critical trauma situations including spinal injuries.

One-touch operation

Conveniently placed movement controls can be found positioned in multiple locations on the Trauma DR system. Simple one-touch operation and motorised height adjustment make Trauma DR extremely easy to manoeuvre even in the often restricted space available in the emergency room.

**Key Features**
- Fast and efficient workflow for trauma examinations
- Easy manual positioning with motorized support for Z-movement
- Large open workspace with a fixed focus - detector distance of 135cm (option for 125cm)
- High patient throughput
- Wireless Canon CXDI-701C 35x43cm flat panel detector
- Detector docking station with integrated AEC
- Removable anti-scatter grid
- Removable Wireless DR Detector for increased versatility
- RIS-integrated workflow
- Powered by Canon

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- Detector docking station with integrated AEC
- Removable anti-scatter grid
- Removable Wireless DR Detector for increased versatility
- RIS-integrated workflow
- Powered by Canon
To achieve this, D2RS uses one of the effective imaging solutions (3-DRS). The latest technology can be integrated as an option like Tomo synthesis and interventional possibilities (DSA).

**Digital Dynamic Remote System**
The DelftDI D2RS remote control digital radiology system provides static and dynamic images using the Direct Digital Radiography Canon CXDI-50RF detector. The D2RS is a unique remote controlled digital radiology system that can perform:

1) Direct digital fluoroscopy,
2) Direct digital radiography (dDR)
3) Direct digital portable in-room radiography

All using a single Canon DR detector to create a highly versatile and cost-effective imaging solution (3-DRS). The latest technology can be integrated as an option like Tomo synthesis and interventional possibilities (DSA).

**Motorized Auto-Positioning for Stress-free Imaging**
The D2RS delivers high levels of productivity. It has automatic functions that facilitate outstanding workflow efficiency. By selecting an anatomically programmed examination type on the touch-screen, the exposure and acquisition parameters, such as orientation are prepared ready to start the procedure. The acquisition console has unlimited capacity for anatomical protocols. The procedure time is significantly reduced with real-time fluoroscopic image display and radiographic images displayed in just 3 seconds. Also the latest technology can be incorporated as an option like Tomo synthesis and interventional possibilities (DSA).

**Key Features**
- Remote controlled digital fluoroscopic system
- Uncompromised Direct Digital Radiography & Fluoroscopy
- Motorized Auto-Positioning
- Dose reduction features
- Camera allows radiation-free positioning
- Pre-programmed automatic collimation
- Automatic filter selection
- “Smart access” table position for easy patient transfer
- Head-to-toe patient coverage
- Variable table height
- Variable SID for all clinical examinations (max 180 cm)
- Customizable Pediatric Protocols
- Single acquisition station with large display for fluoroscopy and radiography
- Canon RF acquisition software with generator integration
- Canon’s CXDI-50RF portable 35 x 43cm detector suitable for both fluoroscopy and radiography, 160µm pixel pitch
- Extensive portfolio of Canon CXDI Flat Panel Detectors
- High sensitivity
- Sophisticated Image processing for highest diagnostic value
- Detector exchangeability between different DelftDI modalities

**Optional:**
- Direct digital wall stand and a ceiling supported 2nd X-ray tube
- Automatic Image Stitching
- Tomography
- Tomosynthesis
- DSA function
- Patient positioning accessories

**DelftDI Uromat RF**

**Universal solution for Urology and Fluoroscopy**

The DelftDI Uromat RF is a urological examination and operating table, which is equipped with the Canon CXDI-50RF dynamic Flat Panel detector. It is suitable for urological examinations and diagnostic work, as well as for minimally invasive urological surgery. This includes transferal procedures, such as endoscopies, kidney/urinary stone operations, and procedures involving the prostate, bladder, and ureter.

The Uromat provides convenient access for the patient as well as optimum and ergonomic operating conditions for the user. The patient table is accessible from all four sides so that moving the patient is no longer necessary, even during comprehensive procedures and examinations.

**Key Features**
- Convenient to work with due to easy ergonomics
- Uncompromised Direct Digital Radiography & Fluoroscopy
- Isocentric Motorized tilting
- Optimized working position for Urologists and nurses
- High KUB (Kidney Ureter Bladder ) FOV
- Highly configurable with modular design
- Multi function footswitch
- Easy to clean
- Single acquisition station with large display for fluoroscopy and radiography
- Canon RF acquisition software with generator integration
- Canon’s CXDI-50RF portable 35 x 43cm detector suitable for both fluoroscopy and radiography, 160 µm pixel pitch
- Sophisticated Image processing for highest diagnostic value

**Optional:**
- Eswl option
- Tabletop extension
- Footrest (only with tabletop extension)
- Infusion arm rest
- Infusion bottle holder
- Compression belt
- Leg supports
- Shoulder rests
- Handgrips
- Head cushion with mount
- Paper roll holder
  - (only with head cushion mount)
- Rinse bowl
- Rinse bag mount
- Mucuration seat
DelftDI Adora DRFi

A hybrid solution inspired by you

Adora DRFi offers all the operational advantages of the Adora DRi with unique versatility and ergonomics, enabling optimized workflow and easy handling. It adds functionality specifically required for RF and fluoroscopy. With FluoroAnywhere, fluoroscopy examinations can be performed at the table, in beds and wheelchairs or free-standing in the room.

Complete remote control of the Adora DRFi is possible from the control room using an ergonomic remote, Touch enabled joystick and the remote user interface, conveniently accessible from the same monitor that runs the generator UI. A live monitor and exposure foot switch assist in-room, table-side examinations; and with the inControl console the radiologist gains complete control of the system from within the room. The Canon CXDI Control Software RF provides smooth acquisition of both radiographic and fluoroscopic images. It is designed to be intuitive and easy to use, and offers advanced image processing showing the subtle details of bone structure and soft tissues. The Adora DRFi system is DICOM compatible, HIS/RIS ready and integrates seamlessly into hospital information systems.

Key Features

- Unique versatility and ergonomics
  - Position Anywhere, i.e. imagine a projection, perform it and save it as an auto-position for future use
  - Save up to 999 APR auto-positions; execute using the inMotion positioning technology
  - FluoroAnywhere for max. flexibility in fluoroscopy examinations
  - Enable unique lateral projections, and e.g. patella skyline without manual detector handling
  - Motorized detector/tube positioning; easy handling
  - Single-side suspended table, max. 250 kg patient weight
  - 349° rotating table for max. flexibility even in small rooms - make room for wheelchair and bedside examinations
  - AccessAnywhere provides easy patient access all around the table and optimum cleaning conditions

Advanced Canon technology

- Canon CXDI-50RF in detector dock: wired, portable
- 43 x 35 cm effective imaging area
- Fluoroscopy & serial imaging from docked position only
- Add wireless, portable Canon CXDI Flat Panel detectors, such as the CXDI-70IC and 80IC
- Outstanding performance in workflow, sensitivity, image quality and versatility
- Light weight and robust
- Wireless detectors can be shared across rooms and modalities

Added RF capabilities

- Complete in-room system control from any position using the inControl console
- In-room monitor and foot switch for e.g. table side examinations
- Supports a wide array of RF examinations: Arthrography, Pyelography, Cystogram/Retrograde Urethrogram, Osophagogram/Barium Meal (standing), Nephrostomy tube insertion, Small bowel follow through, Sialogram/istullography, Cholangiogram (no DSA), Myelography (contrast agent injection), Positioning fluoroscopy, and more
- Up to 30 frames/sec. in fluoroscopy mode
- Multi-frame radiographic imaging at up to 15 frames/sec.

Optimal dose registration workflow

With the optional USB DAP meter integration the dose is directly added to the DICOM header of the image and available for further processing.

Solution Composition

- Portable DR Workstation (laptop or desktop)
- Canon Flat Panel detector (CXDI-40IC / CXDI-70IC / CXDI-80IC Wireless)
- ‘Grab & Go’ bracket (optional)

System Key Features

- Easily add DR to any X-ray system using just 2 lightweight components
- No connections or modifications to your existing X-ray system necessary
- Not tied thereafter to just that one X-ray system. Canon provides you with the freedom to move between systems: just pick up and go! It’s smart, lightweight and battery-powered.

Examples of direct benefits are efficiency gains such as improved workflow, shorter and more efficient examination cycles, higher patient satisfaction, and reduces throughput, and more efficient allocation of staff and equipment. Manage more with less. Less effort, less resources and, depending on future requirements: fewer examination rooms.

Efficient examination cycles translates into enhanced patient comfort and improved diagnostic quality, and staff benefits from reduced stress and physical strain in one-room-exams using a system, that in all aspects is easy and straightforward to use, and is designed to minimize heavy work.

Breathe new life into your existing equipment; fixed, mobile, even portable systems can instantly benefit from Canon DR.

Only 2 Canon DR components are required to provide instant DR with any existing X-ray system. And you’re not tied thereafter to just that one X-ray system. Canon provides you with the freedom to move between systems: just pick up and go! It’s smart, lightweight and battery-powered.

Optional equipment

- ‘Grab & Go’ bracket
- A hybrid solution inspired by you
- No connections or modifications to your existing X-ray system necessary
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Solution Composition

- Portable DR Workstation (laptop or desktop)
- Canon Flat Panel detector (CXDI-40IC / CXDI-70IC / CXDI-80IC Wireless)
- ‘Grab & Go’ bracket (optional)

Optimal dose registration workflow

With the optional USB DAP meter integration the dose is directly added to the DICOM header of the image and available for further processing.
Share your detector

At the core of DelftDI Solutions are state-of-the-art Canon Flat Panel Detectors (FPD's). Canon FPD's are renowned for their consistent ability to offer the very highest image quality whilst demanding the lowest patient X-ray dose. They are also characterised by outstanding robustness and reliability that is second to none.

Canon wireless portable FPD's are exceptionally versatile and allow use both in and out of X-ray bucky's, in patient beds and on trollies and have the added benefit that they can be shared between different DelftDI modalities including fixed systems and mobiles, so providing additional resilience and cost-effectiveness.
Canon CXDI-NE Image Acquisition, Management and Distribution Software provides optimised workflow which reduces the number of operational steps and supports multiple study acquisition. The software delivers high-resolution images, integrates with the X-ray generator allowing automated X-ray parameters and delivers patient dose and examination information in the DICOM header.

Intuitive Interface
Canon’s intuitive ‘CXDI-NE’ Graphical User Interface (GUI) is used on all DelftDI digital radiography modalities. This commonality of Canon GUI across the DR product range is a major advantage when it comes to speed of operator training and user familiarity and convenience. The comprehensive Canon software configuration options ensure a GUI that is right for you; comprehensive image processing choices guarantee optimised image quality every time and the industry standard DICOM interface ensures multi-vendor and cross-platform connectivity in any situation.

Key Features
- Real-time viewing of high quality images
- Large high-resolution monitor for comfortable viewing
- Optimised workflow with less operation steps
- Active GUI for intuitive operation
- Supports various workflows to match local requirements
- Single and PrePacked Protocols
- Emergency study capability
- ‘Suspend Exam’
- Automatic forwarding rejected images to Canon IQS
- Automatic Image stitching

Emergency Study
Emergency examinations can be started immediately even when patient demographic information is not immediately; the software allows this information to be matched up to the images later.

PrePacked Protocol Operation
As well as allowing individual examination study protocols to be saved and recalled, Canon CXDI-NE software allows multiple study protocols to be ‘packed’ under a single program button for instantaneous recall. The software allows almost unlimited numbers of single and pre-packed study’s to be optimised for exposure and image processing and saved. This reduces errors and is especially convenient when the system is used by numerous users.

Suspend Exam
An examination can be paused e.g. for time delayed imaging or for emergency use of the X-ray room, a subsequent patient can be imaged and then the earlier examination resumed later.

High contrast images without using a grid
Where a grid physically reduces scatter and thereby increases the image contrast, the software mimics this process virtually. The software works by creating a scatter model, which is subsequently subtracted from the image. The result is an image with reduced scatter and increased contrast.

Canon Scatter Correction Software
How would this benefit you?
Depending on the clinical requirements, you could choose to have (mobile) X-ray systems equipped without a grid, but instead use Canon’s image processing technology including scatter correction and noise reduction to realize:

1. Use lower dosages compared to imaging with a grid
2. Lighter equipment, which is easier to carry and use by technologists
3. Work more efficient, due to the elimination of grid misalignments

Technically the scatter correction will be applicable to all protocols, but stringent reviews on clinical applicability is required.
Isolated processes combined into a single Image Quality management System

On a daily basis, we reflect on our actions when evaluating the images that we acquire. We justify our actions in accordance with the ALARA principle and build our knowledge based on personal experiences. The overall improvement of the quality of the imaging department however requires a quality management process. This means that planned and systematic actions provide adequate confidence that a diagnostic x-ray facility will produce consistently high quality images with minimum exposure of the patients and medical staff.

Central solution

In many occasions, imaging departments rely on individual processes and manual activities to evaluate the output of the department. Rejected images remain on the very equipment that acquired them without further analysis and the feedback on accepted images relies on verbal feedback of peers and physicians. Documenting the results to accommodate the departments quality management procedures brought the final challenge. All these challenges have been overcome by IQS.

IQS offers you an integrated quality management solution for monitoring and measuring the quality of the imaging processes in your department. The web-based system provides easy access to IQS from any location the staff is working from and the easy-to-use interface makes the system ideal for efficient analysis.

Reject analysis

Rejected images are an indicator for the quality manager to schedule additional training. They can be used as a basis for dialog with the reading radiologists to improve the service and quality to patients and referring physicians. The rejected images are forwarded from the modality to IQS. They are completed with additional information around the rejection reasons and systematically categorized according to a fixed protocol. Evidence based self-evaluation, peer review and accountability. There is much that can be learned even from evaluating accepted images. Accepted images can be structurally evaluated using reproducible protocols. Random samples will be retrieved from the production PACS system. The collected data can be used to assess the performance of the individual staff members as well as the group, to inventory training requirements for their specific needs.

Reproducible outcomes

IQS provides standard reports and the option to create custom reports to assure reproducible metrics. These can be used for process improvements and for communications within the organization, to steer and optimize processes and to support in clinical audits.