FUJIFILM
Value from Innovation



The Amazing AQRO.

Combining everything you need into one compact, portable digital x-ray system.

FDR AQRO

Introducing Fujifilm's new compact, mobile digital x-ray solution designed to simplify your everyday imaging operations.

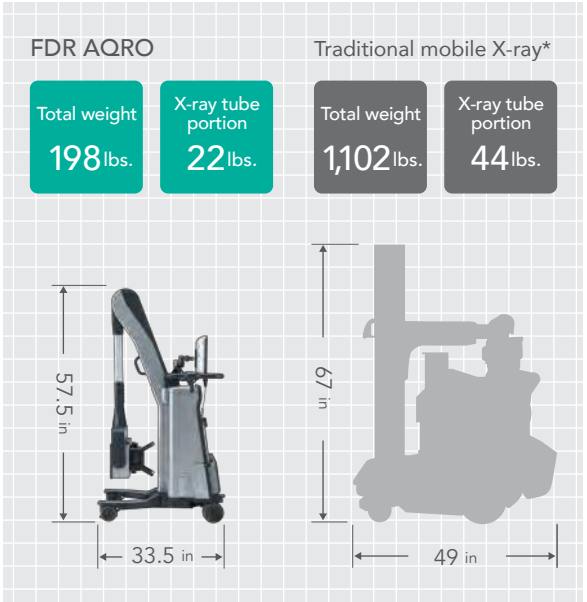


Amazing Maneuverability

Simple, easy handling in any radiographic situation

Go anywhere with an ultra-compact system

At just 198 lbs., FDR AQRO is nearly 80% lighter than traditional mobile x-ray systems and a lot smaller. It provides easy access to the tightest bedside spaces throughout the hospital.



*The weights of conventional mobile digital X-ray machines are estimated at 882 to 1,323 lbs.

Spin and maneuver, single-handedly

The extremely lightweight body with 4 rotating casters allows precise, easy positioning and travel in any direction and the ability to spin in place. Front and back foot latches lock the cart from travel, with the option to lock rear wheels only to prevent swiveling for easier steering.





View from any angle

The articulating control panel allows rotation, tilting and height adjustment for instant image confirmation from any angle.





Instant image confirmation after exposure.

Compact, Integrated Mobile DR Solution

Achieve mobile imaging efficiency with 3 core Fujifilm imaging advancements

The ability to capture sharp images at low dose has culminated in Fujifilm's latest ultra-high sensitivity DR system. By integrating acquisition innovations and advanced image processing technologies, this lightweight, compact imaging system quickly and easily acquires images at the patient bedside.



01

Ultra-lightweight, Compact Digital X-ray Cart

- Compact mono-tank X-ray
- Flexible operation panel
- Clean design with minimal cords and antibacterial coating on primary surfaces

02



High-Sensitivity DR Detectors

- Patented ISS reading technology
- Advanced noise reduction circuitry
- Lightweight with tapered edges
- Antibacterial coating, water resistance (FDR D-EVO II only)

03

Dynamic Visualization II

Virtual Grid

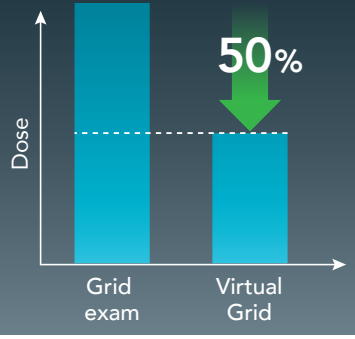
New Image Processing

Dynamic Visualization II

- Improves visibility through intelligent data recognition

Virtual Grid

- Acquires high-contrast images without a grid
- Lowers dose up to 50% compared to grid exams



Easy Workflow

Innovative mobility, lightweight compact design

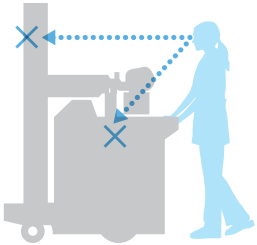
Improved forward and downward visibility

Compact design and 4-way wheels provide safe, nimble travel and handling and positioning in tight spaces.

FDR AQRO



Traditional mobile X-ray

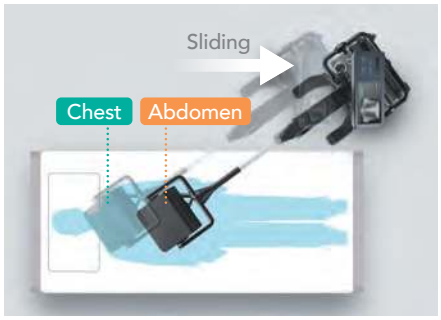


Precise bedside positioning



Easy positioning





Simply sliding or turning the cart enables easy position changes. Sequential exposures of the chest and abdomen can be acquired quickly and easily.

Fewer steps for the technologist



The slim cart design allows the technologist to minimize the distance between positioning the detector and taking the exposure.

Light, intuitive tube arm reach

The small lightweight design and extended reach of the tube head allows one-hand operation for easy exam positioning.



The arm swivels ±15° for additional fine tuning of the radiation field.



Usability

Unique DR and X-ray integration

High-performance battery minimizes downtime

The Li-ion battery power enables up to 12 hours of continuous use at 20 exposures/hour and rapid charging of 4 hours for full charge.

- Up to 12 hours (20 exposures/hour)
- 15-min quick charge: up to 1 hour (20 exp) of use
- Full charge: in just 4 hours
- AC power: Can use while plugged in

Plug-in use

FDR AQRO can be used with AC power, even when the battery is drained.



Detector storage, registration and charging

The detector holder area features built-in charging and initialization, a keyed lock to safely stow your valuable detector, and a tilting design for detector bagging.*

* Fujifilm does not provide a cover.



Key Lock



Tilting Detector Holder

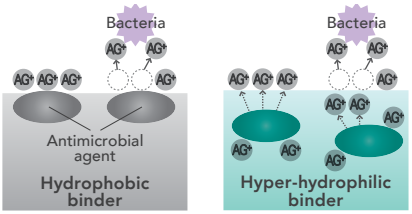
Primary surfaces coated with Hydro AG antibacterial protection

Hydro AG

Hydro AG is engineered to kill bacteria on its surfaces and provides an added safety measure against hospital-acquired infections (HAIs).

- 99.99% effective against the most common bacteria
- 100 times more effective than traditional silver ion coatings*
- 10,000 times more effective than surfaces with no coating

* Based on residual bacteria counts.



Conventional | Hydro AG

Easy-to-clean design

Smooth surfaces and the cableless tube arm simplify cleaning for sterile environments. The operation panel, hand switch, tube arm, and collimator handles are coated with antibacterial coating.

CsI or GOS Digital X-ray Detectors

The FDR AQRO is designed for use with Fujifilm's latest DR detectors, FDR D-EVO II and FDR ES, which provide the flexibility, efficiency, and image quality your staff and patients deserve. Both feature patented ISS technology and are available in 14x17", and 24x30cm sizes with CsI or GOS capture. These lightweight, durable detectors provide image preview in as little as 2 seconds and approx. 9 seconds cycle time.

FDR D-EVO II detectors also feature a higher patient weight capacity, tapered edges, Hydro AG antibacterial protective coating, and a higher fluid resistance rating.



14x17" | 17x17" | 24 x 30 cm

Image Quality

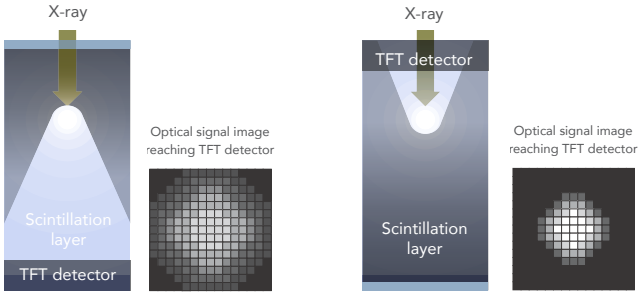
Innovative technologies to achieve high resolution and low dose

DR Detectors

FDR D-EVO II and FDR ES

High-sensitivity detectors with patented ISS technology

FDR D-EVO II and FDR ES position capture electronics (TFTs) at the irradiation side, in contrast to traditional detectors. This design significantly suppresses x-ray signal scatter and attenuation, improving efficiency to produce sharper images at lower doses compared to traditional designs.*



Conventional method | **ISS reading technology**

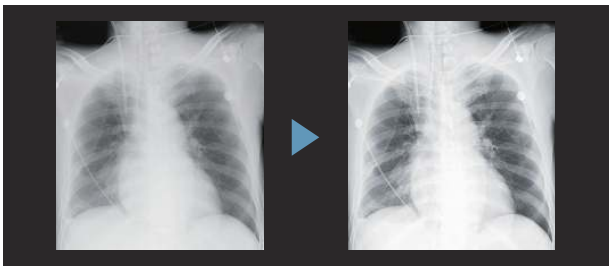
Image Processing Technology

Virtual Grid

Eliminate grids with intelligent image processing

Virtual Grid™ virtually eliminates scatter without a grid to increase patient comfort and simplify positioning. It improves granularity in low-dose imaging and allows for as much as 50% lower dose compared to grid exams.

Virtual Grid



No Grid | **Virtual Grid**

Fujifilm noise reduction circuitry improves sensitivity in high-absorption regions

A unique Fujifilm innovation maximizes signal strength to improve image quality in high-absorption areas. This enhancement achieves 1.7 times the DQE of previous models, with as little as 0.03mr dose. Visibility of dense areas such as the heart and mediastinum are greatly improved.

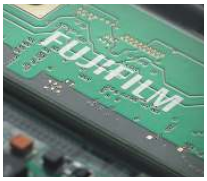
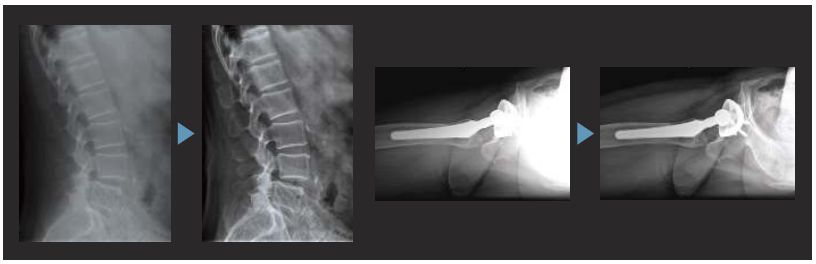


Image Processing Technology

Dynamic Visualization II

Dynamic Visualization II

Dynamic Visualization II optimizes image display based on recognition and compensation of density and contrast based on anatomic structure definition, foreign objects and body thickness throughout the entire exposure field. The resulting first-up images have outstanding detail and greater window and leveling capability in PACS.



Conventional processing | **Dynamic Visualization II** | Conventional processing | **Dynamic Visualization II**

Specification

Product name	FDR AQRO
Model No.	DR-XD1000
Power supply	100-240 V AC, Single phase: 50-60 Hz 8-3.3 A
X-ray output	Technique Range: 40-100kV & 0.25-100 mAs Max. rating: 2.5 kW Tube voltage: 40-100 kV Tube current: Max 35 mA (max voltage when max current reached: 71 kV)
X-ray tube	Nominal focal spot size 1.2 mm Maximum anode heat capacity: 35 kJ (50 kHU) Target angle: 16 degree
Total width	21.65" (550 mm) excluding handle 23.6" (600 mm) including handle
Total length	33.5" (770 mm)
Total height	57.5" (1,460 mm)
Weight	198 lbs. (90 kg)

FDR D-EVO II or FDR ES G35, G43, C35, C43, and C24 are available for the FDR AQRO. For more information on specific detector models, please see respective product brochures.

Optional Items

- Additional storage compartment
- Filter
- Handle height kit
- BCR wireless
- Wipe holder
- Apron hanger

External appearance and specifications are subject to change without notice.

* Based on higher MTF and DQE demonstrated in "Effect of X-ray incident direction and scintillator layer design on image quality of indirectconversion flat-panel detector with GOS phosphor" by K. Sato, et al.

FUJIFILM Medical Systems U.S.A., Inc.

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