FUJIFILM
Value from Innovation

NEW

FDR D-EVO III
C35i | C43i

Leading the Flow of Technology

Advanced image processing

3D structure analysis technology to support mobile exam

*These image processing is achieved with Console Advance.

Virtual Grid

Provides a high quality image without using a grid

Virtual Grid processing corrects for the effects of scatter radiation. Without the need for a grid, Virtual Grid retains high contrast and image sharpness, while preventing the asymmetric density resulting from misalignment of X-ray tube and detector. (Option)

Virtual Grid

No Grid | Virtual Grid | Real Grid

Multiple body parts supported

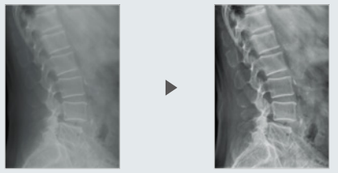
Abdomen | Cervical Spine | Thoracic Spine | Lumber Spine

Dynamic Visualization II

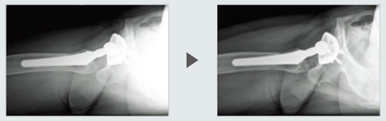
Optimizes image quality using latest Exposure Data Recognizer

Advanced recognition algorithms automatically adjust contrast and density for individual body parts based on calculation of estimated 3D image data. (Option)

Dynamic Visualization II



Conventional Processing | Dynamic Visualization II



Conventional Processing | Dynamic Visualization II

Specification

Product name	FDR D-EVO III C35i	FDR D-EVO III C43i
		
Model name	Flat Panel Detector (DR-ID 1811SE) for FDR D-EVO III System (DR-ID 1800)	Flat Panel Detector (DR-ID 1812SE) for FDR D-EVO III System (DR-ID 1800)
Type	Cassette type detector with ISS (Irradiation Side Sampling) and flexible film-based TFT detector	Cassette type detector with ISS (Irradiation Side Sampling) and flexible film-based TFT detector
Scintillator	CsI (Cesium iodide)	CsI (Cesium iodide)
Detector external size	460 × 384 × 15 mm (Approx.) [18" × 15" × 0.6"]	460 × 460 × 15 mm (Approx.) [18" × 18" × 0.6"]
Weight	Approx. 2.2 kg (excludes battery pack)	Approx. 2.6 kg (excludes battery pack)
Pixel pitch	0.15 mm	0.15 mm
Pixels	2836 × 2336 pixels	2836 × 2832 pixels
Wireless standard	IEEE 802.11n, IEEE 802.11ac (2.4 GHz, W52/W53/W56)	IEEE 802.11n, IEEE 802.11ac (2.4 GHz, W52/W53/W56)
Image preview	Less than 2 sec (wired/wireless)	Less than 2 sec (wired/wireless)
Cycle time	Less than 7 sec (wired/wireless) Less than 8 sec (SmartSwitch)	Less than 7 sec (wired/wireless) Less than 8 sec (SmartSwitch)
Battery recharging time	Approx. 3 hours (with battery charger) Approx. 4 hours (with Docking Stand)	Approx. 3 hours (with battery charger) Approx. 4 hours (with Docking Stand)
Battery	**Battery Pack** Battery weight approx. 220 g performance Sleep mode: Approx. 8 hours Extra sleep mode: Approx. 20 hours	**Battery Pack S** Battery weight approx. 180 g performance Sleep mode: Approx. 6.5 hours Extra sleep mode: Approx. 16 hour

Optional parts

MP box
(DR-ID 1200MP)

Docking stand
(DR-ID 1200DS)

Power-Box
(DR-ID 1200PB)

Battery charger
(Li-ion Battery charger)

Battery Pack
(Li-ion Battery [125Y200038])

Battery Pack S
(Li-ion Battery [125Y200055])

•External appearance and specifications are subject to change without notice. •All brand names or trademarks are the property of their respective owners.
•All products require the regulatory approval of the importing country. •For details on their availability, contact our local representative.
•Please contact FUJIFILM's authorized distributor for flat panel detector system.

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http://www.fujifilm.com/products/medical/

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Next generation imaging

Glass-free flexible sensor

Replacing the conventional glass material with the thin film, FDR D-EVO III achieves higher quality image and lower dose.

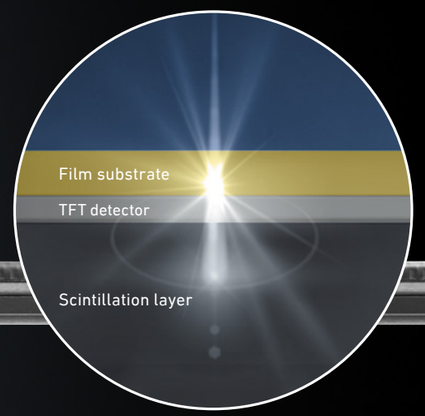
C35i [14"×17"model]

C43i [17"×17"model]

High quality image & Low Dosing

Enhanced resolution and the DQE of 58% by the film

DQE 58%

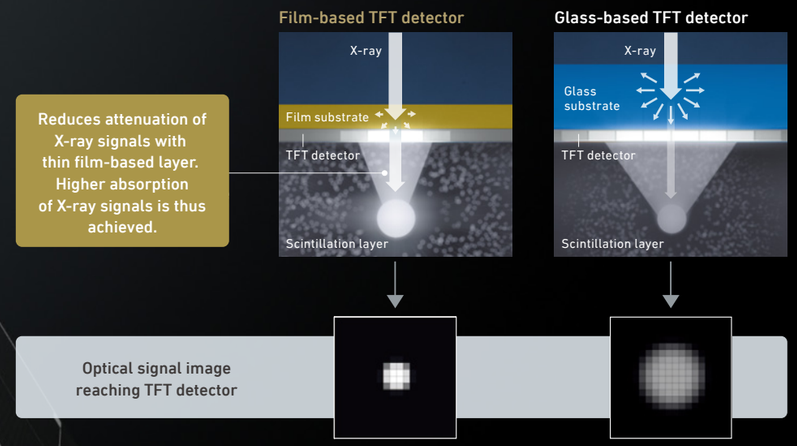


ISS system reading technology promotes higher sensitivity

Like FDR D-EVO II, FDR-D-EVO III is Equipped with an indirect conversion system called the ISS method which bonds optical sensors (TFT) to the X-ray irradiation side unlike traditional flatpanel detectores. This greatly suppresses scattering and attenuation of X-ray signals, creating a sharp image with low X-ray dose.

Synergism between ISS method and flexible film-based TFT detector

By changing the TFT detector of FDR D-EVO III from glass-base to film-base, X-ray transmittance is improved compared to FDR D-EVO II. FDR D-EVO III achieved DQE 58% from 54% (1 Lp/mm - RQA5 1 mR) by applying a flexible film to a base of the device detector. This unique technology combination is only possible with proprietary ISS technology to fully implement the benefits of film-based detectors.



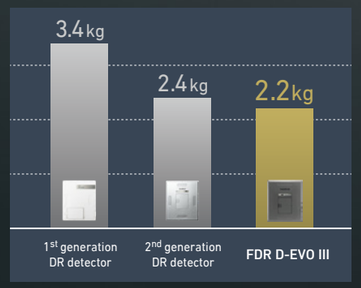
Excellent mobility

Approx.

2.2kg

LIGHTWEIGHT

*14 x 17 inch model, without the battery



Now even lighter

The FDR D-EVO III is more portable than ever and contributes to better workflow. Replacing the glass-based TFT detector with the thin film-based makes the device even lighter at 2.2kg.

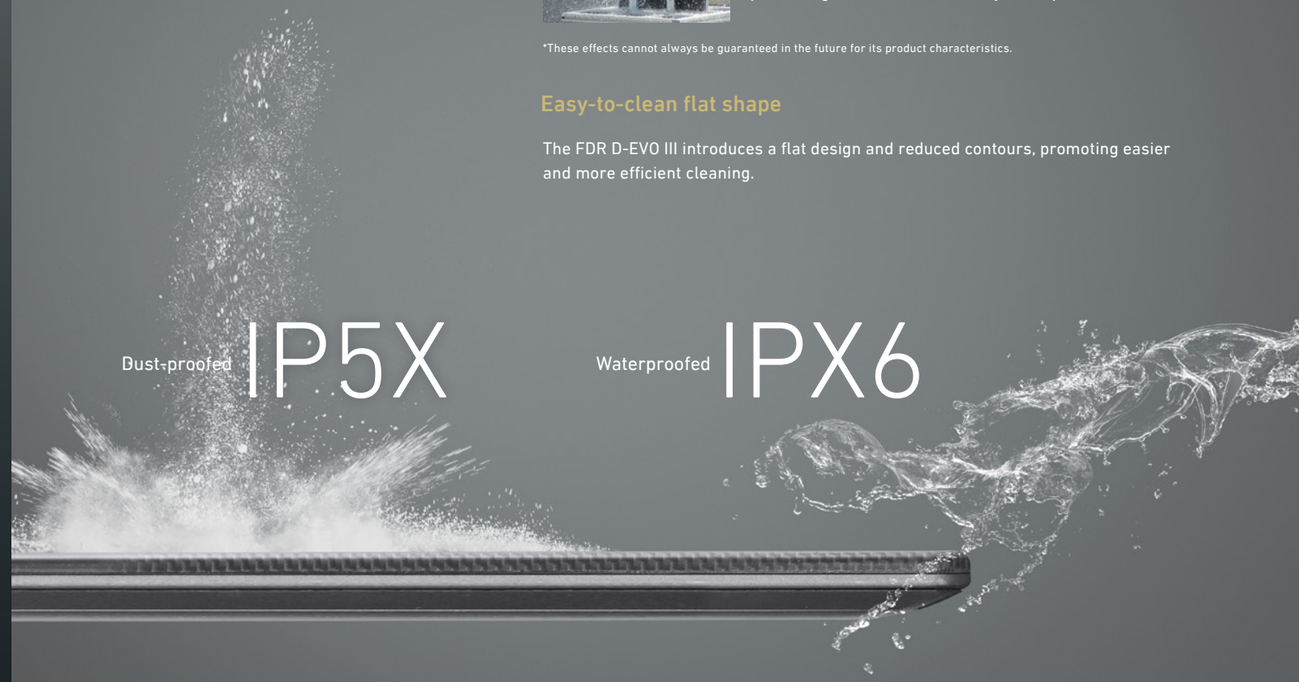
Internal memory for independent imaging
Easy-to-read battery status display

Up to 100 images can be stored in the panel's internal memory. The LED display shows the number of stored images along with the battery status. You can check that information even when the panel is being used on its own.

Small AP is no longer required

The small AP required for previous mobile solution is not necessary for the FDR D-EVO III. With just the panel and mobile console, high mobility can be achieved.

High-Level Protection



Waterproofed and dust-proofed

Structured to prevent the infiltration of liquids, the device conforms to IPX6 and can withstand jets from any direction*. There is no need to worry for fluid permeation inside the device caused by fluid like blood or vomit. The device also complies with IP5X for dust-proof structure, preventing malfunction caused by small particles*.

*These effects cannot always be guaranteed in the future for its product characteristics.

Easy-to-clean flat shape

The FDR D-EVO III introduces a flat design and reduced contours, promoting easier and more efficient cleaning.

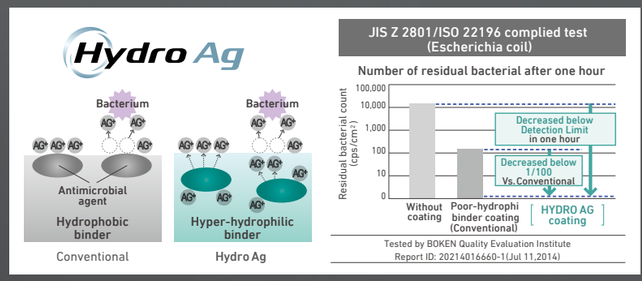
High durability frame structure — 310kg load capacity

Forging frames constructed with Mg-Li alloy provides robust protection for internal devices, while maintaining a lightweight design. With this technology, FDR D-EVO III has a 310kg load capacity.

Hydro Ag antibacterial coating

The FDR D-EVO III detectors are coated with Hydro Ag antibacterial coating, which has an antibacterial effect 100 times greater than that of conventional Ag coatings. This longer-lasting higher intensity antibacterial effect prevents bacterial growth. A hyper-hydrophilic binder allows easy cleaning and hygienic use, together with the easy-to wipe flat design of the detector.

* Due to the characteristics of the product, the effect is not guaranteed in the future.



Versatile Functionality

LED lamps on the front of device for better visualization

LED lamps are equipped on four sides of the front of the detector, for a visual assistance.

1 Centralizing the device and distinguishing devices

Equipped with side-center LEDs on four sides of the detector, for easier positioning of the device during imaging. There are five LED colors (blue, pink, orange, lime-yellow and purple), to distinguish different devices for different colors when using multiple devices.

2 Device status displayed in green

When the device is ready for X-ray exposure, the LED lights up in green.

3 Front side identification in white

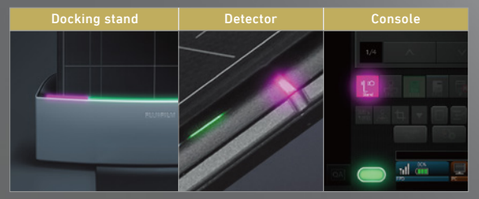
It lights up in white to identify the top-side and bottom-side of the detector.

Easy insertion with shell designed edge

The curved, shell designed edges are employed on both sides of the panel. The curved corners allow for an easier insertion into patient beds. The easy-to-grasp shape assists to pick up even when placed on a flat surface, improving task efficiency.

Works together with the console to display the detector status

The docking stand works together with the console to display the detector's "Ready" status and identify color using the LEDs. This makes it easy to check the current state of the detector even from far away.



Peripheral devices for effortless handling

Battery charger, docking stand, power supply unit and power box for FDR D-EVO II can also be operated with FDR D-EVO III, for improved usability and easier handling.

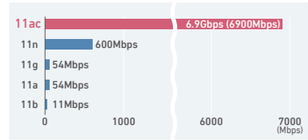
Improved Handling

Simple battery replacement workflow

The battery can be replaced with one hand.

Suitable for outdoor use with an expanded spectrum

FDR D-EVO III is compatible with 2.4 GHz and 5GHz (W52/53/56)* spectrum, making the device suitable for outdoors use. Also, the device supports IEEE802.11 ac, the new high-speed wireless LAN.



*Wireless band is allowed to be used depending on the regulation of each country.

Improved throughput

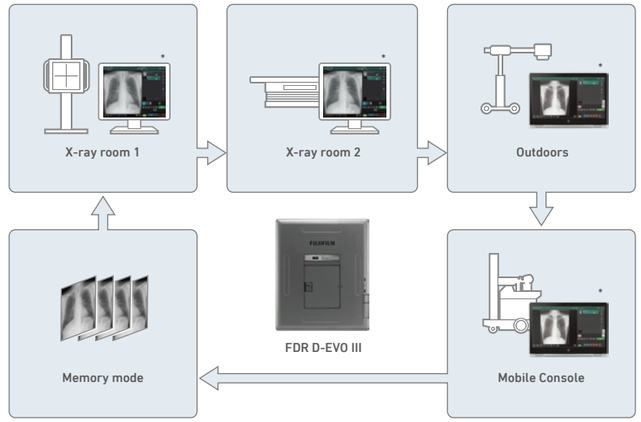
Image display speed and cycle time has been improved approximately by 1.5 seconds when wirelessly connected, as compared to our previous FDR D-EVO models.

Preview	Processed
Less than 2 sec	Less than 5 sec
wired / wireless	wired / wireless

Easier transition between systems

FDR D-EVO III enables users to select and switch between systems simply by pressing the button on the back of the panel.

*Console Advance



"SmartSwitch" Technology

Fujifilm developed a technology "SmartSwitch" which allows automatic X-ray detection. With SmartSwitch, FDR D-EVO III no longer requires connection between the X-ray generator and DR power supply unit to automatically detect X-rays and start image creation.

SmartSwitch