

## Advanced image processing

\*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

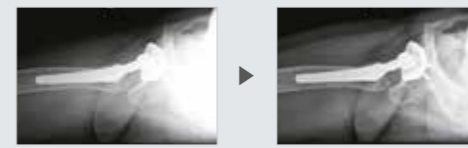
Advanced recognition algorithms automatically adjust contrast and density for individual body parts based on calculation of estimated 3D image data. (Option)



Dynamic Visualization II



Conventional Processing      Dynamic Visualization II



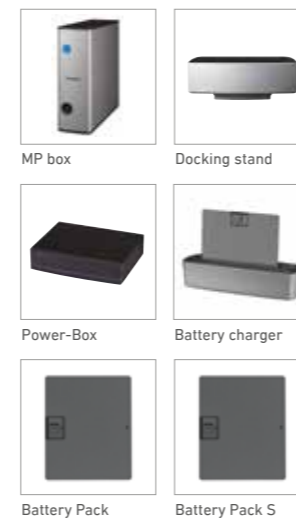
Conventional Processing      Dynamic Visualization II

Leading the Flow of Technology

## Specification

	FDR D-EVO III C35i	FDR D-EVO III C43i
Product name		
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	<b>Battery Pack</b> Battery weight approx. 220 g performance Sleep mode: Approx. 8 hours Extra sleep mode: Approx. 20 hours	<b>Battery Pack S</b> Battery weight approx. 180 g performance Sleep mode: Approx. 6.5 hours Extra sleep mode: Approx. 16 hours

## Optional parts



MP box

Docking stand

Power-Box

Battery charger

Battery Pack

Battery Pack S

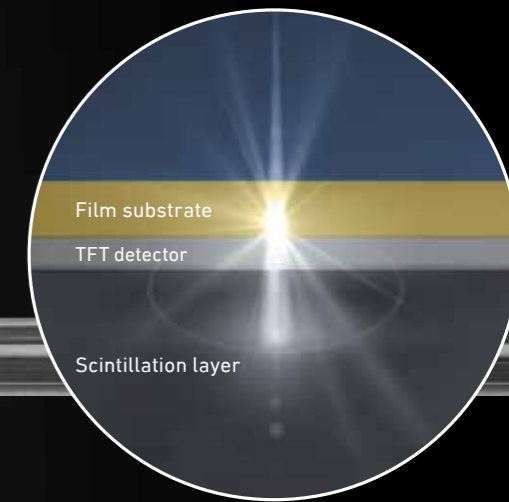
•External appearance and specifications are subject to change without notice. •All brand names or trademarks are the property of their respective owners.  
•All products require the regulatory approval of the importing country. •For details on their availability, contact our local representative.  
•Please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



# Glass-Free

High quality image and low dose

New flexible TFT enhances resolution and improves DQE



## Next generation imaging

Glass-free flexible TFT

Replacing the conventional glass material with a thin film TFT allows the FDR D-EVO III detector to deliver improved image quality at lower dose.



C35i [14"×17" model]



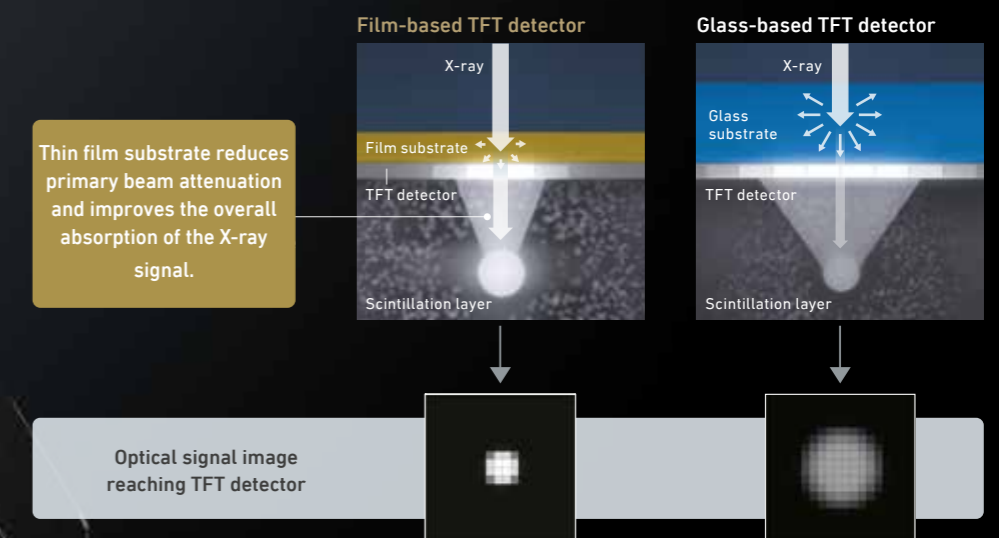
C43i [17"×17" model]

### ISS technology promotes higher sensitivity

The FDR D-EVO III detector with Irradiated Side Sampling (ISS) technology improves signal detection and transmission within the detector. By mounting the TFT on the incident side of the detector there is a shorter distance for the signal to travel from the scintillator to the TFT array.

#### **NEW** Synergy between ISS and flexible film-based TFT detector

Changing the TFT from glass-based to film-based improves X-ray transmission and DQE. This unique combination is only possible with proprietary ISS technology to maximise the benefits of film-based detectors.





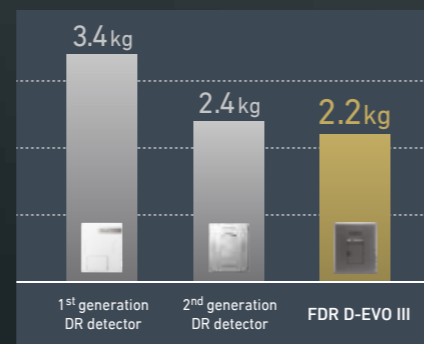
## Excellent mobility



# 2.2kg\*

## LIGHTWEIGHT

\*Approx. (14 x 17 inch model, with battery)



### Now even lighter

The FDR D-EVO III is more portable than ever and contributes to an improved workflow. A flexible film-based TFT replaces the traditional glass component making the device even lighter at 2.2kg.

### Internal memory for independent imaging and 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.



### Integral wireless access point

The FDR D-EVO III features an integral wireless access point which improves mobility and handling.



## High-Level Protection

### Waterproofed and dust-proofed



Designed to prevent the infiltration of liquids and dust particles, the detector conforms to IP56\* reducing the possibility of damage.

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

### Easy-to-clean

The evolution of the FDR D-EVO III detector introduces a new flat profile design, promoting easier and more efficient cleaning.

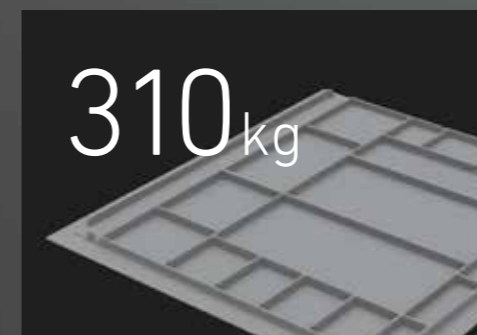


Dust-proofed **IP5X**

Waterproofed **IPX6**

### High durability frame with 310kg load capacity

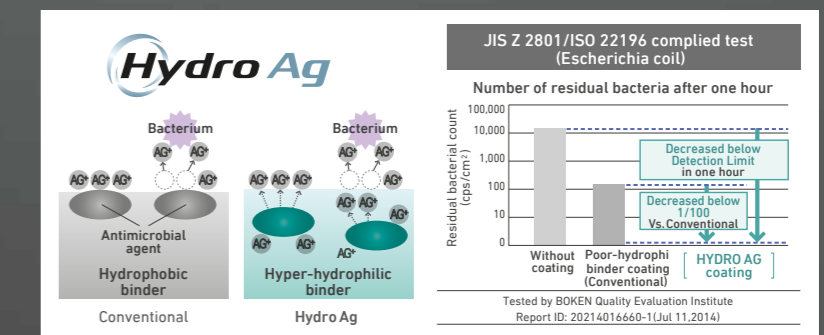
A magnesium-lithium alloy frame provides robust protection for internal components, offering a lightweight design with a 310kg load capacity.



### Hydro Ag antibacterial coating

The FDR D-EVO III detectors feature a 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 status indicators

LED lights on all four sides provide detector status indication



### 1 Detector identification LEDs

For device identification and easier centering of the detector. The five LED colors help to distinguish between multiple detectors within the same department.

### 2 Detector status display

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

### 3 Front side identification in white

Clear identification of the correct orientation 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

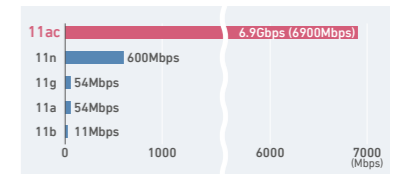
The battery can be replaced quickly with one hand to save time.



## 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 outdoor use.

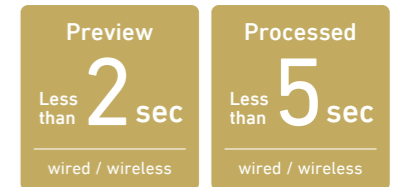
Also, the device supports IEEE802.11 ac, the new high-speed wireless LAN.



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

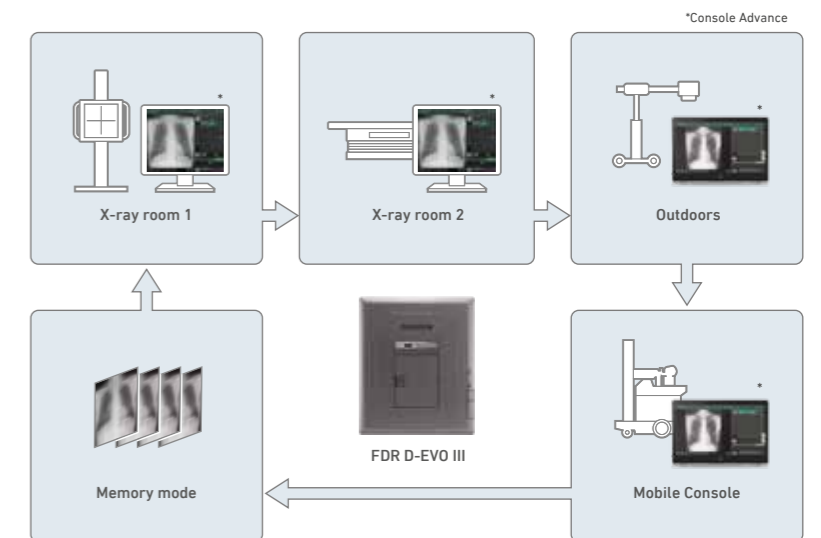
## Improved throughput

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



## 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.



## "SmartSwitch" Technology

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

