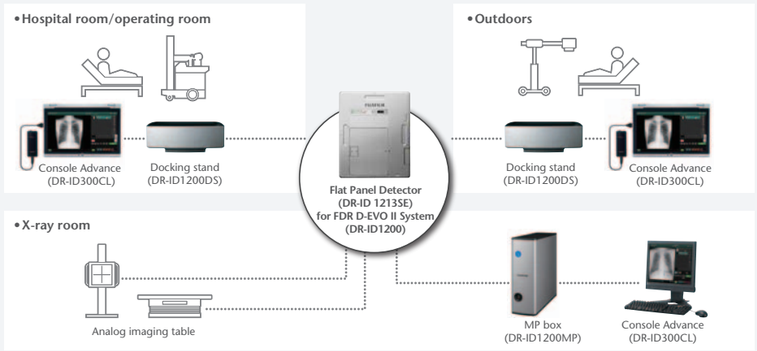
System configuration



"SmartSwitch" Technology

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

SmartSwitch

Specification

	D-EVO II C24
	
Model name	**Flat Panel Detector (DR-ID 1213SE) for FDR D-EVO II System (DR-ID1200)**
Type	Cassette size detector with ISS (Irradiation Side Sampling system)
Scintillator	CsI (Cesium iodide)
Detector external size	328 × 268 × 15 mm (Approx.) [12.9" × 10.6" × 0.6"]
Weight	Approx. 1.5 kg [3.3 lbs.] (including battery)
Pixel pitch	0.15 mm
Pixels	1920 × 1536 pixels
Wireless standard	IEEE 802.11n (2.4 GHz, W52/W53/W56/W58)
Image preview	Less than 2 sec
Cycle time	Less than 9 sec
Battery recharging time	Approx. 3 hours (with battery charger) Approx. 4 hours (with Docking Stand)
Battery performance	Standby: Approx. 4 hours Sleep mode: Approx. 8 hours Extra sleep mode: Approx. 48 hours

Optional parts

Battery charger

Battery

Fujifilm AP

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 II X-ray system.

CE 0123

FUJIFILM Corporation
26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN
http://www.fujifilm.com/products/medical/

Ref. No. XB-1032E (SK·15·07·F1079·F9711) Printed in Japan

FUJIFILM
Value from Innovation

"Smart" mini size.

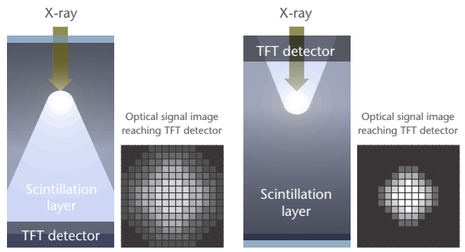
NEW
FDR D-EVO II
C24

The high-resolution, low-dosage D-EVO II is now available in a compact size.

Fujifilm's imaging technologies realizes high resolution images in high absorption regions

1. Fujifilm's unique ISS technology provides high resolution images with low dose

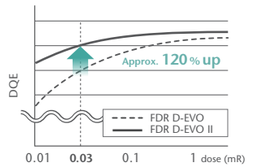
With the CsI columnar crystal scintillator combined with the ISS system, we suppress light scattering and energy attenuation to be impossible with existing reading systems to create images with low dosages and high resolution. We have achieved a top world class 54% DQE (@ 1Lp/mm, 1 mR), MTF 80% (@ 1Lp/mm, 1 mR).



Conventional method　　ISS system reading technology

2. Fujifilm noise reduction circuit improves detector sensitivity in high absorption regions

The uniquely developed noise reduction circuit reduces noise in the image. It achieves 1.2 times the DQE of existing systems with a 0.03 mR dose. In particular, granularity of low-concentration regions such as the heart and mediastinum is dramatically improved.



With additional major increases in sensitivity in low-concentration regions (heart, mediastinum)

3. Image processing technology to optimize imaging results

FDR D-EVO II utilizes the latest Fujifilm digital image processing technologies including Dynamic Visualization, which optimizes image display based on monitor characteristics and FNC noise suppression processing that improves image quality, automatically extracting and separating noise components in the image.

The smaller form allows it to be smoothly linked with incubators.

24 × 30 cm

Weight	Load capacity
1.5 kg	310 kg

The rugged magnesium-alloy shell-type frame (SRM*) allows a total surface load capacity of 310 kg while maintaining a lightweight design of only 1.5 kg.

*Shell-Shape with rib magnesium-alloy

The compact size can also be utilized in various fields, such as plastic surgery.

With a compact form factor of only 24 × 30 cm, the device can also be utilized in various fields, such as plastic surgery. It offers an increasing imaging efficiency and diagnostic precision extending beyond pediatrics.

Mobility and durability is suited to even the toughest medical settings

1.5 kg lightweight body

Designed to be lightweight, weighing only 1.5 kg (with battery) through the magnesium-alloy shell-type frame (SRM* frame). Can easily be placed behind a patient.

* Shell-shape with rib magnesium-alloy

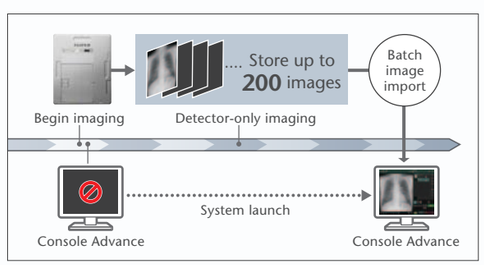
IPX6 waterproofing

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 that fluids such as blood or vomit could enter the device.

*Because of product characteristics, these effects cannot always be guaranteed into the future.

Allows detector-only image storage

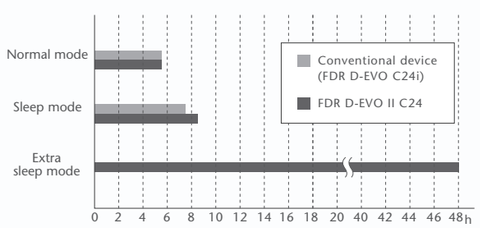
The detector itself can store up to 200 images in internal memory. This eliminates the work of carrying around multiple CR cassettes found in conventional systems. Furthermore, it allows you to perform rapid imaging, such as at night or during an emergency.



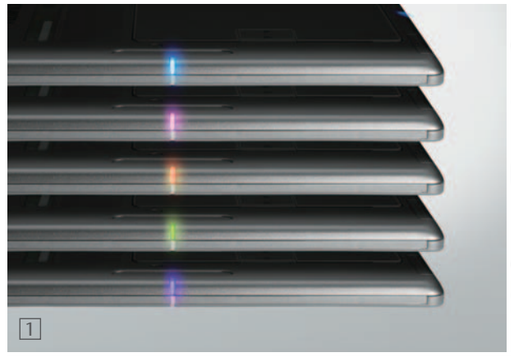
*It depends on the regulation of each country which wireless band is allowed to be used.

Maximum 48 hours of standby time with the new sleep function

The sleep mode provides approx. 8 hours of standby time, whereas the newly added extra sleep mode provides up to 48 hours of standby time. In sleep mode, the center LED on the side of the detector flashes slowly to indicate the detector status at a glance.



Pursuing ease of use through versatile functionality



1 Five-colored side-center LEDs to improve distinguishability

Equipped with LEDs at the center of each of the four sides of the detector that makes it easy to check the center position during imaging. Select from five colors (blue, pink, orange, lime-yellow, and purple) that make it easier to distinguish devices when using multiple detectors. In sleep mode, the side-center LEDs switch to a gentle flashing pattern that allows you to see the state of the detector at a glance.

2 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.

3 Easy-to-see LED status display

The back of the detector is equipped with an LED lamp that displays remaining battery status. This allows easy checks of remaining battery, and eliminates worries when using the detector.

4 Docking stand for charging and storage

The docking stand functions as a charger and storage device, and enables high-speed full charging in approximately 4 hours.

5 Stylish, unified design

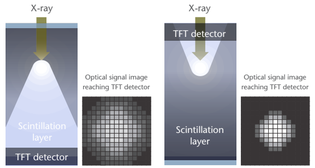
The detector and peripherals (docking stand, charger, power supply unit) all share the same silver base color and high-quality design that effectively utilizes curved edges.

The high-resolution, low-dosage D-EVO II is now available in a compact size.

Fujifilm's imaging technologies realizes high resolution images in high absorption regions

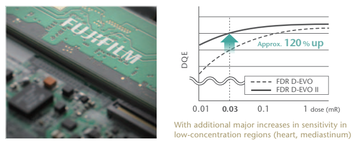
1. Fujifilm's unique ISS technology provides high resolution images with low dose

With the CsI columnar crystal scintillator combined with the ISS system, we suppress light scattering and energy attenuation to be impossible with existing reading systems to create images with low dosages and high resolution. We have achieved a top world class 54% DQE (@ 1Lp/mm, 1mR), MTF 80% (@ 1Lp/mm, 1mR).



2. Fujifilm noise reduction circuit improves detector sensitivity in high absorption regions

The uniquely developed noise reduction circuit reduces noise in the image. It achieves 1.2 times the DQE of existing systems with a 0.03 mR dose. In particular, granularity of low-concentration regions such as the heart and mediastinum is dramatically improved.



With additional major increases in sensitivity in low-concentration regions (heart, mediastinum)

3. Image processing technology to optimize imaging results

FDR D-EVO II utilizes the latest Fujifilm digital image processing technologies including Dynamic Visualization, which optimizes image display based on monitor characteristics and FNC noise suppression processing that improves image quality, automatically extracting and separating noise components in the image.

Mobility and durability is suited to even the toughest medical settings

The smaller form allows it to be smoothly linked with incubators.

24 × 30 cm

Weight	Load capacity
1.5 kg	310 kg

The rugged magnesium-alloy shell-type frame (SRM*) allows a total surface load capacity of 310 kg while maintaining a lightweight design of only 1.5 kg.

*Shell-Shape with rib magnesium-alloy

1.5 kg lightweight body

Designed to be lightweight, weighing only 1.5 kg (with battery) through the magnesium-alloy shell-type frame (SRM* frame). Can easily be placed behind a patient.

* Shell-shape with rib magnesium-alloy

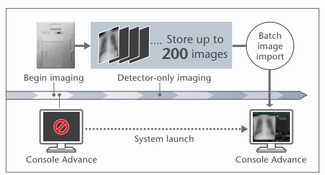
IPX6 waterproofing

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 that fluids such as blood or vomit could enter the device.

*Because of product characteristics, these effects cannot always be guaranteed into the future.

Allows detector-only image storage

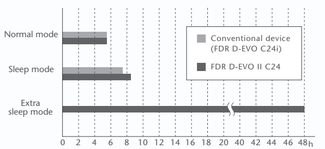
The detector itself can store up to 200 images in internal memory. This eliminates the work of carrying around multiple CR cassettes found in conventional systems. Furthermore, it allows you to perform rapid imaging, such as at night or during an emergency.



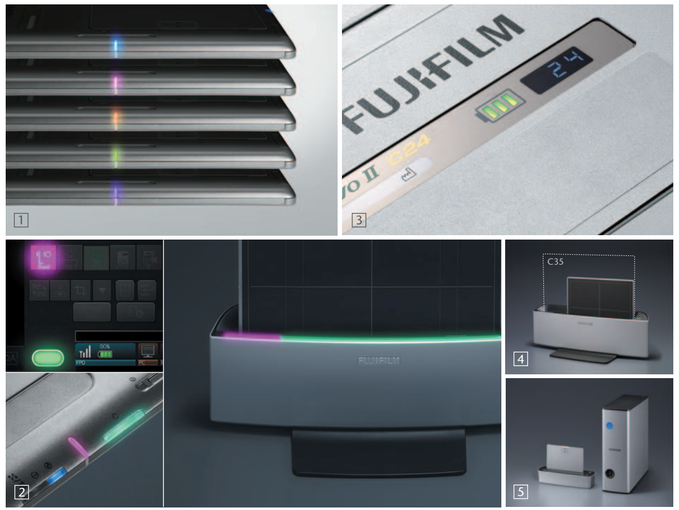
*It depends on the regulation of each country which wireless band is allowed to be used.

Maximum 48 hours of standby time with the new sleep function

The sleep mode provides approx. 8 hours of standby time, whereas the newly added extra sleep mode provides up to 48 hours of standby time. In sleep mode, the center LED on the side of the detector flashes slowly to indicate the detector status at a glance.



Pursuing ease of use through versatile functionality



1 Five-colored side-center LEDs to improve distinguishability

Equipped with LEDs at the center of each of the four sides of the detector that makes it easy to check the center position during imaging. Select from five colors (blue, pink, orange, lime-yellow, and purple) that make it easier to distinguish devices when using multiple detectors. In sleep mode, the side-center LEDs switch to a gentle flashing pattern that allows you to see the state of the detector at a glance.

2 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.

3 Easy-to-see LED status display

The back of the detector is equipped with an LED lamp that displays remaining battery status. This allows easy checks of remaining battery, and eliminates worries when using the detector.

4 Docking stand for charging and storage

The docking stand functions as a charger and storage device, and enables high-speed full charging in approximately 4 hours.

5 Stylish, unified design

The detector and peripherals (docking stand, charger, power supply unit) all share the same silver base color and high-quality design that effectively utilizes curved edges.