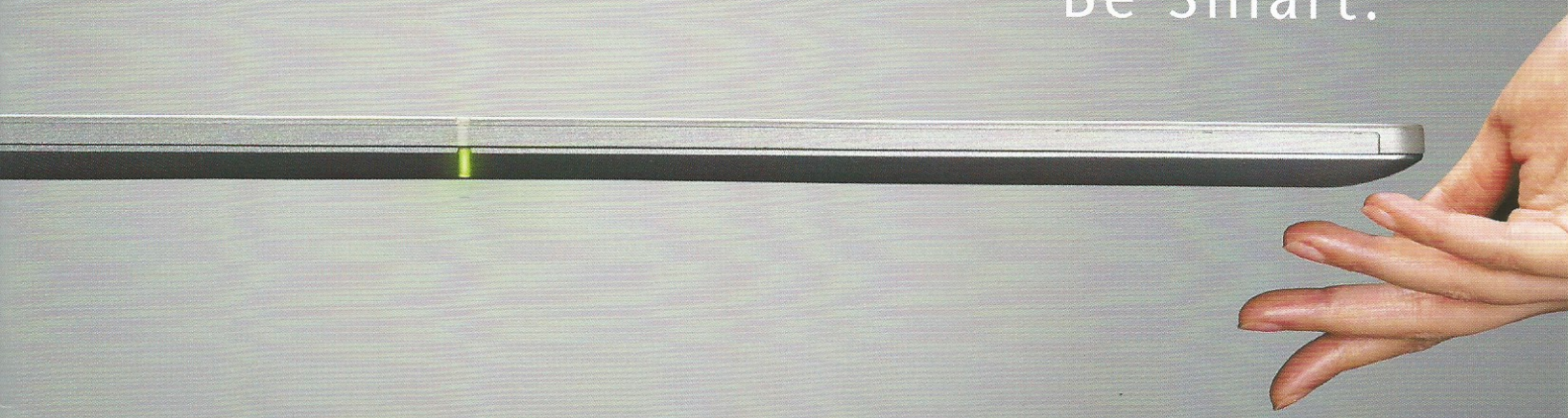
FUJIFILM
Value from Innovation

Be Smart.



NEW

FDR D-EVO II

G35 | G43

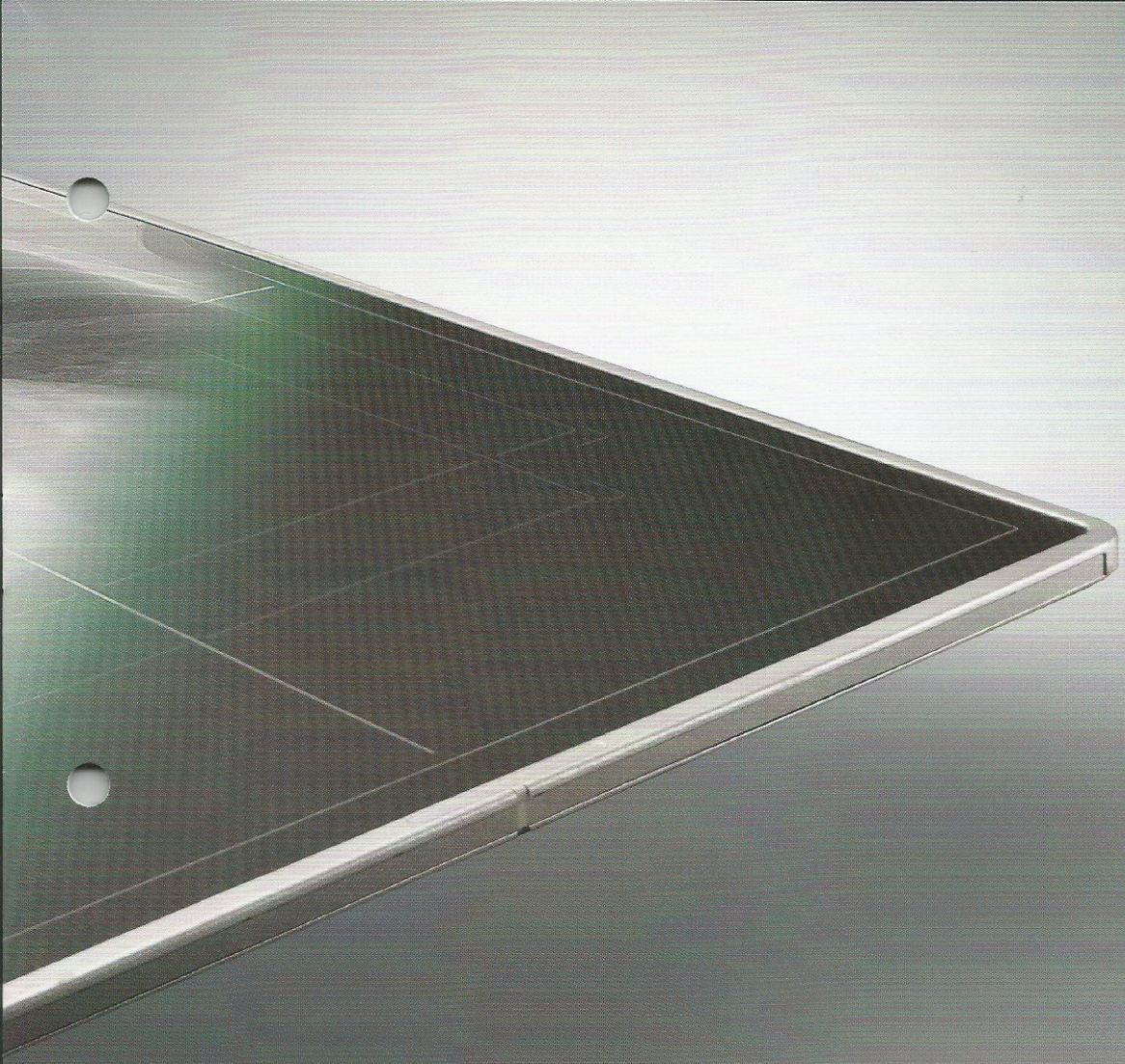
High definition, made smarter.

G35 [14"×17" model]

G43 [17"×17" model]

Improved image quality through a noise reduction circuit, and a variety of functions to support imaging. Introducing FDR D-EVO II, now even smarter.

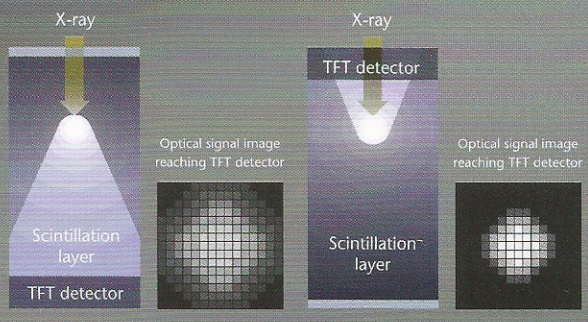
- Designed to be lightweight; only 2.6 kg* with replaceable battery *14"×17" model
- Loaded with internal memory that allows detector-only image storage
- Antibacterial, waterproof, and load resistant performance for peace of mind during use
- LED indicators on detector edge confirm center location and distinguish multiple detectors in department
- The rounded form of the detector edges makes handling and patient positioning easy



Fujifilm's exclusive technology for achieving high resolution and low dosing

1. ISS system reading technology promotes high sensitivity

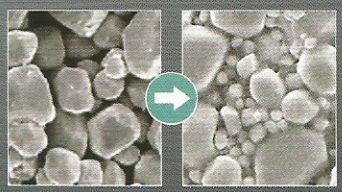
Equipped with an indirect conversion system flat detector display using ISS, which bonds optical sensors (TFT) to the X-ray irradiation side unlike traditional flat detector displays. This greatly suppresses scattering and attenuation of X-ray signals, creating sharp images with low doses of X-rays.



Conventional method　　ISS system reading technology

2. Blending large and small phosphor particles at an optimal ratio

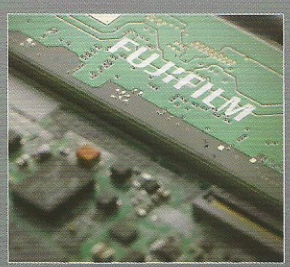
Increased X-ray absorption through our uniquely designed scintillator, which applies photographic film technology to optimize the blending ratio of phosphor particles of different sizes.

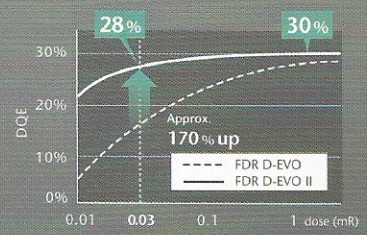


Blending optimally-sized phosphor particles in gaps

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

The uniquely developed noise reduction circuit reduces noise in the image. It achieves 1.7 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.



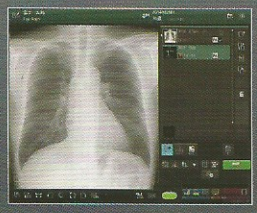


With additional major increases in sensitivity in low-concentration regions (heart, mediastinum)

4. 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.

Image Intelligence



Versatile functionality for a variety of clinical environments packed into a lightweight body. Superior mobility allows use in a variety of medical settings, including outdoors.

2.6 kg*1 lightweight body

Designed to be lightweight, weighing only 2.6 kg (with battery) through the magnesium-alloy shell-type frame (SRM*2 frame). Can easily be placed behind a patient.

*1: 14″×17″model
*2: Shell-shape with rib magnesium-alloy

One-handed battery replacement; launches in 30 seconds

The battery can be changed with one hand, and the device is ready to image within 30 seconds of the replacement. This eliminates worries about battery life and stress when changing batteries.

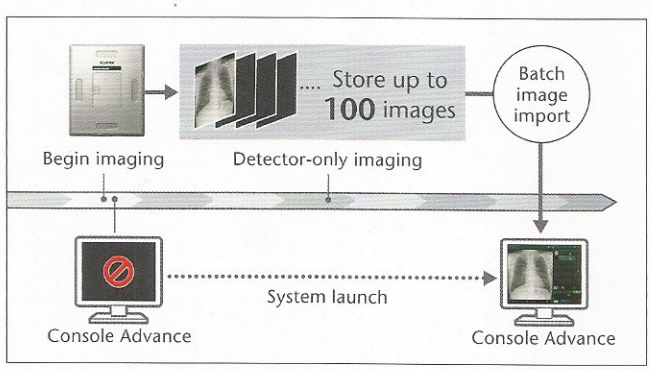
Suitable for outdoor use with an expanded spectrum

Supports 2.4 GHz and 5 GHz (W52/53/56/58)* spectrum. Suitable for outdoor use during disasters.

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

Allows detector-only image storage

The detector itself can store up to 100 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.



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.

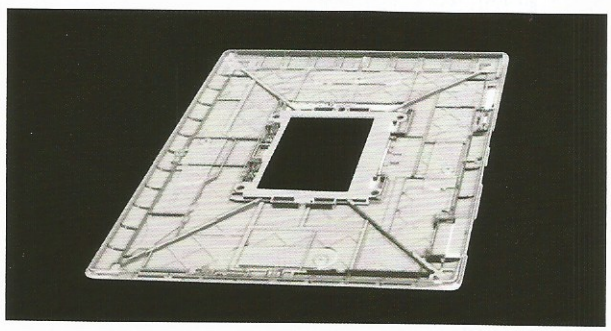
Easy-to-clean flat shape

Introduces a flat design with few contours.
This makes it easy to clean, promoting more efficient work.

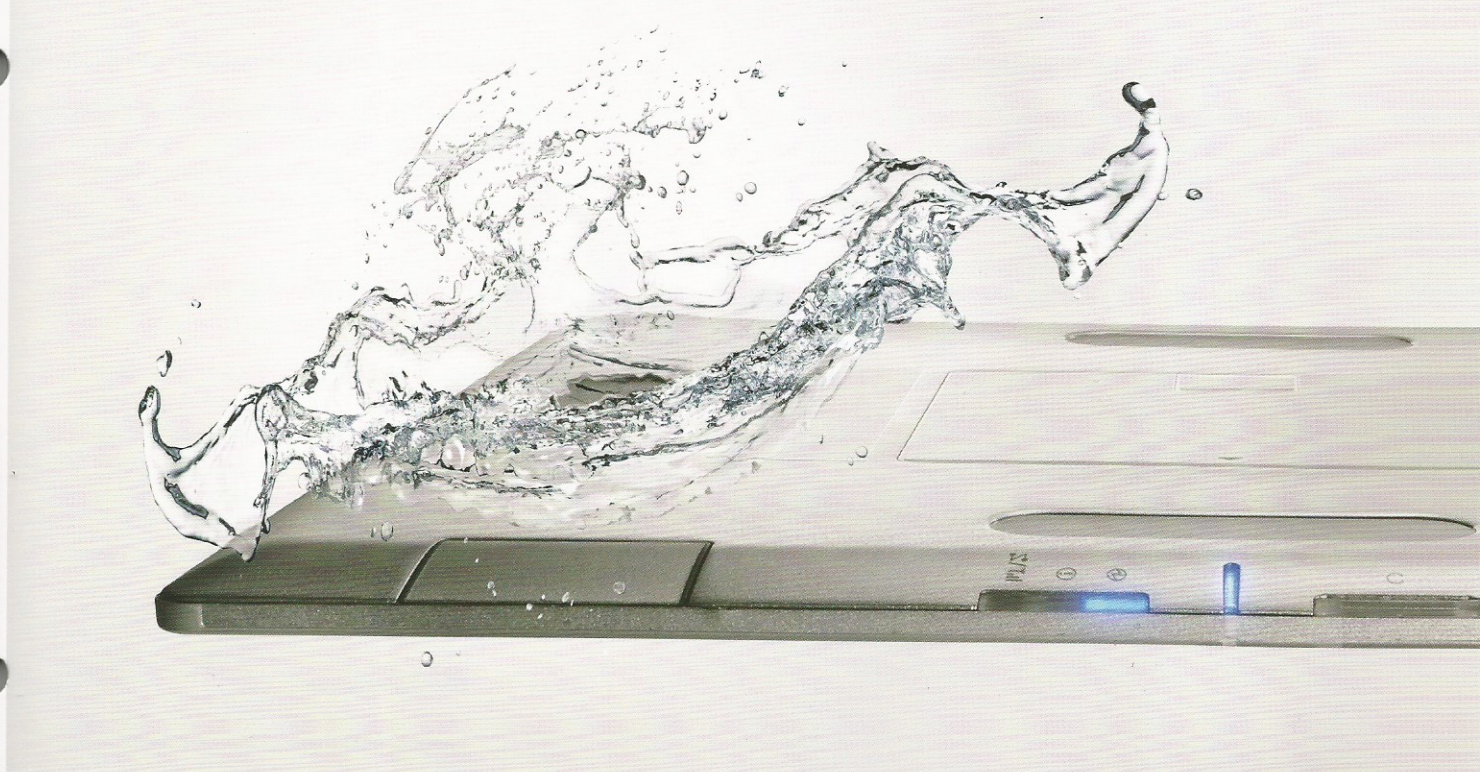
A frame structure that increases durability — 310 kg load capacity

The innovative SRM* frame realizes a lightweight design combined with a 310 kg load capacity on all surfaces by reinforcing the frame internally with ribs. This also improves the flex resistance of the display detector.

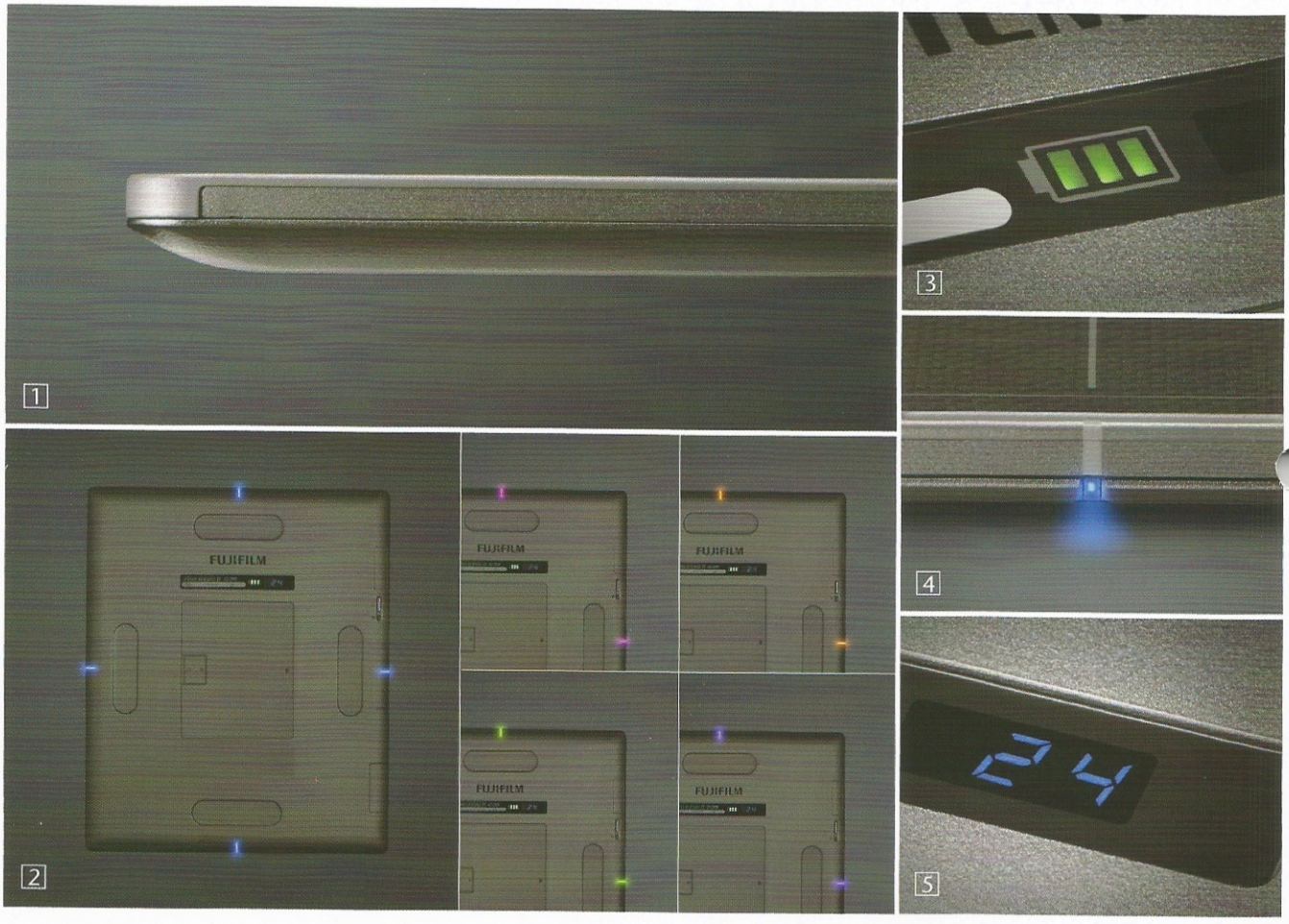
*Shell-shape with rib magnesium-alloy



Combines high-level sanitation, waterproofing, and durability for additional peace of mind even in the tough medical environments.



Pursuing ease of use through versatile functionality



1 Improved insertion through shell design

The shell design, with its curved sides, allows for easier insertion into patient beds. The easy-to-grasp shape allows for easy pick up even when placed flat, improving task efficiency.

2 Five-colored side-center LEDs to improve distinguishability

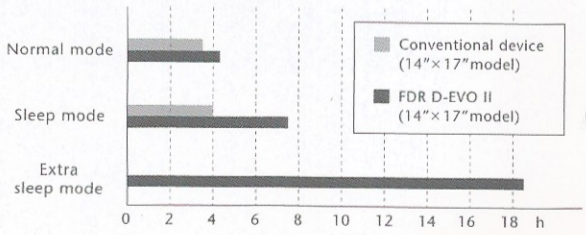
Equipped with LEDs at the center of each of the four sides of the detector that makes it easy to check the center position during imaging. Select from five colors (blue, pink, orange, lime-yellow, and purple) that make it easier to distinguish devices when using multiple detectors. In sleep mode, the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

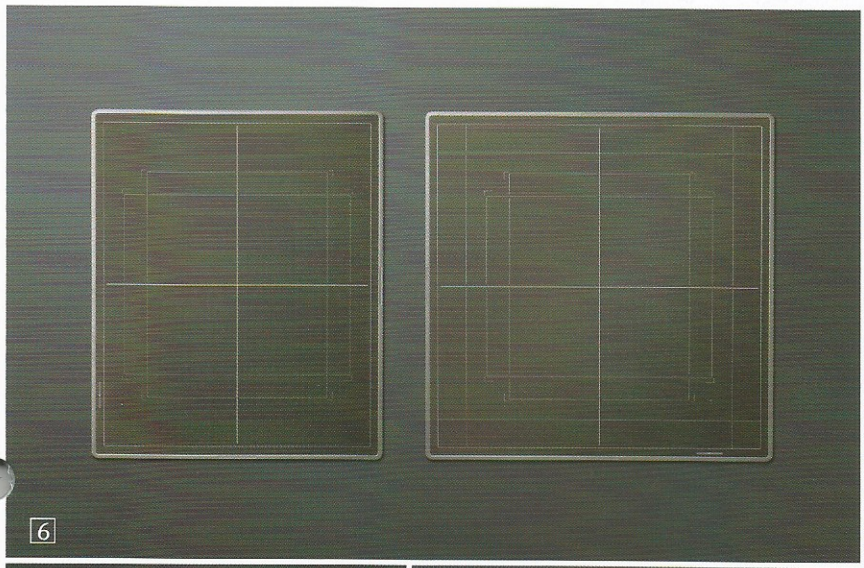
3 Easy-to-see LED status display

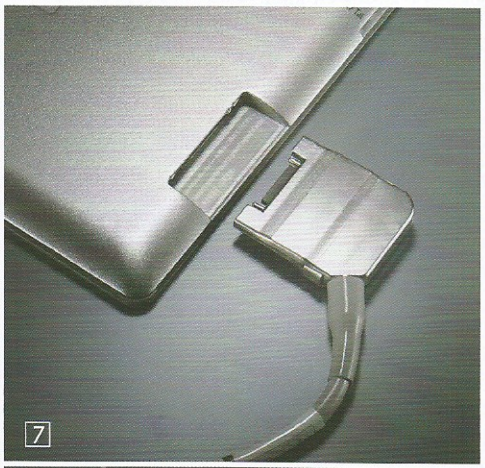
The back of the detector is equipped with an LED lamp that displays remaining battery status. This allows easy checks of remaining battery, and eliminates worries when using the detector.

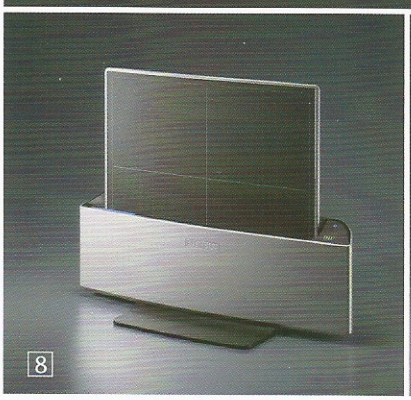
4 Maximum 18.5 hours of standby time with the new sleep function

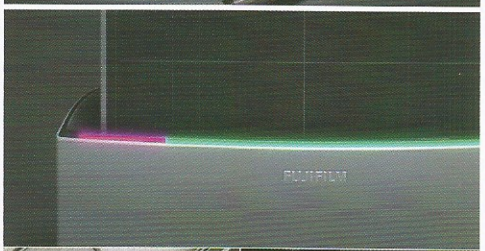
The sleep mode provides a maximum 7.5 hours of standby time, whereas the newly added extra sleep mode provides up to 18.5 hours of standby time. In sleep mode, the center LED on the side of the detector flashes slowly to indicate the detector status at a glance.

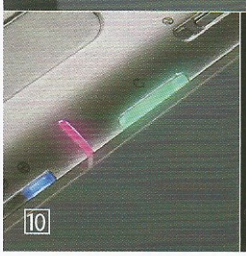


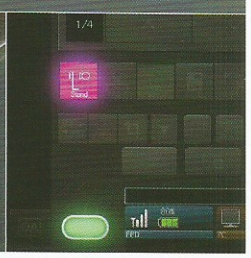












5 LED Indicator for Memory Images

The number of images stored in the built-in memory is displayed on the LED indicator next to the power indicator. It displays the number of images taken even when the detector is used alone.

6 2 sizes for different radiography positions and uses

Includes two detector sizes, 14″×17″ and 17″×17″. Detectors can be selected according to the radiography target and scenarios.

7 Flexible selection of wired or wireless connection

Select whether to use a wired or wireless connection freely according to the scenario, such as indoor or outdoor use.

8 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.

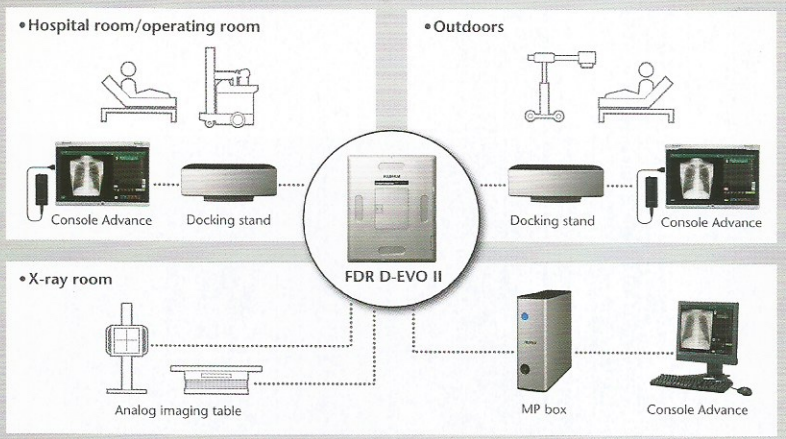
9 Stylish, unified design

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.

10 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.

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.

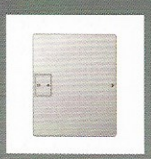
SmartSwitch

Specification


	FDR D-EVO II G35	FDR D-EVO II G43
Model name		
Type	Cassette size detector with ISS (Irradiation Side Sampling system)	Cassette size detector with ISS (Irradiation Side Sampling system)
Scintillator	GOS (Gadolinium oxysulfide)	GOS (Gadolinium oxysulfide)
Detector external size	460 × 384 × 15 mm (Approx.) [18" × 15" × 0.6"]	460 × 460 × 15 mm (Approx.) [18" × 18" × 0.6"]
Weight	Approx. 2.6 kg [5.7 lbs.] (including battery)	Approx. 3.2 kg [7.1 lbs.] (including battery)
Pixel pitch	0.15 mm	0.15 mm
Pixels	2836 × 2336 pixels	2836 × 2832 pixels
Wireless standard	IEEE 802.11n (2.4 GHz, W52/W53/W56/W58)	IEEE 802.11n (2.4 GHz, W52/W53/W56/W58)
Image preview	Less than 2 sec	Less than 2 sec
Cycle time	Less than 9 sec (wired) Less than 10 sec (SmartSwitch)	Less than 9 sec (wired) Less than 10 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 performance	Standby: Approx. 4 hours Sleep mode: Approx. 7 h 30 min Extra sleep mode: Approx. 18 h 30 min	Standby: Approx. 4 hours Sleep mode: Approx. 7 h 30 min Extra sleep mode: Approx. 18 h 30 min

Optional parts


Battery charger


Battery


Fujifilm AP

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For details on their availability, contact our local representative.
Please contact FUJIFILM's authorized distributor for FDR D-EVO II X-ray system.

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