FUJIFILM
Value from Innovation

FDR ES II C35 | C43 | C25

Digital Radiography Detectors



The essentials of Fujifilm's high sensitivity acquisition technologies and refined image processing

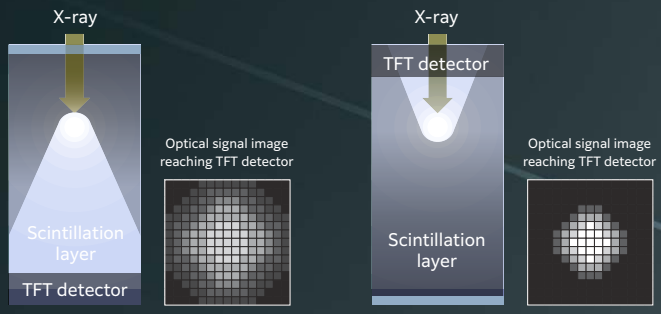
Intelligent Core Technologies for Clarity and Confidence

Fujifilm's exclusive technologies achieve high resolution with ultra-low dose

ISS image capture technology promotes high sensitivity

Equipped with Fujifilm's proprietary Irradiated Side Sampling (ISS) technology, which positions its capture electronics (TFTs) at the irradiation side, in contrast to traditional detectors. This design significantly suppresses scattering and attenuation of x-ray signals, improving efficiency to produce sharper images at lower doses compared to traditional designs.*

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



Noise Reduction Circuitry improves detector sensitivity in high absorption regions

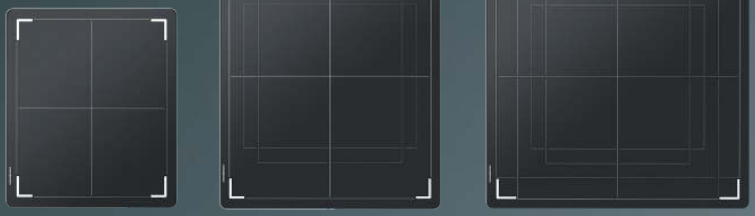
A unique Fujifilm innovation in noise reduction circuitry maximizes signal strength to improve image quality in high absorption areas. This enhancement achieves 1.7 times the DQE of previous models, with as little as 0.03mr dose. Visibility of dense areas such as the heart and mediastinum are greatly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

AED Technology

Automatic Exposure Detection (AED) technology uses automatic X-ray detection to acquire images without a wired connection between the X-ray generator and detector. The detector automatically senses exposure to activate for the image capture.

Preview Less than **2 sec**

Display Less than **6-9 sec**



■ 10″× 12″ model
FDR ES II C25
(CsI detector)

■ 14″× 17″ model
FDR ES II C35 (CsI detector)

■ 17″× 17″ model
FDR ES II C43 (CsI detector)



Built for demanding healthcare environments

Built for reliability in demanding clinical settings. The frame structure enhances durability with a 660 lbs. load capacity, while IPX3 waterproofing and an easy-to-clean flat shape facilitate cleanliness and infection control.



Battery status display

The side-mounted LEDs provide convenient battery status.

Battery status	Battery available without wired charging	Battery available with wired charging
100 %	— — —	— — —
40 - 99 %	— — —	— — —
20 - 39 %	— —	— —
5 - 19 %	—	—
1 - 4 % (Not usable)	—	—

— lamp — Flashing

Power switch

The power switch turns the panel to a sleep mode to conserve energy when not in use.

Status indicators

LED lights provide power, device operation, and connectivity status.



1 **Device status**
Lit in green when the detector is ready for X-ray exposure

2 **Power status**
Lit in blue when the device is on

3 **Issue alert**
Lit in orange when there is an issue

4 **Connectivity**
Lit in white when the detector is connected with the FDX Console

Magnetic SE Cable*

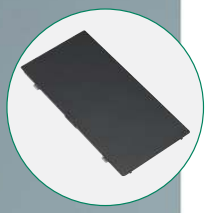
For tethered connection, the magnetic SE cable facilitates simple operation and prevents damage and ingress of fluid or dust.





Simple battery replacement*

The battery can be replaced with one hand and the detector is ready to image again in 30 seconds.







* Accessories included with FDR ES II vary by package.

Advanced image processing

Virtual Grid

Virtual Grid intelligent image processing corrects for the effects of scatter radiation while retaining high contrast and sharpness. It improves patient comfort, simplifies positioning, and allows for as much as 50% lower dose compared to grid exams.

Virtual Grid


No Grid


Virtual Grid


Real Grid

Multiple exam types supported


Abdomen


Cervical Spine


Thoracic Spine


Lumbar Spine

Dynamic Visualization II

Advanced processing adjusts density and contrast display based on anatomic structure, hardware, and body thickness throughout the entire exposure field.

Dynamic Visualization II


Conventional Processing


Dynamic Visualization II


Conventional Processing


Dynamic Visualization II

Specification

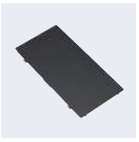
Product name	FDR ES II C35	FDR ES II C43	FDR ES II C25
			
Model number	**DR-ID 1283SE**	**DR-ID 1284SE**	**DR-ID 1285SE**
Scintillator	CsI (Cesium iodide)	CsI (Cesium iodide)	CsI (Cesium iodide)
Detector external size	460 × 384 × 15 mm (Approx.) [18" × 15" × 0.6"]	460 × 460 × 15 mm (Approx.) [18" × 18" × 0.6"]	333 × 282 × 15 mm (Approx.) [13" × 11" × 0.6"]
Weight	2.9 kg (Approx.) [6.4 lbs.]	3.7 kg (Approx.) [8.15 lbs.]	1.7 kg (Approx.) [3.75 lbs.]
Pixel pitch	0.15 mm	0.15 mm	0.15 mm
Pixels	2836 × 2336 pixels	2836 × 2832 pixels	1980 × 1648 pixels
Wireless standard	IEEE 802.11n, IEEE 802.11ac (2.4GHz, W52/W53/W56/W58)	IEEE 802.11n, IEEE 802.11ac (2.4GHz, W52/W53/W56/W58)	IEEE 802.11n, IEEE 802.11ac (2.4GHz, W52/W53/W56/W58)
Image preview	Less than 2 sec (wired/wireless)	Less than 2 sec (wired/wireless)	Less than 2 sec (wired/wireless)
Cycle time	Less than 9 sec (wired/wireless) Less than 10 sec (AED:wired) Less than 10.5 sec (AED:wireless)	Less than 10 sec (wired/wireless) Less than 11 sec (AED:wired) Less than 13 sec (AED:wireless)	Less than 9 sec (wired/wireless) Less than 9 sec (AED:wired) Less than 9 sec (AED:wireless)
Battery recharging time	Approx. 3 hours (with battery charger) Approx. 4.5 hours (with MP box/Power-Box)	Approx. 3 hours (with battery charger) Approx. 4.5 hours (with MP box/Power-Box)	Approx. 3 hours (with battery charger) Approx. 4.5 hours (with MP box/Power-Box)
Battery performance	Over 3 hours and 200 shots with fully charged battery	Over 3 hours and 200 shots with fully charged battery	Over 3 hours and 200 shots with fully charged battery

Accessories


MP box
(DR-ID 1280MP)


Battery charger
(Li-polymer BATTERY CHARGER)


Power-Box
(DR-ID 1280PB)


Battery Pack
(Li-Polymer Battery Pack)


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81 Hartwell Avenue, Suite 300, Lexington, MA 02421
fujifilmhealthcare.com

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YOUR AUTHORIZED FUJIFILM DEALER
MRS Medical & Radiology Services, Inc.
(305) 898-3408 | info@mrsdigitalxray.com
www.mrsdigitalxray.com

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