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## ***FDR ES II*** C35 | C43 | C25

Veterinary Digital Radiography Detectors



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

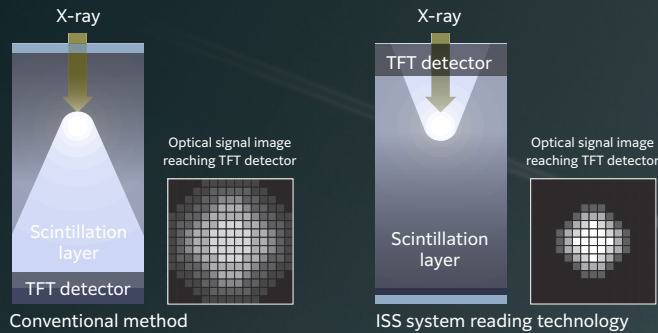
# Intelligent Core Technologies for Clarity and Confidence

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



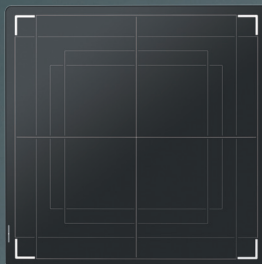
■ 10" × 12" model

FDR ESII C25  
(CsI detector)



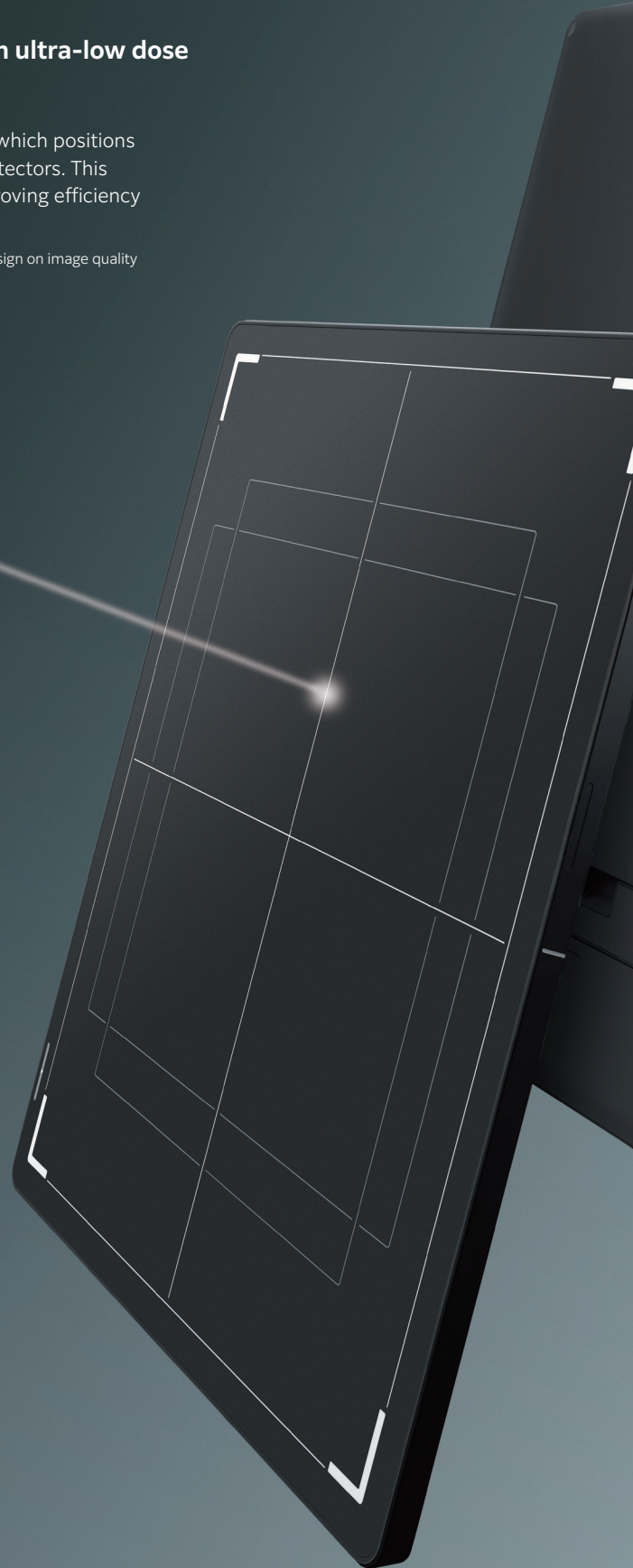
■ 14" × 17" model

FDR ESII C35 (CsI detector)



■ 17" × 17" model

FDR ESII 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

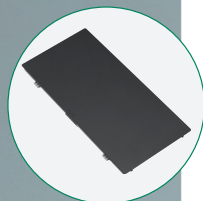
## Magnetic SE Cable\*

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.

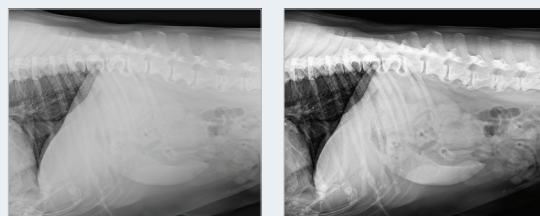


\* Accessories included with FDR ES II vary by package.

## Advanced image processing

### Virtual Grid

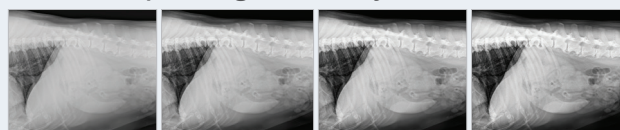
Virtual Grid intelligent image processing corrects for the effects of scatter radiation while retaining high contrast and sharpness. It improves patient comfort, simplifies positioning, and allows for as much as 50% lower dose compared to grid exams.



No Grid

Virtual Grid

Choose the optimum grid ratio for your evaluation needs



1 : 1

3 : 1

6 : 1

9 : 1

### 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

## Specification

	FDR ES II C35	FDR ES II C43	FDR ES II C25
Product name			
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



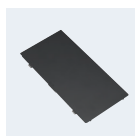
MP box  
(DR-ID 1280MP)



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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### For more information or sales inquiry contact

FUJIFILM Healthcare Americas Corporation

(203) 951-8691

@ fmsalesinquiry@fujifilm.com

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