FDR D-EVO plus C35i/s

A novel cassette which allows more precise examinations with greatly reduced burden on patients

The New Flat Panel Detector achieves sharper images and more efficient X-ray conversion.

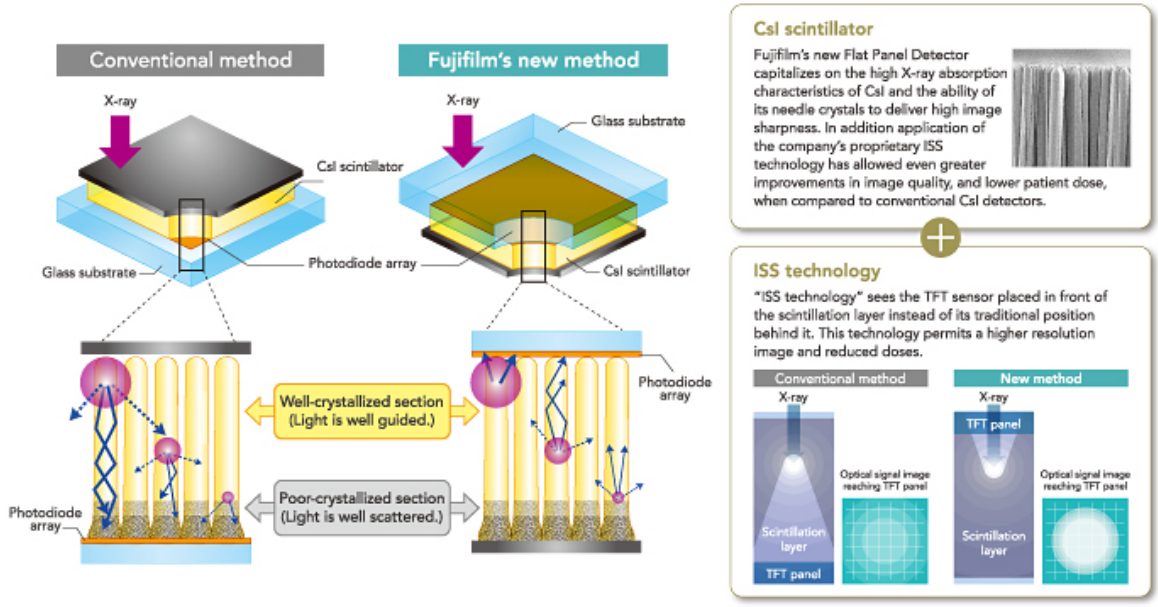
Overview Features Specifications

Features

New Flat Panel Detector

An outstanding technology achieves sharper images and more efficient X-ray conversion

The novel type CsI:TI FPD, combining an adhesively coupled structure with ISS method, exhibits significant improvement in image quality than conventional CsI:TI FPDs and provides a way to reduce X-ray exposure to the patient.



ISS + CsI method demo (FLASH VIDEO : 6.2MB)

The world's first “SmartSwitch” technology

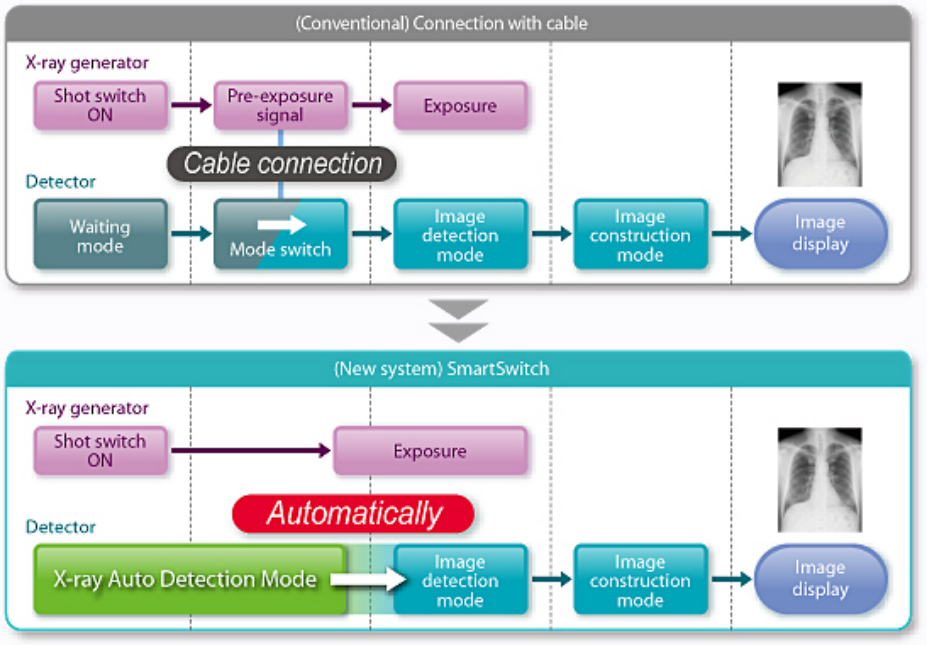
Fujifilm developed a new technology “SmartSwitch” which allows

automatic X-ray detection. With “SmartSwitch,” FDR D-EVO no longer requires connection between the X-ray generator and DR power supply unit to automatically detect X-rays and start image creation.

SmartSwitch

Mechanism of “SmartSwitch”

In X-ray Auto Detection Mode, DR cassettes detect X-rays at the time of exposure and automatically enter the image detection mode and then the image construction mode.



Enhanced image processing — Fujifilm's proprietary technology guarantees high image quality

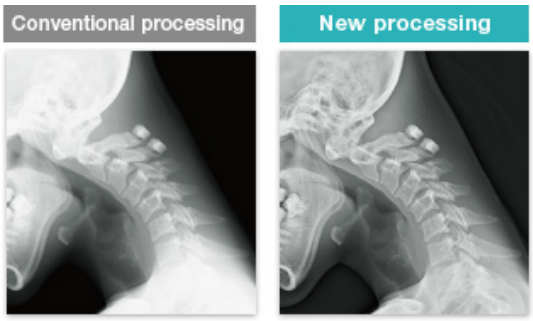
Dynamic visualization

Constantly endeavoring to provide the highest image quality, Fujifilm offers a proprietary technology to produce the optimal image for each examination. With the enhanced visibility achieved by this technology, information in greater detail can be obtained from images.

Image Intelligence™

New dynamic range control

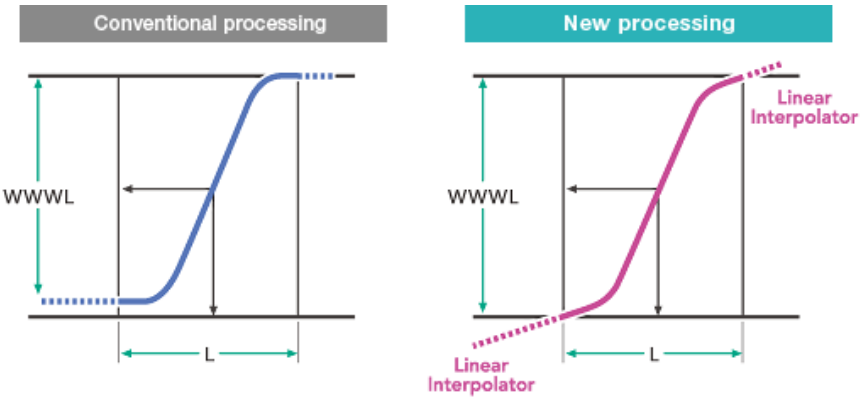
This new approach is designed to take full advantage of DR's dynamic range capabilities. Fujifilm has created a new full spectrum optimization with dynamic-range control processing. This processing fully utilizes all of the exposure data captured and optimizes its image recognition output. Enhancing visualization of the entire image within the exposure field, even significantly clarifying overexposed and underexposed areas. The effect can be adapted to CR images as well. Allowing clearer detail images regardless of a type of detector.



New gradation display optimization

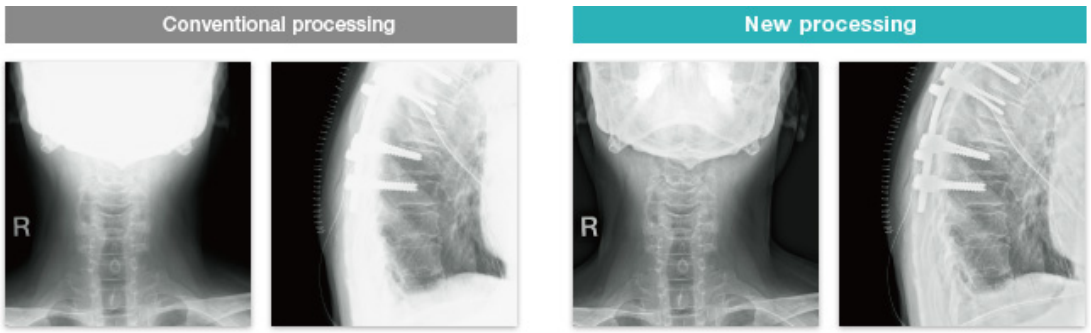
This new processing is designed to maintain the highest contrast possible for the region of interest achieving even wider latitudes than traditional processing, by combining with a new and more enhanced gradation display look up table (LUT) which intelligently optimizes the monitor's display characteristics. This innovative image display optimization has been built to enhance diagnostic viewing with just about any display on the

market. Providing easy-to-interpret and rich gradation.



New enhanced menu parameters

Compared to film, display monitors have narrower dynamic range and sharpness. Through an in-depth analysis of conventional image processing parameters, we developed a brand new set of automated menu parameters specifically designed to improve sharpness, contrast, and latitude for every anatomic menu. These new parameters enable the best possible first up display for every exam.



Fujifilm's proprietary technology guarantees high image quality

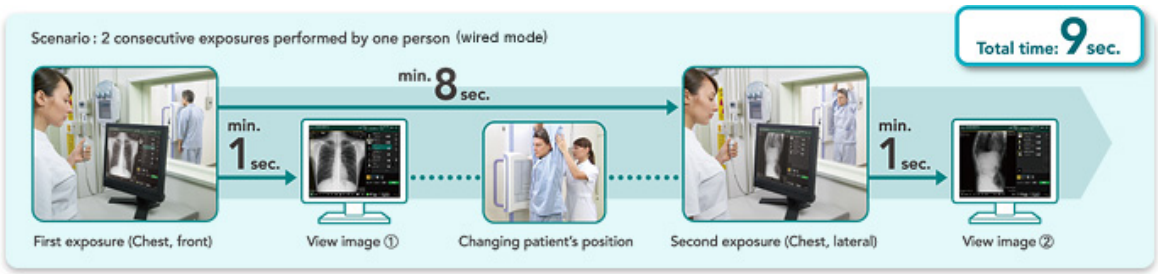
“ISS technology” sees the TFT sensor placed in front of the scintillation layer instead of its traditional position behind it. This technology permits a higher resolution image and reduced doses.

ISS (Irradiation Side Sampling) method

Fast imaging — rapid display of images and automatic trimming ensure smooth examinations

Speedy display of images greatly shortening examination time

It just takes one second to display the preview image after an exposure and the inter-exposure time in a minimum of 8 seconds. Quick re-exposure is also possible, with no need to have patients wait. High throughput is realized, reducing the examination time significantly.



Automatic image trimming to the appropriate size

X-ray field recognition for an image and image trimming to an appropriate size are performed automatically. With easier editing procedures, images in sizes most suitable for diagnosis are provided.

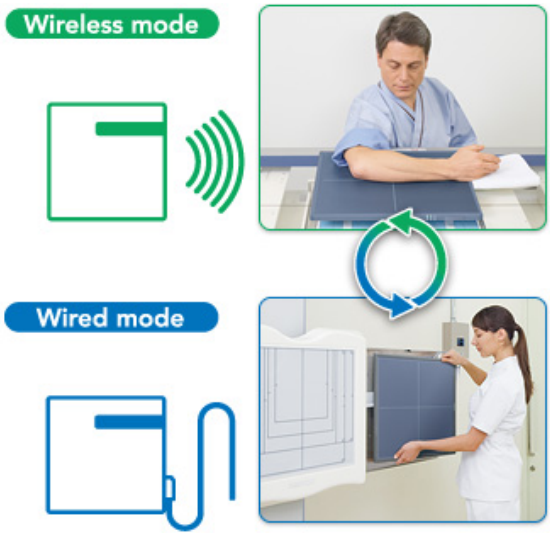
Wireless* — maximized operability with wireless mode suitable for a wide range of exposure situations (*only with C35i)

Two selectable modes according to the examination environment

Easy and rapid switching between modes is available as required, dependent on examination type. The mode is automatically switched in only 1 sec. by detaching or attaching the cable.

Wireless mode enables free positioning with easy handling. When used as a wireless portable type, table-top exposures are easily performed, allowing exposure situations to be expanded.

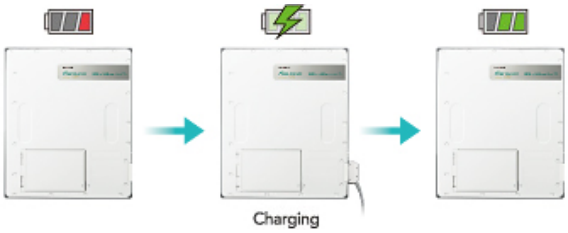
With the cable attached, the battery in the cassette can be charged. X-ray procedures run smoothly without any worry about the state of the battery.



Battery charging methods suitable for various environments

Wireless mode

By charging the extra battery pack with the designated charger, the battery can be quickly replaced whenever needed, allowing the X-ray procedures to be performed without interruption. The battery lasts about 3.5 hours. The charger is common in the FDR D-EVO series.



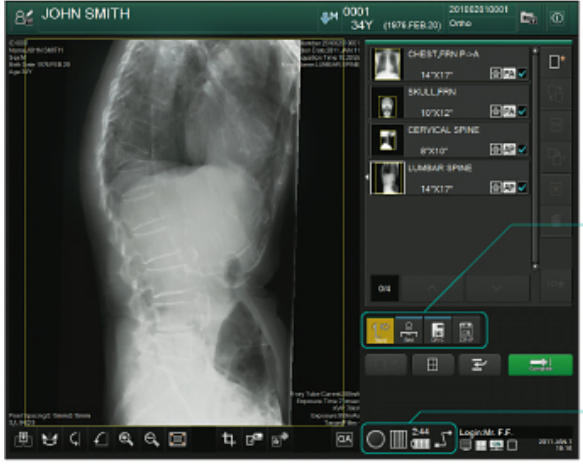
Wired mode

With the SE cable attached, the battery used in the cassette can be charged. Even if the battery level becomes low in the wireless mode, X-ray procedures can be carried out without interruption by attaching the cable. The SE cable is common in the FDR D-EVO series.

New CONSOLE ADVANCE with enhanced functions for the FDR D-EVO series

The sophisticated design of the GUI contributes to the safe, comfortable and efficient performance of all radiographic examinations

In addition to the familiar basic operation, new gradation design monitor and the intuitive arrangement of operation buttons make it possible to check and confirm information quickly and accurately. The image display area on the display monitor is larger, and enables easy checking of diagnostic images. An optional touch panel monitor ensures quick and accurate operation.



Technique select buttons
Connected modalities are displayed using color coded buttons, enabling the radiographer to easily confirm the modality selected. By simply selecting a button, the modality can be changed quickly and accurately.

Status display for D-EVO
The icons for the D-EVO are a new feature. When D-EVO is used it is possible to confirm its status; charge level, WiFi connection etc.
(*Only with FDR D-EVO C35i)

CONSOLE ADVANCE

CONSOLE ADVANCE controls both the FDR D-EVO series and FCR, providing a consistent user interface

Both FDR D-EVO and FCR readers can be connected simultaneously thus reducing space requirements in the X-ray room.

Workflow is streamlined by removing the need for duplication of data entry.

Utilizing a common set of processing algorithms, consistent results are produced from both FCR and FDR D-EVO allowing for easier image management.

System Configuration Example (FDR D-EVO plus C35i)