FDR Visionary Suite Specifications

### X-ray Generator
- Rated output: 50 kW / 65 kW / 80 kW
- Tube voltage: 40 to 150 kV
- Tube current: 10 to 630 mA (50 kW model)
  10 to 800 mA (65 kW model)
  10 to 1000 mA (80 kW model)
- AEC: X-ray detector type phototimer receiver
- Combination up to three receivers

### X-ray Tube Support
- Ceiling fixtures: Fixed rail of 4 / 5.5 m
  Mixing rail of 2 / 6 / 13 m
- Movement range:
  - Longitudinal: 2.05 m (4 m fixed rail)
  - Longitudinal 4.45 m (5.5 m fixed rail)
  - Transversal: 1.4 m (2 m moving rail)
  - Transversal 2.9 m (2.6 m moving rail)
  - Transversal 2.7 m (3.3 m moving rail)
- Vertical 4.6 m
- Rotation: Vertical axis: ±180°
  Horizontal axis: -180° to +120°

### X-ray Tube Unit
- Maximum anode heat content: 400 kHU
- Maximum anode heat dissipation rate: 2200 HU/s
- Focal spot: 0.6 / 1.2 mm

### Collimator
- Filtration:
  - Inherent filtration: 1.1 mmAl eq.
  - Added filter of Cu 0.1 / 0.2 / 0.3 mm
- Standard accessories: Auto Filer
- Line marker
- Detent (fixed at the home position)
- Area diaphragm adapter (Option)
- An adapter for diaphragm manufactured by VACUTEC/PTW

### Table
- tabletop size: 810 × 2350 mm
- table height: 535 to 930 mm
- longitudinal range: ±375 mm
- transversal range: ±125 mm
- Bucky moving range: 800 mm
- max. load: 295 kg
- standard accessories: Tracking device
  - Bucky tracking device
- Options:
  - Compression belt
  - Side cassette holder
  - Grip switch
  - CFR tabletop
  - Hand grip
  - Stop switch
  - Rear foot switch

### Stand
- Distance between Bucky top edge and floor surface:
  - Manual: 643 to 2143 mm
  - Motorized: 671 to 2113 mm
- Tilting angle (Function for BR-120T):
  - -20° to 90°
- Standard accessories: Tracking device
- Stop switch
- Foot switch
- Options:
  - Hand grip (mounted on top edge of the Bucky)
  - Hand grip (mounted on back side of the Bucky)
  - Cassette holder
  - Front handle
  - Both side operation
  - Compression belt
  - Patient stand (for long view radiography)
  - Wall mounting option (for BR-120)

### FDR D-EVO Advanced C43A Specifications

- Scintillator: Cd
- Detector external size:
  - 464.5±1(W) × 516.7±1(D) × 18±1(H) mm
  - excluding convex part of the cable
- Weight: Approx. 4.3 kg (including battery)
- Pixel size: 150 µm
- Maximum detecting area: 2816 × 2816 pixels
- Image preview: less than 2 sec
- Cycle time: less than 8 sec
Using the latest technological developments to allow further quality improvements with a low operational dose rate.

1. Using Fujifilm’s “ISS method” reading technology to achieve sharper images

In contrast to conventional FPD offerings this system features an indirect conversion FPD using the “ISS method,” where the TFT sensor is placed in front of the scintillation layer instead of behind it. With this proprietary method, the scattering/dissipation of X-ray signals is significantly reduced, achieving sharper images with a lower X-ray dose.

2. Improved sensitivity in low-density areas using noise reduction circuitry*

Image noise is reduced by using a proprietary noise reduction circuitry. Granularity in low-density areas is improved, helping to boost image quality.

3. Image processing technologies producing optimized images

The system features imaging processing technologies that enable desirable image display. These technologies include “Dynamic Visualization,” which optimizes images for diagnosis on-screen, and “Flexible Noise Control (FNC) Processing,” which reduces granularity by automatically extracting and excluding image noise components.

Freedom and Flexibility in Imaging

Experience a wide range of applications targeted to improve diagnostic capabilities combined with a precise design that facilitates imaging.

With unique image processing functions that enhance quality while reducing the operational dose rate, the FDR Visionary Suite is the next generation in functional X-ray systems — offering ease of operation with minimal impact for patients.

Compatibility with a Broad Range of Cassette DR Panels Ensures Maximum Flexibility

Wide Array of Applications Support Diagnosis

Tomosynthesis  Energy Subtraction  Long View Imaging

Stress-free, Optimized Imaging Workflow
Multiple Panel Combinations and Variations

It is possible to select the ideal imaging method for each examination and site requirement by selecting from a broad range of panel sizes and types.

[ Full Function Model ]
With cutting-edge optional technologies such as Tomosynthesis, additional imaging information can be provided, further improving diagnostic capabilities.

* These applications are optional.

[ Standard Model ]
This model is capable of a wide-range of general radiography imaging, including long view imaging and an Auto positioning option, enabling optimized workflow.

Panel Name/Panel Type
Scintillator
Size
Applications*
Cassette Tray

<table>
<thead>
<tr>
<th>Panel Name</th>
<th>Panel Type</th>
<th>Scintillator</th>
<th>Size</th>
<th>Applications*</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDR D-EVO Advanced C43A</td>
<td>CsI</td>
<td>43×43cm</td>
<td>Tomosynthesis, Energy Subtraction, Long View Imaging</td>
<td></td>
</tr>
<tr>
<td>FDR D-EVO plus C35i</td>
<td>CsI</td>
<td>35×43cm</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>FDR D-EVO G43i</td>
<td>GOS</td>
<td>43×43cm</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>FDR D-EVO G35i</td>
<td>GOS</td>
<td>35×43cm</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>FDR D-EVO plus C24i</td>
<td>CsI</td>
<td>24×30cm</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

* These applications are optional.

Wide Range of Applications That Contribute to Improving Diagnostic Capabilities

Tomosynthesis*
Freedom to reconstruct and display image slices
With this technology the X-ray tube moves through an arc, acquiring a series of images in a single sweep, which can then be reconstructed to create cross-sectional image slices.

Automatic X-ray dose control and background reconstruction
Using the imaging conditions for a single preliminary image as reference, the conditions for Tomosynthesis imaging are set automatically.

Energy Subtraction*
Separates images of soft tissue and bone for improved viewing
This technology takes two X-rays, utilizing the difference in X-ray energy absorption to create specific images of soft tissue and bone, etc. The dose rate is changed automatically between shots.

Long View Imaging*
Display full-length images of spine or lower limb
This technology uses multiple images taken in one sweep and automatically stitches them to create images of wide area of up to 160cm upright and 120cm recumbent.

Controlling motion artifacts
Motion artifacts that may occur between exposures are suppressed by multiple resolution alignment processing, allowing for clear images of soft tissue and bone.

High-precision, high-quality imaging to 150µm
By controlling such items as metal artifacts, high-precision imaging down to 150µm is possible.

* These applications are optional.
Smoothly and Surely Ensuring a Stress-free Imaging Environment

**Completion of room preparation without touching the system**

The system features an auto-positioning function that moves the X-ray tube into position automatically. It is possible to pre-set and restore positions from the image guidance menu.

**X-ray stand**

A movable scope of 40 to 190cm from the center of the exposure makes it possible to take images of the entire lower limb from the cervical vertebrae down. The exposure platform can be adjusted from -20 to 90 degrees*, making it possible to take images of the head and upper limbs.

**X-ray table**

Using the foot switch and grip switch* it is possible to adjust the height quickly and easily between 53 and 85cm.

**Easily define the imaging position for each individual patient**

With the auto-tracking function the panel and X-ray tube are automatically kept in alignment, making it possible to focus on patient positioning and care. By switching between automatic and manual functions positioning can be simplified, allowing the operator to maintain full control.

**Radiation field linking function**

The pre-selected radiation field size for the area to be imaged is automatically set and alignment of the field to the upper or lower portion of the detector is also automatically performed.

**Setting made easy with an LCD touch panel**

The touch panel presents image-related information clearly and also enables settings to be changed easily. It is also possible to change the angle of the square LCD panel by 90 degrees to match the direction of the X-ray tube, making it easy to see at all times.

**“Sound and light” notifies those away from the machine when an X-ray is being taken**

“Ready up” and “X-ray in progress” notifications can be clearly understood by sounds and lights on the frame and hand switch. There is a choice of seven colors for the notification lights.

**Change conditions in the X-ray room using the touch panel**

All conditions can be changed using the LCD touch panel on the X-ray tube supporting arm, making it possible to set conditions in the X-ray room alone. The changed conditions are relayed in real time to the controller outside the X-ray room.

**Radiation field linking function**

The pre-selected radiation field size for the area to be imaged is automatically set and alignment of the field to the upper or lower portion of the detector is also automatically performed.

**Smoothly and Surely Ensuring a Stress-free Imaging Environment**

Provision of Easy-to-use Advanced Applications

1. **Imaging**
   - Determines the image position and takes an X-ray.

2. **Collection of images**
   - Imaging conditions are automatically calculated from the pre-shot and up to 60 images are collected.

3. **Images are reconstructed into slices**
   - Metal artifacts are suppressed to create a high-precision image.

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**Work flow 1**

**Tomosynthesis**

1. **Imaging**
   - Determines the image position and takes an X-ray.

2. **Collection of images**
   - Imaging conditions are automatically calculated from the pre-shot and up to 60 images are collected.

3. **Images are reconstructed into slices**
   - Metal artifacts are suppressed to create a high-precision image.

**Work flow 2**

**Image Stitching**

1. **Imaging**
   - The parameters to obtain an image of wide area are set and an exposure is performed.

2. **Collection of images**
   - Multiple images are taken automatically within the pre-set parameters.

3. **Automatic stitching**
   - Multiple images are stitched automatically. Disjoins in stitched images caused by patient body movements are also automatically corrected.
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- ** AEC:** X-ray detector-type phototimer receiver combination up to three receivers

## X-ray Tube Support
- ** Ceiling fixture:** Fixed rail of 2 / 2.6 / 3.3 m
- ** Movement range:** Longitudinal 2.85 m (4 m fixed rail) / Longitudinal 4.65 m (5.5 m fixed rail) / Transversal 1.4 m (2 m moving rail) / Transversal 2.0 m (2.6 m moving rail) / Transversal 2.7 m (3.3 m moving rail)
- ** Vertical 1.6 m
- ** Rotation:** Vertical axis ±180° / Horizontal axis ±180°

## X-ray Tube Unit
- ** Maximum anode heat content:** 400 kHU
- ** Maximum anode heat dissipation rate:** 2200 HU/s
- ** Focal spot:** 0.6 / 1.2 mm

## Collimator
- ** Filtration:** Inherent filtration 1.1 mmAl eq. / Added filter of Cu 0.1 / 0.2 / 0.3 mm
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# FDR D-EVO Advanced C43A Specifications

## Scintillator
- ** CsI Scintillator

## Detector external size:
- ** 464.5±1(W) × 516.7±1(D) × 18±1(H) mm
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- ** Approx. 4.5 kg (including battery)

## Pixel size:
- ** 150 µm

## Maximum detecting area:
- ** 2816 × 2816 pixels

## Image preview:
- ** Less than 2 sec

## Cycle time:
- ** Less than 8 sec

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**Specifications are subject to change without notice. All brand names or trademarks are the property of their respective owners. For details on availability, contact our local representative. Actual X-ray images are subject to conditions at the time of operation or other factors.**