

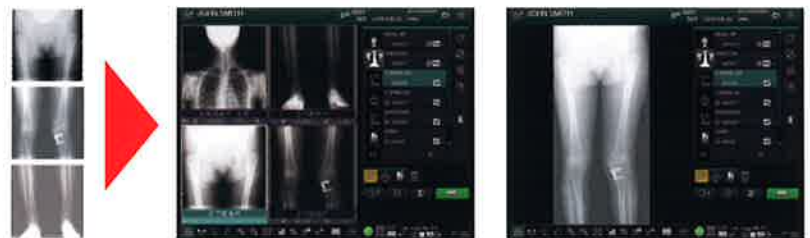
# FDR D-EVO Image Stitching

## Advanced solutions for long-length studies in digital imaging



Fujifilm's FDR D-EVO Image Stitching provides a comprehensive set of tools to simplify long length exams while taking advantage of the latest in FDR D-EVO portable DR detectors. Technologists and patients benefit from high quality, efficient examinations by this exclusive coupling of simplified manual positioning accuracy with the refined image optimization performance of our FDX Console and its automated DR image stitching processing.

This unique solution is designed to simplify the manual process of capturing separate DR images and simplify the accuracy of alignment for optimal results. With FDR D-EVO stitching, whole spine scoliosis and long-leg studies can now be attained with a portable DR detector with fast workflow and consistently impressive results. Thanks to Fujifilm's sophisticated automatic image stitching software and a well thought out patient positioning stand design, separately captured DR images are seamlessly stitched together.



FDR D-EVO auto stitching is based on the process of capturing 2 to 3 adjoining images by manually repositioning a single detector and the x-ray tube angle for each exposure.

Special alignment markers on the shield help the software



accurately identify alignment of one image to the next. The system also features Patient Movement Correction processing intelligently identifies and corrects mis-registration alignment for slight vertical or horizontal patient movements during the exam.

# Manual Positioning with Automatic Stitching

Fujifilm's Automatic Stitching Software for FDR D-EVO portable detectors enables the display of the entire spine or lower extremities as a single image.

Two Stands available – each allows accurate repositioning in just 2 workflow steps



## Mobile Stand with Detector Holder\*

Features first a motorized positioning of the shield and its detector holder, to the patient height. Then the detector holder is manually repositioned to any of its 3 quick release detent locations which perfectly align the correct amount of overlap for the auto stitching software.

### Positioning Steps:

- 1 Move detector to next detent
- 2 Rotate the tube angle



## Mobile Universal Shield\*

A shield only design, to position in front of any upright chest stand. Its shield is manually adjusted to patient height, then the detector bucky is manually aligned to the lines on the glass and/or pointers near the bucky, for each exposure.

### Positioning Steps:

- 1 Manually/visually align detector to shield markings
- 2 Rotate the tube angle

## Detectors

Stands are compatible with 14x17" or 17x17" detectors and our thin grid cap. All FDR D-EVO detectors feature Fujifilm's patented ISS, Irradiated Side Sampling uniquely designed to improve sharpness and dose efficiency.

## Image Area

Composes two to three individually captured images

- 14x17" detector (portrait orientation) captures a 14x33 or 14x48" field
- 17x17" detector captures a 17x33 or 17x48" field

## Auto-Stitching Software

Automatically merges images by aligning markers within the overlap areas of the images. Manual adjustments can also be applied.

## Dynamic Visualization

Dynamically optimizes contrast through the entire image, clarifies over and under penetrated areas and enhances window and leveling for PACS

## Stitch Correction

Automatically eliminates white banding of overlap areas.

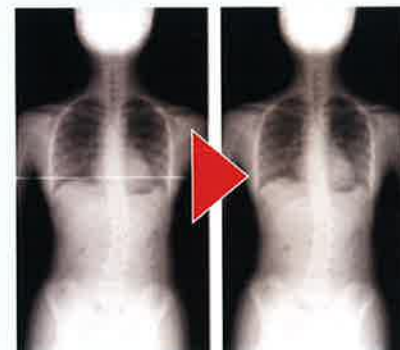
## Density Processing

Automatically smooths transitions in density from one image to the next.

## Patient Movement Correction

Intelligently adapts alignment for minor vertical or horizontal patient movements during the exam to help prevent need for retaking exposures. If amount of motion exceeds tolerance setting, a marker will be inserted on the image to alert the technologist to check the image to verify clinical acceptability.

## FDR D-EVO Image Stitching



Fujifilm's high sharpness, high dose efficiency FDR D-EVO detectors combined with comprehensive FDX Console imaging intelligence and this simplified positioning stand offers the perfect compliment to truly enable faster exam processing, higher diagnostic confidence and better patient care.

**FUJIFILM**

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\*U.S. Patents Pending

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