

## Advanced solutions for scoliosis and long-leg studies in digital imaging applications

Fujifilm features a comprehensive set of tools to automate scoliosis and long-leg studies with FCR. FCR's image stitching solutions minimize error and enhance workflow for technologists.

- ▶ Fujifilm Long View Cassettes
- ▶ Fujifilm Automatic Image Stitching Software
- ▶ Advanced Image Processing to optimize the Stitched Image

### Long View Cassettes

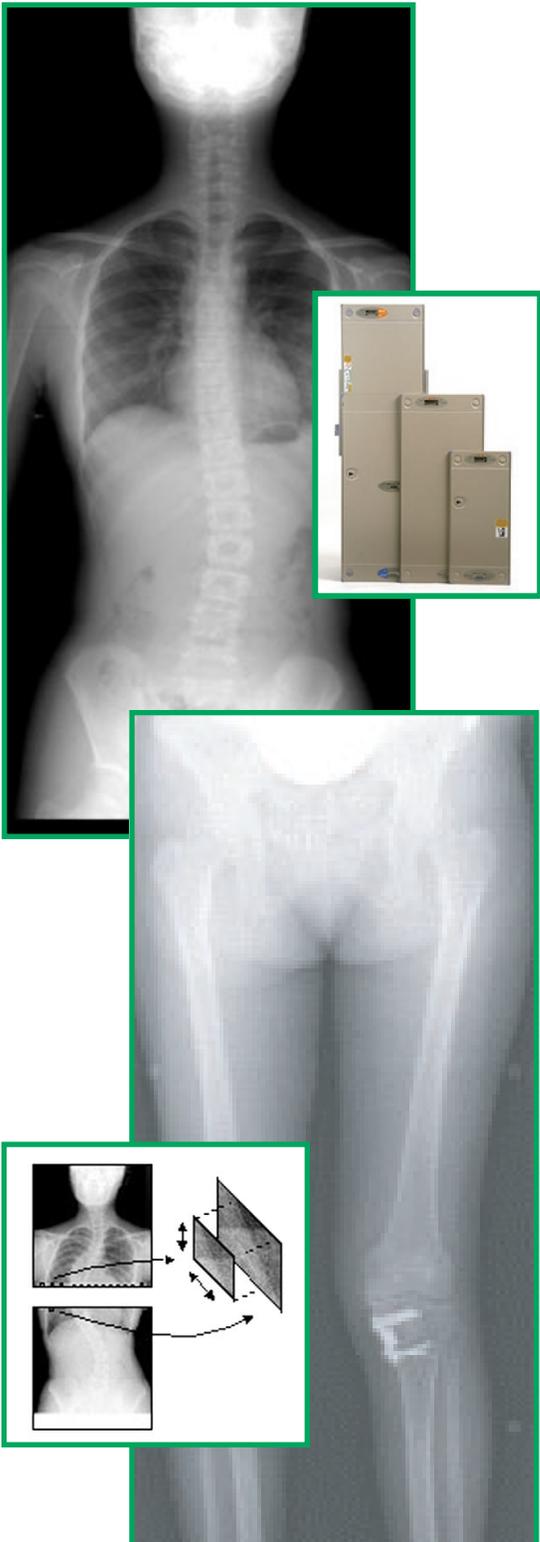
Fujifilm's 10"x24", 14"x34" and 14"x50" Long View Cassettes allow the imaging plates (IPs) to be loaded and processed in the FCR reader, without manually removing them from the cassette. The lightweight and simplified design makes it easy for technologists to perform specialized applications without interruptions. All cassettes use a patented design featuring latches at either end of the cassette to promote ease of workflow. Imaging plates (IPs) inside the cassettes overlap by 1" to ensure that no pathology is lost. The cassettes include markers which allow Fuji's stitching software to automatically compose images. Grids, wall stands and IPs are available separately from the cassette.

- ▶ **10"x24" cassette** consists of two interlocked 10"x12" cassettes and requires two 10"x12" IPs for use. Ideal for smaller patients.
- ▶ **14"x34" cassette** consists of two interlocked 14"x17" cassettes and requires two 14"x17" IPs for use. Excellent for most scoliosis applications.
- ▶ **14"x50" cassette** consists of a special 14"x17" cassette which can be inserted into a 14"x34" cassette and attached using a simple latch on either side for easy removal for processing. Three 14"x17" IPs are required for this cassette. Ideal for long leg studies or other applications where a wider view is required.

### Automatic Image Stitching Software

Fujifilm's Automatic Image Stitching Software enables display of the entire spine or lower extremities on a single image.

- ▶ Composes up to three individual images
- ▶ Automatically merges images together by aligning markers on the image. Manual adjustments can be applied if necessary.
- ▶ Image processing is applied to optimize resulting image display.
- ▶ Simply select the proper menu and the Flash IIP console Autostitch software can take care of the rest

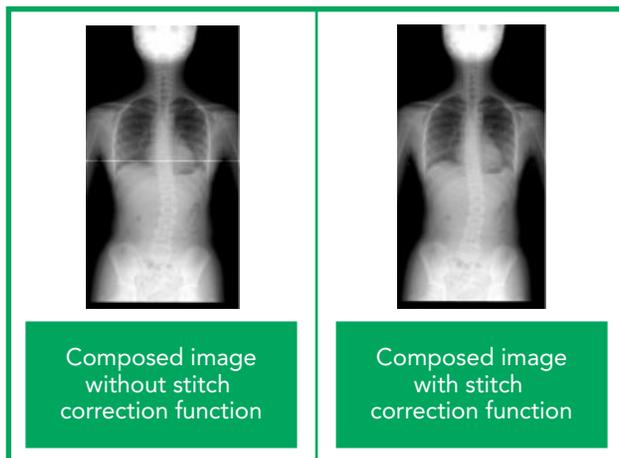




## Advanced Image Processing

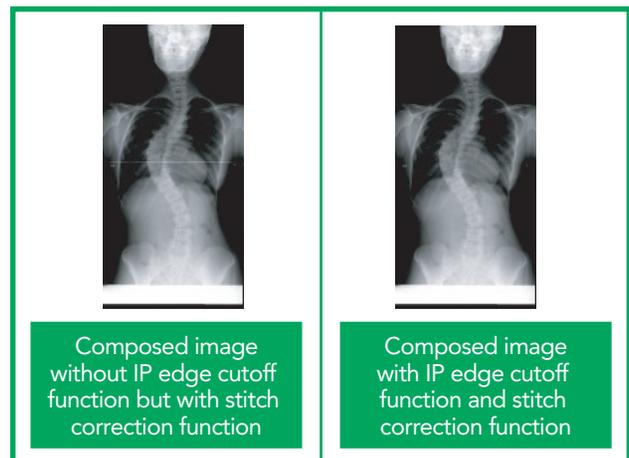
Issues often associated with image stitching software include difficulty with image alignment and variations of density on the composed image. Fujifilm's comprehensive, advanced image composition processing eliminates manual alignment requirements and compensates for differences in density in the image. Fujifilm's Image Stitching Software enables faster exam processing, higher diagnostic confidence and quicker image interpretation.

### ▶ Stitch Correction Function



Stitched images produce a white line due to the low-density area remaining on the composed image. To improve image appearance, it is corrected by increasing the density of the low-density area.

### ▶ IP Edge Cutoff Function



When an IP is read beyond its margin, the image edge appears white and a white line appears on the composed image. To avoid IP Edge Cutoff, the existence of the white area is analyzed during image processing. After existing white areas are identified, automatic image composition processing is performed to produce an optimized image.

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