

FUJIFILM



An evolution in Mammography  
for the benefit of all women

**AMULET f**  
FUJIFILM DIGITAL MAMMOGRAPHY SYSTEM

Full-function model suitable for both routine and  
stereotactic biopsy examinations

CE 0123



FUJIFILM

<http://www.fujifilm.com/products/medical/index.html>

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Not yet 510(k) cleared for sale in the U.S.\*  
\*As of July, 2011

## This top of the range AMULET model offers superb usability and patient comfort

This new model, suitable for both routine and stereotactic biopsy examinations, has joined the AMULET range. FUJIFILM's proprietary direct conversion Flat Panel Detector (FPD) achieves a pixel pitch of only 50µm; the smallest in the world\*. New image processing technology also provides easy-to-read high resolution images. AMULET f offers improved ergonomics for Radiographers and greater comfort for patients.

\*As of July, 2011



### Usability

Mammography with greater comfort and improved usability —

Ergonomically designed for improved usability and patient comfort



### High Quality Images

High quality images for easier, more accurate, diagnosis —

Improved image quality is achieved using the FPD, which features a pixel pitch of just 50µm, and the new image processing technology



### Optional Function

Increased examination flexibility —

The AMULET f, full-function model, is suitable for routine and Stereotactic Biopsy examinations



# Usability

## Mammography with greater comfort and improved usability —

Easy for radiographer to use and gentle on the patient



### ● Specially designed AWS (Acquisition Workstation)

- Integrated X-ray controller allows setting and confirmation of exposure conditions on a single screen
- Examination screen can be split and switched between 1, 2, or 4 images
- Portrait-type monitor enhances both image viewing and operability
- Density and contrast can be easily adjusted while reviewing images
- The positions of left/right images can be adjusted both automatically and manually

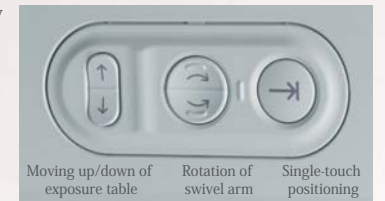


### ● High definition second monitor (3M/5M:optional)

A second high resolution monitor can be added to the AWS making it possible, if connected to PACS, to display previous images to enable more accurate examinations.

### ● Operation buttons

The buttons are shaped to be easily identified by touch alone.



Moving up/down of exposure table    Rotation of swivel arm    Single-touch positioning

### ● Display/color LCD

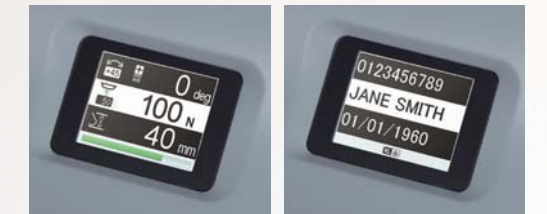
Information is displayed on screens both on the compression arm and at the foot of the unit.

#### ● Display on the compression arm



Shows swivel arm angle, compression force and breast thickness

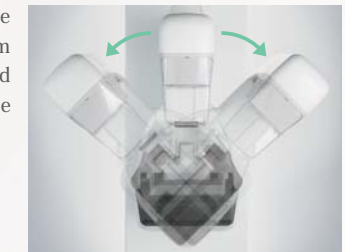
#### ● Display at the foot of the unit



This color LCD displays the patient's demographic information.

### ● Single-touch function

A single-touch function allows the AMULET to be positioned automatically to the desired swivel arm angle between exposures for faster examinations and also returns the unit to the upright position once these are completed.



### ● Arm rests and foam pads\* (\*optional)

Offering well-balanced, gentle support coupled with optional foam chest wall/axilla pads to improve patient comfort during examinations.



### ● Compression plates

A full range of compression plates are available, including those optimised for small breasts, for more accurate positioning. Both collimation and image output sizes are automatically adjusted to 18×24cm or 24×30cm as required. \* Optional



18×30cm compression plate for small breast

Collimation for right MLO when using 18×30cm compression plate

### ● Unit positioning adjustment

Easy to use controls on the compression arm are provided to allow adjustment of the height of the AMULET and the swivel arm angle, and there is also the ability to vary the automatically set compression force, if necessary, using a simple dial.



# High Quality Images

## High quality images for easier, more accurate, diagnosis —

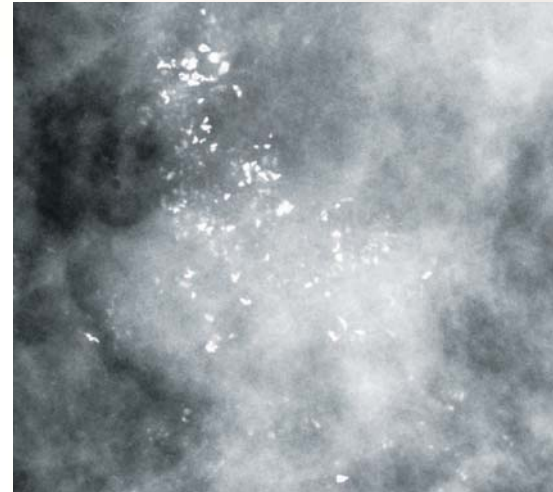
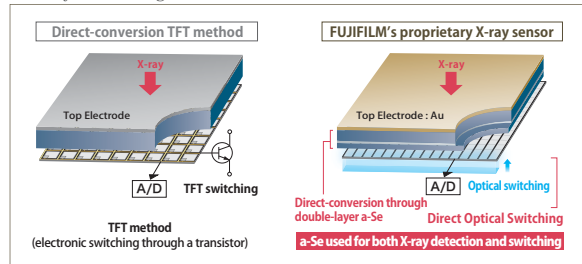
Improved image quality is achieved using the FPD, which features a pixel pitch of just 50µm, and the new image processing technology

### Incorporating FUJIFILM's proprietary "Direct Optical Switching" technology

AMULET f uses a direct conversion X-ray sensor with excellent conversion efficiency. The panel is comprised of a dual layer of a-Se, employing FUJIFILM's proprietary "Direct Optical Switching" technology for extracting image signals, instead of thin film transistors (TFTs). This technology achieves lower noise and a pixel size of only 50 µm, as well as shorter intervals between exposures. AMULET f provides high definition images, high DQE and allows an optimized workflow.



X-ray sensor diagrams

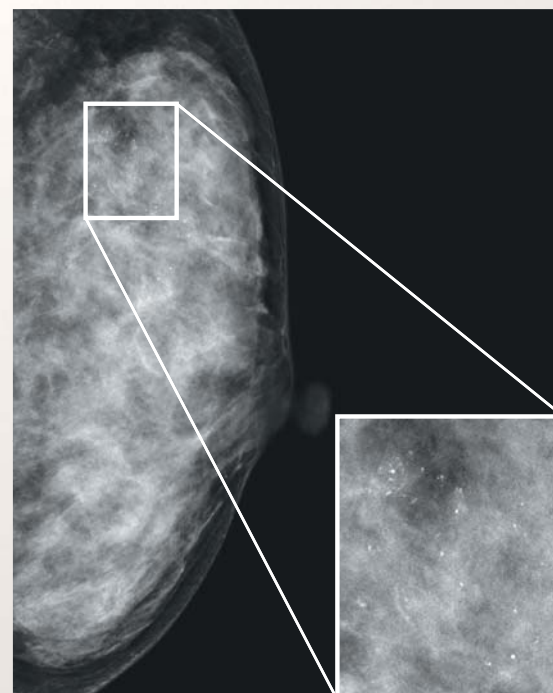
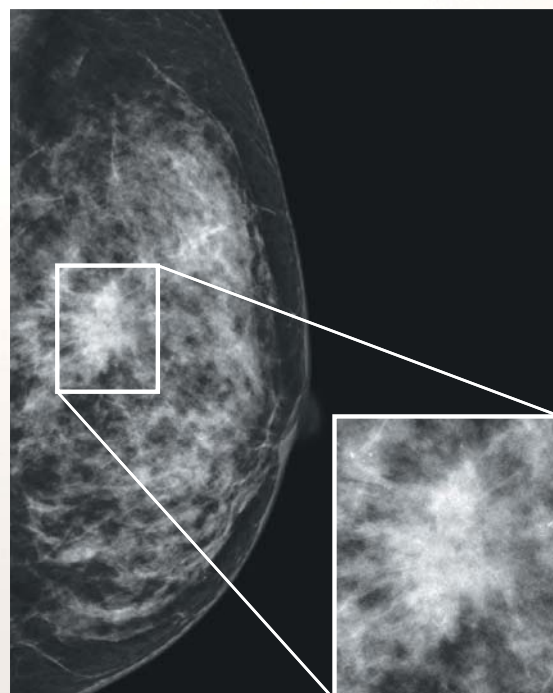
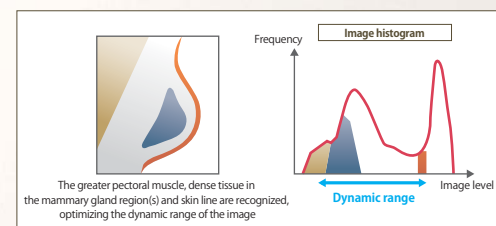


Highly precise image clearly depicting microcalcifications

### New Image Processing Technology

#### New Image Analysis & New Gradation Curve

New Image analysis algorithms and gradation curve processing give improved visualization of the whole breast. The greater pectoral muscle, regions of dense tissue in the mammary gland and the skin line are recognized and analyzed individually providing improved detail throughout the image. This ensures that the Image provides optimum diagnostic information.



# Optional Function

## Increased examination flexibility —

The AMULET f, full-function model, is suitable for routine and Stereotactic Biopsy examinations

**Stereotactic Biopsy examinations (optional)**  
The AMULET's ability to deliver detailed, 50 µm resolution, images to its high resolution display enables precise and efficient biopsy examinations.



### Accurate targeting support

- High resolution images, and FUJIFILM's proprietary image processing, enhance target depiction capability.
- Selecting the target on the scout image generates guide-lines on the stereo images which will help to determine correct positioning (Figure 1).

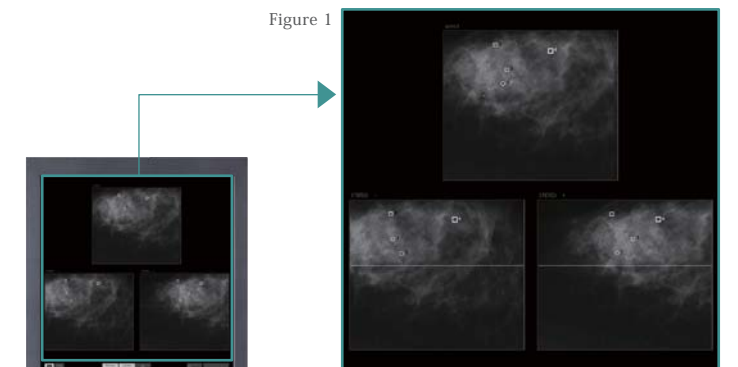


Figure 1

### Equipped with several functions to improve examination safety

- A warning is provided that the tip of the needle is approaching the top of the exposure table (Figure 2).
- The position of the target within the breast can be checked, visually, on the displayed diagram (Figure 3).
- The distance between the tip of a fully extended needle and the exposure table is displayed and is linked with the operation of the Z-axis.

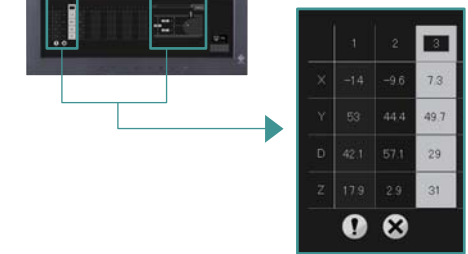


Figure 2

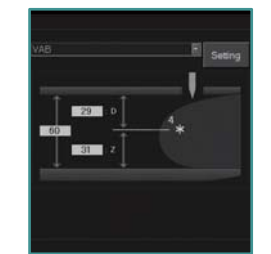


Figure 3

### Compatible with Digital Mammography CAD (MV-SR657EG)

FUJIFILM Digital Mammography CAD is a valuable detection support system. Using proprietary algorithms, this CAD system helps detect areas on the breast image that may indicate cancer.



### Compatible with FUJIFILM Mammography QC, the quality control tool for mammography (FCR 1 Shot Phantom M Plus and Mammography QC Software [optional])

With the phantom and software for FUJIFILM Mammography QC, a daily quantitative test can be completed faster than when using the procedures described in the IEC standards and EUREF guidelines. This system allows quality control of the whole mammography system to be completed including the X-ray unit.



Note: The X-ray tube/filter type (Mo/Mo, Mo/Rh or W/Rh) can be selected at the time of purchase dependent upon the intended use of the equipment.

Configuration/specifications... Digital mammography system (FDR MS-2500)

Dimensions/Weight/Power Supply

- Mammography exposure stand: 624(W)×1200(D)×1980(H)mm/Approx. 400kg/AC 200, 208, 220, 230, 240V
- Control cabinet: 510(W)×210(D)×535(H)mm/Approx. 45kg
- Generator: 445(W)×315(D)×830(H)mm/Approx. 140kg
- AWS(including Operation desk and Protection shield\*): 700(W)×420(D)×1900(H)mm/Approx. 90kg/AC 110, 240V \*Optional
- LCD monitor\*: 376(W)×208(D)×522(H)mm/Approx. 10.4kg/AC 100-120V, 200-240V \*Optional
- Biopsy Positioner (Model: FDR-2000BPY)\*: 360(W)×530(D)×310(H)mm/Approx. 5.5kg/AC 200-240V \*Optional

●The exterior appearance and specifications may be subject to change without notice