Digital Mammography System
AMULET Innovality

Description
AMULET Innovality - the result of Fujifilm’s ongoing “innovation” and commitment to providing top “quality” mammography services. The Innovality utilizes Fujifilm’s unique a-Se direct conversion flat panel detector* to produce clear images with a low X-ray dose. This system makes use of intelligent AEC combined with a new image analysis technology to automatically optimize the X-ray dosage for each breast type. AMULET Innovality (FDR MS-3500) is a highly advanced mammography system which offers an extremely fast image interval of just 15 seconds. With this new system, Fujifilm furthers the provision of high quality examinations with superior image quality. *Using a HCP (Hexagonal Close Pattern) TFT array.

Features & Benefits
• Unique new detector with Hexagonal Close Pattern TFT array for fast, low dose examinations
• Dual-mode Tomosynthesis can be selected for each clinical purpose
• X-ray dose optimization by Intelligent AEC offering easier workflow for the implanted and postoperative breasts
• Dedicated mammography Acquisition Workstation
• Ergonomically designed for improved usability and patient comfort
• Compatible with stereotactic biopsy examinations, Digital Mammography CAD and Fujifilm Mammography QC, the quality control tool for mammography
Technical Excellence

1. Dual-mode Tomosynthesis for a range of clinical purpose

The Tomosynthesis function on AMULET Innovality is suitable for a wide range of uses, offering two modes to cater for various clinical scenarios. Standard (ST) mode combines rapid exposure timing and efficient workflow with a low X-ray dose while High Resolution (HR) mode makes it possible to produce images with an even higher level of detail, allowing the region of interest to be brought into clearer focus.

ST (Standard) mode
Acquisition angle: ±7.5
Pixel size: 150/100µm
The smaller angular range and fast image acquisition allow Tomosynthesis scans to be quickly performed with a relatively low x-ray dose.

HR (High Resolution) mode
Acquisition angle: ±20°
Pixel size: 100/50µm
With a larger acquisition angle the depth resolution is improved. This allows the region of interest to be defined more clearly and brought into clearer focus.

2. Intelligent AEC optimizes the X-ray dose for each breast type

The Intelligent AEC (i-AEC) performs pre-exposure image analysis, implant support and kV adjustment. It has advantages in defining the optimal dose for an examination compared to conventional AEC systems where the sensor position is fixed.

Conventional AEC
Requires manual adjustment of the settings based on the assumed location of mammary gland.

Intelligent AEC
Automatically selects the region for exposure in the pre-shot image.