



# Serenys

## Analog mammography



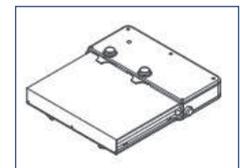
The state-of-the-art mammograph, SERENYS, is a breath of fresh air in the efforts to ensure the **early detection of breast cancer**. Its efficient and user-friendly design guarantees a serene, reassuring experience for both the patient and the operator. **Excellent image technology** optimizes the diagnostic as well as the standard of care.

### POTTER BUCKY:

In order to improve **exam flexibility** and provide the **most complete diagnostic tools**, SERENYS offers the possibility of 3 potter bucky configurations:

- 18x24 cm
- 24x30 cm + adaptateur for 18x24 cm
- Interchangeable 24x30 cm and 18x24 cm

A high definition carbon fiber grid to ensure the **best image quality with the lowest possible dose**.



### CONTROL PANEL:

To easily perform exams, the device is fitted with an LCD screen which gives **fast and simple visual access to useful data** such as exposure parameters, average glandular dose (AGD), Heat Unit level of x-ray tube, etc.

For **improved ergonomics**, an auxiliary display placed on the front of the device at the bottom gives information about the exam parameters associated with the "C" Arm such as rotation angle, applied compression force and compressed breast thickness.



SERENYS has a number of features designed to ensure patients' «well being» both during and after the exam and to provide optimal diagnostic information.

**The compression system "µPress"** improves patient comfort. The system has a smooth and adapted paddle design that compresses the breast progressively once in contact.

**A geometric magnification device** adjustable in two factors (x1.5 and x2) for a more precise diagnosis.

**The AEC device (Automatic Exposure Control)** for an optimized monitoring of the x-ray dose delivered to the patient.

# Serenys BYM

## Isocentric C-Arm for maximum patient and user comfort



The SERENYS BYM presents all of the innovative characteristics of the Serenys, with the added advantage of an **isocentric C-Arm** that offers even more patient comfort and diagnostic flexibility.

### ISOCENTRIC « C » ARM:

The SERENYS BYM mammograph is equipped with an **isocentric C-Arm** (rotation and vertical movement) which can be fully motorized as an option. The isocentric C-Arm permits all breast projections without moving the patient and without adjusting the height of the C-Arm, **making exams faster and more comfortable for the patient.**

Perhaps the most important advantage of the isocentric C-Arm is that it is upgradable with a stereotactic biopsy device.

### STEREOTACTIC BIOPSY DEVICE:

The state-of-the-art biopsy device included (optionally) on the SERENYS BYM uses **microprocessor control combining simplicity and precision** to locate the three-dimensional position of lesions and position the biopsy needle to reach the lesions, even those in difficult positions.

Key elements of the system include:

- **The Needle Placement Unit (NPU)**, comprised of:
  - » the needle placement support (different sizes of needles can be fitted)
  - » the compression paddle with window for biopsy
  - » the film holder
- **The Processing Unit (PU)**, which:
  - » introduces the horizontal coordinates measured with a precision joystick on the two radiographs taken at +/- 15 degrees
  - » calculates and displays the final x, y, z space co-ordinates for automatic positioning of the needle placement support
  - » indicates compression thickness and selection range for needle length

