

# Pristina Serena

for Senographe Pristina



\*Also referenced as SenoAxys

GE imagination at work

Pristina Biopsy is the Stereotactic Biopsy upgrade option for the Senographe Pristina full field digital mammography system. Pristina Biopsy is an add-on option designed to simply slide onto the Senographe Pristina gantry.

This system can provide guidance to perform fine needle aspiration, core biopsy, vacuum assisted biopsy or hook wire placement procedures in upright or recumbent positions.

Pristina Biopsy features a universal grid, that makes lesions conspicuity the same in biopsy as in 2D. Image performance in biopsy is equivalent to 2D screening and diagnostic imaging

## Ergonomics

**Pristina Biopsy adapts to the patient, not the patient to the system.**

A Flexible Biopsy Device orientation (horizontal and vertical), combined with gantry and/or patient position provide a large flexibility in lesion approach.

- Thin/thick compressed breast as well as patients with different conditions (wheelchair, kyphotic, ...) can be biopsied in both approaches
- Tube Parking position at  $-33^\circ$  and  $+33^\circ$  allows easy access to the breast during the biopsy procedure
- The tube park position increases visibility of the workspace. It provides complete access during the biopsy procedure and reduces physical strain of the radiologist
- With Pristina Biopsy, a Biopsy procedure can be performed in  $<15\text{min}^*$
- The near silence of Pristina and its biopsy positioner provides a calm environment to the patient
- Lesions located up to 1cm above the paddle can be biopsied
- The ability to easily change the biopsy device orientation (from vertical to horizontal) without decompressing the patient may accelerate the exam
- Remote angulation minimizes technologist's travel during procedure, reducing exam time
- The short distance ( $<5\text{ mm}$ ) between detector and the edge of the breast support facilitate biopsies of Lesions located close to chest wall
- A Laser light is included to serve as a guidance aid for an accurate anesthesia injection
- Touch screen display conceived to work intuitively with the 4 axis for targeting (X,Y,Z and needle axe)

\* As determined in GE internal workflow study

## Technical information

**Pristina Biopsy is designed with additional advanced biopsy applications in mind**

### Initial positioning rotation angle

- Any angle between  $-90^\circ$  and  $+90^\circ$

### Stereotaxy angles

- $-15^\circ$  and  $+15^\circ$  automatic stop at stereotaxy angles

### Exposure parameters selection (track, filter, kV, mAs)

- Automatic or Manual

### Field of View

- A  $12\times 11\text{cm}$  FoV represents a 60% increase in field of view\*\* designed for easy patient positioning. A larger FOV potentially reduces exam time by reducing retakes due to repositioning

## Pristina Biopsy software

**Pristina Biopsy features eContrast image processing that can be selected at acquisition according to user preferences**

### Biopsy Device Management

- Ability to select the full configuration of the biopsy device
  - A device database is available for common used devices
  - Biopsy preferences configurable to predefine user's frequent used devices and needles

### Acquisition

- mAs correction with tube angulations to compensate breast thickness change
- Change view name available at acquisition

### Image display

- Scout view and stereotaxy views displayed for targeting
- Possibility to magnify, invert the image, modify window width or window level
- Possible to re-open previous Biopsy images and previous targets

### Epipolar function

- Enables easy correlation of the lesion on the two stereotactic views to assist accurate targeting

### Check on scout

- Projection on scout view of the lesion targeted on stereotactic views enables to confirm accurate targeting

### Check on stereo

- Display on the same screen of pre-fire and post-fire images

### Target management

- Multiple targets can be defined

### DICOM Connectivity

- Leverages Senographe Pristina DICOM platform

\*\* Compared to Essential Biopsy and DS Stereotix

# Needle Positioner

## Needle approach

- Vertical or horizontal approach for easy access to breast lesions

## Accuracy

- +/- 1 mm in the 3 axis in vertical and lateral
  - +/- 2mm for large biopsy devices

## Programmable needle length

- Up to 180 mm in 0.1 mm steps

## Image format

- Scout view: 120x110mm
- Stereotaxy views: 110x 90 mm

## Biopsy window

- Size: 50 x 40 mm

Pristina Biopsy is fully compatible with biopsy devices commonly available in the market:

- Mammotome Revolve
- Encor Enspire
- Eviva
- Bard Magnum
- Bard Vacora

Pristina Biopsy is configurable to work with up to 5 different Senographe Pristina gantries.

## Pristina Biopsy Configuration

### Standard Configuration

- Biopsy positioner and Touchscreen Display
- Calibration kit
- Vertical Support (Bard Magnum / Vacora)
- Compression paddle Arm (left arm)
- Set of biopsy plates
- 8 Vertical Needle guide supports
- Laser guide
- Table Stand

## Options

- Horizontal approach kit including:
  - Horizontal Support (Bard Magnum / Vacora / FNA / Hook Wire)
  - Compression paddle Right Arm
  - Set of biopsy plates (two without window)
  - 4 Horizontal Needle guide supports
- Biopsy device adaptors for compatible devices and set of needle guide support

## Compatible needle guides

- Sterilizable metal needle guides with retaining catch
- Sterilizable metal needle guides without retaining catch
- Sterile plastic needle guides
- Sterile plastic needle guides with slot for wire positioning

## Printing

- Available in manual mode

## System Weight

- < 12kg

## Environmental conditions

- Operating temperature range: 15°C to 30°C
- Operating humidity range 10% to 80%
- Operating atmospheric pressure range: 70 kPa to 106kPa. (0 to 3000m altitude)
- Noise level of the system is equal/lower to 65dB

**Pristina Biopsy it is not available in all countries.  
Please refer to your GE Healthcare sales representative.**

**Data subject to change.**

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