

High image quality and reliability

The Full Field Digital Mammography Helianthus and Helianthus BYM are complete mammography solutions optimized for digital imaging in breast cancer screening and diagnostic procedures.



AMORPHOUS SELENIUM

Amorphous Selenium is the most advanced technology to produce the highest signal/noise ratio and offers greater efficiency compared to other known technologies. With Amorphous Selenium the X-Radiation is transformed directly into electric charges without relying on an intermediate step to convert X-Ray energy to light. So the direct detection avoids a light diffusion effect that degrades image quality, produces a clear signal profile and preserves the image sharpness.



Helianthus BYM

Helianthus is also available in BYM version fitted with isocentric C-Arm that allows all breast projections without moving the patient and without adjusting the height of the C-Arm.
If an isocentric C-Arm is already fitted, the Helianthus is upgradeable with digital stereotactic biopsy device BYM 3D.

BYM 3D

A reliable solution for diagnostic application with Full Field digital stereotactic biopsy.

- ▶ Free “procedure” for image acquisition
- ▶ 3D View of scout image with marker positioning set with marker depth
- ▶ No markers number limit
- ▶ Automatic positioning of biopsy device
- ▶ Database management of biopsy devices
- ▶ Choice of needles limited according to the adaptor mounted on system
- ▶ Automatic reckoning of adaptor for biopsy device
- ▶ Acquisition in the same study of both images for scout and for biopsy
- ▶ Maximization function of the reachable area by the biopsy device



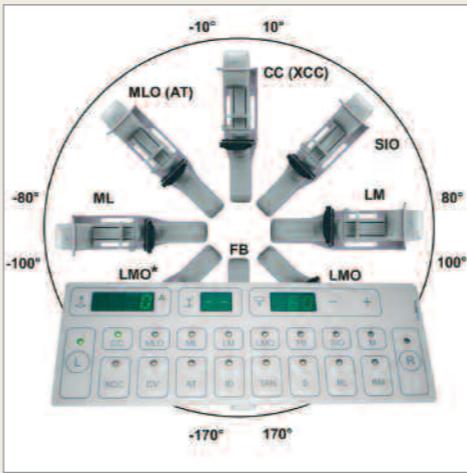
“μPress” COMPRESSION SYSTEM

- ▶ Motor-driven adjustable pressure and manual compression with safety release
- ▶ Value of the actual exerted pressure on the breast shown on two displays
- ▶ Progressively reducing paddle speed once in contact with the breast
- ▶ Smooth compression paddles design for higher patient comfort



GEOMETRIC MAGNIFICATION

With Helianthus a device for geometric magnification (1,5x or 2x factor) without anti-scatter grid is available. In order to reduce dose a carbon fiber free structure has been designed with automatically selected small focus once fitted.



ACR DISPLAY

A tagging keyboard for is placed over the detector. Integrated auxiliary display shows C-arm inclination, ACR projections, compression force selected/applied, breast thickness and laterality selection.

A clearer view

ACQUISITION STATION

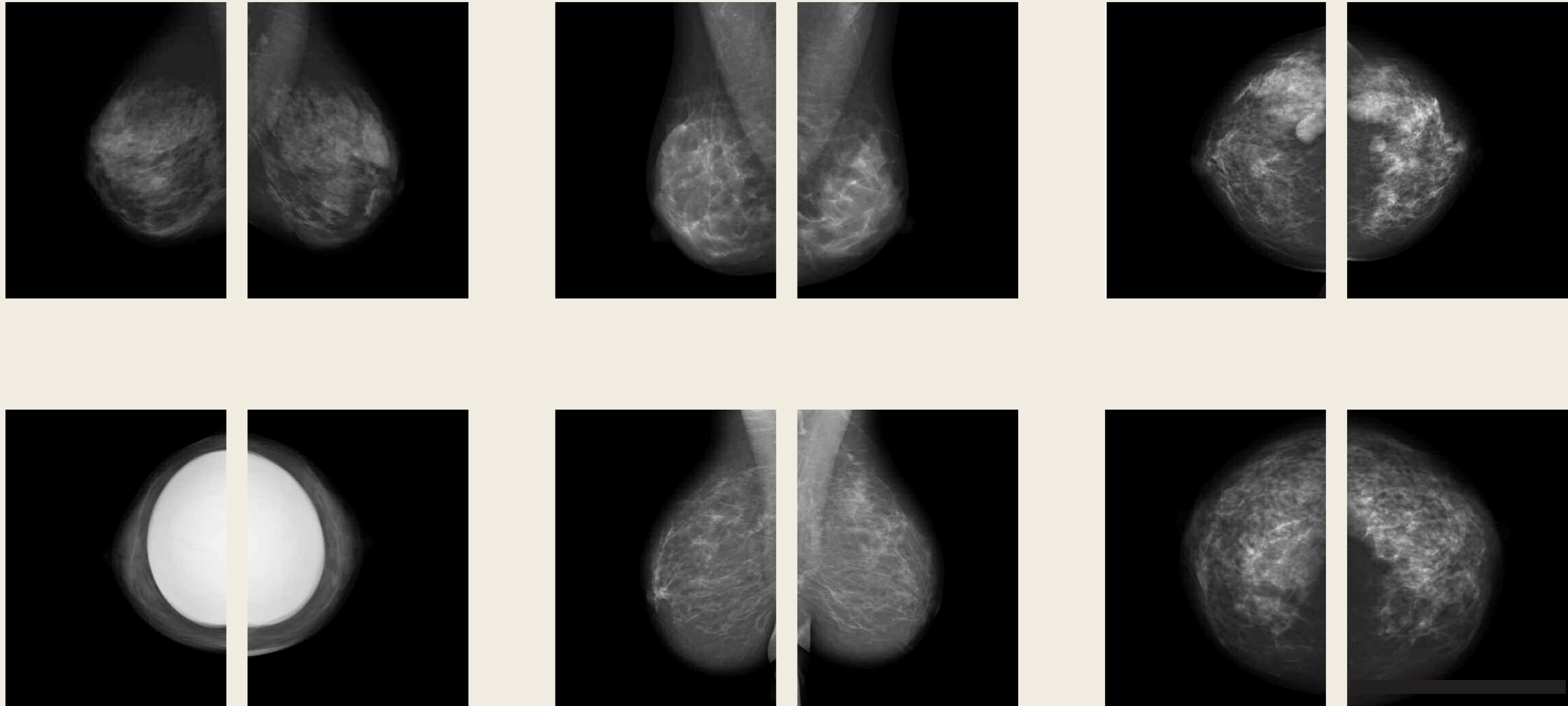
The Acquisition Station is integrated with a transparent anti-X protective barrier for the operator. It is composed of:

- ▶ Software inclusive of:
 - Remotized mammo control panel
 - Off-line images display and viewing
 - Local fully functional operational mode
 - Patient information local DataBase
 - Graphic manipulation tools
- ▶ 2 MPixel Colour LCD Display System
- ▶ DICOM 3.0 MG Conformity:
 - DICOM STORE SCU
 - DICOM PRINT SCU
 - DICOM WORKLIST MANAGEMENT SCU
- ▶ IHE Conformance (PIR, SWF, MI)
- ▶ CONNECTATHON 2007
- ▶ HIS-RIS-PACS Interface

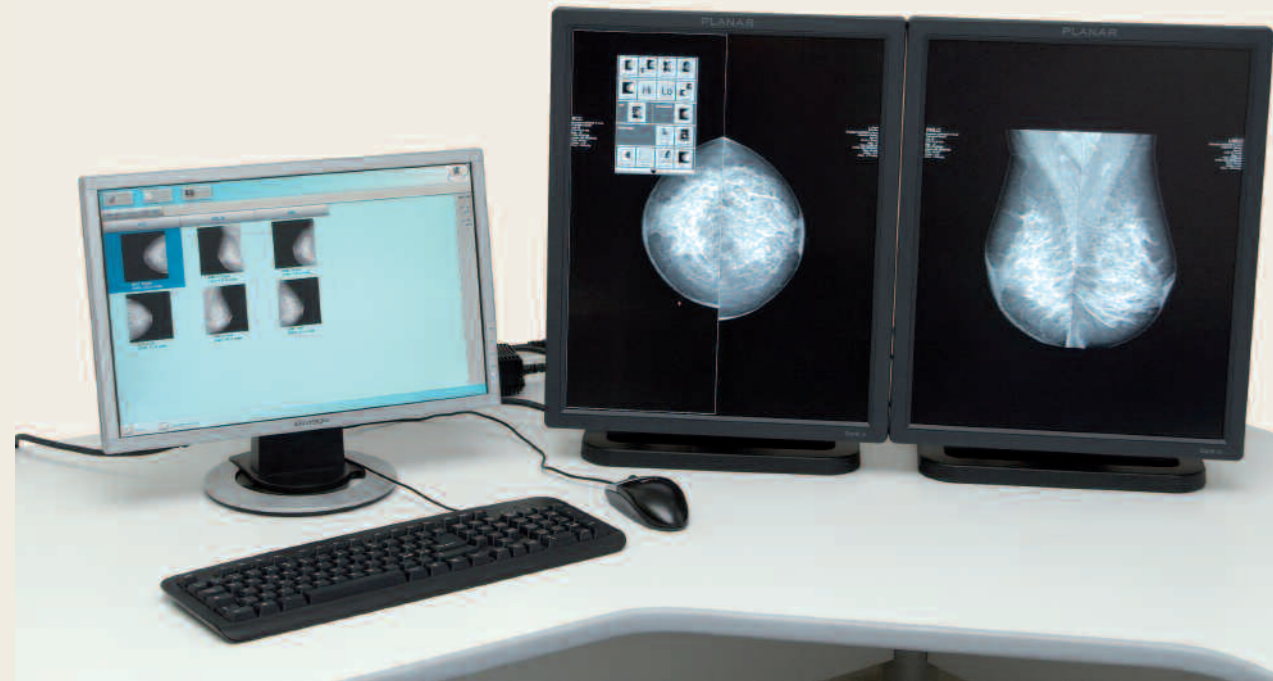


A better diagnosis

Images taken with 24x30 cm Flat Panel Detector with Tungsten Anode Tube and Rhodium filtration



Improving diagnosis



VIEWING AND REPORTING

As option is also available a professional workstation for medical image presentation and processing. Based on an innovative concept of display presentation and workspace configuration. It is inclusive of:

- ▶ Workstation with DVD Recorder
- ▶ Software for images management and processing
- ▶ Very high resolution 5 MPixel Dual Headed Digital Flat Panel
- ▶ LCD Colour Service Display System
- ▶ DICOM 3.0 MG Conformity
- ▶ HIS-PACS-RIS Interface

CAD COMPUTER AIDED DETECTION

Helianthus can be integrated with an optional Computer Aided Detection (CAD) mammography system. This software uses artificial intelligence algorithms for the identification of potential lesions on mammograms. Results are shown over the original images using different symbols according to lesion typology (masses or microcalcifications).

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Helianthus

FLAT PANEL DIGITAL MAMMOGRAPHY

Excellence in patient care



METALTRONICA is a X-Ray equipment manufacturer operating in the national and international market for over 30 years. From the very beginning METALTRONICA has followed the constant and demanding growth of the healthcare market through R&D programs and information exchange allowing the installation of more than 3000 mammography units worldwide.

All our activities are based on a simple philosophy: contribute to medical progress through constant steps towards advanced performances in mammography.



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