

Lilyum

A UNIQUE
AND COST-EFFECTIVE
SOLUTION



METALTRONICA

C-arm with isocentric movements

Lilyum

Protective screen

Potter-Bucky with anti-scatter grid predisposed for upgrade to DR panels

Foot-control

Integrated X-Ray generator



STATE-OF-THE-ART ANALOG MAMMOGRAPHY

Metaltronica takes full advantage of many decades of experience in the diagnostic imaging field and believes in engaging in a continuous dialogue with clinicians and technologists to ensure that its systems address their most demanding requirements.

Lilyum is the direct result of the recent and significant redesign of the company's entire product line. This system is a fully operational analog unit that cost-effectively acquires high-quality images.

Suitable for all breast exams, including high volume screening programs, its accuracy, and optimized workflow represent a quantum leap in analog mammography.



EXCELLENT SAFETY AND CONVENIENCE

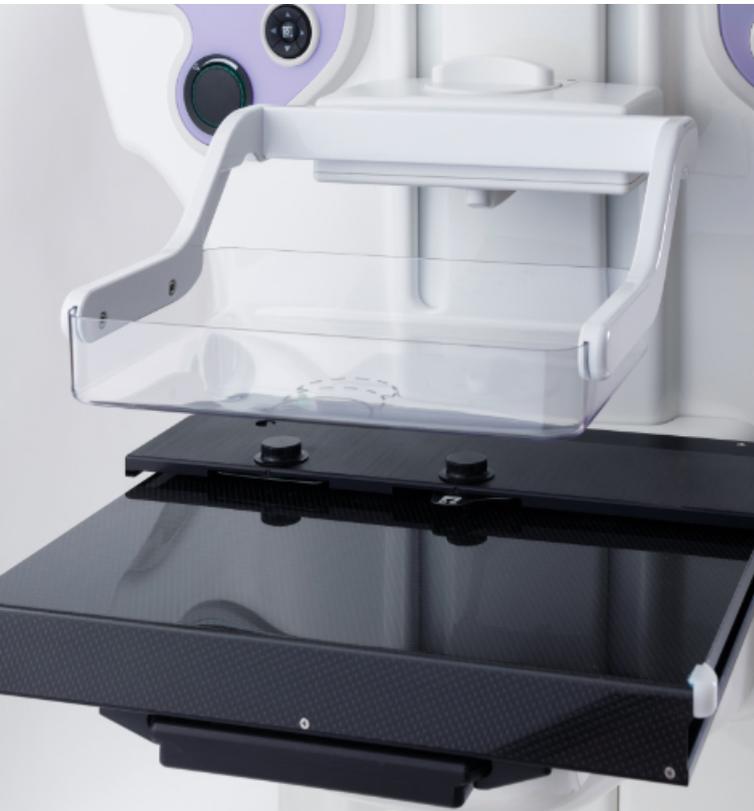
Thanks to the isocentric servo-assisted movements of the C-arm that enables smoother and more controlled movements, the redesign of the new Lilyum has resulted in significantly improving the system's ergonomics. Extensive rotational and

translation movements (up to 85 cm vertical travel) allow a quick and easy positioning of the patient, even for those with impaired or limited mobility.

Three multi-switches placed on the sides of the C-arm and the front of the X-ray tube assist the operator in managing the motorized movements of the arm, thus allowing a quick and precise positioning of the patient.

Two 7" color touchscreen displays placed on the C-arm's sides assist the technician in viewing and managing all the exam parameters (compression force, compressed breast thickness, collimation format, magnification factor, and projection angle).

When rotating the C-arm, a sensitive and precise obstacle detection system ensures maximum patient safety.



MAIN FEATURES

Automatic collimation

Lilyum is outfitted with a size and position recognition device for the compressor that adapts automatically to the X-ray beam collimation in all procedure modes (standard exam, geometric magnification, biopsy).

"Smart μ Press" compression system

The image quality directly correlates to the correct compression of the breast. Lilyum lets the mammography technician perform this operation automatically or in a motorized mode with manual fine adjustments via rotary controllers or fully manually by unlocking the compression paddle. In the first two modes, the remarkably gentle progression of the set force significantly reduces the patient's discomfort and allows the operator to stretch the tissues properly. The available range of standard and optional compressors addresses all diagnostic needs.

Potter-Bucky with an anti-Scatter grid

Lilyum is available with a Potter-Bucky in two different formats (18x24 cm or 24x30 cm) that are perfectly interchangeable. An internal carbon fiber grid reduces drastically scattered radiation, contributing to the acquisition of sharp and high-quality images.

Field protection screen

To protect the X-ray beam from other parts extraneous to the exam procedure, Lilyum is equipped with a polycarbonate screen.

AEC and "ULTRA" software

Lilyum is outfitted with an advanced Automatic Exposure Control (AEC) that sets the optimal parameters in function of the effective Breast Density (evaluated by a pre-exposure X-Ray pulse). The microprocessor-controlled automatic exposure meter is calibrated with the advanced "ULTRA" software. Installation is straightforward and quick.

OPTIONS

Geometric magnification kit

A geometric magnification device (1.5x or 2x) is offered as an option. Without an anti-diffusion grid, it significantly reduces the dose. Once inserted, a detection system automatically selects the small focal spot and adjusts the collimation set-up.

Compression paddles

In addition to the standard equipment, several compression paddles are available as options (i.e., for the geometric magnification, the examination of details, and perforated for two-dimensional biopsy procedures).

Anti-X protective barriers

To obtain the maximum protection against stray radiation, optionally, two stand-alone anti-X protective barriers with different lead equivalence (0.34 or 0.50 mm) are available.

Upgraded unit with DR panel and Bym 3D biopsy device.

Bym 3D

Lilyum can be integrated with the Bym 3D three-dimensional biopsy device, easily interchangeable with the Potter-Bucky and the magnification kit. The C-arm positioning for the stereotactic biopsy examination ($\pm 15^\circ$) is motorized and activated with the Bym 3D device. The system has no marking limits and allows the collection of multiple samples. A wide range of supports and adapters allows the use of standard needles, biopsy guns, and VABs.



FIELD-UPGRADABLE TO FULL DIGITAL

Exemplifying the fastest and most cost-effective transition to digital mammography, Lilyum comes fully predisposed for a future upgrade to DR panels. At the end user's request, an "in the field retrofit" of the mammography unit is rapid and cost-effective.

The transformation from an analog to a full 2D digital system is a unique feature of Lilyum that distinguishes it from any other competitor's offering.

Different digital detectors with both amorphous selenium and amorphous silicon technology are available. All panels guarantee the acquisition of images of excellent diagnostic quality.

They differ only in the cost and execution times of the procedure, thereby allowing the user to configure the set-up of the system based upon his/her specific needs.

The Lilyum upgrade includes an integrated acquisition and control workstation (AWS). The medical display (with a resolution of 2, 3 or 5 MP) is directly fixed on the mammography system, on the left or right side, according to the customer's preference.

A touch pad keyboard is available on the console and a CD/DVD burner and a USB port is placed on the side of the console. All the AWS electronics, including the Personal Computer is located inside the mammography unit.

The exposure button, provided with a spiral cable, allows the operator to perform radiation exposures in complete safety behind an appropriate protective barrier.

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METALTRONICA

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