



**Planmed**  
Sophie Classic



## *True Dedication*

Even though the number of women diagnosed with breast cancer increases every year, more women survive from their cancer and are able to carry on living a happy life. Thanks to screening programs, education, high quality mammography equipment and skilled personnel, breast cancer can be detected and treated earlier than ever before.

At Planmed we are dedicated to creating innovative technology that helps in the fight against breast cancer and brings better health and happiness to women and their families. We strive to provide outstanding products that are well known for their high imaging performance, user-friendliness and excellent ergonomics – values that are indispensable for any mammography professional. With its expertise, in-depth knowledge and true dedication, Planmed is regarded an acknowledged leader in the field of mammography.



The **Planmed Sophie™ Classic** is a top of the range analog mammography unit that offers extremely versatile functions. With Auto-Load Bucky and isocentric C-arm rotation, the Planmed Sophie Classic provides exceptional ergonomics and is highly patient-friendly. Imaging is much faster and more pleasant for the patient and user. With the Planmed Sophie Classic everyday work becomes easier and more efficient.

Special compression paddle designs optimize image quality and provide more comfortable compression, maximizing the chances for early lesion detection. The optional MaxView Breast Positioning System provides ultimate results by maximizing the amount of breast tissue captured on film.

The Planmed Sophie Classic is easily upgradeable with several optional accessories, such as magnification and stereotactic kits. It is also available as a true mobile unit with battery back-up. An optional CR interface box enables enhanced communication with major computed radiography systems. A special **Planmed Sophie™ Classic S** model with fewer functions is available for more value driven customers with limited budget.



Our innovations are designed to provide increased efficiency and maximum ease of use. Automation is used to speed up the examination procedure and enhance patient comfort.

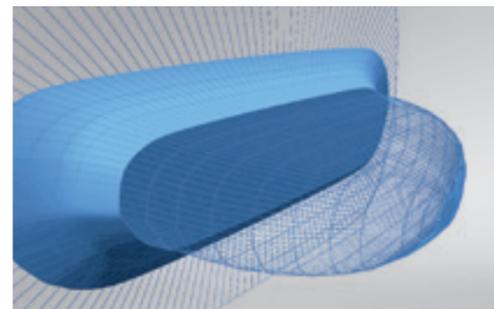
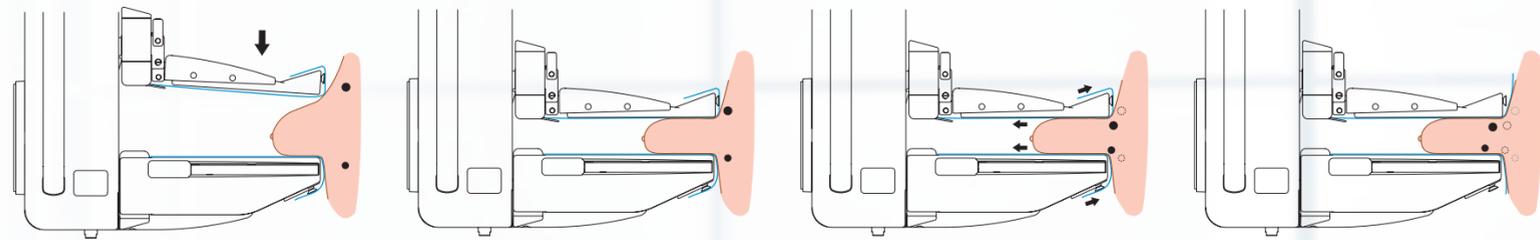
The sleek and lightweight Auto-Load Bucky provides ergonomic, effortless and user-friendly cassette loading and unloading. On insertion, the cassette is automatically sensed, gently accepted and precisely aligned with the radiation field. After exposure the cassette is easily ejected with a touch of a button, or it can be programmed to automatically eject from either side of the Bucky. The proprietary grid with its special driving mechanism ensures high contrast and enhanced resolution.



*Optimal Compression Systems*

Thanks to its modular design, the **Planmed Sophie™ Classic** provides a flexible platform for more advanced compression systems. The patented compression design slows the paddle speed upon contact with breast tissue, ensuring steady, even compression with minimal discomfort to the patient. The vacuum-formed paddles, made of flexible material, conform exceptionally well to the anatomy of the breast. This design helps to provide better image quality while offering more comfortable compression.

Our unique optional **Twincomp™** compression system is ideally suited for small or augmented breasts. Twincomp's exclusive patented compression design helps in implant displacement views and is clinically proven to image more chest wall tissue. The paddle angle provides greater hand space allowing for easier breast positioning. As the paddle travels downward and becomes parallel, it gently smoothens skin folds while pushing the breast tissue away from the chest wall into the field of view.



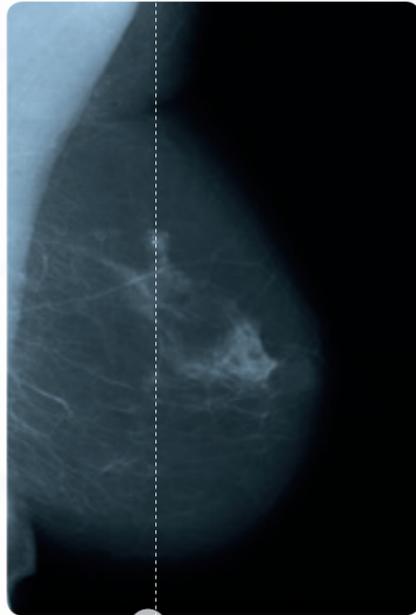
The optional **MaxView™** Breast Positioning System is an intelligent breast positioning concept with maximized performance and superior visibility. With MaxView compression and traction, more breast tissue is visible when compared to mammography units using conventional compression systems. By capturing more breast tissue it maximizes the chances for early lesion detection and reduces the risk of missing a cancer.

The MaxView Breast Positioning System is easy to operate and it can be used in all standard views. MaxView uses moving hygienic, radiolucent

sheets above and below the compressed breast. These sheets are easily and quickly inserted into the upper and lower MaxView traction modules. During compression gentle traction is applied with a special foot control.

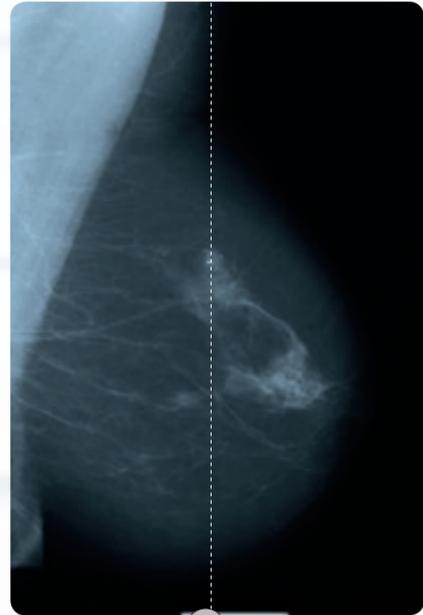
When the foot control is pressed the MaxView sheets draw the breast into the imaging field. The upper and lower MaxView sheets can be moved independently into different positions to further aid breast positioning. After the exposure, the compression is automatically released and the sheets return to the starting position.





0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

Image taken without the **MaxView™** Breast Positioning System



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 cm

Image taken with the **MaxView™** Breast Positioning System

It is difficult to maximize the amount of breast tissue captured on the film with standard compression systems, since the back of the breast is frequently excluded from the imaging field. As this is the thickest part of the breast, losing even a few millimeters of tissue means that a significant volume of breast tissue will not be imaged. This may result in a cancer being missed. The **Planned Sophie™ Classic** mammography unit with MaxView solves this problem by assisting the mammography technologist during breast positioning and compression.

It has been clinically proven that the MaxView Breast Positioning System captures and visualizes more breast tissue in the field of view. The advantage of the pull and roll effect can be clearly seen when comparing images taken without and with **MaxView™**. MaxView can provide up to 2 cm more breast tissue on some patients. The roll effect creates movement both away from the chest wall and sideways. In a small breast, 1 cm more tissue can be up to 30% of the breast volume. Even in a larger breast, 10 to 15% of tissue might be

missed if MaxView is not used. The additional volume of tissue imaged with MaxView translates directly into the potential to detect more cancers at an earlier stage.

Furthermore, MaxView provides sharper visualization of the glandular tissue structures. Traction also improves image clarity by separating superimposed breast tissue.





With its modular design, the **Planmed Sophie™ Classic** can be easily adapted to changing user needs and quickly upgraded with optional accessories. Needle localization kits, network ID cameras, Twincomp compression and stereotactics are all available and compatible with existing Planmed Sophie Classic units. The optional magnification stand offers magnification factors of 1.6 and 1.8. The strong yet lightweight stand is easy to attach and remove. Its large positioning area provides greater patient comfort and more space for breast positioning. An optional CR interface box enables communication with major computed radiography systems.

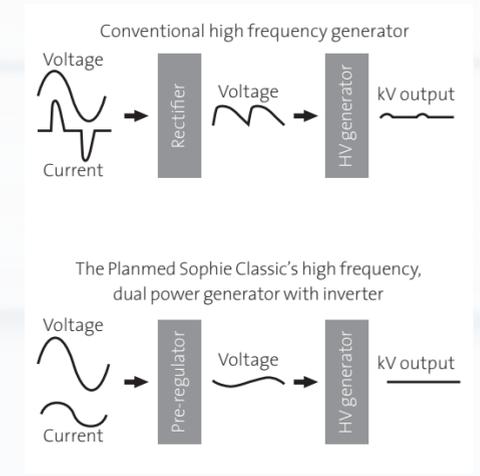
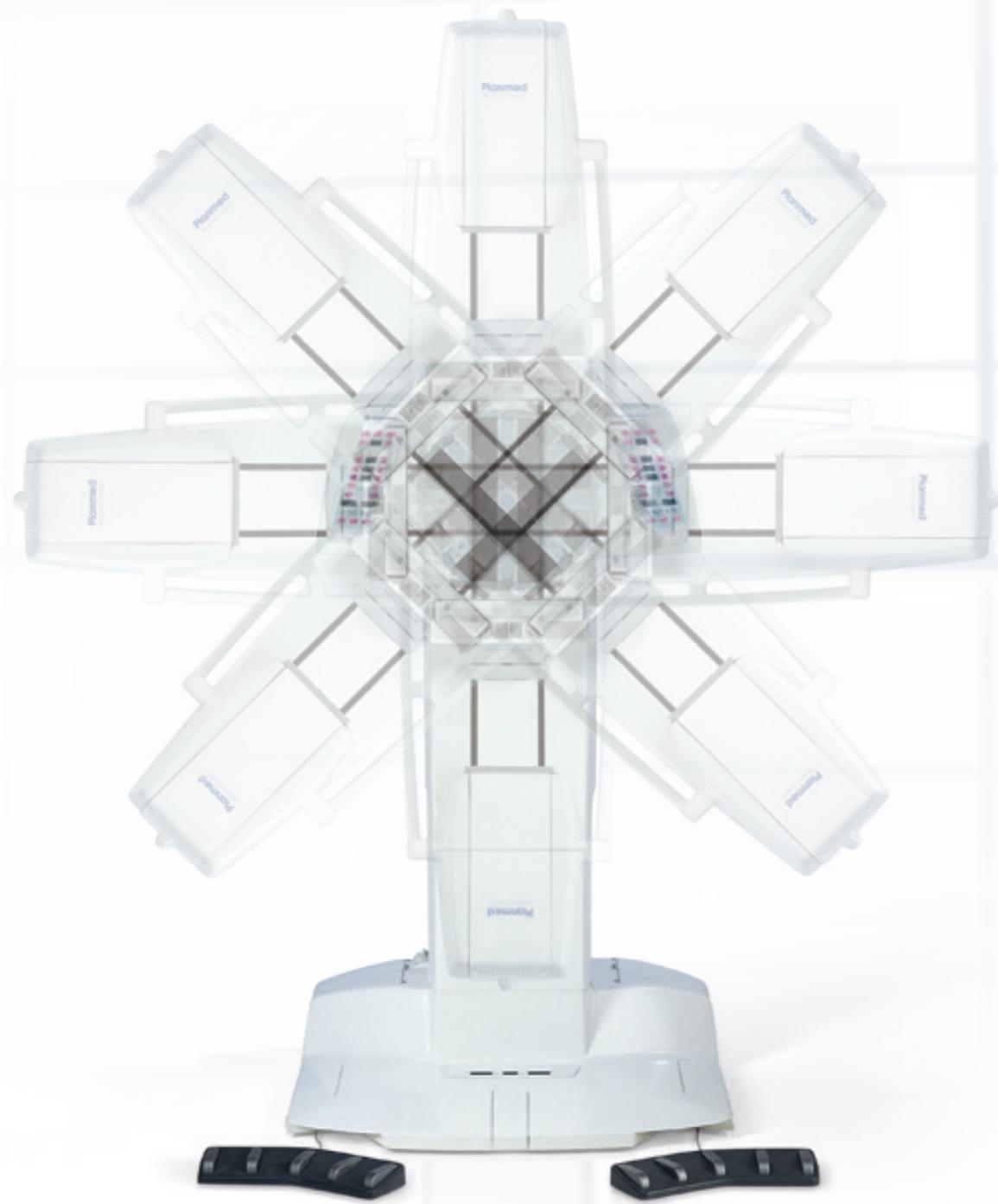
The Planmed Sophie Classic comes with a fully automatic Flex-AEC system. This patented exposure control system has 48 detectors that operate automatically and independently of each other.

The **Planmed Cytoguide™** biopsy needle guidance system is regarded as the most advanced system for stereotactics. Integrated into the Planmed Sophie Classic, the motorized and microprocessor controlled biopsy unit is operated conveniently from either control panel. Long SID, combined with optimized C-arm angulation geometry, contributes greatly to increased accuracy.

In addition, long SID provides more space for breast positioning and ample room for performing stereotactic core biopsy procedures.

The system configuration can be either film/screen based Cytoguide or digital CCD-based DigiGuide. The lightweight biopsy unit is simple to set up and can be easily added to an existing Planmed mammography unit. The Planmed Sophie Classic with Cytoguide and DigiGuide stereotactic device is compatible with most vacuum-assisted breast biopsy probes.

*Exceptional Versatility*



The **Planmed Sophie™ Classic** unit is equipped with an advanced patented driving circuit that further improves the motorized C-arm movements. This innovative design not only makes the C-arm movements faster, but also virtually silent and vibration free. Furthermore, the Planmed Sophie Classic's acclaimed isocentric C-arm rotation and telescopic vertical drive ensure that examinations are highly patient and user friendly.

Two different high speed bi-angular x-ray tubes are available for the entire Planmed equipment line. These state-of-the-art tube assemblies are tailored and optimized to provide higher radiation output with shorter exposure times and improved contrast. Customers can without extra costs specify their choice of tube option at the time of ordering.

The Planmed Sophie Classic stands out from other mammography units with its integrated and extremely compact high-frequency generator. The efficient,

dual power generator produces truly constant imaging power. The ripple-free output reduces glandular dose, eliminates retakes and extends the life span of the x-ray tube.

The innovative telescopic column structure allows for a more compact size, making the unit easily maneuverable during transport, installation and operation. The wide line voltage range, together with 15 amp fuses, allows simple wall outlet connections in most places.

*Analog product line*

**Planmed Sophie™ Classic S:**

- Cost-effective mammography unit
- Slide-in Bucky
- Optional stereotactics and CR interface

**Planmed Sophie™ Classic:**

- High performance mammography platform for a variety of needs
- Auto-Load Bucky
- Optional MaxView, stereotactics and CR interface

**Planmed Nuance™ Classic:**

- PreDigital unit, upgradeable to Full Field Digital Mammography
- Side Access patient positioning
- Optional MaxView, stereotactics and CR interface



*Digital product line*

**Planmed Nuance™:**

- Direct image capture with 17,1 x 23,9 cm detector size
- Integrated MaxView and Side Access
- Optional digital stereotactics
- Optional CAD
- Optional Tungsten X-ray tube with TriFilter® Dose Reduction Technology

**Planmed Nuance™ Excel:**

- Direct image capture with 23,9 x 30,5 cm detector size
- Integrated MaxView and Side Access
- Optional digital stereotactics
- Optional CAD
- Optional Tungsten X-ray tube with TriFilter® Dose Reduction Technology

*Planmed Mammography Highlights*



*Planmed Oy develops, manufactures and markets advanced imaging equipment and accessories for mammography and orthopedic imaging. Planmed's extensive mammography product range covers digital and analog units, stereotactic biopsy devices, and breast positioning systems for an early detection of breast cancer. Within orthopedic 3D imaging Planmed offers low dose extremity CT imaging for quicker, easier and more accurate diagnosis at the Point-of-Care.*

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