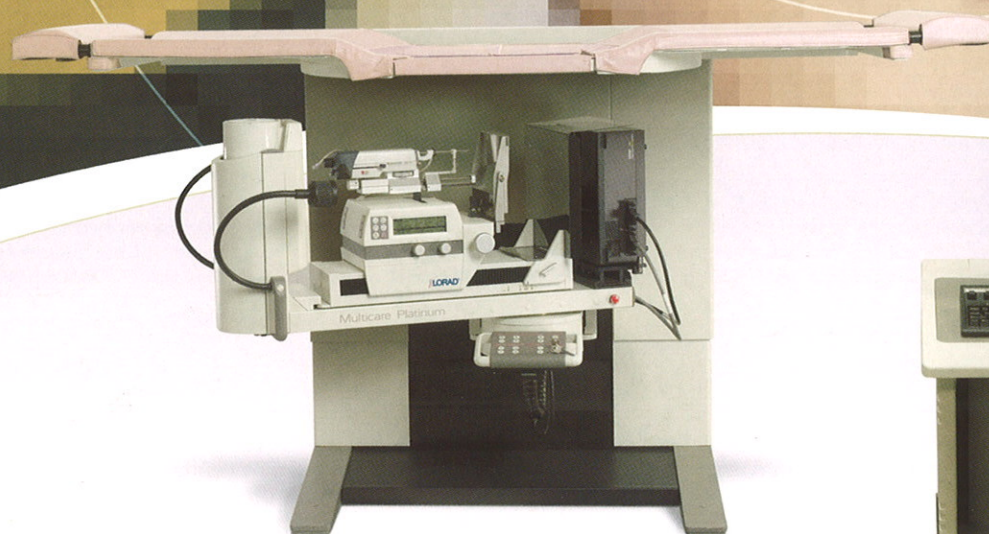


CLARITY OF  
*Vision*



**LORAD**® *MultiCare*®  
PLATINUM

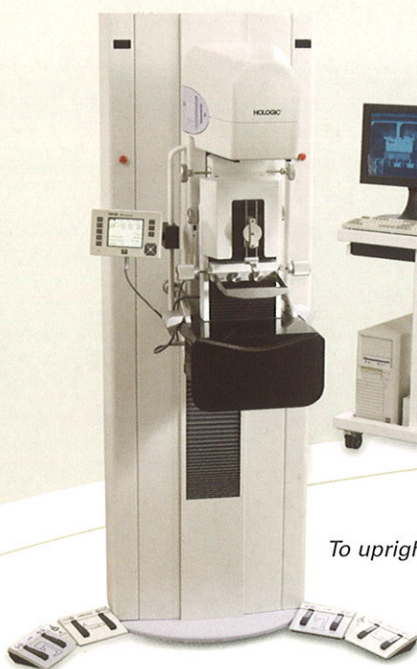
STEREOLOC® II BREAST BIOPSY SYSTEMS

**HOLOGIC**®  
CLARITY OF VISION

# Solutions for Stereotactic Biopsy

*Any breast imaging center, large or small, can look to Hologic for innovative, practical solutions to all their stereotactic biopsy needs.*

Hologic provides the industry's most comprehensive line of state-of-the-art stereotactic breast biopsy systems used for the early detection of breast cancer. Designed with user input and practical considerations in mind, this versatile portfolio makes it possible for any breast imaging center to add stereotactic biopsy to their diagnostic capabilities.



*To upright stereotactic biopsy*

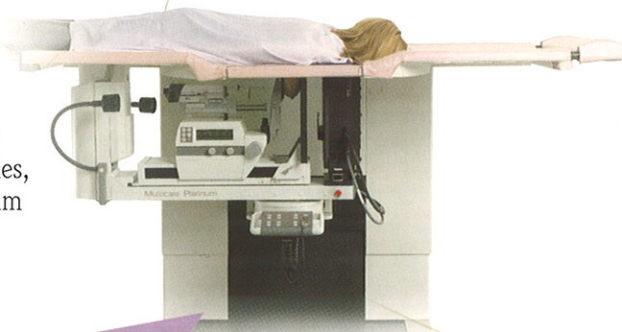


*From screening and diagnostic mammography*



## Versatile Procedure Options

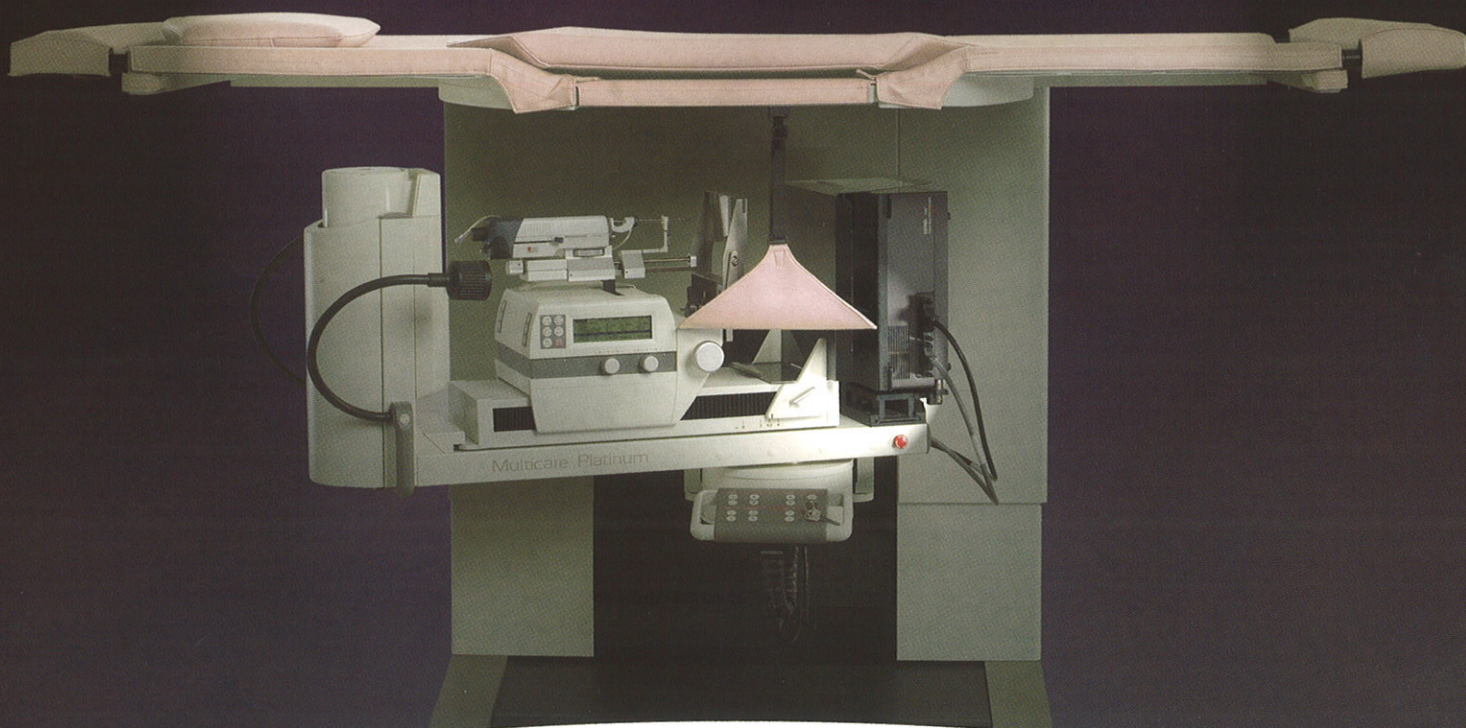
Both the StereoLoc II and MultiCare Platinum offer pinpoint accuracy and precise, efficient operation using a leading-edge targeting and guidance system. Both units are compatible with a wide range of biopsy devices for wire localizations, fine needle aspirations, core needle biopsies, large core biopsies, and vacuum assisted procedures.



*To prone stereotactic biopsy*

# LORAD® MultiCare® PLATINUM

*Focus on Patient Comfort and Efficiency*



## Optimal Patient Comfort

The MultiCare Platinum was designed with patient comfort in mind. Its soft, contoured lines allow a patient to rest in a prone position throughout the procedure, reducing the risk of vasovagal reactions and obscuring the patient's view of the biopsy.

Patient comfort is further enhanced by soft gel pads around the breast aperture for additional cushioning and arm supports for axillary and standard approaches. A fill pad can be used to facilitate exams and ultrasound procedures, eliminating the need to move to another room for these procedures.

## Efficient Space Utilization

The MultiCare Platinum does not require a large room and can be installed within one foot of the wall. The system's small handheld controller and compact generator contribute to further space efficiencies. The generator can be installed behind the table or in another room, allowing optimal flexibility in the design and layout of procedure rooms.

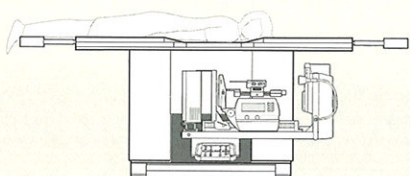
## Handheld Controller

The handheld controller provides a user-friendly interface with the generator and allows the user to efficiently scroll through on-screen data fields, change exposure settings, clear alerts, and initiate x-ray exposure.



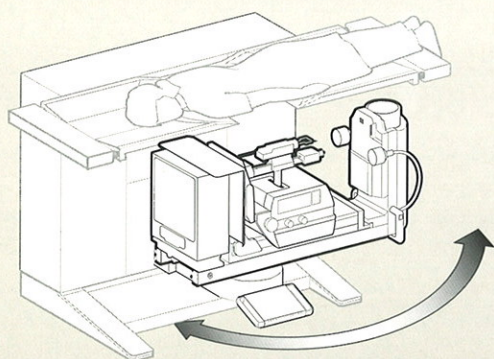
# Optimal Access and Visualization

The MultiCare Platinum prone stereotactic breast biopsy system offers the latest advances in stereotactic technology in a package designed to provide enhanced patient comfort and ease of operator use.



## True 360° Access

The MultiCare Platinum's exclusive contoured table with a centered aperture allows the patient to lie prone in either direction. The C-arm can be positioned at any angle through 180°, providing true 360° access. This flexible positioning capability ensures easy access to the shortest skin-to-lesion distance and direct access to inferior lesions. Approach angles can be varied with minimal to no movement of the patient, ensuring fast, efficient completion of procedures.



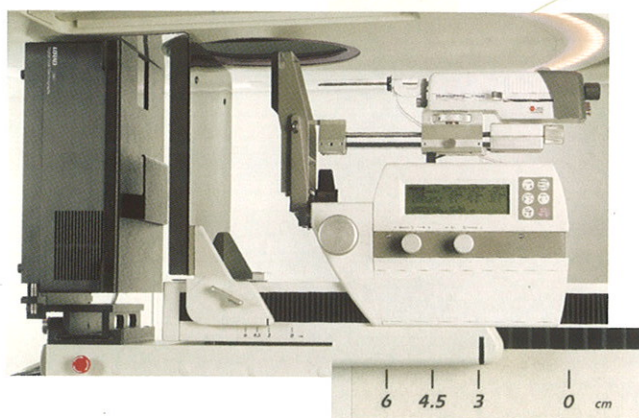
## Stereo Imaging

The stable design of the system allows the stage to remain fixed at all times. The image receptor moves in tandem with the x-ray tube, with imaging components rotating around the lesion. This allows the x-ray beam to remain perpendicular to the image receptor, thus eliminating the image distortion generally associated with increased parallax.



## Adjustable Breast Tray

The MultiCare Platinum uses an adjustable breast tray to compensate for variable breast thicknesses. This feature reduces lesion shift in stereo views.



## Scatter Reduction

The system is designed to provide an air gap between the breast and the image receptor. This minimizes the amount of scatter radiation reaching the image receptor. The use of stainless steel compression paddles further decreases scatter, for higher contrast images.

# Exceptional Accuracy

## Enhanced lesion targeting

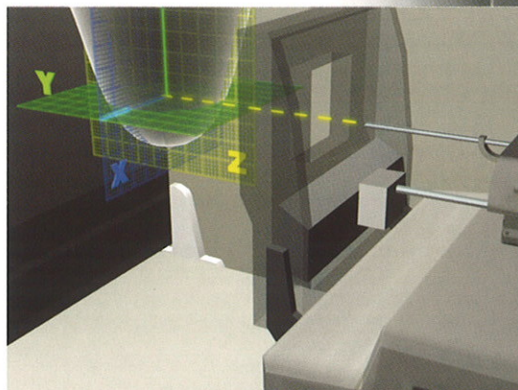
### Precise Needle Guidance

The system's intuitive Cartesian Coordinate System ensures accurate targeting ( $\pm 1$ mm) and safe, easy access to all lesions, including chest wall and axillary regions.

The system determines the precise position of the lesion in the X, Y, and Z planes. Lesion coordinates are transmitted to the automated needle guidance system and the stage is automatically positioned to the X and Y coordinates. The stage is advanced manually along the Z axis for maximum control.

### Exceptional Accuracy

With Cartesian Coordinates, the biopsy instrument remains parallel to the chest wall, assuring that the location of the needle tip will be visualized in both the pre and post-fire images.



MODE	NEEDLE CORE BIOPSY		PRESET
COORDINATES	X	Y	Z
STAGE	0.0mm	32.7mm	17.5mm
TARGET Old A	-5.1	32.7	28.4
DIFFERENTIAL	5.1	0.0	-10.9
COMPRESSION	119.5mm		
STROKE 19	STROKE MARGIN	93.7mm	

### SmartWindow®

The SmartWindow display provides real time simulation of lesion and needle position. Graphic and numeric display assures easy visualization of the needle tip in relation to the target.

### Scout Film Advantage

The location of the film holder on the MultiCare Platinum allows an analog scout film to be taken without removing the stage or the patient from the table to insert a screen-film cassette. This allows procedures to proceed without disruption, for enhanced convenience for the patient and greater operating efficiency.



LORAD BREAST CANCER DETECTION

# Digital

## Spot Mammography

*The heart of our stereotactic breast biopsy systems*

*Efficient targeting and  
flexible image processing  
options*

Operating on a familiar Windows® platform, the DSM provides a wide array of tools for effective targeting and image enhancement:

- ScoutMarc® creates a new stereo pair from one scout view and a stereo pair. This assures continuation of the procedure in cases where the area of interest is visible in only one 15° view.
- Custom Dialog Box provides the ability to manipulate both images and save the changes within one box
- Multi-Contrast Enhancement filter enhances contrast and adds sharpening to the image
- Unsharp Masking provides the ability to accentuate both low and high frequency data to enhance detail and sharpness of structures
- View Stage Cursors allows both the current and last transmitted stereo cursors to be displayed simultaneously.
- ACR Accreditation SMPTE is included to facilitate QA procedures



### DICOM 3.0 Compatible

DSM provides DICOM 3.0 Print as a standard component. DICOM Verification, Modality Worklist Management, Store, Storage Commit and/or Query/Retrieve functions are available as a system option.

### Leading-edge Technology

The DSM's powerful computer with archival capabilities provides both the speed and memory for optimized operating efficiencies. An 18" high resolution monochrome flat panel monitor supports efficient and effective viewing of images.

### Dual Mode Acquisition

Different clinical needs are addressed through the DSM's Dual Mode Acquisition feature:

- 512 Mode provides high contrast resolution for differentiation of soft tissue masses at reduced dose
- 1024 Mode provides high spatial resolution for enhanced imaging of subtle calcifications

### Automatic Exposure Control (AEC)

The system's AEC automatically calculates optimal mAs, while the operator selects kV, for enhanced precision and efficiency.

*ScoutMarc provides greater targeting flexibility in difficult cases.*

# StereoLoc II

## ***Proven Upright Stereotactic Technology***

Hologic's StereoLoc II was built on the technology platform developed for prone stereotactic applications. This common platform allows the StereoLoc II to provide the same image quality, targeting accuracy, flexibility in procedural options, image processing functions, and operational efficiencies.

The StereoLoc II with DSM considerably reduces procedure time and allows maximum utilization of mammography suites. With a quick and easy transition from mammography to stereotactic mode, the StereoLoc II provides an effective solution to room size limitations and gives practices a cost-effective method to expand its range of service offerings.



### ***Universal StereoLoc II Cart***

*A space-saving, multi-purpose Cart is available to support the DSM Workstation and house the entire stereotactic system. The Cart is mobile, for easy maneuvering, and compact for easy storage when not in use.*



### **System Versatility**

The system supports both screen-film and digital applications and provides nearly 360° access to the breast from a seated position. Inferior approach to 6 o'clock lesions is made possible by the M-IV's C-arm rotation of +180 (+/-15°) and -150°

Effective working space is provided by the generous clearance between the biopsy device and the tubehead, for streamlined procedures.

Motorized rotation of the C-arm assures proper 15° tube shift sequence controlled by electronic interface. Automatic collimation for stereotactic procedures eliminates the need for apertures, for enhanced operation.

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to challenge the boundaries of science and technology every day to raise the  
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**Osteoporosis Assessment ■ DirectRay® Digital Imaging**  
**LORAD® Breast Cancer Detection ■ FLUOROSCAN™ C-arm Imaging**



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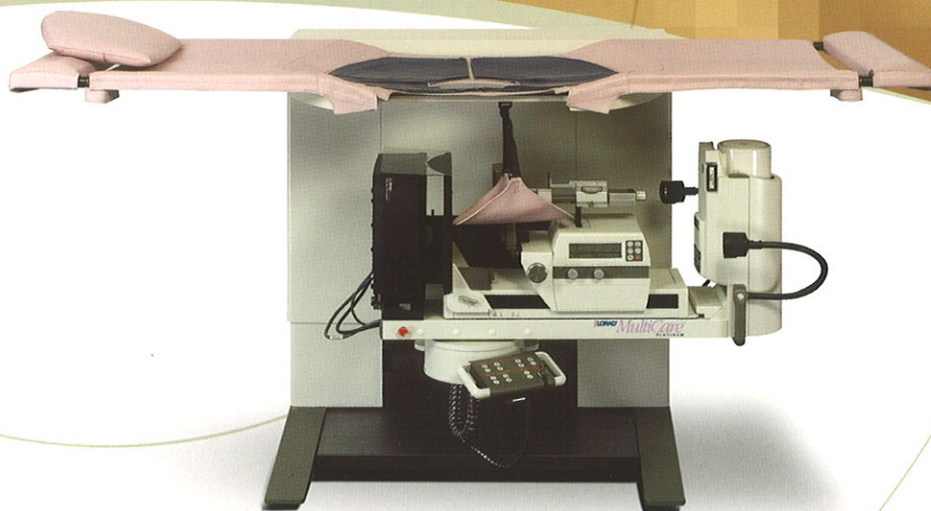
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## **LORAD®** *MultiCare* PLATINUM

The MultiCare Platinum prone stereotactic breast biopsy system offers the latest advances in stereotactic technology in a package designed to provide enhanced patient comfort and efficient, accurate targeting.

### **Optimal Patient Comfort**

Soft, contoured lines and standard Comfort Package

### **Superb Image Quality**

With advanced Digital Spot Mammography (DSM) System

### **True 360° Access**

Without additional attachments

### **Precise Needle Guidance**

Intuitive Cartesian coordinates ensures accurate targeting ( $\pm 1$  mm)

### **ScoutMarc®**

For greater targeting flexibility

### **Efficient Space Utilization**

Can be installed within one foot of the wall

# MultiCare® Platinum Table Specifications

## Elevating Table Assembly

Table Type.....	Bi-Directional
Motorized Height Range .....	40 to 57 in (102 cm to 145 cm)
Table Surface Dimensions.....	72 x 28 in (221 cm x 71 cm) Closed
Maximum Length.....	106 in (269 cm)
	(17 in [43 cm] Leg Extensions Each End)
Table Aperture Diameter.....	10 in (25 cm)
Maximum Patient Weight .....	300 lbs (135 kg)

## Undertable C-arm Assembly

Total Access.....	360° C-arm Rotation Angle
	0° to 180° Continuously Variable
C-arm Motion .....	Longitudinal: ±4 in (10.2 cm)
	Transverse: ±4 in (10.2 cm)
Independent Vertical	
C-arm Motion .....	7.75 in (20 cm)
Work Area Light.....	2 Adjustable Halogen Lamps on C-arm
	Under-table Aperture Lighting

## Compression

Pre-compression.....	Motorized
Compression .....	Manual, Handwheel Driven
Release .....	Motorized
Controls.....	Keypad or by Function Footswitch

## Stereotactic Guidance System

Type .....	Cartesian Coordinate System with SmartWindows
Accuracy .....	±1.0 mm
Stereotactic Angle .....	±15°
Stage Movements.....	X & Y Axis: Motorized; Z Axis: Manual
Display Mode Options .....	Needle Core Biopsy (NCB)
	Fine Needle Aspiration (FNA)
	Wire Localization (WL)

## X-ray Generator

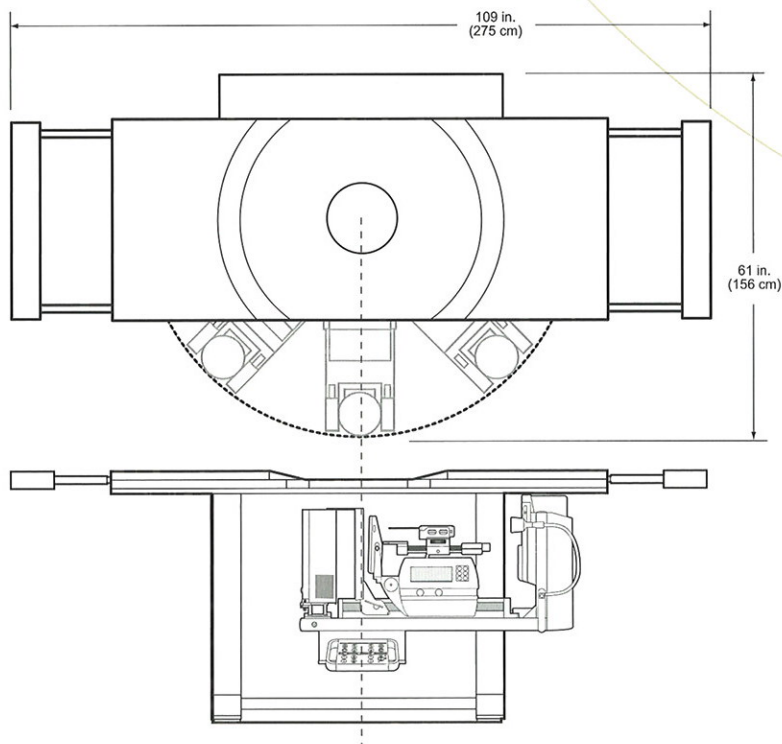
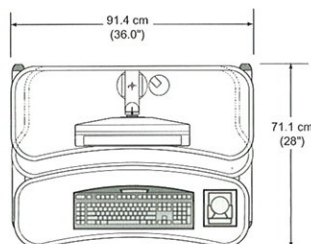
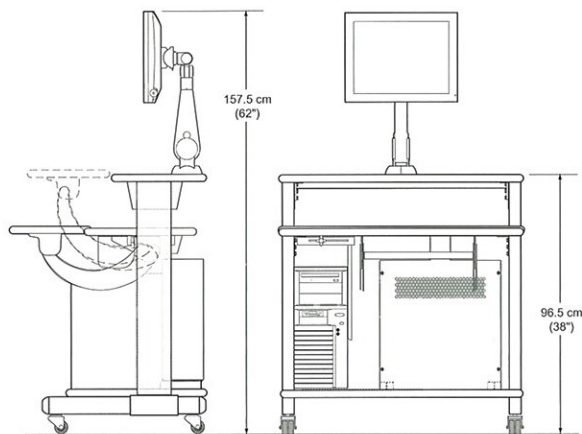
Type.....	Constant Potential, High Frequency, Inverter Type
Output Rating .....	2.38kW (70mA at 34kV) Maximum
Input Power.....	200/208/220/230/240 VAC, ±10%, 50/60 Hz
kV Range.....	22 – 34kV
mAs Range .....	3-400mAs
Idle Current.....	4 Amps Maximum
Maximum Line Current.....	35 Amps, 5 Seconds
Circuit Breaker Rating.....	15 Amps
Weight .....	190 lbs (86 kg)
Generator Control Unit.....	Handheld Controller

## Handheld Controller

Components .....	LCD Screen, Function Keypad
	X-ray Exposure Switch
Alerts .....	Exposure Technique, System Status

## X-ray Tube

Anode Type.....	Molybdenum, Rotating
Anode Speed.....	3600 RPM
Tube Potential .....	22kV – 34kV in 1kV Increments, Constant Potential
Tube Current.....	80mA at 22kV – 28kV
	70mA at 29kV – 34kV
Heat Capacity.....	300,000 HU (222 kJoules)
Target-Tube Angle.....	10°
Focal Spot Size .....	0.25 mm Square – Nominal
Permanent Filtration .....	30 µm Molybdenum
Port .....	Beryllium



## DSM® Specifications

### Digital Imaging Detector

#### System Features

Tissue Image Area .....	5.5 cm x 5.5 cm at the Breast Platform (4.5 cm offset platform)
Image Display Resolution .....	512 or 1024 Pixel Resolution
Image Dynamic Range .....	14 Bit Gray Scale (16,384 gray levels)
Magnification Factor.....	1.327 Measured from Center of Compressed Breast
Effective Pixel Size .....	49.91 $\mu$ m (H) x 49.91 $\mu$ m (V)
Pixel Resolution .....	20.04 pixels/mm (1024 Mode)
Spatial Resolution.....	9 – 10 lp/mm (1024 Mode)
Detective Quantum Efficiency .....	High

#### DSM Camera

Type.....	CCD Sensor Coupled to High Efficiency Lens
Intensifying Screen .....	High Efficiency Front Phosphor
Digitizing Resolution.....	14 Bit Data
Dark Field Read Noise .....	25 Electrons (RMS)
Saturation Signal .....	113,000 Electrons (1024 Mode) 56,500 Electrons (512 Mode)
Quantum Efficiency .....	~60% at 550nm
Output Sensitivity.....	86.45 uV/electron (1024 Mode) 172.9 uV/electron (512 Mode)

#### CCD Sensor

Architecture .....	Full-frame CCD
Pixel Count.....	1024 (H) x 1024 (V)
Pixel Size.....	24 $\mu$ m (H) x 24 $\mu$ m (V)
Optical Fill Factor.....	100%
Full Well Capacity.....	1,400,000 Electrons (High Dynamic Range Output)
Output Sensitivity.....	1.53 uV/electron (High Dynamic Range Output)

### Processing Station

#### Computer

Microprocessor .....	Intel Based Pentium CPU Workstation
Operating System .....	Windows® 2000
Archive Media.....	DVD+R/RW, CD-R/RW

#### Monitor

Type.....	LCD Flat Panel
Display Area .....	18.1" Diagonal (46 cm) Minimum
Viewing Angle .....	170° (Typical)
Resolution .....	1280 x 1024
Brightness.....	700 cd/m <sup>2</sup>
Pixel Pitch .....	0.2850 mm x 0.2850 mm
Contrast Ratio.....	550 to 1 (Typical)

### System Requirements

Input Power .....	100-120 VAC, 50-60 Hz, 5 Amps 220-240 VAC, 50-60 Hz, 2.5 Amps
Ambient Operating Temperature Range.....	50° - 95° F (10° - 35° C)

## Accessories

### Standard Accessories

#### Compression Paddles

Scout Biopsy Paddle
17 cm Stainless Steel Biopsy Paddle
10 cm Stainless Steel Axillary Biopsy Paddle
T-shaped Ultrasound Biopsy Paddle
Perforated Biopsy Paddle

#### Interchangeable Apertures

Scout Aperture
Digital Stereo Aperture

#### Comfort Package

Gel Pads (2)
Arm Sling
Filler Panel
Foam Cushion

### Accessories

Dual Function Footswitch
MIN-R 2000 Cassette(18 cm x 24 cm)
Refuse Tray
Pillow
Stool with Backrest
Quality Assurance Needle
FNA Guide
Needle Localization Guides
14 G Needle Guides
Biopsy Gun Holder (Bard Magnum)
Needle Guide Holder
DSM Film Scout Holder
Air Phantom
DICOM Print
DSM Computer Cart
Operator's Manual & Service Manual

### Optional Accessories

#### Table

Additional Stool with Backrest
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#### DSM

DICOM Verification, Modality Worklist Management, Store, Storage Commit, and/or Query/Retrieve
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**Lorad® Breast Cancer Detection ■ Osteoporosis Assessment**



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CLARITY OF  
*Vision*

ADVANCED  
**Biopsy Solutions**  
for the Breast Imaging Suite

# EXCEPTIONAL PERFORMANCE Advanced Technology and Compassionate Care

## **Focusing on your Needs**

*Over 1.5 million women undergo open surgical breast biopsy each year. Now there is a reliable, accurate diagnostic alternative to open surgical biopsy that reduces recovery time, emotional stress, and expense.*

## **Advanced Biopsy Solutions for Breast Imaging**

At Hologic, our unwavering commitment to women's health pushes us to constantly seek better, more innovative solutions for the early detection of breast cancer. Our partnership with Suros Surgical Systems brings the best choice in minimally invasive breast biopsy devices to the breast imaging suite.

The Suros Automated Tissue Excision and Collection breast biopsy and excision system (ATEC™) is technologically advanced and the most efficient breast biopsy system you can choose. Fully compatible with Hologic's MultiCare Platinum stereotactic biopsy system and our Alexa ultrasound system, this versatile combination offers a complete solution for every breast center and gives women a reliable, effective alternative to open surgical biopsy.



*Alexa™*

**ATEC™**

## **Ultrasound-Guided Breast Biopsy**

Our Alexa ultrasound system, partnered with the ATEC breast biopsy device offer an excellent way to evaluate breast abnormalities detected by mammography, as well as suspicious masses that are best visualized with ultrasound.

PARTNERSHIP IS  
**COMMITMENT**  
A Shared Sense of Purpose

## *A Solution for all Image Guided Breast Biopsy Procedures*

The ATEC is the first and only vacuum assisted breast biopsy system designed for use with all image guided breast biopsy procedures.

- Weighing only seven ounces, the ATEC handpiece is lightweight and easy to handle, and well suited for ultrasound guided biopsies.
- Single foot pedal operation and automatic core collection allow multiple samples to be taken quickly, minimizing procedure time and patient discomfort.
- True 12 and 9 gauge disposable needles are available in standard, long, extra long and petite lengths to accommodate a wide variety of patient needs.

### **Patient Safety and Comfort — Our Key Consideration**

ATEC was designed with patient safety in mind. The closed system design reduces fluid exposure and core handling. Constant aspiration and lavage minimize the chance of a hematoma forming. The disposable handpiece reduces the risk of contamination and minimizes the set-up and clean up time.

*"I see this ATEC device as being as great of an advance as the other types of imaging guided biopsy procedures that have been developed in the last decade. This is the last piece of that puzzle that we really needed to be able to serve most women."*

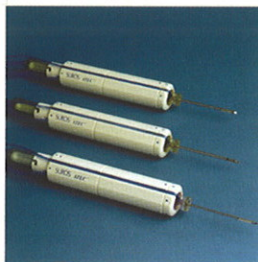
Valerie Jackson, MD  
Interim Chairman of Radiology  
Indiana University School of Medicine  
Past President, American College of Radiology

*"We were discussing the use of the Suros ATEC system on lesions close to the chest wall, or 'high' on the Lorad® stereotable. I haven't had any trouble. I just used the 9 gauge today on one with a 'Y' coordinate of 5.8 — right at the very top and had no trouble."*

Rita Zuley, MD,  
Elizabeth Wende Breast Clinic  
Rochester, NY

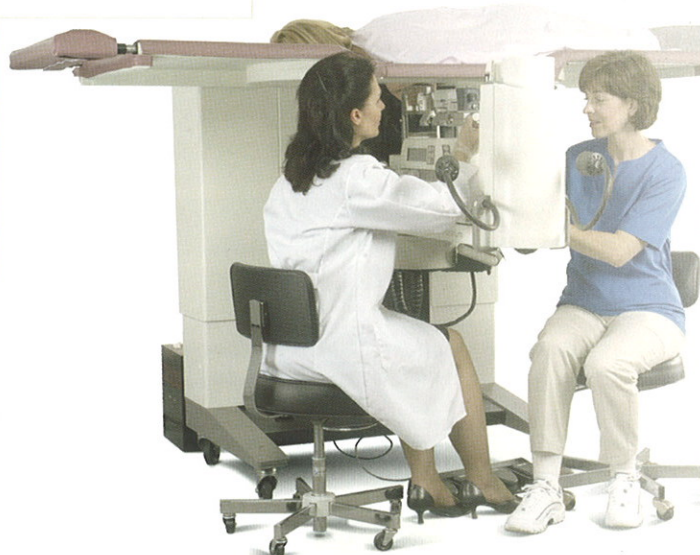
Suros

MultiCare  
PLATINUM



### **Stereotactic Guided Breast Biopsy**

The MultiCare Platinum offers the latest advances in stereotactic technology, making it the ideal system for characterization of calcifications, masses and architectural distortion. Intuitive Cartesian coordinate mapping ensures accurate targeting and safe, easy access to all lesions. ATEC allows up to 16 biopsies per minute, helping to reduce procedure time and minimize patient discomfort.



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