

Hologic Affirm™ Prone Biopsy System

Introducing the first dedicated prone biopsy system with 2D/3D™ imaging. Hologic brings 3D™ imaging to prone procedures and enables high-resolution 2D imaging – for those who haven't yet moved to 3D™ breast screening. Explore the technical details of the Hologic Affirm™ prone system on the following pages. Contact your Hologic representative to learn more about this next-generation solution.



Exceptional image quality.

Using the same proven detector technology as our Selenia® Dimensions® mammography system, Hologic's Affirm™ prone system helps you pinpoint subtle lesions and faint calcifications found during mammography exams.



Streamlined workflow.

With automated tube-head motion, programmed biopsy needle parameters, and one-click targeting for 3D™ breast biopsies, you can generate high quality images in seconds – for fast procedures and an exceptional patient experience.



Easy 360° breast access.

A fully integrated C-arm enables 360° breast access to challenging lesions. Go from standard to lateral needle approach in seconds to accelerate procedures.

Technical Specifications

Overall System Specifications

General Operating Conditions	
Temperature range	10°C to 30°C (50°F - 86°F)
Max rate of temperature change	10°C per hour
Relative humidity range	10% to 80%, non-condensing

Electrical Specifications

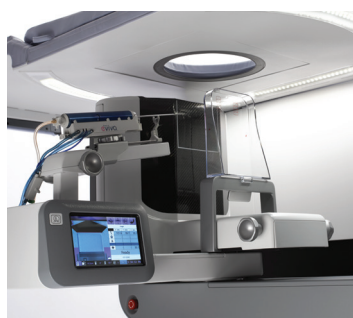
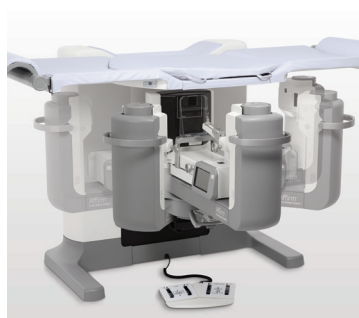
System Protection	
Uninterruptable power supply	700 VA, 420 W output power
Electrical Requirements	
Input line voltage	200/208/220/230/240 VAC ±10%
Average line current over 24 hours	< 5 A
Peak line current	4 A (65 A maximum for < 5 seconds)
Frequency	50/60 Hz ±5%

General Specifications

Acquisition Workstation	
CPU type	Multi-core Intel
Memory	4 GB
Hard drive size	1 TB
Operating system	Windows 7/64-bit Embedded
Ethernet	100/1000 BASE-T Ethernet
Height range (Floor to work surface)	71.1 cm (28 in) to 111.8 cm (44 in)
Adjustable vertical travel	40.6 cm (16 in)
Adjustment type	Electronic
Removable storage	CD/DVD +/- R/W
USB ports	6X USB 2.0
Local image buffer	2D Images: 200,000 images 3D™ Images: 5,000 images
Workflow display monitor	17" 1280 x 1024 resolution
Image display monitor	2 MP or 3 MP DICOM display

X-ray Gantry Specifications

Gantry Mechanics	
Gantry weight	445 kg (980 lbs.)
Generator weight	136 kg (300 lbs.)
Acquisition workstation weight	114 kg (252 lbs.)
Patient Support Platform	
Type	Bidirectional patient positioning
Motorized height range	86.4 - 145 cm (34 - 57 in)
Patient weight limit (lift and support)	181.4 kg (400 lbs.)
Lighting	LED: Under table and biopsy field work light
C-arm	
Design	Fully integrated and independently rotating tube-arm, biopsy arm, detector mechanism
Lateral needle approach	Fully integrated into biopsy arm
Rotation	180° continuous
Source-Image Distance (SID)	80 cm (31.5 in)
Breast Compression	
Pre-compression	Motorized
Compression	Manual, handwheel driven
Release	Motorized
Controls	Handwheel or footswitch
Manual compression force	67.4 lb. (300 N) maximum
Motorized compression force	14 lb. (62.3 N) minimum 45 lb. (200 N) maximum
Paddles	5 cm x 5 cm (biopsy window) standard, 6 cm x 7 cm standard, 5 cm x 5 cm axillary, 15 cm (total width) lateral



Affirm™

Prone Biopsy System

Digital Image Receptor

Technology	
Type	TFT-based direct capture
X-ray absorption material	Amorphous selenium
Image receptor size (H x W)	33 cm (13 in) x 21.5 cm (8.46 in)
Field of view size	14.3 cm (5.63 in) x 12.5 cm (4.9 in)
Pixel size	70 µm
Limiting spatial resolution	2D: 7.1 lp/mm 3D™ procedure: 7.1 lp/mm
Dynamic range	Linear response over greater than 400:1 dynamic range
Captured image bit depth	14 bit
Geometric magnification	1.18
Storage Environment	
Storage temperature range	10°C to 35°C
Relative humidity range	10% to 80%, non-condensing

X-ray Subsystem

Stand-Alone Generator	
Type	Constant potential high frequency inverter
Rating	7.0 kW (large focus) maximum, at 34kV)
Electrical power capacity	9.0 kW maximum
kV Range	20-49 kVp in 1 kVp increments
mAs Range	3-500 mAs, 45 steps: 3.2, 3.6, 4, 4.5, 5, 5.6, 6.3, 7.1, 8, 9, 10, 11, 12.5, 14, 16, 18, 20, 22, 25, 28, 32, 36, 40, 45, 50, 56, 63, 71, 80, 90, 100, 110, 125, 140, 160, 180, 200, 220, 250, 280, 320, 360, 400, 450, 500 mAs
mA Range	10-200 mA
X-ray Tube	
Anode type	Tungsten
Focal spot size	0.3 mm nominal
Filtration	Aluminum, 0.70 mm nominal Silver, 0.050 mm +/- 10%
Port	Beryllium

Biopsy Guidance

Specifications	
Needle guidance	Cartesian coordinate
Accuracy	+/- 1 mm
Stereotactic angle	+/- 15°
Tomosynthesis angle	+/- 7.5°
Guidance movements	2 axis motorized, manual advance needle into the breast
Range of movement	Horizontal: -3.5 cm to +3.5 cm Vertical: 0 to 5.0 cm Needle: 0 to 10.0 cm
Biopsy control module	Color 1024 x 600 pixel resolution touch screen

Acquisition Workstation

Connectivity	
DICOM services	Print, query, storage, storage commitment, worklist
Integration profile: Scheduled workflow	Actor: Acquisition modality <ul style="list-style-type: none"> Option: Assisted acquisition protocol setting Option: PPS exception management Option: Broad worklist query Option: Patient-based worklist query
Integration profile: Patient information reconciliation	Actor: Acquisition modality <ul style="list-style-type: none"> Option: None
Integration profile: Access to radiology information	Actor: Image display <ul style="list-style-type: none"> Option: None
Integration profile: Portable data for imaging	Actor: Portable media creator <ul style="list-style-type: none"> Option: None

Note: Tomosynthesis guided biopsy optional upgrade for 2D configuration.



Hologic is a global company using **The Science of Sure** to improve lives by innovating and bringing to market the best diagnostic, detection and surgical technology in the world. We integrate The Science of Sure into everything we do to help healthcare professionals discover, diagnose, and treat their patients with progressive certainty to deliver ever-greater **peace of mind**.

www.hologic.com | info@hologic.com | +1.781.999.7300

**Hologic Headquarters
United States / Latin America**
250 Campus Drive
Marlborough, MA 01752
USA Tel: +1.508.263.2900
Sales: +1.781.999.7453
Fax: +1.781.280.0668
Email: info@hologic.com

Hologic Europe
Everest (Cross Point)
Leuvensesteenweg
250A 1800
Vilvoorde, Belgium
Tel: +32.2.711.4680
Fax: +32.2.725.2087

Hologic Asia Pacific
7th Floor, Biotech Centre 2
No. 11 Science Park West Avenue
Hong Kong Science Park
Shatin, New Territories, Hong Kong
Tel: +852.3748.7700
Fax: +852.3526.0723

Hologic Australia
Suite 402, Level 4
2 Lyon Park Road
Macquarie Park NSW 2113
Australia
Tel: +61.2.9888.8000
Fax: +61.2.9870.7555

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