



Selenia Dimensions with AWS 8000

Changing the paradigm of breast cancer detection through innovation

Selenia® Dimensions® is the industry's most sophisticated digital mammography system.

The premium breast imaging system is designed for leading breast centers that desire superb image quality, reduced patient dose, high productivity, and a flexible platform designed for advanced applications. Selenia Dimensions can be used to perform screening and diagnostic mammography as well as breast tomosynthesis.¹

Selenia Dimensions with AWS 8000 is a state-of-the-art system designed to streamline workflow and improve productivity for the technologist. One touch controls, a biometric login and ergonomically designed exposure switches are just a few of the unique system features to help improve exam efficiency.

This versatile platform also opens the doorway to future advances in breast imaging, such as tomosynthesis-guided biopsy, contrast-enhanced tomosynthesis, and tomosynthesis fusion technologies.



Selenia Dimensions with AWS 8000



Selenia® Dimensions® with AWS 8000 System Specifications

General Operating Conditions

Relative Humidity Range 20% to 80% non-condensing

Acquistion Workstation

CPUMulti-Core Intel Based CPU

 Memory
 .6 GB RAM

 Hard Drive
 .1.0 TB

 Storage Media
 .DVD +/- R/W

Image Display Technology 3 Megapixel Grayscale Medical Grade LCD Display User Interface Display 1.2 Megapixel Touchscreen Color LCD Display

Operating SystemMicrosoft Windows XP, Embedded

Query/Retrieve, Modality Performed Procedure Step

Reconciliation, Mammography Image

User Interface $\ \ldots \$ Keyboard, trackball, touchpad, biometrics scanner,

bar code scanner

Local Image Store Capacity . . Approximately 9,000 screening mammography

studies; or 3,000 combined screening mammography and tomosynthesis studies²

Ergonomic Enhancements . . . Touchscreen User Interface (No-Lift Advantage);

Biometrics User Login; Automated Barcode Reader;

Articulated Image Display

Exposure Modes

ManualOperator selects all parameters

Auto-Filter System selects filter, kV and mAs

Integrated Radiation Shield

Electrical Requirements

Input Line Voltage100/120/220/230/240 VAC

2.0 Amps maximum @ 200/220/230/240 VAC

Frequency 50/60 Hz

Digital Image Receptor

TypeTFT-based Direct Capture Technology

X-Ray Absorption Material . . Amorphous Selenium

Image Receptor SizeSingle Plate 24 cm x 29 cm
Imaging ModesConventional Mammography; Tomosynthesis²;

Combined Conventional Mammography and

Tomosynthesis²

center, left and right detector locations; 24 cm x 29 cm (3328 x 4096) at center location

Diagnostic Views $\dots 18 \text{ cm x } 24 \text{ cm nominal at center, left and}$

right detector locations

Magnification Views $\,\ldots\,$.18 cm x 24 cm nominal at center detector location

 $\ \ \, \text{Limiting Spatial Resolution} \ \ ... 7.1 \ \text{Ip/mm, Conventional Mammography}; \\$

3.5 lp/mm,Tomosynthesis²

Dynamic Range Linear response over 400:1 in x-ray exposure

SaturationX-ray exposure level at which image pixels are

saturated is not less than 500 mR

Anti-scatter GridHTC® Grid with Auto-Retract for geometric

magnification views and Tomosynthesis

Storage Environment

Storage Temperature Range . . 10° C to 30° C

Maximum Rate of

Temperature Change<10° C/hour

Relative Humidity Range 10% to 80% non-condensing

Mammography Compliant Printers

Agfa DRYSTAR 4500M, 5500, 5503, AXYS Fuji DryPix 4000, 5000, 7000, FM DP-L Kodak DryView 5850, 6800, 6850, 8610, 8900M Konica-Minolta DRYPRO 793, 873 Sony UP-DF 750

X-ray Gantry

Generator

TypeConstant Potential High Frequency

Inverter Type

Electrical Power Capacity . . . 9.0 kW maximum

10 mA to 50 mA, Small Focal Spot

X-ray Tube

Anode TypeTungsten, rotating

Anode DesignBi-angular

Target-Tube Angle16° (Large Focal Spot), 10° (Small Focal Spot)

Heat Capacity300,000 HU (222 kJoules)

Focal Spot Size0.1 mm (Small), 0.3 mm (Large)

0.70 mm Aluminum (Al)2

Port Beryllium

Electrical Requirements

Input Line Voltage $\dots 200/208/220/230/240$ VAC nominal $\pm 10\%$

at 208 VAC (40A input breaker rating) maximum

Number of Phases Single, permanently wired

C-Arm Assembly (Biopsy-Ready)

Vertical Travel27.8 in to 56.0 in (71 cm to 142 cm) motorized

+180° to -140°, Biopsy, Tomosynthesis²

SID70 cm

Patient Face ShieldRemovable, Retractable²

Compression Modes (Operator Selectable)

Pre-compression15.7 lbs to 30 lbs (70 to 134 Newtons [N]),

motorized

Full Compression 20 lbs to 40 lbs (89 to 178 N), motorized

Dual Compression First activation provides pre-compression force;

incremental increase of compression with each subsequent activation up to full compression

Manual Compression 67.4 lbs (300 N) maximum

Compression TiltStandard, FAST; User Selectable

Magnification

Magnification Factor 1.5x; 1.8x

Collimation System

Collimation Mode Fully automatic or user-selectable

Predefined Collimation

Size settings $\dots 24 \text{ cm x } 29 \text{ cm}$

18 cm x 29 cm² 18 cm x 24 cm

15 cm x 15 cm

10 cm x 10 cm

7.5 cm x 8.0 cm

Components

Standard Components

Screening Compression

18 cm x 24 cm

Small Breast Paddle

Diagnostic Compression

Paddles 10 cm Contact Paddle

7.5 cm Spot Contact Paddle

Frameless Spot Paddle

Magnification Compression

7.5 cm Spot Magnification Paddle

Accessories Removable Face Shield

Magnification Platform

Dual Function Footswitches (2)

System Options

Diagnostic Compression

Magnification Compression

Needle Localization

Paddles10 cm Open Localization Paddle

15 cm Open Localization Paddle

10 cm Perforated Localization Paddle

15 cm Perforated Localization Paddle

10 cm Open Localization Paddle for Magnification

AccessoriesLocalization Crosshair Assemblies (contact, magnification)

Needle Localization Kit 10 cm Open Localization Paddle

10 cm Open Localization Paddle for Magnification

Localization Crosshair Assemblies (contact, magnification)

TomosynthesisTomosynthesis Imaging License

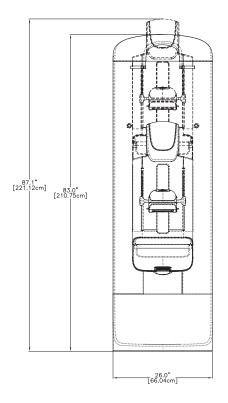
Tomosynthesis Retractable Face Shield

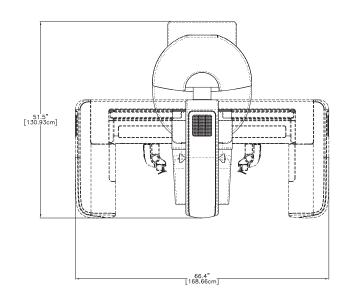
Tomosynthesis Image Review License (single workstation)

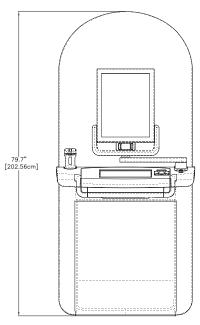
 $Image\ Analysis\ Tools\ \dots\dots.Image\ Checker^{\circledR}\ CAD$

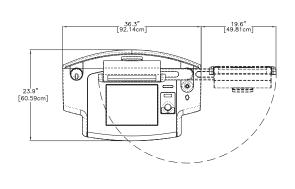
Quantra™

Selenia® Dimensions® with AWS 8000









- ¹ Not available in all markets.
- ² Available when the tomosynthesis option is installed.
- $^{\rm 3}$ The kV range is limited to 39 kV if the tomosynthesis option is not installed.

DS-00173 (10/10) Not available in United States. International. $\ensuremath{\texttt{©}}$ 2010 Hologic Inc. All rights reserved. Specifications subject to change without notice. Hologic, Selenia, and Selenia Dimensions and associated logos are trademarks and/or registered trademarks of Hologic, Inc. and/or its subsidiaries in



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