



The Hitachi Aloka ARIETTA 70 powering SOFIA is a premium ultrasound system supporting multiple applications in addition to whole breast scanning.

Its advanced digital beam former and high-speed back-end enable high spatial resolution, high contrast resolution, and a wide dynamic range.

A full complement of linear, convex, and phased array transducers are available for ARIETTA 70 and, when combined with SOFIA's convertible table, deliver the ultimate in clinical flexibility.

ADDITIONAL APPLICATIONS

Radiology, Interventional Radiology, Obstetrics, Gynecology, Abdominal, Peripheral Vascular, Urology, Musculoskeletal, Pediatrics, Cardiology

POWER REQUIREMENTS

Input: 240/120 V @ 60 Hz

Power Consumption:

(Standard Components): 580 VA

(With Optional Recorders): 900 VA

ENVIRONMENT

Temperature: 10 - 40° C

Relative Humidity: 30 - 75%

(No Condensation)

Atmospheric Pressure: 700 ~1060 hPa

SYMPHONIC TECHNOLOGY

Arietta 70's Symphonic Technology optimizes data fidelity along the entire signal handling chain.

Multi-layered Crystal

Multiple crystal layers within each element, minimize signal attenuation.

Compound Pulse Wave Generator

Unique transmission technology reduces heat generation, allowing stronger pulses to improve SNR.

Pixel Focusing

Dynamically focusing at the pixel level improves resolution and image uniformity.

Ultra Backend

High-speed digital computing fuels real-time image processing features.

IPS-Pro Display Monitor

Delivers wide half-contrast viewing angle and excellent contrast, black levels, and switching speed.



PHYSICAL DIMENSIONS

Weight: 258 lbs. (117 kg)

Dimensions: 21"(W) x 31"(D) x 51-69"(H)

Display: 21" IPS Pro

SUPPORTED DICOM OPTIONS

DICOM Store (Storage Commit)

DICOM Print

DICOM Query/Retrieve

DICOM Modality Worklist

STANDARD IMAGING FEATURES

HI Definition Tissue

Harmonic Imaging (HdTHI)

Extends penetration and increases resolution by transmitting a wide band pulse and receiving the second harmonic and sub-harmonic signals across the entire spectrum of the probe bandwidth.

HI Compound Imaging (HI Com)

Is especially beneficial for improving the visibility of luminal structures. HI Com transmits and receives ultrasound beams in various directions and superimposes the resultant images in real time.

Adaptive Imaging (HI REZ+)

Utilizes Hitachi Aloka's high speed digital processing engine to extract structures and emphasize tissues without reducing frame rate.

Fine Flow

Displays high-definition, high frame rate color Doppler images of fine vessels with minimal blooming.

92 MM LONG LINEAR ARRAY



The extra-long linear probe of the ARIETTA 70 is integrated into the SOFIA bed. Using trapezoid imaging extends the width of its field-of-view to more than 10 cm at depths greater than 5 cm. This large FOV enables SOFIA's short 30-second scan time.



Ultrasound Solutions Clearly Defined™

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General Specifications



EXAMINATION TABLE

Length: 77" (195.58 cm)
Width: 32" (81.28 cm)
Height: 25"-37" (63.5-93.98 cm)
Weight: 450 lbs. (204 kg)
Max. Weight Rating: 300 lbs. (136 kg)

ELECTRICAL POWER – EXAMINATION ROOM

Voltage: 120 V AC
Max Amperage: 10 AMP
Frequency: 50/60 Hz
Continuous Power: Not Required
Max. Receptacle Distance: 72" (183 cm)

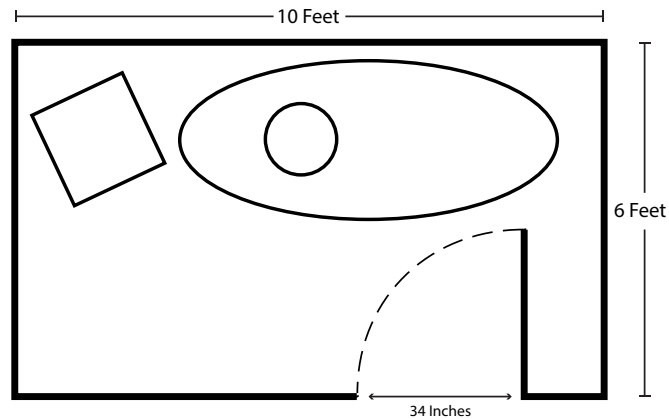
ELECTRICAL POWER – REVIEW WORKSTATION

Voltage: 100-230 V AC
Max Amperage: 5.3 AMP
Frequency: 50/60 Hz
Continuous Power: Not Required
Max. Receptacle Distance: 72" (183 cm)

COMPUTER NETWORK/ PACS/TELERAD

Computer Storage Space: 1GB
Max. Outlet Distance: 60" (153 cm)
Minimum Upload Speed: 3 MB/sec

MINIMUM ROOM DIMENSIONS



ADDITIONAL FACILITY REQUIREMENTS

Minimum Door Width: 34" (87 cm)
Non-ground floor installations require either a cargo elevator or lifting equipment capable of handling the overall size and weight of the examination table.

SCANNING METHODS

Automatic Image Acquisition
Manual Image Acquisition (Table Transducer)
Manual Image Acquisition (Manual Transducer)

REVIEW WORKSTATION

Processor: Intel i7
Memory: 8 GB
Hard Drive: 1 TB
Graphics Card: High Performance
Monitor: 2 Megapixel

