

SUPERSONIC™ MACH 40 Ultrasound System with UltraFast™ Imaging

Innovation and Integration, today and tomorrow

Lean into the future of ultrasound technology with the SuperSonic MACH 40 ultrasound imaging system that surpasses 40 years of previous ultrasound conventions by demonstrating exceptional image quality, innovative imaging modes, and brilliant usability.



Innovative



Intuitive



Integrated



Intelligent

SuperSonic MACH 40 system provides unprecedented capabilities with unique UltraFast™ architecture, innovative transducers and a large FHD viewing screen.

- Smooth images with reduced speckle, regardless of tissue density
- Incredible definition in both fundamental and harmonic imaging modes
- Optimized penetration settings for image clarity regardless of imaging depth
- Acquisition of 3D volumetric data¹

Innovative imaging modes

- ShearWave™ PLUS elastography – Real-time tissue stiffness evaluation in 2D and 3D¹
- Angio PLUS imaging – microvascular flow assessment
- TriVu™ imaging – simultaneous acquisition of 3 essential characteristics
- Needle PLUS™ imaging – needle visibility enhancement during biopsies for improved outcomes and increased patient satisfaction



Widescreen reality with image uniformity	Function meets comfort	Optimized and automated experience
<ul style="list-style-type: none"> • 23" full HD monitor displays 2 million² pixel resolution for diagnostic clarity 	<ul style="list-style-type: none"> • Comprehensive family of transducers optimized for all breast ultrasound exams 	<ul style="list-style-type: none"> • Automated adjustments to speed up image acquisition • Breast optimized and user customized presets

¹ 3D breast application will be available in December 2020 (as a part of SuperSonic MACH Version 3 release).

² Full HD resolution is defined as having 1,920 x 1,080 pixels.

Breast Transducers

L18-5 Linear Transducer	Subtle anatomical details in all breast morphologies <ul style="list-style-type: none"> • 256 Composite elements • 5-18 MHz Bandwidth • 50 mm Footprint
LH20-6 Linear Transducer	Ultra-high-resolution imaging for superficial lesions and the retroareolar region <ul style="list-style-type: none"> • 192 Composite elements • 6-20 MHz Bandwidth • 27 mm Footprint
L10-2 Linear Transducer	Optimized for imaging at greater depths <ul style="list-style-type: none"> • 192 Composite elements • 2-10 MHz bandwidth • 38 mm Footprint
LV16-5 Linear Transducer*	Acquisition of 3D volumetric data <ul style="list-style-type: none"> • 192 Composite elements • 5-16 MHz bandwidth • 40 mm Footprint

System Configuration

Component	Performance
Memory	16 GB DDR4
Hard Drives	500 GB x 2
Imaging Channels	256 transmit x 256 receive (Through synthetic acquisition)
Video Output	1920 x 1080 High Definition

Physical System Specifications

- System Height adjustable from 118.6cm (46.7") to 183cm (72")
- System Depth adjustable from 98.7cm (38.9") to 120.8cm (47.6")
- System Width: 60.5cm (23.8")
- Able to pass through a 70cm (28") doorway
- Transportation mode to secure monitor and control panel components
- Flexible transducer holders preventing shocks
- Weight: 112kg (246lbs)

Imaging Modes

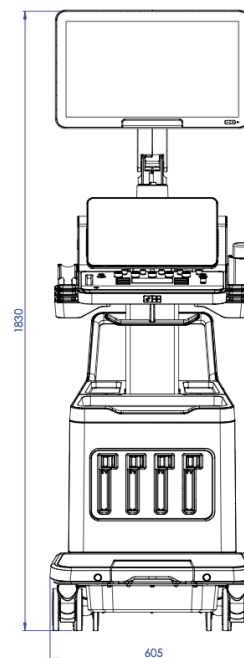
- B-mode
- Angio PLUS Imaging
- ShearWave™ PLUS Elastography (SWE™ PLUS)
- Needle PLUS™ Imaging
- Pulsed Wave Doppler
- TriVu™ Imaging (real-time triplex B-mode, SWE and COL+ Doppler imaging)
- Color Doppler: Color Flow, Color Power, and Directional Color Power

Ergonomics

- Flat 23-inch Full HD monitor with handle
- Interactive 15.6-inch Full HD Touch Screen
- Multitouch SonicPad™ Touchpad

Workflow

- AutoTGC: Automated Time-Gain Compensation Control
- ManualTouch TGC
- Customizable TGC curves per preset
- Retrospective and Prospective clip Capture
- Cine Loop & PW AutoTrace Trim Capability
- Q-Box Elasticity Quantification Tools
- Real-time Elasticity measurement
- 2D and 3D Volume Measurement Tools
- Labeled Measurements
- Integrated BI-RADS®
- PW Doppler Baseline and PRF Assist
- On-cart Study Review with Append Exam mode
- Configurable ReportBuilder
- J PEG/AVI/PDF Media Export
- Wi-Fi wireless network connection
- High Definition Digital Video Output (Display port)
- Full DICOM modalities suite
- Login/logout features with three levels of rights
- Data encryption at rest and in transit
- Bar code reader



*Available in December 2020

SuperSonic™ MACH ultrasound series also known as Aixplorer MACH® ultrasound series.

Clinical images presented in this document may have been acquired in the imaging facilities outside the U.S. Additional notes may be displayed on the U.S. images.

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