

AIXPLORER mach²⁰



PRODUCT CATALOG

HOLOGIC
SUPERSONIC
imagine

AIXPLORER MACH 20

Aixplorer MACH® 20 is built to meet the requirements of your clinical practice. Understanding your everyday challenges, the Aixplorer MACH 20 performance meets innovation.

- The functional design of the Aixplorer MACH 20 makes exams even more efficient and enhances productivity. The revolutionary **SonicPad™** improves overall user experience.
- The powerful capabilities driven by proprietary **UltraFast™** technologies – optimizing signal-to-noise ratio at each stage of signal processing – offer **excellent image quality**.
- Aixplorer MACH 20 gives you the flexibility to benefit from SuperSonic Imagine's proprietary elastography **ShearWave™ PLUS** on the transducer of your choice.



Full HD Screens



Intuitive Control Panel with SonicPad



4 Next Generation Pinless Transducer Connector Ports



Handles for Comfortable and Safe Manoeuvring

SPECIFICATION OVERVIEW - AIXPLORER MACH 20 RANGE

ELITE

All PRO features +

CONVENTIONAL IMAGING MODES

Contrast Enhanced Ultrasound Imaging, CEUS (Option)
Breast 3D Application (Option)
Echocardiography (Option)

INNOVATIVE IMAGING MODES

- ★ Real-time Elastography ShearWave™ PLUS
- ★ PLanewave™ UltraSensitive Imaging, Angio PL.U.S.
- ★ TriVu, Combining B-mode, SWE™ PLUS and Angio PL.U.S. (Option)
- ★ Needle PL.U.S. (Option)



PRO

Fully optimized clinical applications: Abdomen, Breast, Genitourinary, Musculoskeletal, Ob-Gyn, Pediatric, Thyroid and Vascular
Compatibility with L18-5, C6-1X, C9-2X, E12-3, L10-2, MC12-3, LH20-6, P5-1X Transducers

ARCHITECTURE & ERGONOMICS

- ★ SonicSoftware™ Beamforming & Scan Conversion
- ★ UltraFast™ Acquisition, Up to 20,000Hz Frame Rate
- 13.3" Full HD Touch Screen Panel with Soft Keyboard, Imaging, Body Marker, Measurement & TGC controls
- 4 Next Generation Pinless Transducer Connector Ports and 5 Transducer Holders
- Control Panel with Rotation & Motorized Height Adjustment
- Extra Large 21.5" Full HD Display Monitor
- High-fidelity Audio Speakers
- ★ Multi-touch SonicPad™ Control with User Gestures
- Ultra-Quiet Cooling Fans

CONVENTIONAL IMAGING MODES & PARAMETERS

- ★ AutoTGC / ManualTouch™ TGC
- B-mode, M-mode Imaging and Doppler Modes
- Color Flow, Color Power & Directional Color Power Imaging
- High Definition Zoom and Trapezoidal Wide Imaging
- Panoramic Imaging
- Pulsed Wave and Continuous Doppler (Duplex & Triplex Capable)
- PW Doppler Spectral AutoTrace
- ★ SuperRes™ Adaptive Image Enhancement
- Tissue Harmonic Imaging
- ★ TissueTuner™ Multi-level Speed of Sound Correction
- Contrast Enhanced Ultrasound Imaging, CEUS (Option)
- Echocardiography (Option)
- Breast 3D Application (Option)

INNOVATIVE IMAGING MODES

- ★ Real-time Elastography ShearWave™ PLUS (included on 1 Transducer)
- ★ Q-Box™ Quantitative Measurements in kPa or m/s
- ★ Q-Box™ Stability Index
- ★ PLanewave™ UltraSensitive Imaging, Angio PL.U.S. (Option)
- ★ TriVu, Combining B-mode, SWE™ PLUS and Angio PL.U.S. (Option)
- ★ SuperCompound™ in B-Mode, Color Mode & SWE™ PLUS
- ★ Needle PL.U.S. (Option)

IMAGE & DATA ANALYSIS

- BI-RADS® Report
- ★ Thy-RADS™ Report
- DICOM Structured Report Export for OB-GYN & Vascular Applications
- Customizable Labeled Measurement Package
- Patient Reporting

CONNECTIVITY & DATA PROCESSING

- Archiving Data with 1To Capacity
- Storing/Exporting Images & Clips in PC Formats
- DICOM Connectivity: Store, Print, MWL, MPPS, Query & Retrieve, Push
- Image & Cine Review with DICOM via USB export
- Integrated CD/DVD Drive & 4 USB Ports
- Integrated Display Port Video Output with Adapters
- Integrated Driver Software for a List of Approved Printers
- Cybersecurity Package
- Online Services

Please refer to Aixplorer MACH 20 specification guide for more detailed information.

EQUIPMENT - AIXPLORER MACH 20 RANGE

- Standard ○ Option at Extra Cost
- Not Available ★ Exclusive to SuperSonic Imagine

PRO

ELITE

ARCHITECTURE & ERGONOMICS

- ★ SonicSoftware™ Beamforming & Scan Conversion
- ★ UltraFast™ Acquisition
- 13.3" Full HD Touch Screen Panel
- Extra Large 21.5" Full HD Display Monitor
- ★ Multi-touch SonicPad™ Control

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CONVENTIONAL IMAGING MODES & PARAMETERS

- ★ AutoTGC / ManualTouch™ TGC
- B-mode Imaging & Doppler Modes
- M-mode Imaging
- Breast 3D Application 95204
- Color Flow, Color Power & Directional, Color Power Imaging
- Contrast Enhanced Ultrasound Imaging (CEUS) ⁽¹⁾ 95403
- Echocardiography (incl. Physio ECG Module) 95414/95210
- ECG Module 95208/95209
- High Definition Zoom and Trapezoidal Wide Imaging
- Panoramic Imaging ⁽²⁾
- Pulsed Wave Doppler & Continuous Doppler ⁽³⁾
- Tissue Harmonic Imaging
- ★ SuperRes™ Adaptive Image Enhancement
- ★ TissueTuner™ Multi-level Speed of Sound Correction

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SHEARWAVE PLUS

- ★ Real-time Elastography ShearWave™ PLUS (1 transducer)
- ★ Real-time Elastography ShearWave™ PLUS (additional transducers)
- SWE™ PLUS on C6-1X transducer 95412
- SWE™ PLUS on C9-2X transducer 95413
- SWE™ PLUS on E12-3 transducer 95407
- SWE™ PLUS on L10-2 transducer 95410
- SWE™ PLUS on L18-5 transducer 95406
- SWE™ PLUS on LH20-6 transducer 95411
- SWE™ PLUS on LV16-5 transducer 95408
- SWE™ PLUS on MC12-3 transducer 95409
- ★ Q-Box™ Quantitative Measurements in kPa and m/s
- ★ Q-Box™ Stability Index ⁽⁵⁾

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EQUIPMENT - AIXPLORER MACH 20 RANGE (CONTINUED)

- Standard ○ Option at Extra Cost
- Not Available ★ Exclusive to SuperSonic Imagine

PRO

ELITE

ADDITIONAL INNOVATIVE IMAGING MODES & PARAMETERS

★ Angio PL.U.S. PLanewave UltraSensitive Imaging ⁽⁴⁾	95405	○	●
★ TriVu, Real-time Imaging Mode ⁽⁶⁾	95402	○	○
★ SuperCompound™ in B-Mode, Color and SWE™ PLUS		●	●
★ Needle PL.U.S. ⁽⁷⁾	95404	○	○

IMAGE & DATA ANALYSIS

BI-RADS® Report		●	●
★ Complete Suite of Measurement & Reporting SWE™ Tools		●	●
DICOM Structured Report Export for OB-GYN & Vascular Applications		●	●
Measurement Package & Patient Reporting		●	●
★ Thy-RADS™ Report		●	●

CONNECTIVITY & DATA PROCESSING

Clinical Data Export	95418	○	○
DICOM Connectivity		●	●
Integrated CD/DVD Drive & 4 USB Ports		●	●
Integrated Display Port Video Output with Adapters		●	●
Software for a List of Approved Printers		●	●
Online Services ⁽⁸⁾		●	●

TRANSDUCERS

C6-1X Single Crystal Curvilinear Transducer	95101	○	○
C9-2X Single Crystal Curvilinear Transducer	95105	○	○
E12-3 Endocavitary Transducer	95102	○	○
L10-2 Linear Transducer	95103	○	○
L18-5 Linear Transducer	95100	○	○
LH20-6 Hockeystick Linear Transducer	95104	○	○
LV16-5 Linear Volumetric (3D) Transducer	95108	○	○
MC12-3 Micro-Convex Transducer	95106	○	○
P5-1X Single Crystal Phased Array Transducer	95107	○	○

ACCESSORIES

Additional Transducer Holders (x2)	95420	○	○
B&W Printer SONY UP-D898DC (A6)	95205	○	○
Barcode Reader (USB)	03813	○	○
Integrated Gel Warmer	95416	○	○
USB Dual-Action Configurable Foot Switch	90004	○	○
Wi-Fi Network Capability Linksys AE3000 ⁽⁹⁾	02734	○	○

(1) CEUS is available on following transducers: C6-1X, C9-2X, L10-2 and E12-3. CEUS is not available on E12-3 transducer in the United States.

(2) Panoramic imaging is only available on linear transducers.

(3) Continuous Doppler is only available after the activation of Echocardiography and P5-1X options.

(4) Angio PL.U.S. is available on all linear and curvilinear transducers: L18-5, C6-1X, C9-2X and L10-2.

(5) Q-Box Stability Index is only available on single crystal curved transducers: C6-1X and C9-2X. (6) TriVu is available on linear transducers L18-5, L10-2, and for Breast and Thyroid applications only.

(7) Needle PL.U.S. is available on linear transducers L18-5, L10-2, LH20-6, in all applications and presets with the exception of neonatal head.

(8) The online services features are included in the 1st year of Aixplorer MACH 20 warranty period.

(9) The Wi-Fi Wireless Network Capability is not available in some countries.

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Indications for Use: The SuperSonic Imagine Aixplorer MACH® range ultrasound diagnostic systems and transducers are intended for general purpose pulse echo ultrasound imaging, soft tissue viscoelasticity imaging and Doppler fluid flow analysis of the human body. The Aixplorer MACH® ultrasound diagnostic systems are indicated for use in the following applications, for imaging and measurement of anatomical structures: Abdominal, Small Organs, Musculoskeletal, Superficial Musculoskeletal, Vascular, Peripheral Vascular, Intraoperative, OB-GYN, Pelvic, Pediatric, Transrectal, Transvaginal, Urology, Neonatal/Adult Cephalic and Non-invasive Cardiac. In addition, the SuperSonic Imagine Aixplorer MACH® ultrasound diagnostic systems and associated transducers are intended for: measurements of abdominal anatomical structures; measurements of broadband shear wave speed, and tissue stiffness in internal structures of the liver and the spleen; measurements of brightness ratio between liver and kidney; visualization of abdominal vascularization, microvascularization and perfusion; quantification of abdominal vascularization and perfusion. The shearwave speed, beam attenuation, viscosity and stiffness measurements, the brightness ratio, the visualization of vascularization, microvascularization and perfusion, the quantification of vascularization and perfusion may be used as an aid to clinical management of adult and pediatric patients with liver disease. It is intended for use by licensed personnel qualified to direct the use of the medical ultrasound devices. CE certificate no. 26415, pending FDA clearance.