





THE NEW ULTRAFAST^M

INTELLIGENCE

Introducing Aixplorer MACH 30 - The new SuperSonic Imagine Ultrasound platform, powered by the next generation of UltraFast™ Imaging combined with the intuitive SonicPad® for a unique clinical and user experience.

INTELLIGENCE IN INNOVATION

The Aixplorer MACH 30 platform leverages 10 years of clinical expertise, analysis of your exam patterns and workflow, bringing you

- UltraFast™ Platform Next generation ultrasound Technology
- Unique ergonomics and improved workflow
- Innovative and intelligent imaging modes

INTELLIGENCE IN EVOLUTION

Aixplorer MACH 30 is the first premium ultrasound system based on this next generation platform. It delivers **a new set of transducers** compatible with the next generation engine which enhances overall diagnostic capabilities. All the clinical solutions you will need are embedded within the system to enhance your daily workflow, support your practice and meet your evolving requirements.

With the Aixplorer MACH 30 premium ultrasound system you can leverage SuperSonic Imagine's expertise and push the limits of ultrasound imaging.

DESIGNED TO BE THE NEW STANDARD

Developed in collaboration with an internationally recognized industrial design agency, the Aixplorer MACH platform offers major innovations designed to provide the user with breakthrough solutions and create intuitive and innovative workflows for greater diagnostic confidence.



Enhanced productivity and visual comfort...

- Larger image size (1)
- Larger monitors (2)
- Tiltable touch panel (3)
- Motorized height adjustable (4)
- 4 pinless connector ports (5)
- Three-position central brake (6)
- Flexibility of control panel movement

...for optimal diagnostic performance and workflow.

SONICPAD[®] FOCUS ON WHAT YOU SEE, NOT ON WHAT YOU DO

SuperSonic Imagine introduces the intuitive SonicPad® embedded into a brand-new user interface, disrupting conventional imaging, enhancing workflow and improving ease of use.

DESIGNED AROUND PRINCIPLES THAT MATTER TO YOU

UP TO 70% USER MOVEMENT REDUCTION* & 20% EXAM TIME REDUCTION*



INTUITIVENESS

- Simplified user interface
- Improved user
 experience
- Cultivate gesture memory

USER COMFORT

- Reduce muscle fatigue
- Customizable control panel
- Real-time
 on-screen help

PATIENT FOCUS

- Focus on imaging not optimization
- Decrease exam time
- Application specific user interactions

The Aixplorer MACH 30 platform and its unique SonicPad® set a new standard in the ultrasound user experience with unprecedented benefits for your daily practice.

NEXT GENERATION

ULTRAFAST^M IMAGING

INNOVATION WITHOUT COMPROMISE

Leveraging the unique capabilities of SuperSonic Imagine proprietary software architecture, Aixplorer MACH 30 introduces the next generation of UltraFast™ Imaging

- Enabling the next generation of image quality and all innovative imaging modes.
- Supports SuperSonic Imagine proprietary ShearWave® PLUS, the next generation of ShearWave® Elastography performance setting new standards in Ultrasound.

B-MODE

Pushing the limits of conventional imaging

- Next generation B-Mode penetration
- Next generation tissue contrast
 and spatial resolution
- Next generation Color sensitivity and frame rates

SHEARWAVE® PLUS

Staying one step ahead with unique SuperSonic Imagine ShearWave® PLUS

- Larger ShearWave® PLUS box
- Increased SWE PLUS frame rates
- Accelerated ShearWave® PLUS box filling
- No imaging compromise while using ShearWave[®] PLUS Elastography







ULTRAFASTTM DOPPLER

Unique SuperSonic Imagine innovation that significantly improves patient throughput. UltraFast™ Doppler offers higher frame rates on Aixplorer MACH 30 and is now expanded to include the high frequency L18-5 transducer.



ANGIO PL.U.S.

Aixplorer MACH 30 Angio PL.U.S mode allows you to assess microvasculature without the need for contrast agents.



TRIVU

The latest addition to SuperSonic Imagine innovative imaging modes. TriVu combines real-time simultaneous imaging of B-mode, ShearWave® PLUS and Angio PL.U.S. Enabeling you to visualize the anatomy, the function (tissue stiffness) and blood flow on the same image, simultaneously.

INNOVATION FOR

CLINICAL VALUE

Over the last 10 years, SuperSonic Imagine has continued to deliver and expand the clinical value of ultrasound imaging and has turned **technological innovation into clinical value**.

Aixplorer MACH 30 architecture will sustain tomorrow's technical innovations and clinical research to continue to **add clinical value in existing and new areas**. SuperSonic Imagine has partnered with multiple sites across the world to demonstrate the strong clinical benefits of its unique ShearWave® PLUS Elastography. See below how Aixplorer MACH 30 offers robust clinical evidence on selected organs.



BREAST

The breast expert's system with unique and exclusive features that facilitate everyday work and improve patient management and outcomes.

- Breast lesion diagnosis and characterization
- Improve clinical decision making for biopsy and treatment
- Access prognostic information





LIVER

Meeting the needs of liver experts focused on patients with chronic and focal liver disease. Allowing the user to follow patients throughout the continuum of care.

- Quickly and reliably assess
 liver fibrosis and liver steatosis
- Follow-up and monitor patients over time
- Screen and characterize focal liver lesion





MUSCLES & TENDONS

The only option for dynamic evaluation of musculotendinous unit integrity.

- Screen and assess both inflammatory and mechanical tendinopathies
- Turn subjective muscular examination into quantifiable objective assessment
- Monitor Treatment

PROSTATE

Multiparametric Ultrasound imaging (mpUS)

- Detect and localize lesions
- Characterize stiffness of lesions
- Targeted prostate biopsies

VASCULAR

Expanded capabilities with unique SuperSonic Imagine technology

- Detect transient hemodynamic flow with UltraFast™ Doppler
- Display microvascularization without compromise
- Evaluate overall cardiovascular risk

OB & GYN

Designed with a focus on diagnostic imaging

- Detect and characterize gynecological pathologies
- Comprehensive fetal imaging and reporting option
- Add real-time elasticity mapping and SWE stiffness measurements as additional diagnostic information in gynecology to define the most appropriate patient management

PEDIATRICS

Dedicated optimized presets to meet all imaging needs

- Using our unique UltraFast imaging platflorm allows for quick acquisition of clinical information to improve patient workflow
- Family of pediatric transducers and application specific presets for optimal imaging

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CARDIAC

New echocardiography applications

- Optimized B-mode, M-mode, Color, PW, CW and expanded Imaging modes: PW Tissue Doppler Imaging, UltraFast™ Doppler
- Cardiac calculation package, customized annotations and expanded bodymarkers package (ECG and Physio Module)







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16

16

POWER AT YOUR FINGERTIPS -NEW EXPANDED TRANSDUCERS FAMILY

Aixplorer MACH 30 introduces a **NEW transducer family** and **expands its portfolio with a high frequency single crystal curved transducer C9-2X.** Leveraging and combining, unique SuperSonic Imagine software beamforming, UltraFast[™] and single crystal technologies, the new transducers take imaging to a new level.

The next generation pinless connector facilitates easy handling in your daily routine. The re-designed housing allows for one hand manipulation.



C9-2X SINGLE CRYSTAL CURVILINEAR The perfect solution for narrow intercostal spaces without compromise on penetration. Single crystal element Bandwidth 192 2-9 MHz

Clinical Applications

bdominal • Pedi

OB-GYN



C6-1X SINGLE CRYSTAL CURVILINEAR

Single crystal element Bandwidth 192 1-6 MHz

Clinical Applications



L10-2 LINEAR

Composite elements 192

Clinical Applications

Thyroid
Vascular
Small parts

Bandwidth

2-10 MHz

L18-5 LINEAR Composite elements 256

Bandwidth 5-18 MHz

E12-3 ENDOCAVITARY

Composite elements 192

Bandwidth 3-12 MHz

Clinical Applications • OB-GYN



P5-1X SINGLE CRYSTAL PHASED ARRAY

Single crystal element Bandwidth 96 1-5 MHz

Clinical Applications





LV16-5 LINEAR VOLUMETRIC (3D)

Composite elements Bandwidth 5-16 MHz

Clinical Applications

192



LH20-6 LINEAR

Composite elements 192



Clinical Applications

Musculo-
skeletal
Vascular

INNOVATIVE EVOLUTION AND PARTNERSHIP



Created in 2005 in Aix en Provence, SuperSonic Imagine was born from a collaboration with the Ondes et Acoustique laboratory at ESPCI Paris and the CNRS (Head of French National Scientific Research Organization).

This collaboration led to the introduction of an innovative technology – **Real-time ShearWave® Elastography**.

SuperSonic Imagine developed the Aixplorer product that marked a technological and clinical breakthrough in the field of ultrasound imaging changing the landscape of ultrasound and setting new standards for imaging across multiple clinical applications. These clinically-validated innovations continue to be unrivaled.

SuperSonic Imagine is committed to develop innovations that revolutionize the ultrasound user experience by transferring all of the intelligence of ultrasound into software. Offering unique flexibility and scalability in the marketplace, the Aixplorer product is also the only system capable of imaging the body at ultra-fast speeds of up to 20,000 frames per second (or 200 times faster than any standard ultrasound system).

2016

Continuous demonstrationof unique SuperSonic Imagine clinical excellence with more than 500 peer-reviewed publications demonstrating unique clinical performance of SWE across multiple clinical applications.



2018

The story continues – Aixplorer MACH 30 launch - next generation of ultrasound system



Launch of Aixplorer Ultimate

2017

2016: SWE 3D for Prostate

2015: SWE 2.0 for Liver and Reporting tools

2018: ShearWave® PLUS the next generation of SWE

YOUR ULTRASOUND

EXPERIENCE

CONNECTED

Aixplorer MACH 30 is designed to offer you the best of todays innovations and user experience while being ready for tomorrow and for the development of future Artificial Intelligence and machine learning solutions.

TODAY

Connected serviceability

- Online System monitoring, maintenance and diagnosis
- Online software updates
- Options activation
- Activate and evaluate new features and options online at your convenience, in your practice

TOMORROW

- Be ready for next Interactive management of patient and data flow
- Ready to implement innovations in imaging and analytics

THERE ARE THOUSANDS OF SUPERSONIC IMAGINE SYSTEMS WORLDWIDE AND WE ARE REPRESENTED IN 83 COUNTRIES

A GROWING COMMUNITY OF PHYSICIANS, CLINICIANS AND ACTIVE USERS.



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Indications for Use: The SuperSonic Imagine Aixplorer MACH 30 (a) ultrasound diagnostic system and transducers are intended for general purpose pulse echo ultrasound imaging, Doppler fluid flow analysis of the human body, and soft tissue elasticity imaging. The Aixplorer MACH 30 (b) ultrasound diagnostic system is indicated for use in the following applications, for imaging and measurement of anatomical structures: Abdominal, Small Organs, Musculoskeletal, Vusculoskeletal, Vascular, Peripheral Vascular, OB-GVN, Pelvic, Pediatric, Trans-veginal, Jurology, Neonatal/Adult Cephalic and Non-invasive Cardiac. In addition, the SuperSonic Imagine Aixplorer MACH 30 (b) ultrasound diagnostic system and associated transducers are intended for general purpose pulse echo ultrasound imaging, Doppler fluid flow measurements of abdominal anatomical structures; measurements of broadband shear wave speed, and tissue estiffness in internal structures of the liver and the speen; measurements of broadband shear wave speed, and tissue estiffness in internal structures of the liver and the speen; measurements of abdominal vascularization of vascularization, microvascularization and perfusion, quantification of abdominal vascularization and perfusion, and perfusion 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 a licensed personnel qualified to direct the use of the medical ultrasound devices. CE certificate no. 28415, FDA cleared - K180572.

