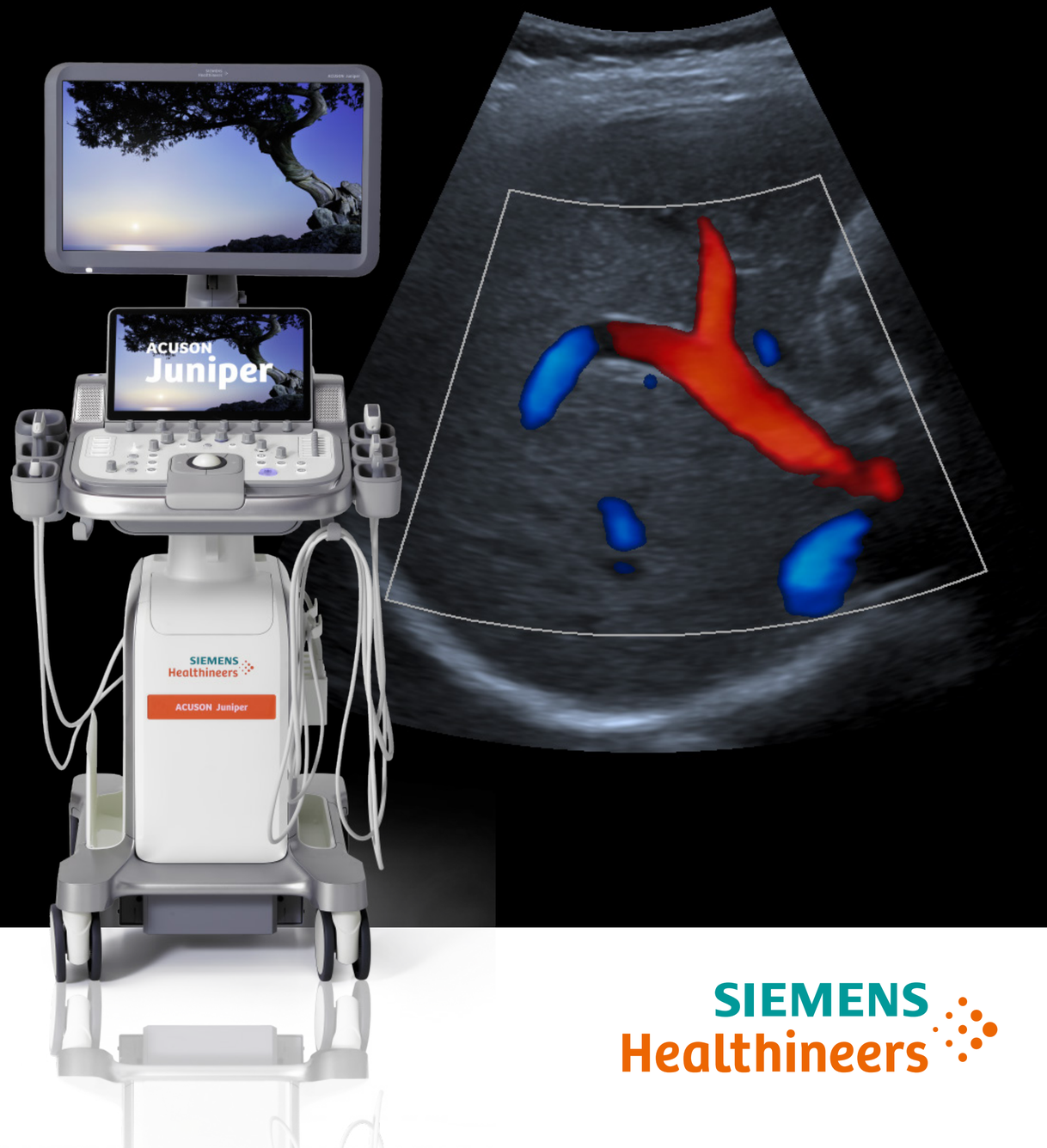
ACUSON Juniper ultrasound system

You've got the power

Release 3.0 (VC10)
siemens-healthineers.com/juniper



SIEMENS Healthineers

Expand your capabilities

One machine, a wide variety of transducers, no compromises

Across diverse specialties, ACUSON Juniper equips healthcare professionals with a newly focused power of ultrasound excellence.

The power of exceptional performance – featuring advanced image quality enhancements, non-invasive liver fat quantification, prostate imaging and procedural guidance, as well as tools for the early detection and prevention of cardiovascular disease.

The power of high intelligence – with AI-powered[1] tools to increase diagnostic confidence, streamline patient workflows and drive clinical productivity.

The power of super-usability – with up to 75 minutes of battery power, easy maneuverability, a small footprint and lightweight to ease injury and fatigue.

All backed by committed customer support, hardware durability, and seamless software upgrades.

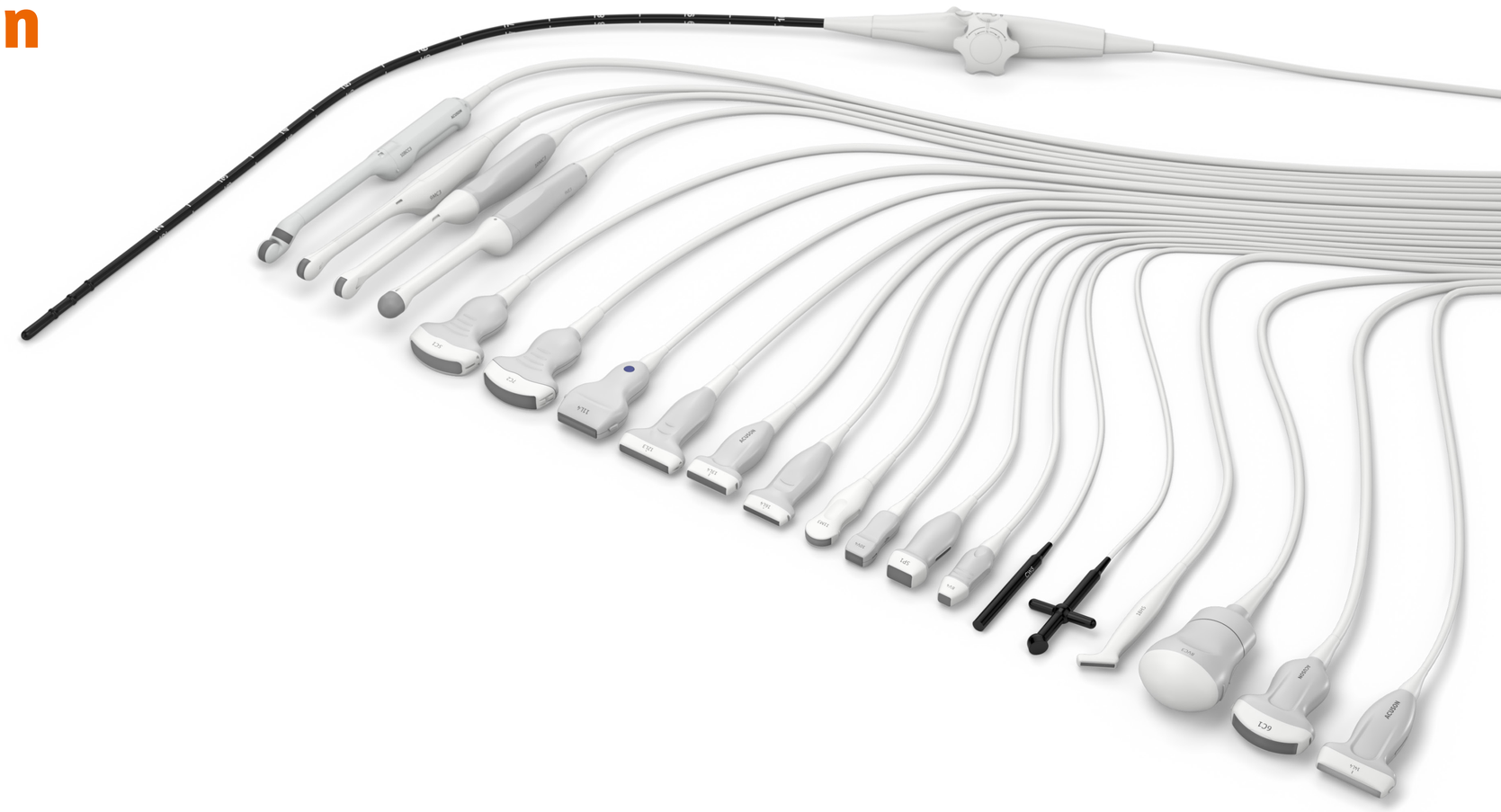
One machine, a wide variety of transducers, no compromises. You've got the power.

Activate the power of advanced ultrasound in versatile applications

With excellent image quality and a wide range of clinical applications, including ultrasound-derived fat fraction (UDFF) capabilities, ACUSON Juniper raises the standard for liver assessment, quantification, and disease detection.

Its suite of transducers include specialized features for the early detection of cardiovascular and prostate diseases.

Unlock superior diagnostic precision with single crystal transducer technology — engineered for enhanced sensitivity, broader bandwidth, and deeper penetration to deliver high-resolution imaging across a wide range of clinical applications.

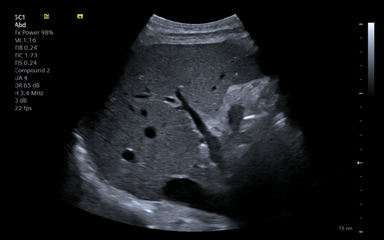


20 transducers

Cover a wide range of clinical needs with 20 transducers that deliver the versatility to expand clinic offerings.

Over 25 advanced features

Enhance usability, streamline workflows, and improve diagnostic capability.

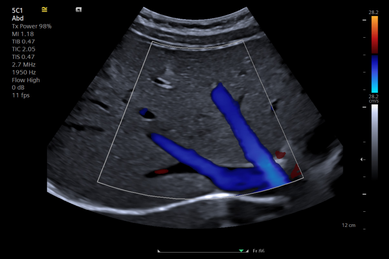


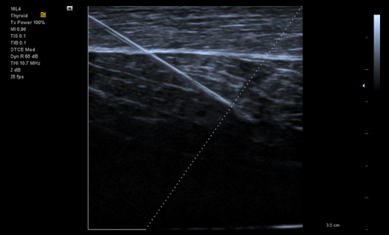
Auto TEQ optimization

Automatically optimizes image brightness across the entire field of view so that operator adjustments are kept to a minimum.

Auto Flash Color Artifact Suppression

Exceptional color sensitivity and diagnostic confidence by dynamically reducing color artifacts with no user interaction.



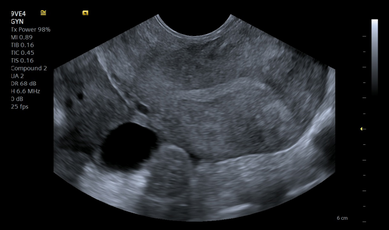


Enhanced needle visualization

Improved confidence during needle guided procedures with a proprietary algorithm to improve the display of the needle.

Full screen mode

Increases clinical image up to 56% to get the maximum user experience.



Imaging capabilities to optimize clinical confidence

ACUSON Juniper is designed with advanced imaging techniques that help optimize the image during major modes, with no user interaction.

This allows for consistent, reliable, and efficient image acquisition by reducing the need for tedious manual optimization, while delivering the confidence you need to answer the clinical questions.

- A wide variety of transducers across diverse clinical specialties
- Next-generation imaging performance and UltraArt (universal image processing)
- Deeper penetration for confident imaging of difficult patients
- Better contrast resolution for more accurate tissue composition
- Great vascular imaging, exceptional color Doppler sensitivity, tissue harmonic imaging, and contrast enhancement

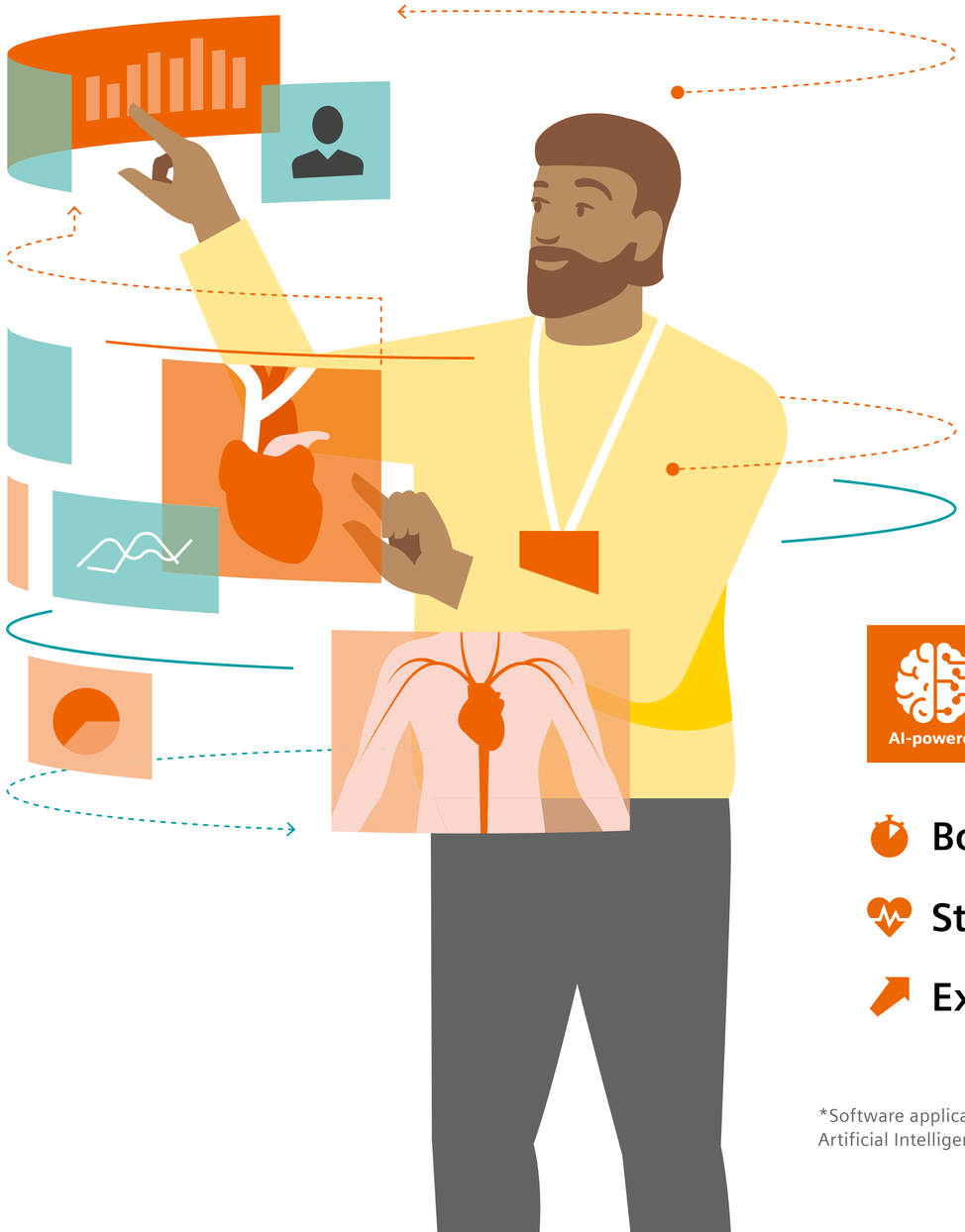
The power of high intelligence

ACUSON Juniper is equipped with efficiency improvements that enhance workflow and increase patient throughput. Updated AI features ensure clarity, consistency and comparability in imaging. In the cardiovascular field, our AI capabilities support early detection and the prevention of diseases.

- AI-powered* tools for radiology & OB/GYN
- Enhanced cardiac workflow with AI tools such as eSie Left Heart, eSie Measure
- Contrast-enhanced ultrasound (CEUS)
- Next-generation single crystal transducer technology and UltraArt
- UDFF for more precise liver fat quantification and detection of disease
- Fast, reproducible liver stiffness measurement with pSWE – point shearwave elastography
- Cybersecurity management system

"We want to act quickly at delivery beds in emergencies. The device has automated measurement processes that help us with this."

Juliane Hünerlage
Senior Doctor Gynecology, Hospital Lippe, Germany



AI-powered

Boosts efficiency

Standardizes care

Expands accessibility

*Software application leveraging machine learning-based Artificial Intelligence to achieve the intended outcome.

The power of super usability

Highlighted by Siemens Healthineers' ergonomic design, ACUSON Juniper provides up to 75 minutes of scanning with battery power, streamlined mobility, and enhanced user comfort to reduce the risk of injury and fatigue.

- 35% fewer keystrokes[2]
- Up to 75 minutes of scanning with battery power
- Small footprint in class
- Ergonomic design
- Intuitive interface

21.5" LED monitor

Highly adjustable for maximum operator adaptability

13.3" touch display

Smart UI for quicker scan settings and protocols

Lightweight maneuverability

Easy to maneuver, weighing only 76 kilos (168 pounds), and with both rear and front handles

Intuitive control panel

Customizable height, angle and keys

Purposeful cable management hooks

Several hooks available for a clean, cable free environment

Every detail designed to maximize productivity

Customizable height, angle and keys

Multiple transducer ports

5 active transducer ports, 1 pencil cardiac port and 2 physio ports

Integrated battery support

Up to 75 minutes of scanning unplugged

Maximum mobility and workflows

Ergonomically designed for ease and efficiency, the ACUSON Juniper system seamlessly adjusts to individual working preferences.

Its lightweight shape and size can be moved from the front or back as you shift between exams, scan unplugged, tilt the monitor up or down as needed for your height, or rotate the control panel left or right depending on the patient bed location.

Up to 75 minutes of scanning with battery support and wireless data transfer ensure uninterrupted performance.

75 minutes of scanning with battery support

Rapid assessment and **improved efficiency at the bedside** with up to 75 minutes of scanning unplugged with integrated battery support.

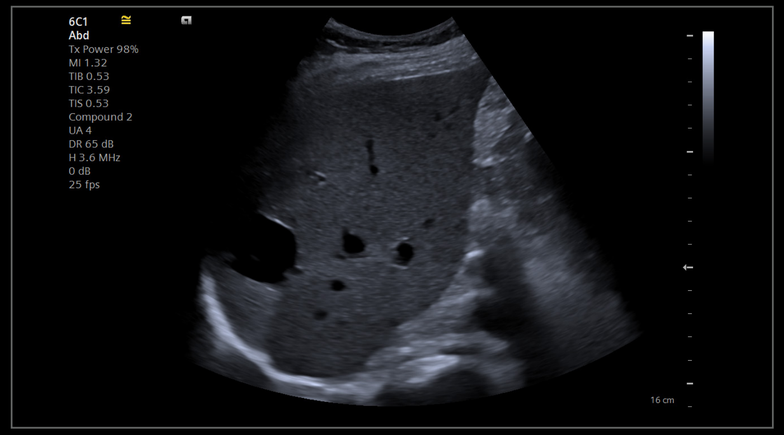
Instant access through wireless data transfer

Improve exam efficiency with integrated wireless data transfer allowing instant access to the patient worklist with the ability to send studies outside of the department for efficient reading workflow.

90°

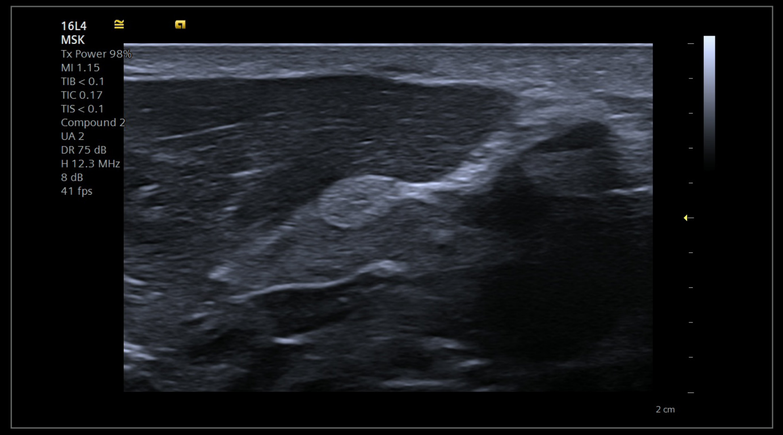
Flexible rotations

The control panel allows right and left rotation through a range of 0° to 90° for flexibility.

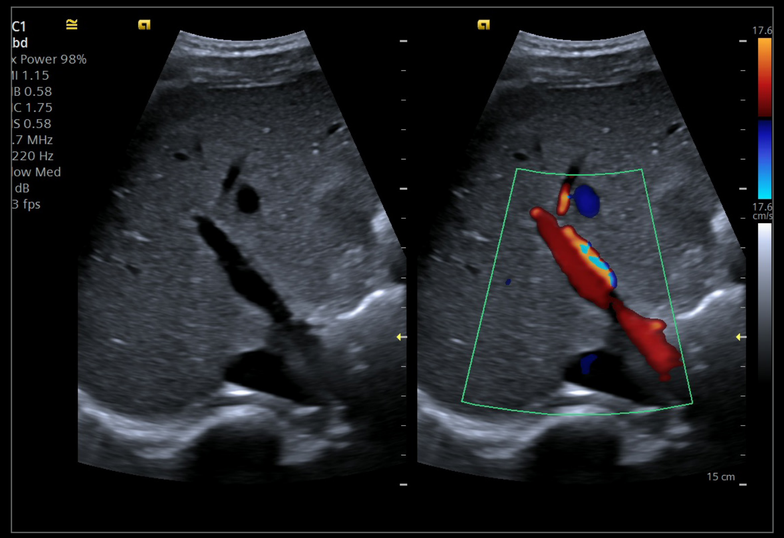


Exceptional image uniformity and sharp border definition is demonstrated in this image of the right lobe of the liver with a well-defined cyst using the 6C1 single crystal transducer.

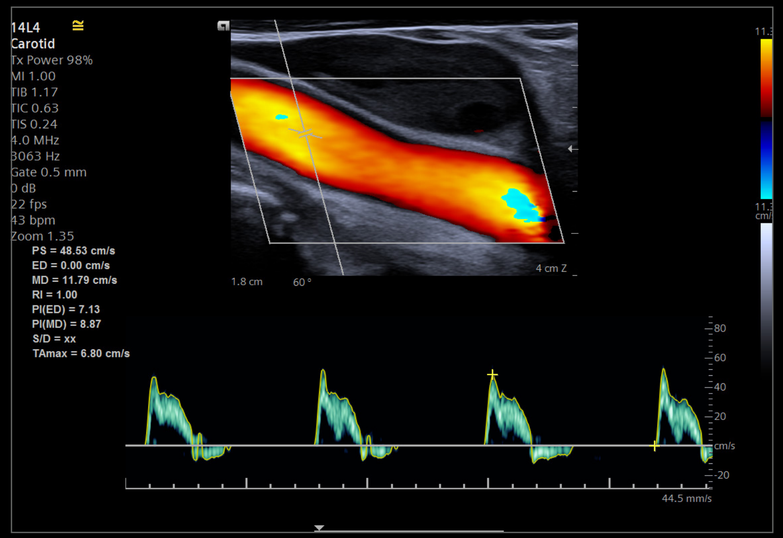
Fetal profile shows excellent contrast resolution and subtle tissue differences using Auto TEQ optimization.



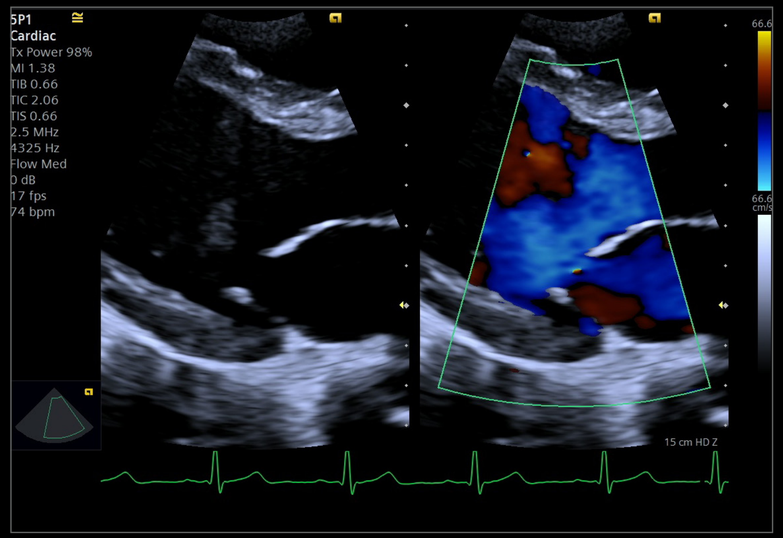
Highly detailed tissue appearance of the flexor pollicis longus muscle during a musculoskeletal assessment of the forearm.



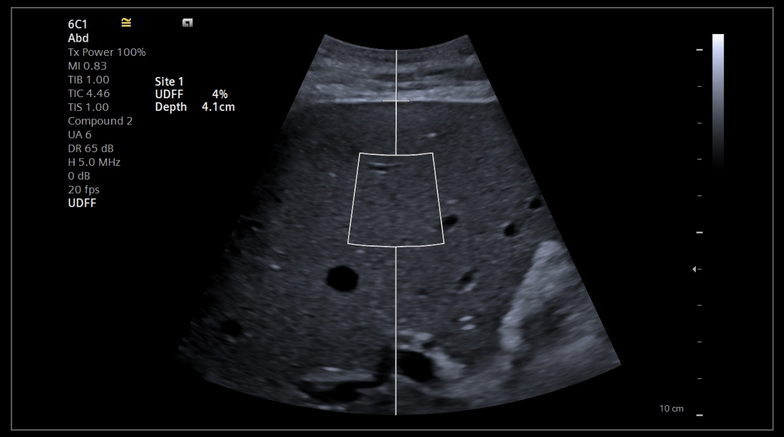
Live dual imaging of the liver demonstrates excellent detail resolution and color sensitivity of the portal vein and hepatic artery.



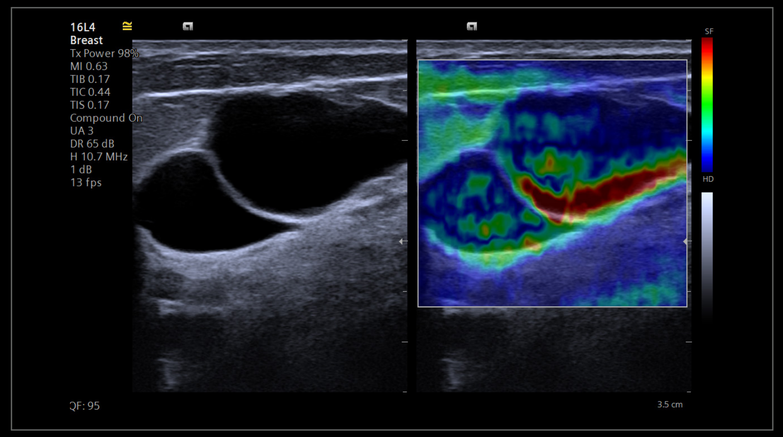
Highly detailed color, 2D, and PW Doppler imaging of the common carotid artery supports the diagnosis and treatment of vascular disease.



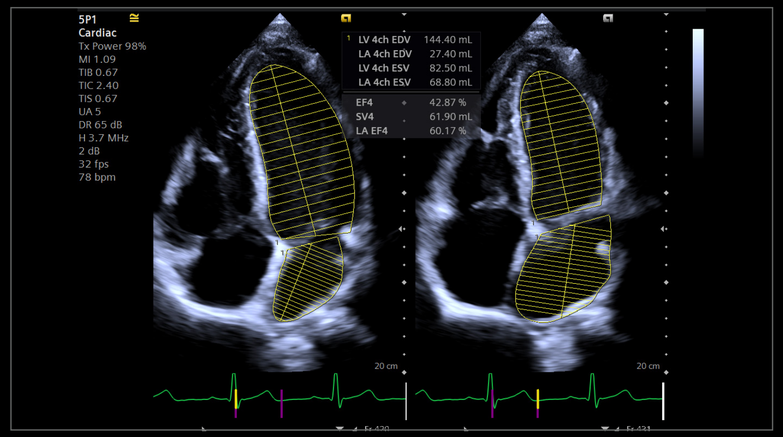
Color Doppler image of the mitral valve in the parasternal long axis view shows exceptional sensitivity with Auto Flash Color Artifact Suppression.



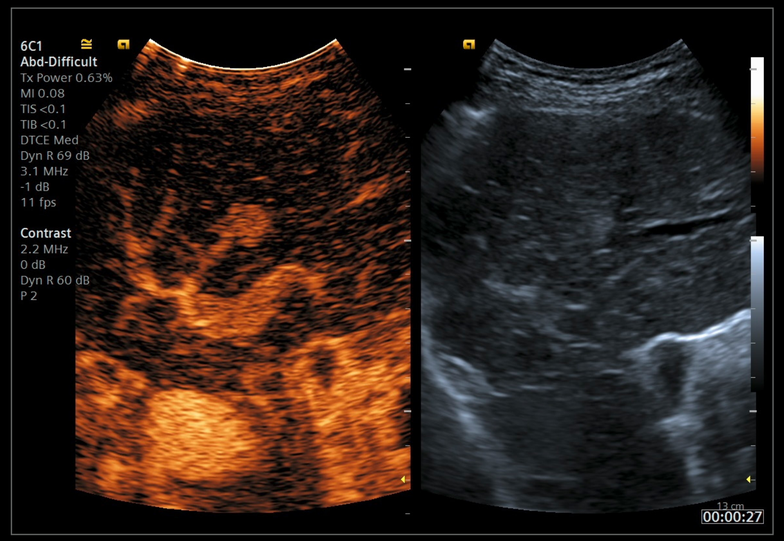
Reproducible, reliable and detailed liver assessment information can be quickly and easily obtained using our UDFF to quantify liver steatosis.



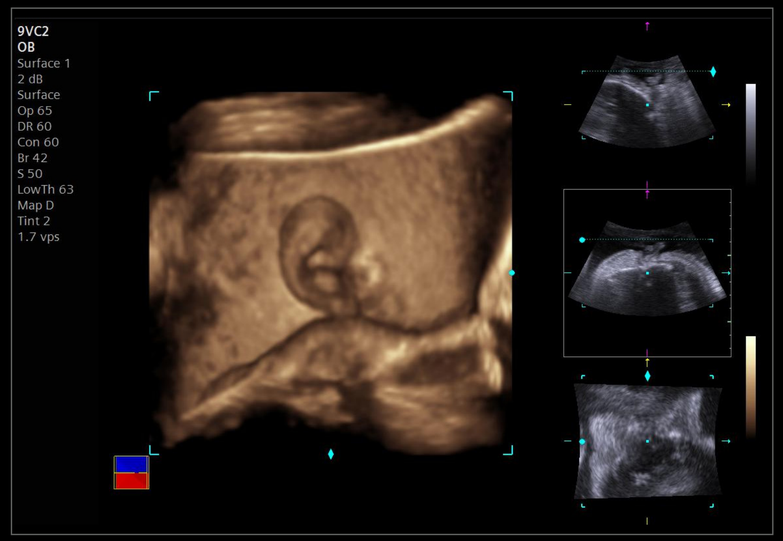
High-resolution qualitative assessment of tissue using Strain elasticity imaging for the assessment of breast lesion characterization.



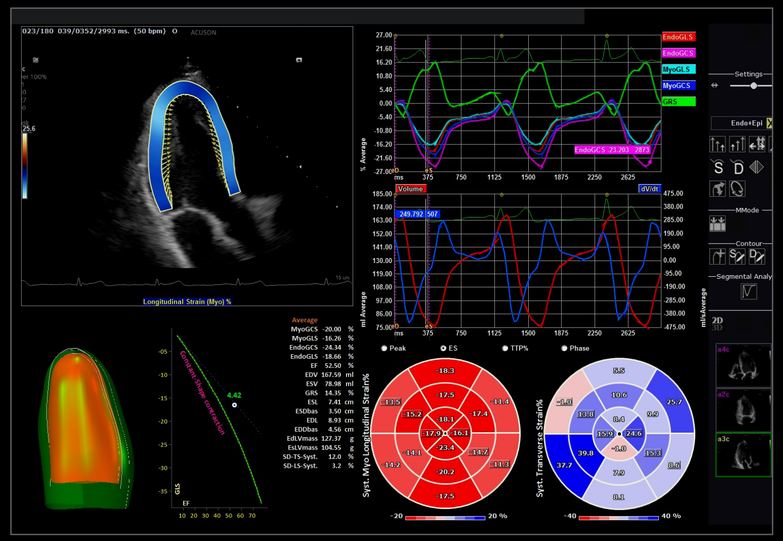
Automatically detect and measure contours of the left ventricle and atrium for improved exam workflows using eSie Left Heart.



Contrast-enhanced ultrasound (CEUS) is demonstrated on the 6C1 for the characterization of focal liver lesions.



Advanced visualization of the fetal ear using the 3D/4D lightsource imaging with the 9VC2.



syngo VVI is used to assess myocardial motion and mechanics and quantifies Global Longitudinal Strain (GLS), Global Circumferential Strain (GCS), and Global Radial Strain (GRS).

Liver disease breakthrough

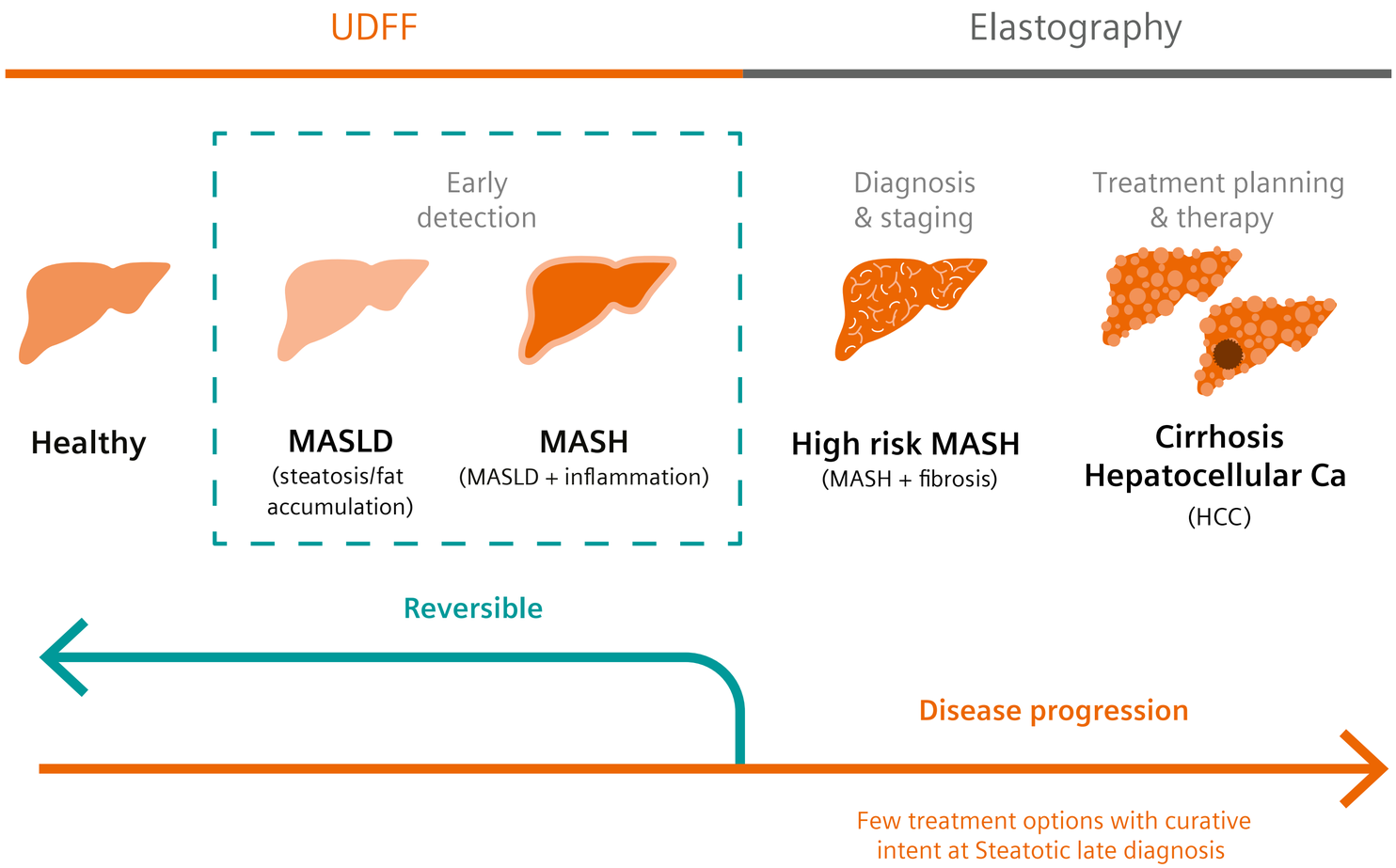
ACUSON Juniper is specially equipped to take on the silent epidemic of liver disease

Nearly 30% of the global population is impacted by MASLD, but only 5% are aware of their condition.[3] This is the silent epidemic of liver disease.

Before MASLD advances to the stages of MASH, cirrhosis and liver cancer, it is still possible to reverse the disease and restore organ health.

Early detection is critical – you can help achieve it with the accessible, affordable, safe and efficient power of ultrasound.

The newly expanded liver imaging suite in ACUSON Juniper and across the ACUSON ultrasound portfolio enables one-minute liver scans with clinically validated, gold-standard level sensitivity and specificity.



Ultrasound to break the silence of an epidemic — at scale

Siemens Healthineers offers a comprehensive suite of liver-assessment tools designed to detect, quantify, and monitor disease proactively — now featured in ACUSON Juniper.

- Ultrasound derived fat fraction (UDFF): Quantifies hepatic fat with good correlation to MRI-PDFF for MASLD screening
- pSWE: Quantifies liver stiffness to assess chronic liver disease
- Contrast imaging (CEUS): For enhanced lesion characterization
- Needle visualization: for safe, precise targeting during liver biopsies and interventions
- Single crystal 6C1 transducer: Improved penetration with high resolution
- Auto TEQ: Auto-adjusts imaging parameters for consistent results
- Compact and mobile: Ideal for bedside liver monitoring and transplant follow-up

It’s time to make the invisible unmissable.

ACUSON Juniper. You’ve got the power.

Current barriers to early detection of liver disease

- Early stages are silent, leading to delayed diagnosis
- Liver fat and fibrosis aren’t routinely screened, especially in primary care
- Limited access to gold-standard diagnostics, like MRI and invasive biopsy, due to cost and availability
- Low awareness among patients and clinicians about MASLD and its risks

The solution: ACUSON Ultrasound

- Enables early detection and routine monitoring
- Widely available and scalable
- Suitable for population-level MASLD screening
- Gold standard comparability to MRI[4] but more affordable and less invasive
- Overcomes reliance on MRI-PDFF and invasive options such as liver biopsy
- Enhances clinical equity across healthcare settings

Beyond service.
Peace of mind.

Our promise is focused on supporting your team's success, and the enduring value of your ultrasound system.

UpTime

When it comes to your ultrasound system, uptime is what enables you to focus on your patients and diagnosis confidence.

UpTime services

UpTime planned maintenance

- Preventive maintenance
- Quality assurance and safety check

UpTime corrective maintenance

- Corrective maintenance
- Service Parts

UpTime application support

- Application support

UpSpeed services

UpSpeed remote support

- Remote technical support via Kinectus remote service
- Remote application support via Kinectus remote service

UpTeam services

- Teamplay Fleet

Advanced technologies

Start each day confident your ultrasound system is updated, secure, and equipped to keep you on the forefront of technology.

UpLift services

UpLift asset cybersecurity

- Cybersecurity management services
- Security appliance and virus protection

UpLift asset lifetime

- System updates and upgrades

System mastery

You have access to the best ultrasound system along with the service and support to always keep you on the leading edge of capability.

UpSkill services

UpSkill education and training

- Equipment and clinical education
- Technical and professional education
- Online courses and classes (Siemens Healthineers Academy)

The products/features mentioned in this document may not be commercially available in all countries. Due to regulatory reasons their future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

Standalone clinical images may have been cropped to better visualize pathology.

At Siemens Healthineers, we pioneer breakthroughs in healthcare. For everyone. Everywhere. Sustainably. As a leader in medical technology, we want to advance a world in which breakthroughs in healthcare create new possibilities with a minimal impact on our planet. By consistently bringing innovations to the market, we enable healthcare professionals to innovate personalized care, achieve operational excellence, and transform the system of care.

Our portfolio, spanning in vitro and in vivo diagnostics to image-guided therapy and cancer care, is crucial for clinical decision-making and treatment pathways. With the unique combination of our strengths in patient twinning,[5] precision therapy, as well as digital, data, and artificial intelligence (AI), we are well positioned to take on the greatest challenges in healthcare. We will continue to build on these strengths to help overcome the world's most threatening diseases, enable efficient operations, and expand access to care.

We are a team of more than 71,000 Healthineers in over 70 countries passionately pushing the boundaries of what is possible in healthcare to help improve the lives of people around the world.

Endnotes

[1] AI-powered measurement tools consist of software applications leveraging machine learning-based Artificial Intelligence to achieve the intended outcome including eSie Calcs, eSie Left Heart package and eSie Measure package, *syngo* Auto Follicle, and *syngo* Auto OB measurements.

[2] In a typical abdominal exam. Data on file. Comparision with Siemens devices, not external devices. Reduction values may vary depending on the user or usaged environment.

[3] Yip TC-F, Vilar-Gomez E, Petta S, Yilmaz Y, Wong GL-H, Adams LA, et al. Geographical similarity and differences in the burden and genetic predisposition of NAFLD. Hepatology [Internet]. 2023;77(4):1404–27. Available from: http://dx.doi.org/10.1002/hep.32774

[4] Validated through a meta-analysis of 9 studies with over 1,100 patients.

[5] Personalization of diagnosis, therapy selection and monitoring, aftercare, and managing health.

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