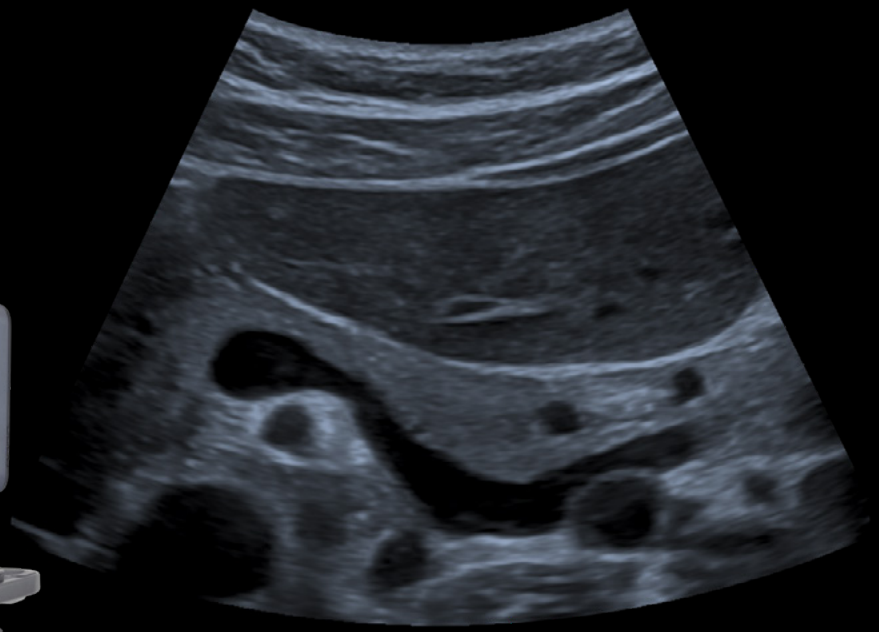
ACUSON Juniper Ultrasound System

When more is essential

Release 2.0

siemens-healthineers.com/juniper



SIEMENS Healthineers

When more is essential

Delivering versatility and clinical excellence

Clinicians across medical specialties are being challenged by the impact of the global obesity epidemic on exam quality, along with the ever increasing utilization of bedside ultrasound. These challenges have created a high demand for both premium performance and portability. However, clinicians are often forced to make trade-offs for one or the other.

ACUSON Juniper is designed to deliver on both; for the clinician that needs more.

This powerful, lightweight ultrasound system with battery scanning and a small footprint is designed to deliver clinical excellence across a variety of clinical areas without sacrificing on imaging performance and portability.

Powerful imaging for reliable results

Experience advanced imaging techniques to enable confident and consistent ultrasound images, without the effort

Next level of clinical versatility

Access a vast selection of transducers and advanced features to delivers clinical excellence across clinical areas

Where form and function meet

Fit into virtually any clinical environment without sacrificing on imaging performance and portability

Powerful imaging for reliable results

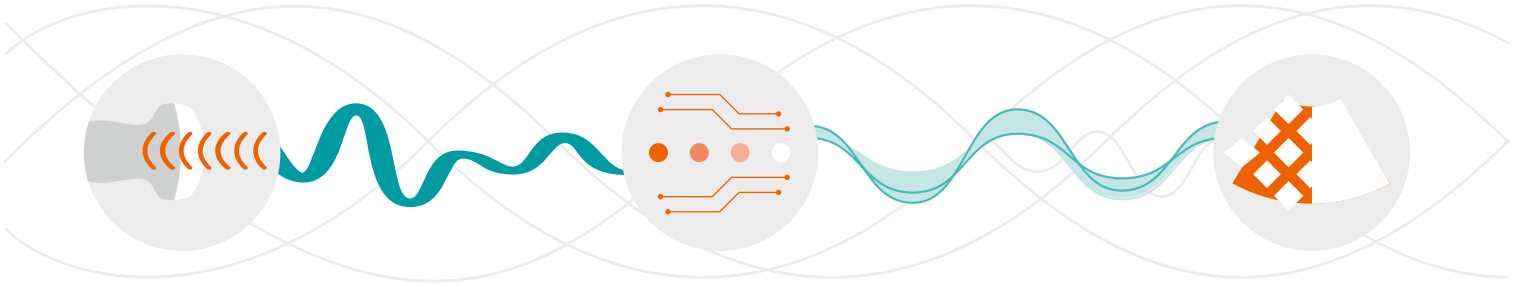
Powered by an advanced platform, ACUSON Juniper is designed from the ground up to offer high fidelity acoustic signals that greatly reduce noise and offer premium image quality in one of the smallest footprints in its class.

Deeper penetration and advanced imaging techniques are enabled by the powerful imaging architecture combined with the latest single crystal transducer technology in general imaging and cardiac ultrasound.

Powerful front-end engine

Efficient signal processor

Advanced back-end engine



Transmit and Receive Signal
Higher system sensitivity and specificity for tissue differentiation

Beamformer
Faster image acquisition with reduced motion artifacts

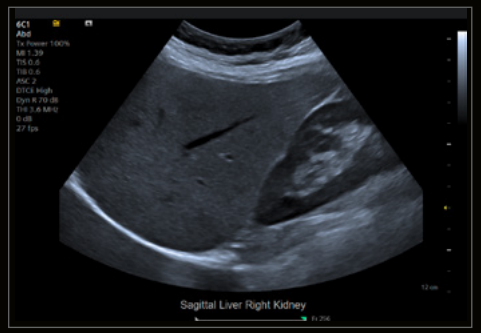
Image Formation
Higher transducer plunkability enables easier imaging

Ultrasound is a unique imaging modality – the quality of the exam is heavily reliant on the operator. Optimizing the ultrasound image is an essential skill that can both improve diagnostic confidence during an exam and enhance visualization of adjacent structures when performing ultrasound guided procedures.

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 question.

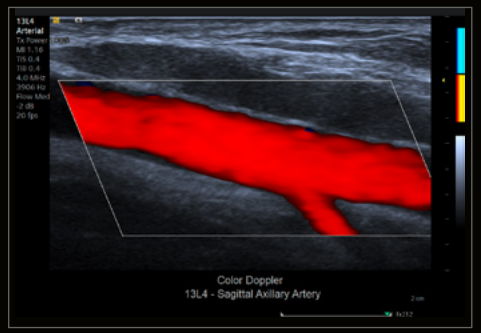
eSieImage Optimization

Improved image quality and workflows by automatically optimizing imaging parameters while scanning.



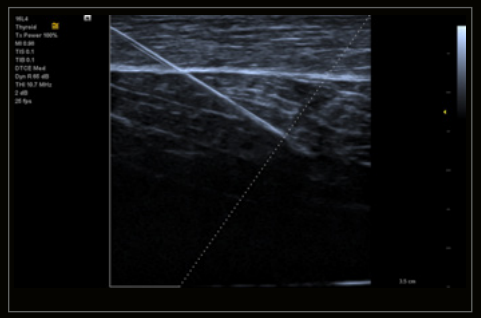
Auto Flash Color Artifact Suppression

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



Enhanced Needle Visualization

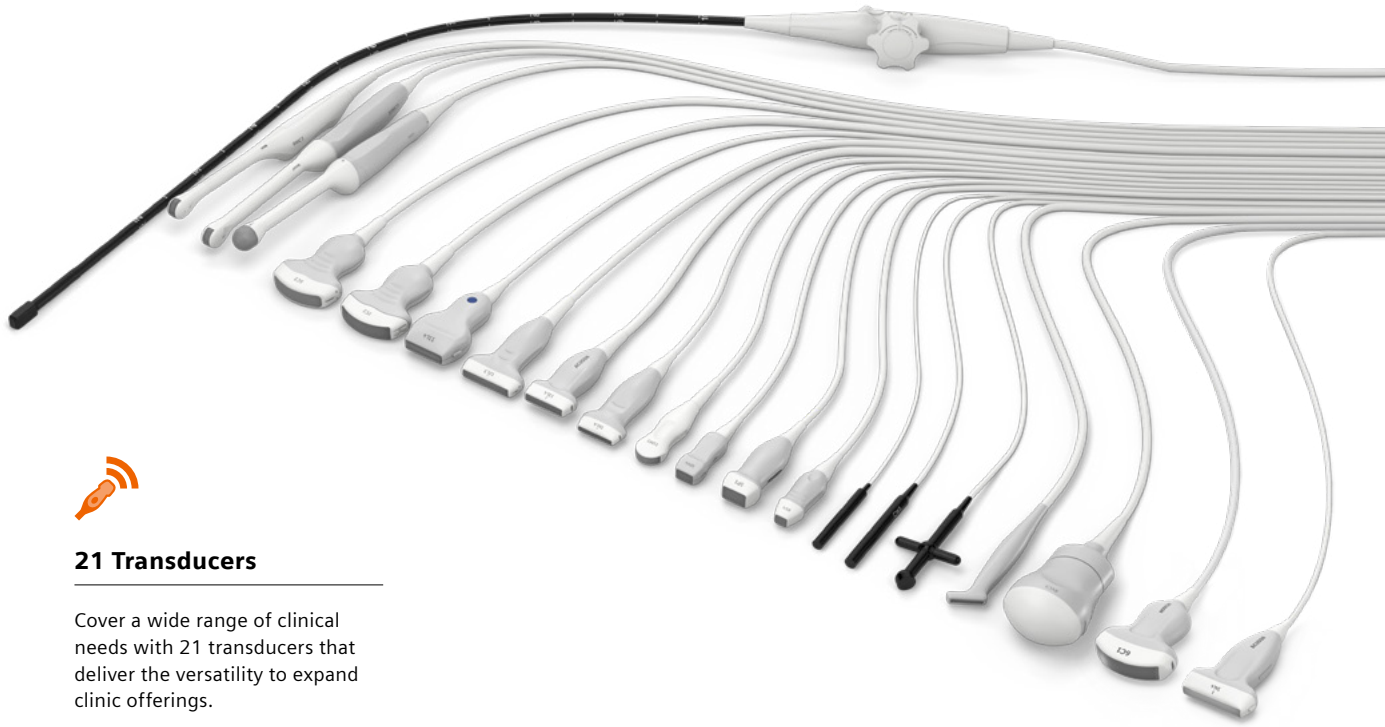
Improved confidence during procedural guidance with a proprietary algorithm to improve the display of the needle.



Next level of clinical versatility

Routinely delivering high-quality care means scanning and answering tough clinical questions about virtually every patient regardless of their size, weight, or condition. Sometimes, innovations which push the limitations of ultrasound are required to deliver confident results.

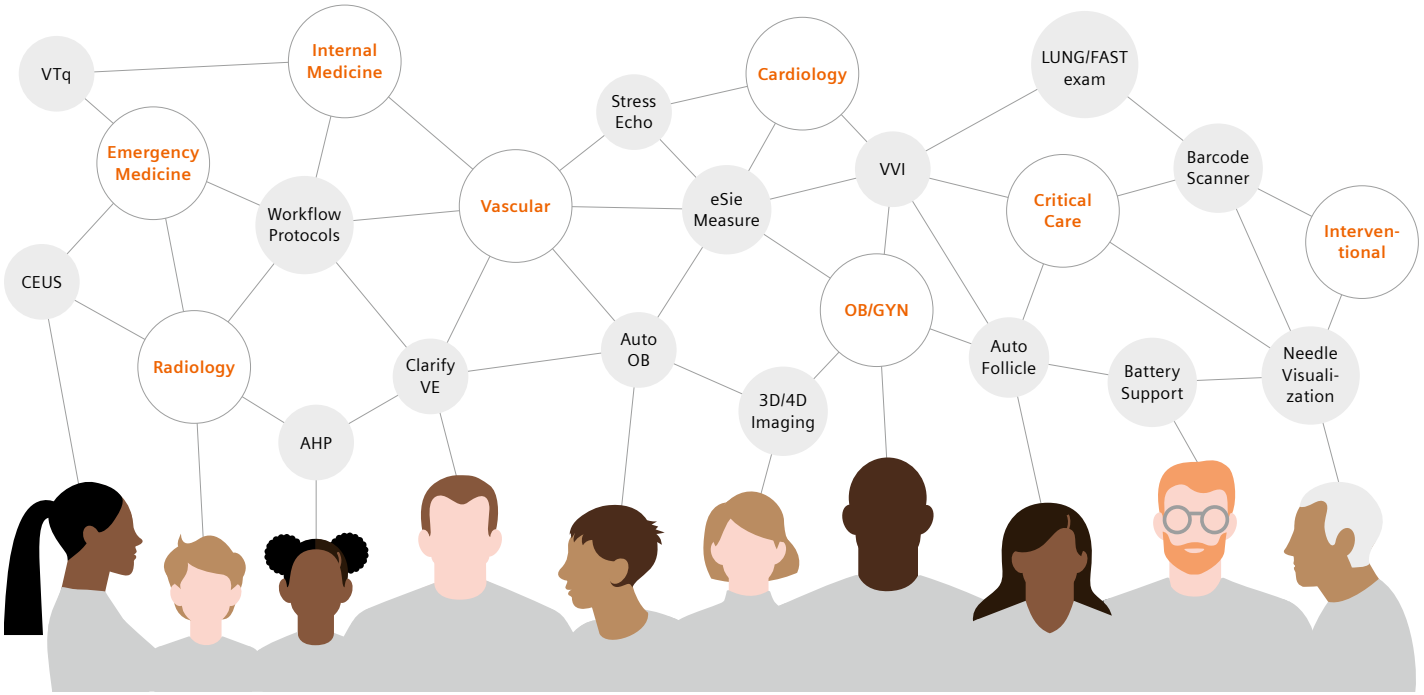
The ACUSON Juniper's large selection of transducers and wide variety of clinical solutions enable a confident exam, no matter the indication.



21 Transducers

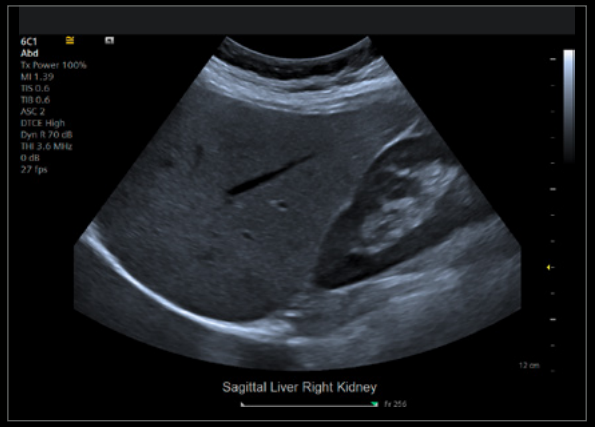
Cover a wide range of clinical needs with 21 transducers that deliver the versatility to expand clinic offerings.

With over 25 advanced tools and options, ACUSON Juniper helps to deliver clinical excellence across clinical areas.



Advanced Applications

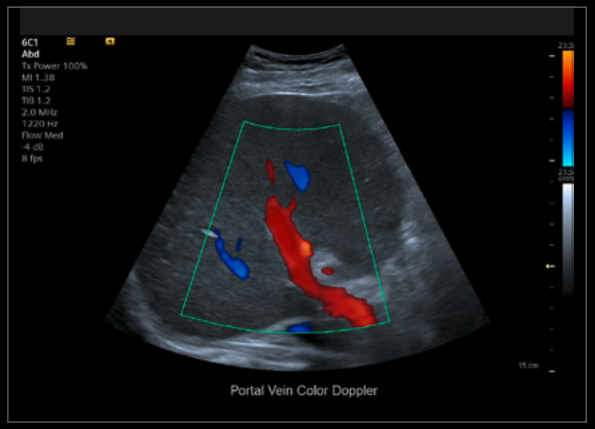
Experience tools ranging from AI powered measurement tools that improve scanning workflows, to clinically specific innovations which improve diagnostic accuracy.[1]



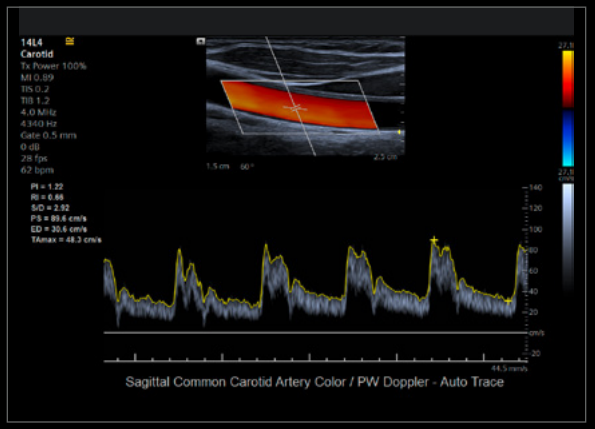
Exceptional image uniformity and sharp border definition is demonstrated in this liver and right kidney image using the 6C1 single crystal transducer.

Fetal profile shows excellent contrast resolution and subtle tissue differences using eSieImage Optimization.

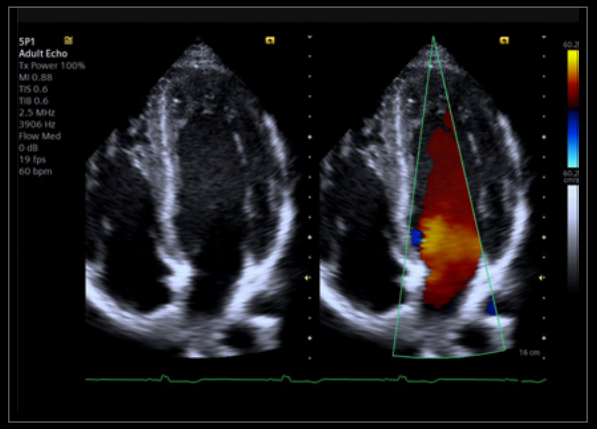
Highly detailed honeycomb pattern of the median nerve is shown supporting the dynamic assessment of musculoskeletal imaging.



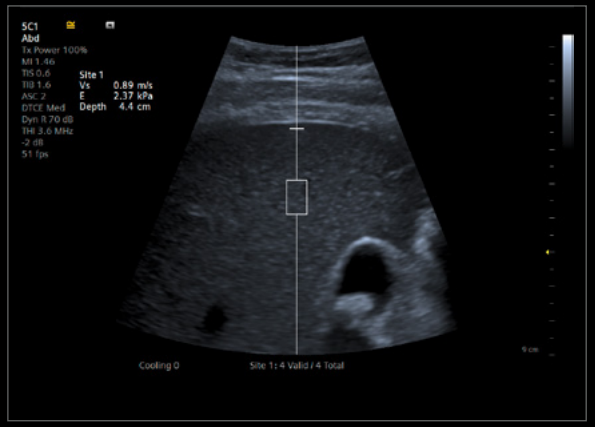
Color Doppler image of the main portal vein demonstrates excellent penetration and color sensitivity.



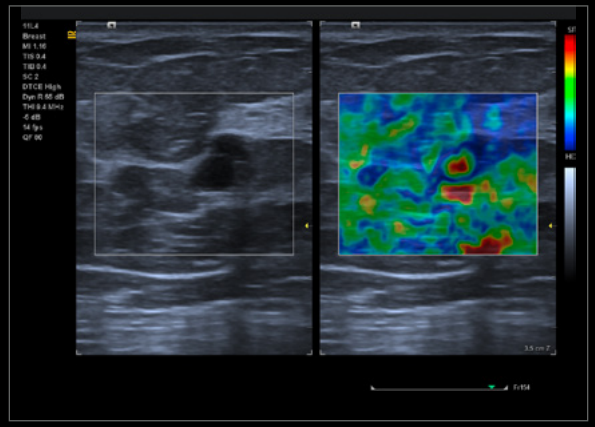
Highly detailed imaging of the peripheral vascular system supports the diagnosis and treatment of vascular disease.



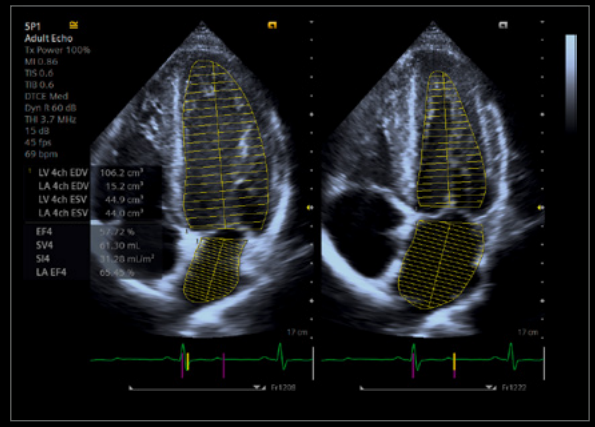
Color Doppler image of the apical four chamber shows exceptional color sensitivity with Auto Color Flash Suppression.



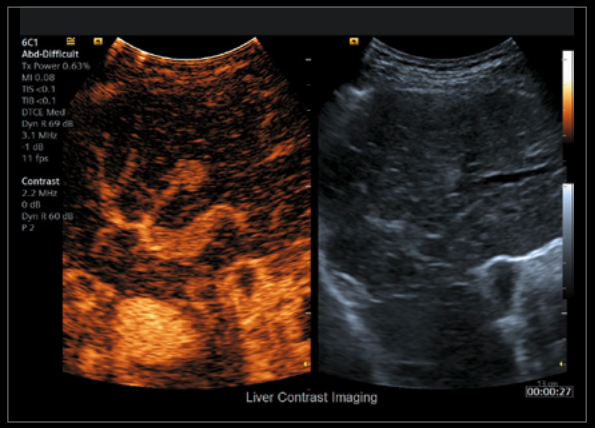
Reproducible, reliable and detailed tissue stiffness information can be quickly and easily obtained using our one touch Virtual Touch point shear wave elastography.



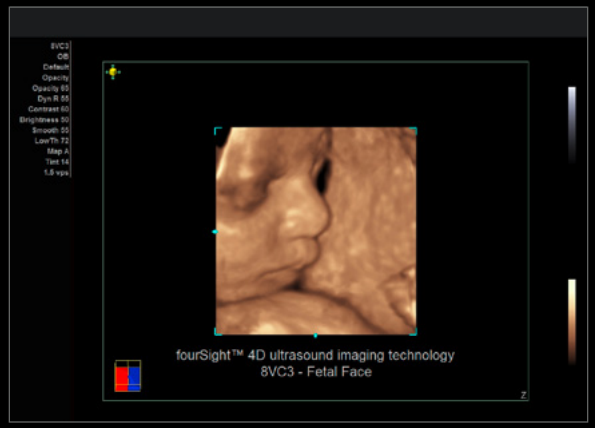
High-resolution qualitative assessment of tissue using eSieTouch elasticity imaging for the assessment of breast lesion characterization.



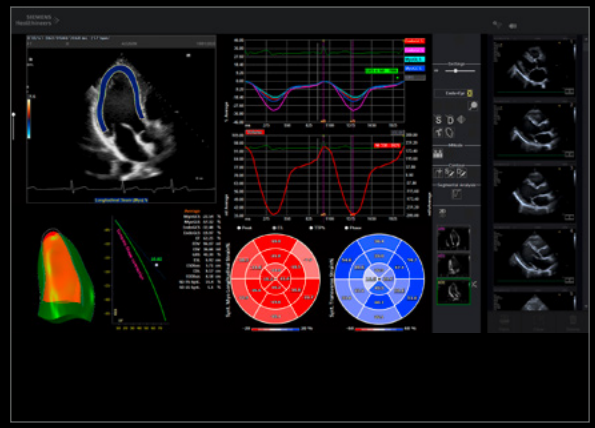
Automatically detect and measure contours of the left ventricle and atrium for improved exam workflows using eSie Left Heart.



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



Advanced visualization of fetal structures using 3D/4D imaging as seen in this surface rendering using the 8VC3 transducer.



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).

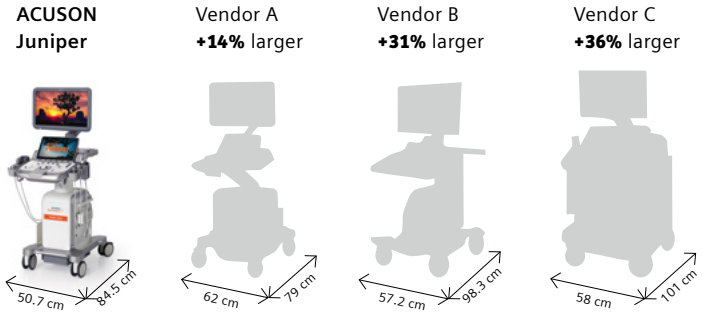
Where form and function meet

Ultrasound is utilized in a variety of clinical settings, from the physician's office to the hospital. System size and portability are critical attributes when considering an ultrasound machine. Small, crowded rooms, operator ergonomics, and the inability to transport critically ill patients are just a few important considerations.

Performance comes at no cost to the functional design of the system. ACUSON Juniper is a powerful, lightweight ultrasound system with a small footprint designed to fit into virtually any clinical environment without sacrificing on imaging performance. From industrial design to ergonomics and workflow, the ACUSON Juniper delivers user-designed efficiency.

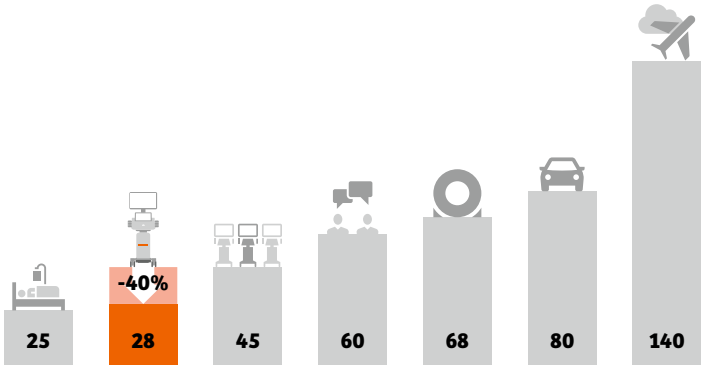
Small and light

ACUSON Juniper is up to **36% smaller** and weighs an average of 27% less than other systems in its class.



The sound of silence

ACUSON Juniper is **40% quieter** than the average ultrasound system.



Sound pressure in decibels (dB).

Bringing mobile workflow to the next level

Move easily between exams, patients, and spaces while still benefiting from remarkable system performance with the ACUSON Juniper system. Designed with intent, the system adjusts easily to individual working preferences – pull the lightweight system from the front or back as you move 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.

90° right and left ration allows the user the flexibility of choosing the transducer connectors position.

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.

13.3” touch display

Smart UI for quicker scan settings and protocols

Intuitive control panel

Customizable height, angle and keys and a customized disposable skin which keeps the control panel clean and sterile

Every detail designed to maximize productivity

Multiple storage bins available as well as space for easy installation of peripherals

21.5” LED monitor

Highly adjustable for maximum operator adaptability

Lightweight maneuverability

One of the easiest systems to maneuver, weighing only 76 kilos (168 pounds), and with both rear and front handles

Purposeful cable management hooks

Several hooks available for a clean, cable free environment

Multiple transducer ports

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

Services

Today, the service experience goes above and beyond pure maintenance. Service can make the difference to your daily operations and help you evolve. This is why we keep innovating our portfolio and team up with you for enhanced efficiency and optimized clinical outcomes.

Service Plans

Benefit from maximized equipment performance and improved staff expertise while keeping unplanned service costs to a minimum.

Connect Platforms and Smart Enablers

Your gateway to experience our wide range of customer services. Get connected to our digital platforms and experience our great variety of services to enhance your daily operations.

Smart Remote Services (SRS) enables connection to remote applications support and technical support.

PEPconnect is your web-based training for Juniper available to you 24/7.

UpTime Services

UpTime Services are designed to provide equipment availability and assure long-term quality and safety to allow you to manage (un-)planned downtimes so that your equipment performs optimally.

- Planned Maintenance
- Corrective Maintenance
- Application Support

UpSkill Education & Training

for workforce know-how and efficiency through knowledge and competency development.

UpLift Asset Lifetime

for state-of-the-art equipment and the latest clinical applications.

UpTeam Workforce Management

for managing and monitoring staff education.

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. By constantly bringing breakthrough innovations to market, we enable healthcare professionals to deliver high-quality care, leading to the best possible outcome for patients.

Our portfolio, spanning from in-vitro and in-vivo diagnostics to image-guided therapy and innovative cancer care, is crucial for clinical decision-making and treatment pathways. With our strengths in patient twinning, precision therapy, as well as digital, data, and artificial intelligence (AI), we are well positioned to take on the biggest challenges in healthcare. We will continue to build on these strengths to help fight the world's most threatening diseases, improving the quality of outcomes, and enabling access to care.

We are a team of 66,000 highly dedicated employees across more than 70 countries passionately pushing the boundaries of what's possible in healthcare to help improve people's lives around the world.

Endnote

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

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