ACUSON Juniper ultrasound system

Everything you need, nothing you don’t

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Helping you transform care delivery

Higher patient volumes. Larger patient sizes. Limited diagnostic certainty. In the face of these trending challenges, you need a reliable ultrasound system that can consistently deliver high-quality images across disease states – a system with optimized accessibility, expanded applications, and ease of use.

Created with these needs in mind, the ACUSON Juniper empowers you to image every patient, knowing you have the clinical information necessary for confident decision-making. Small on the outside, yet big on the inside, the system is designed to adapt to your everyday clinical and workflow challenges.

When form and function meet, the result is the ACUSON Juniper, an ultrasound system that is smaller, more powerful, and capable of accommodating virtually all patients.
The ever growing burden of liver disease

Worldwide 1.9 billion adults are overweight\(^1\) and 600 million are obese\(^1\)

Globally, liver cirrhosis has increased by 20 percent in the last 10 years\(^1\)

Liver biopsies are costly and carry potential complications

Ultrasound professionals are faced with a patient population that is increasingly harder to scan. Imaging at greater depths is needed to provide higher levels of diagnostic confidence.

Millions of people are at risk of developing liver disease from obesity, alcohol abuse, and Hepatitis. However, patients usually show no symptoms until the very late stages. Using ultrasound as a non-invasive test for liver disease can help assess liver tissue stiffness within minutes.

Non-invasive technologies, such as shear wave elastography, produce instant results and potentially reduce healthcare costs by avoiding possible complications from infections caused by interventional procedures\(^2\).
Small on the outside, yet big on the inside

ACUSON Juniper is powered by a completely new platform, designed from the ground up to offer high-fidelity transmit and receive acoustic signals that greatly reduces noise and offers premium image quality and industry leading elasticity solutions.

Where form and function meet

Performance comes at no cost to the functional design of the system. ACUSON Juniper offers one of the smallest market footprints in its class, effortless maneuverability, 5 active transducer ports and a simple, intuitive and highly customizable control panel.
Where form meets function

Small footprint, effortless maneuverability: unlimited versatility.

Wide monitor, large touch display, intuitive UI: highly adaptable workflow.

5 transducer ports and 1 cw port, quick boot-up time: maximum productivity.

Multiple cable hooks, wide variety of available accessories: all-encompassing design.

16 transducers, wide-range of clinical applications: endless possibilities.

High color sensitivity, smooth dynamic flow: stunning clinical detail.

Best-in-class elastography, continuous automation: transformative workflow.

High contrast resolution, complete image uniformity: full diagnostic quality.

Where form meets function

Form

Footprint

Control Panel

Body

Design

Function

Transducers

B-Mode

Color

Applications

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Move easily between exams, patients, and spaces while still benefiting from remarkable system performance with the ACUSON Juniper system. The 6 ports, including 5 active transducer ports and 1 CW port, support multiple clinical applications as you move about your day. 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, 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.

Focus on what matters most

Up to 36% smaller than other systems in the same class, the ACUSON Juniper fits into virtually any hospital room. Weighing only 76 kg (168 pounds), making it one of the lightest and easiest to maneuver Ultrasound system in its class.
21.5-inch LED monitor highly adjustable transition for optimal ergonomic positioning toward, away and side-to-side.

13.3-inch high resolution tiltable touch panel with rapid response technology, allows for quick and accurate key selection.

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

Front and back handle for effortless maneuverability.

Individual Castor lock control on all four wheels.
Focus on what matters most

Among the quietest ultrasound systems in its class on the market, the ACUSON Juniper allows a comfortable room environment and redefines adaptability, meeting staff preferences with ease so you can focus on what matters most – your patient.

The control panel supports a clean and sterile environment with its customized disposable skin. Several cable hooks are available to support better cable management and efficiency.

With 5 active transducer ports and 1 pencil port, the ACUSON Juniper is always ready to scan with little to no setup time. This system is designed for a stress-free environment with a sound pressure of only 28 decibels.

The sound of silence. ACUSON Juniper is 40% quieter than the average ultrasound system. Sound pressure in decibels (dB)

- 25
- 28
- 45
- 60
- 68
- 80
- 140

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Customized disposable skin keeps the control panel clean and sterile.

Purposeful cable management hooks – several hooks available for a clean, cable free environment.

Everything made with intent, including utilities storage basket, magnetic storage bin, and transducer holders.

Efficient workflow with 5 active transducer ports and 1 CW port.

ECG cable connector, DVD writer and physio port.
Image every patient

Routinely delivering high-quality care means scanning virtually every patient regardless of their size, weight, or condition. With its clinical versatility and industry-leading tissue elasticity imaging, the ACUSON Juniper enables you to expand your ultrasound clinical and service offerings across virtually all patient and case types.

The system’s wide variety of clinical solutions and fast image acquisition can improve diagnostic confidence across all departments, from radiology, interventional radiology, and urology to cardiovascular, orthopedic, and obstetrics/gynecological imaging.

Transducers

Cover a wide range of clinical needs with 16 transducers that deliver the versatility to expand clinical offerings.
This image of a fetal profile shows excellent contrast resolution and visualization of subtle tissue differences using eSiImage Multiparametric Optimization, without having to adjust any of the gain controls.

A simple and intuitive control panel allows the users to easily adjust the imaging parameters, resulting in increased speed and workflow efficiency.

Single crystal technology improves diagnostic confidence while performing dynamic cardiac scans as demonstrated in this view of the four chamber heart.

B-Mode

High contrast resolution, complete image uniformity: full diagnostic quality.

Complete homogeneous liver texture from the near to the far field with a well-balanced pixel pattern and sharp border delineation.

Improved tissue differentiation and border detection, as with this gall bladder mass, using Dynamic TCE tissue contrast enhancement technology.
The ACUSON Juniper delivers consistency and repeatability for your clinical environment by guiding the user on what views are required and what else they need to do to get a complete study. Reduce motion artifacts and noise while simultaneously enhancing color sensitivity with Dynamic Persistence and color Auto Flash Artifact Suppression technologies.

Improve diagnostic confidence with exceptional color resolution and with improved physiological representation of color while reducing color flash artifact.

Applications

Offers the ability to measure tissue elasticity imaging with a click of a button using our best-in-class Virtual Touch quantification and eSie Touch elastography. The system helps to reduce operator variability, improves accuracy and gives greater consistency in reporting through several automated tools.
Reproducible, reliable and detailed tissue stiffness information can be quickly and easily obtained using our one touch Virtual Touch quantification technology.

Dynamic Persistence and Auto Flash Artifact Supression technologies help reduce tissue motion and color Doppler artifact, shown in this image of the IVC and duplicated right renal artery.

The perfusion of the renal cortex can be seen here using our color Doppler with Auto Flash Artifact Supression technology.

A small mitral valve regurgitation is seen with our True Fidelity color Doppler technology.

Reproducible, reliable and detailed tissue stiffness information can be quickly and easily obtained using our one touch Virtual Touch quantification technology.

Automated measurement of volume and ejection fraction for LV and LA function in 2D echo using eSie Left Heart.

3-Scape 3D shows a detailed representation of the gallbladder pathology seen here.
Where form meets function

**Functional Performance**

- Shear wave elastography imaging
- Comprehensive measurements package
- 16 new transducers to cover all clinical applications
- New front-end, beamformer and back-end engines for improved contrast resolution, plunkability, sensitivity and specificity

13.3” touch display
Smart UI for quicker scan settings and protocols

Intuitive control panel
Customizable height, angle and keys

Quiet, stress-free environment
Bedroom-like sound level, 40% quieter than average

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
Reliable support

Service: Remote assistance technology

You need to know that you have access to support when and where you need it. With eSieLink Remote Assistance technology, you get just that so you can work more confidently. eSieLink enables fast problem resolution and overall increased productivity.

Cloud-based network for imaging fleet management

teamplay is a cloud-based network that brings together healthcare professionals in order to advance medicine and human health as a team effort. Be it an institution, hospital chain, or integrated delivery network, transparency of performance is key to its success. teamplay brings this transparency to the imaging fleet. With its built-in multi-vendor support, it grants instant access to fleet statistics. And more crucially, it empowers healthcare professionals to identify improvement potential on all levels of execution.
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.

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At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey towards expanding precision medicine, transforming care delivery, and improving patient experience, all enabled by digitalizing healthcare.

An estimated 5 million patients globally everyday benefit from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics and molecular medicine, as well as digital health and enterprise services.

We are a leading medical technology company with over 170 years of experience and 18,000 patents globally. With more than 48,000 dedicated colleagues in 75 countries, we will continue to innovate and shape the future of healthcare.

Endnotes
1 World Health Organization (WHO), 2010
3 Prerequisites include: wireless connection to clinical network, meeting recommended minimum hardware requirements, and adherence to local privacy and security regulations.