ACUSON Juniper Ultrasound System

Everything you need, nothing you don’t

Release 1.5

siemens-healthineers.com/juniper
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.
Everything you need, nothing you don’t

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.
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

ACUSON Juniper

Vendor A
+14% larger

Vendor B
+31% larger

Vendor C
+36% larger

Control Panel

Support greater workflow personalization with a simple, intuitive control panel and tiltable, highly customizable 13.3-inch touch screen. Able to be optimized for space availability, convenience, and user preference, the system’s 90° right and left rotation allows flexibility and improved transducer connector positioning.

The Footprint

ACUSON Juniper offers powerful capabilities in one of the industry’s smallest ultrasound systems. Able to fit in virtually any hospital room, the system is up to 36% smaller and weighs an average of 27% less than other systems in its class.

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.

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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 rotation allows the user the flexibility of choosing the transducer connectors position.

Front and back handle for effortless maneuverability.

Bi-directional locks enable moving the system easily from one location to another.
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 sound of silence. ACUSON Juniper is 40% quieter than the average ultrasound system. Sound pressure in decibels (dB)

- Design
  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.

- Body
  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.

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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, auxiliary physio port, and DVD writer.

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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.

The ACUSON Juniper has a comprehensive suite of 19 transducers, supporting a diverse range of Shared Services, Cardiac, and Women’s Health clinical applications.

**Transducers**

Cover a wide range of clinical needs with 19 transducers that deliver the versatility to expand clinical offerings.

**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 gallbladder mass, using Dynamic TCE tissue contrast enhancement technology.

This image of a fetal profile shows excellent contrast resolution and visualization of subtle tissue differences using eSieImage 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.

Four chamber view of the heart utilizing the 5P1 single crystal transducer.

The fibrous connective tissue bands are clearly displayed in this image of the patellar tendon.
Image every patient

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.

ACUSON Juniper Advanced applications for maximum productivity and confidence.

Clarify VE
VTq (Quantitative Elastography Analysis)
M&R Packages
Stress Echo
Vector Velocity Imaging (VVI)
eSiE Measure
Auto Follicle
eSiEScan
Left Ventricle Opacification (LVO)
SieScape
eSiEImage
AHP
Auto OB
SRS
eSiELink

Color

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.

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

A transesophageal image of the LVOT and aortic valve are visualized with color flow Doppler using the 5VT 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).

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
• Suite of 19 transducers to cover all clinical applications
• New front-end, beamformer and back-end engines for improved contrast resolution, plunkability, sensitivity and specificity
• syngo VVI (Velocity Vector Imaging) cardiac strain analysis package

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
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.

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

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

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

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

ACUSON Juniper Ultrasound System

The ACUSON Juniper provides embedded time-tested and leading-edge imaging technologies encapsulated by an elegant, yet simple and intuitive design. The ACUSON Juniper supports 19 transducers and has 5 transducer ports.

With a capacitive touch screen and traditional control panel, the ACUSON Juniper is engineered to grow and adapt with dynamic user requirements and departmental demands as they evolve.

ACUSON Juniper Ultrasound System, Select Edition

Note: This product option supports limited transducers, software features and options compared to the ACUSON Juniper. The ACUSON Juniper Select Edition has 4 transducer ports.

The ACUSON Juniper Select Edition is not upgradable to include advanced features and transducers.

<table>
<thead>
<tr>
<th>Probes</th>
<th>ACUSON Juniper</th>
<th>ACUSON Juniper Select Edition</th>
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<tbody>
<tr>
<td>5C1, 8VC3, 10MC3, 12L3, 11L4, 5P1, CW2, CW5</td>
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1 CW8 transducer is not available for sale in the U.S.A.

Options

<table>
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<tr>
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<td>Advanced SieClear Spatial Compounding</td>
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Rising cost pressure in healthcare drives need for continuous optimization across the equipment lifecycle

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. As our world becomes more connected each day, we put special focus on adding new services to our digital offerings so we can fulfill your requirements better and faster.

With our services, we are by your side whenever you need us. Always on. Always in touch.

**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.

**UpSpeed Services**
UpSpeed Services give you access to experts anytime to answer technical and clinical application questions remotely and proactively monitor your equipment – for fast and smooth-running operations.

**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.

**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, Smart Remote Services (SRS), PEPconnect and teamplay Fleet, and experience our great variety of services to enhance your daily operations.
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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An estimated five million patients worldwide 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’re a leading medical technology company with over 120 years of experience and 18,500 patents globally. With over 50,000 employees in more than 70 countries, we’ll continue to innovate and shape the future of healthcare.