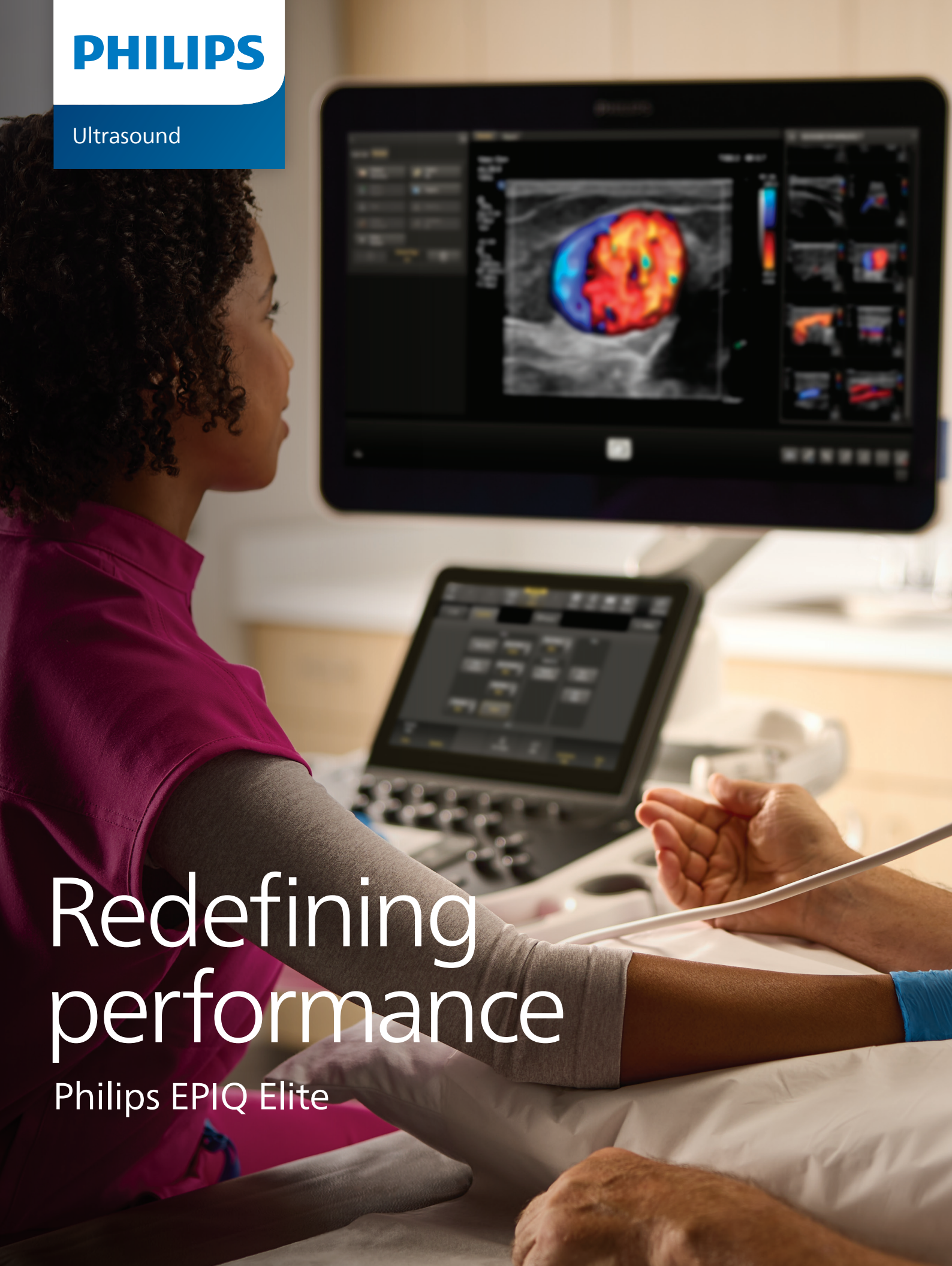
PHILIPS

Ultrasound

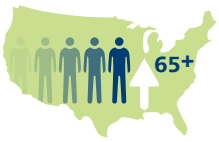


Redefining performance

Philips EPIQ Elite

Ultrasound that's built for the challenges you face

Because the challenges aren't getting easier, Philips ultrasound continues to evolve.



From 2019 to 2034, U.S. population is projected to grow by 10.6%, **with 42.4% increase in ages 65+**[1]

Patient populations that are **technically difficult to scan** and cases that are more complex

Imaging staff think **23% of their work is inefficient** and would be better if automated[2]

Budget constraints

Time shortage for clinicians

Long wait times for patients

Need for telehealth and remote access to care for increased patient accessibility of exams

Growing **global shortage of radiologists** and other clinicians, and an aging population[3]

Unnecessary, sub-optimal and repeat imaging cost as much as $12B+ annually[4]

The right answers at the right time

EPIQ Elite offers our unique combination of high-quality images and clinical information to help you quickly provide the right answers – at the point they're needed – to more people around the world.

Confident imaging

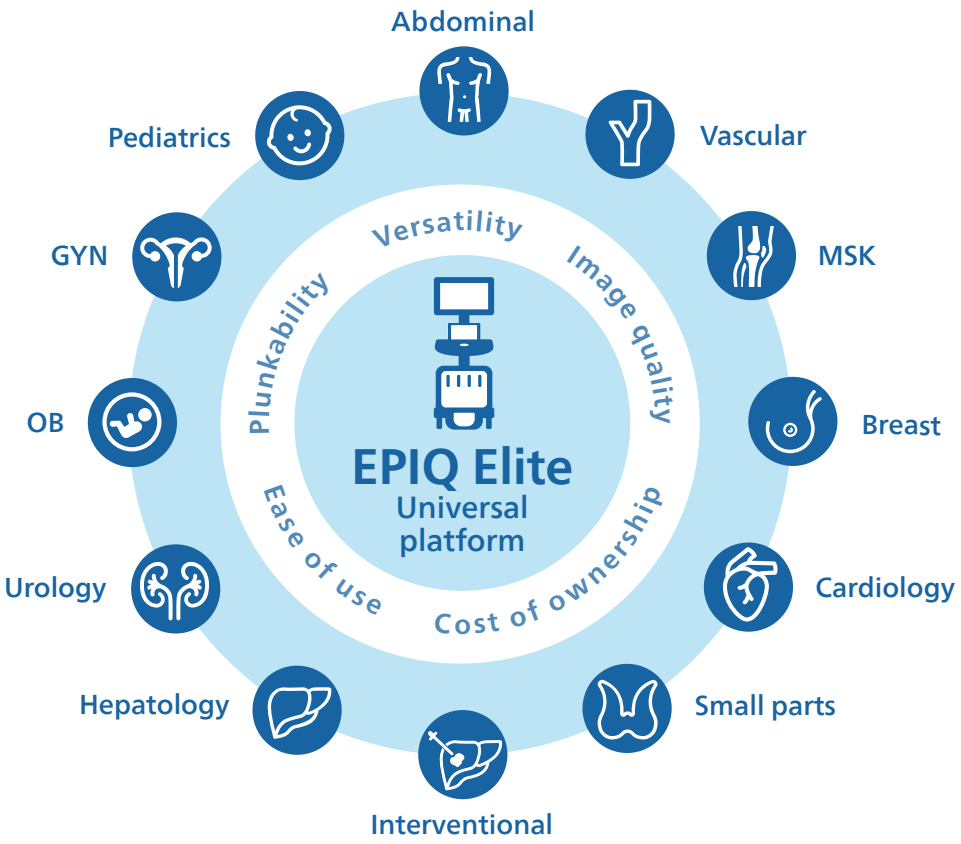
Advanced insights

Intuitive experience

Trusted partner

A universal ultrasound platform

Exceptional performance across all clinical segments.



Ultimate ultrasound solutions

Access advanced tools and capabilities across patient populations.

Liver solution

Breast solution

Small parts solution

Vascular solution

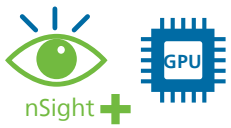
OB solution for early detection

Pediatric solution

Confident imaging

Future-ready with our next-generation platform

Enhanced hardware specifications means your system is ready for the next generation of imaging transducers, algorithms and quantification when they arrive.



The power of nSight Plus Imaging Architecture* combined with GPU processing delivers a **40% boost in data throughput** compared to previous generations.**

Fast beam processor response time and high data rates help achieve our **highest frame rates.**

What sets nSight Plus apart from the rest?

Doubles the frame rate without impact to image quality

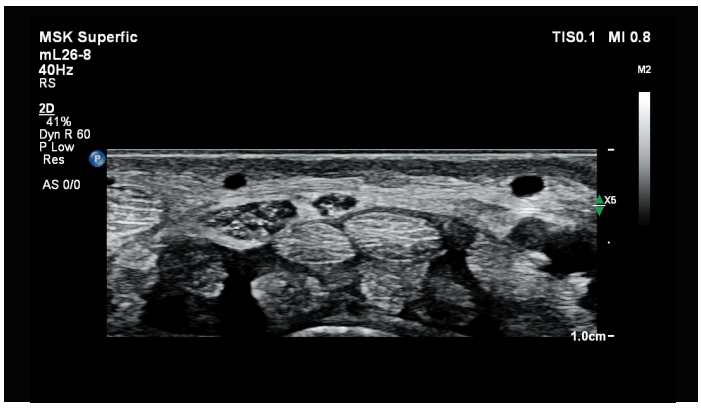
Corrects focus during beam reconstruction for superb uniformity

Provides superb penetration across a full range of frequencies

* nSight Plus Imaging Architecture is not available on all transducers.
** Compared to release 7.0.

Transducers that keep you ahead

Innovative and lightweight transducers provide advanced capabilities and excellent superficial resolution and penetration for exceptional image quality, even for technically difficult patients.[5]



mL26-8 transducer

Our latest advance in transducers features our highest frequency, offering **36% improved spatial resolution and 64% improved penetration** in superficial applications.*

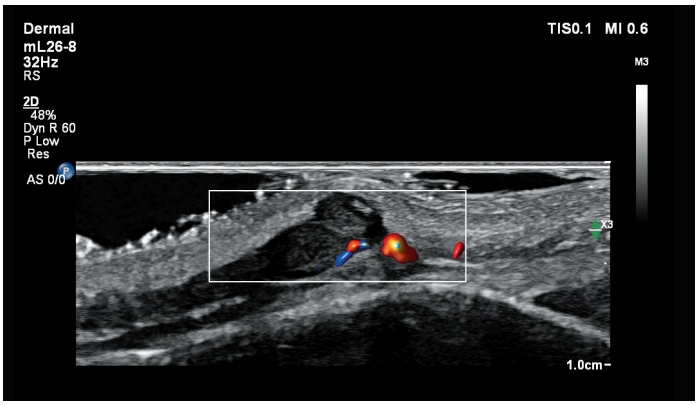
Wrist imaging with the mL26-8 transducer.

*Compared to the predecessor transducer L15-7io.

Enhance clinical confidence for virtually all patients

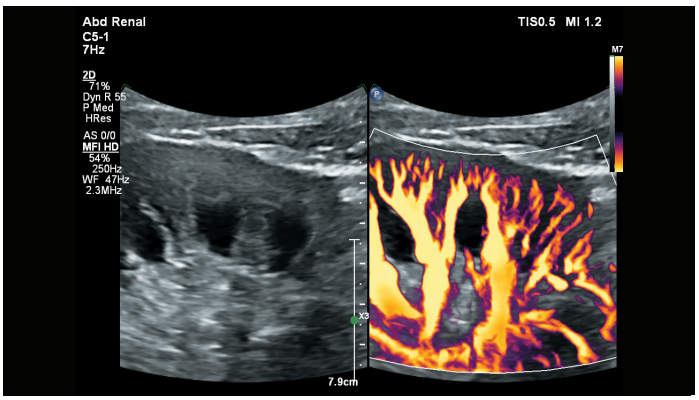
Next Gen AutoSCAN

Improves image uniformity, adaptively adjusting image brightness at every pixel, reducing rib shadowing and the need for user adjustment while also improving transducer plunkability. Reduces button pushes by up to 54% with pixel-by-pixel real-time optimization.*



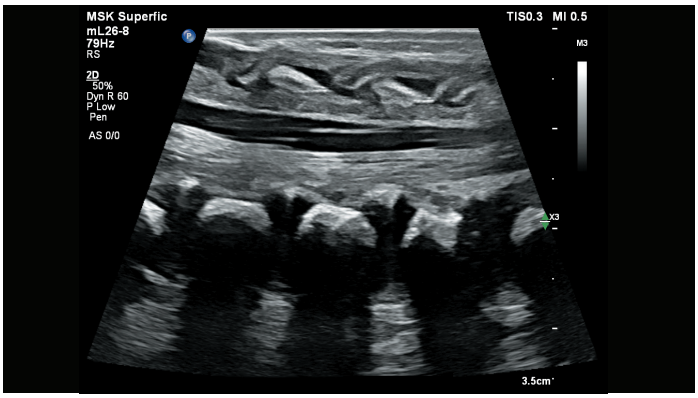
Flow Viewer

Defines vasculature with a 3D-like appearance using both the velocity and power of the Doppler signal to accurately represent vascular flow topography.



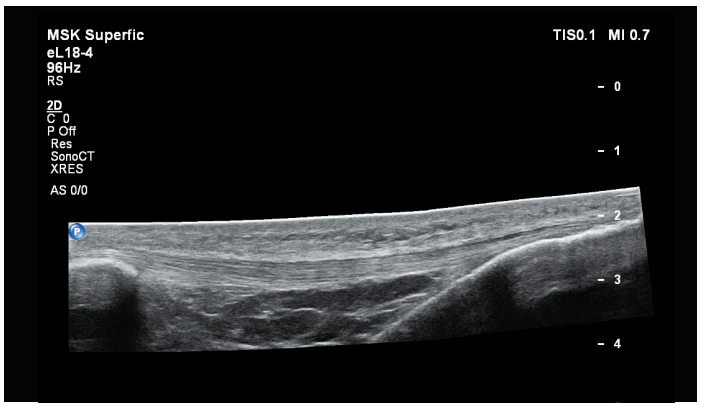
MicroFlow Imaging HD (MFI HD)

Offers 2x the sensitivity and resolution of MFI in assessing blood flow.**



Trapezoid Imaging

75% larger field of view than previous generation with Trapezoid Imaging provides earlier visibility to the needle for faster procedures.†



Panoramic view

Provides the entire landscape in a single view for a global representation of anatomical structures.

Needle visualization

Enhances needle visualization for interventional procedures.

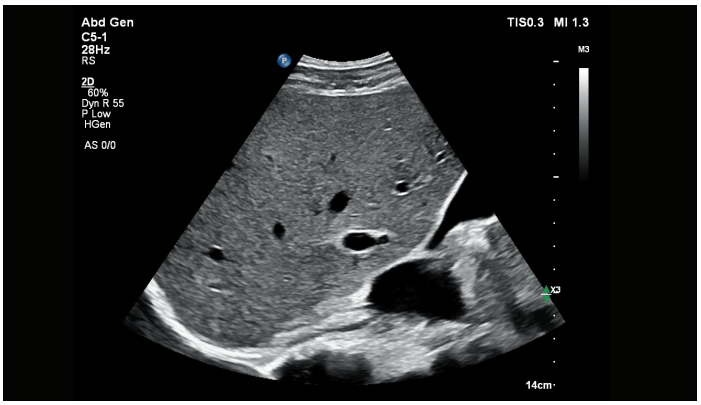
* When comparing VM10 performance to VM7 performance.

** Internal measured comparison on standards MFI to MFI HD using clinical targets and standard measurement methodology

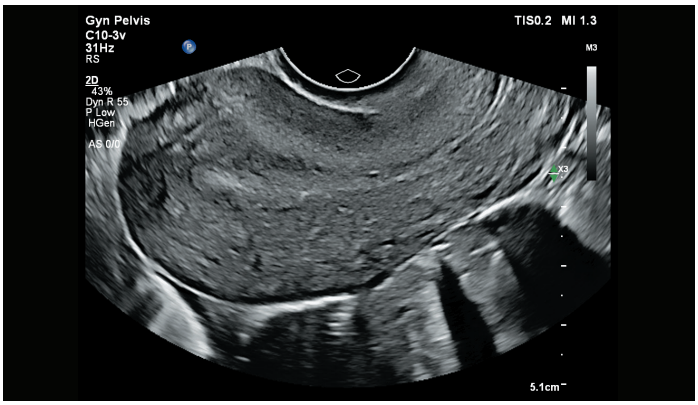
† Compared to the predecessor transducer L15-7io for all depths greater than 1.6 cm.

Exceptional image quality

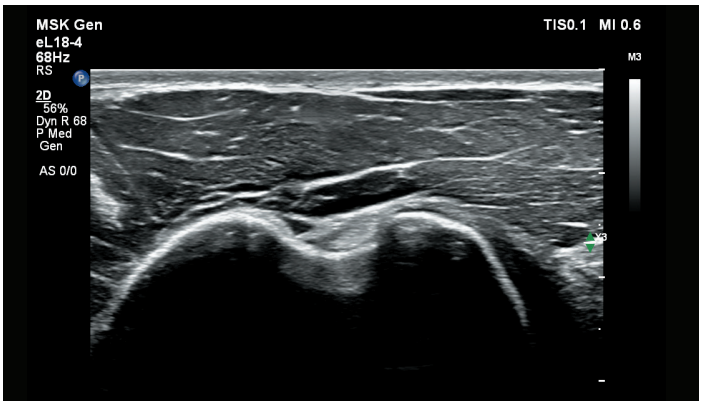
Our comprehensive range of transducers includes those with the power of PureWave crystal transducer technology for outstanding image quality even in technically difficult patients (TDP).[5]



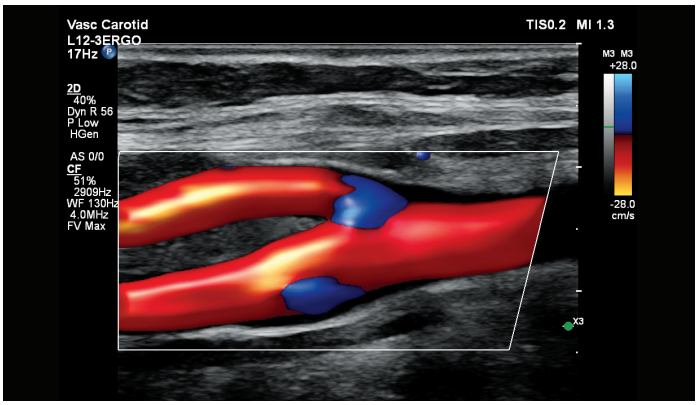
Liver imaging with the C5-1 transducer



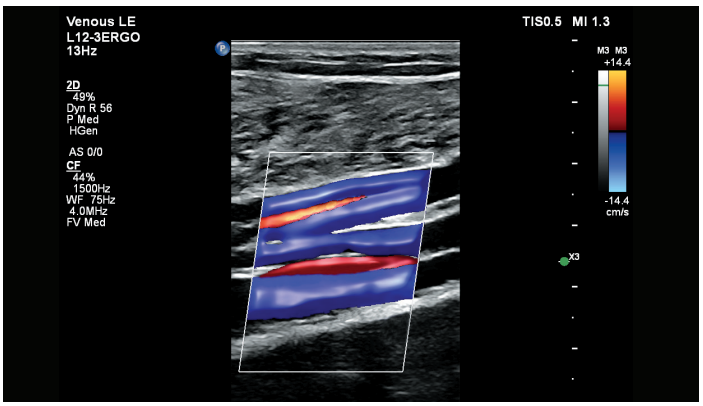
Uterine imaging with the C10-3v transducer



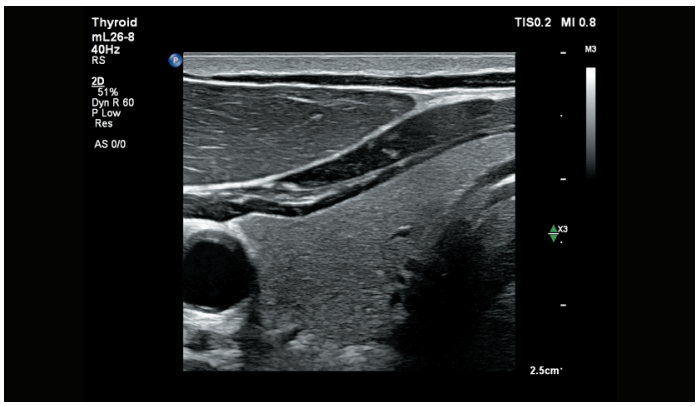
Bicep tendon with eL18-4 transducer



Carotid imaging with the L12-3 transducer

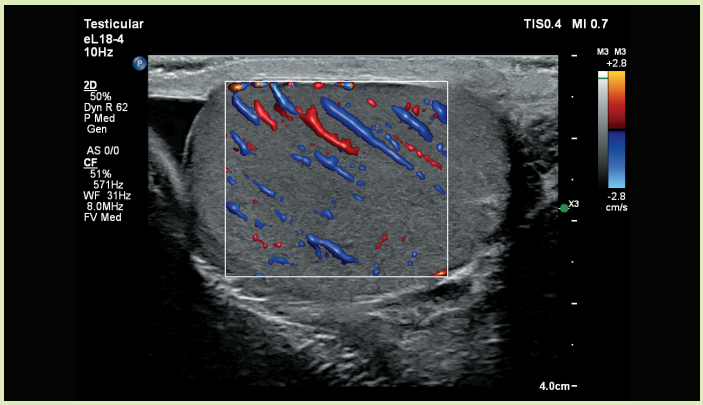


Calf vein imaging with the L12-3 transducer

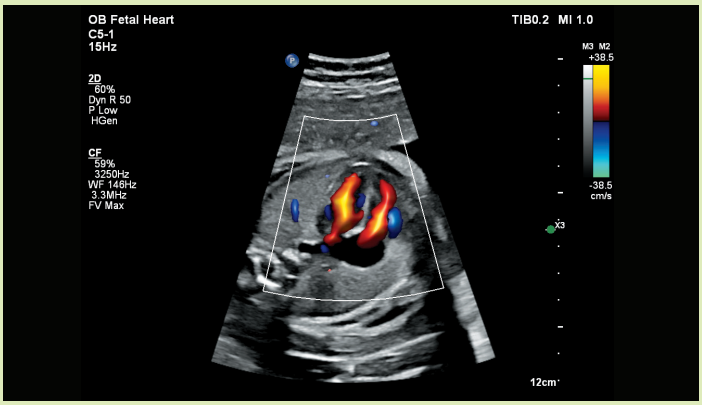


Thyroid imaging with mL26-8 transducer

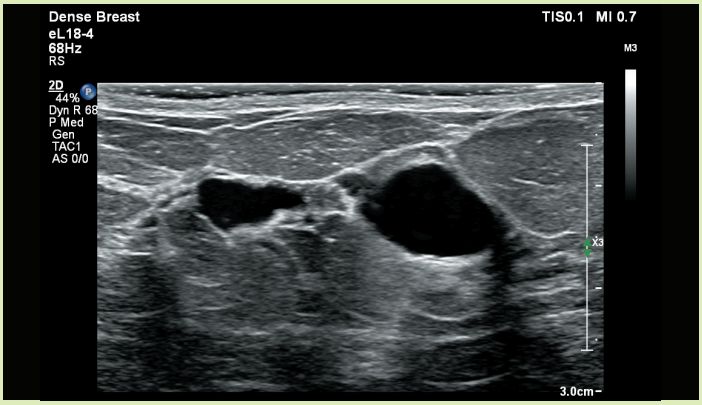
All clinical segments



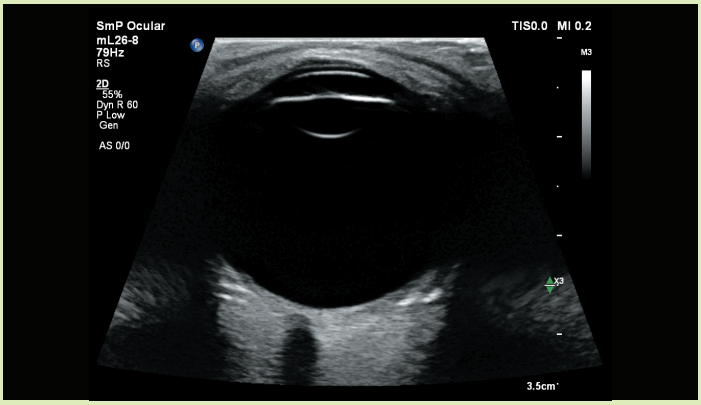
Testicular imaging with the eL18-4 transducer



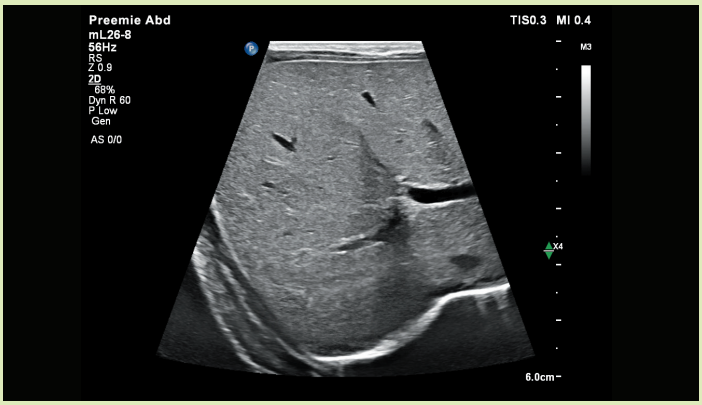
Fetal echo with the C5-1 transducer



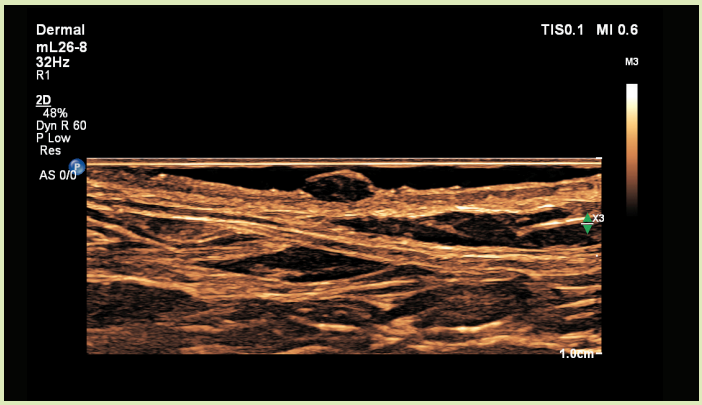
Breast imaging with the eL18-4 transducer



Optic nerve imaging with the mL26-8 transducer



Pediatric liver imaging with the mL26-8 transducer



Dermal imaging with the mL26-8 transducer

Advanced insights

Gain fast, more reproducible analysis

Anatomically Intelligent Ultrasound (AIUS) is designed to elevate the ultrasound system to an actively adaptive device for exceptional levels of clinical information, range of capabilities and advanced quantification.

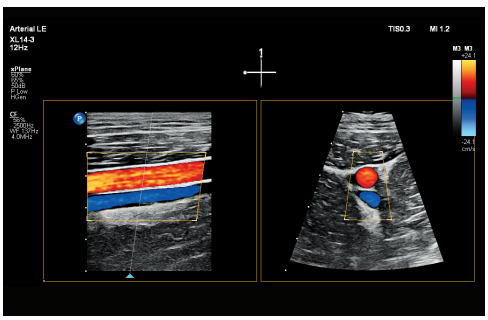
xMatrix maintains clarity and uniformity through depth of field

The X5-1 transducer
features 3,000 elements for cardiac scanning.

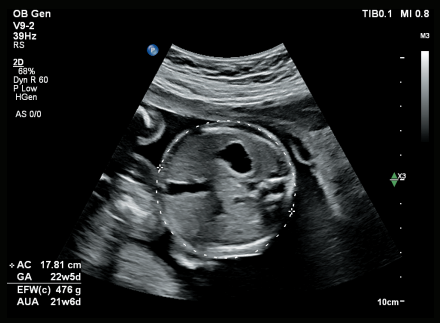
The X6-1 transducer
offers 9,000 elements for OB, fetal echo, abdominal and vascular applications.

The XL14-3 transducer
has 14,000 elements for vascular scanning.

xPlane
allows precise placement of the Doppler sample volume using both longitudinal and transverse reference images.

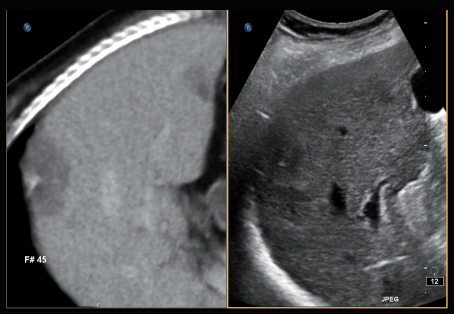


AI Breast

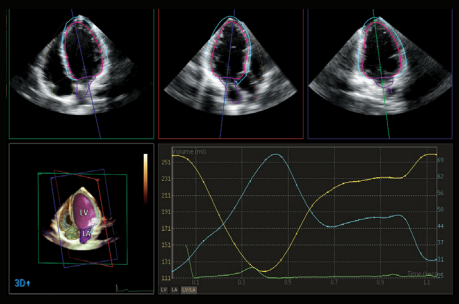


Fetal Biometry Assist

3D Auto Edit



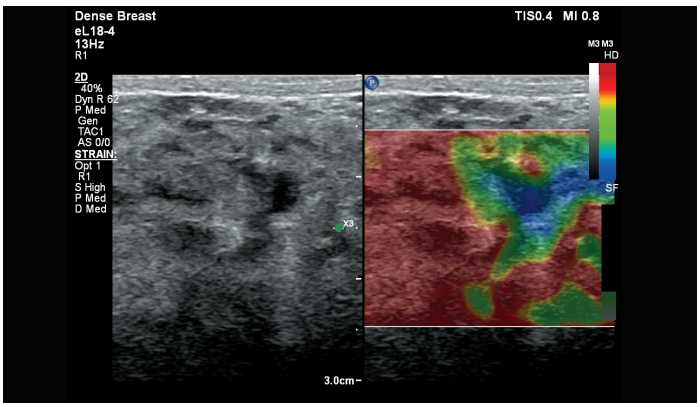
Auto Registration for CT and MR



Dynamic Heart Model

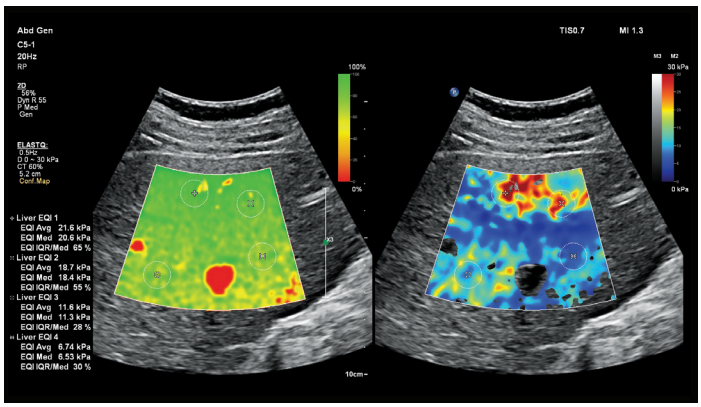
Reveal more definitive information

Our full solution for elastography supports both strain and shear wave methods. Highly sensitive strain imaging helps rapidly assess relative tissue stiffness values, while ElastQ imaging provides quantitative shear wave measurements in real time.



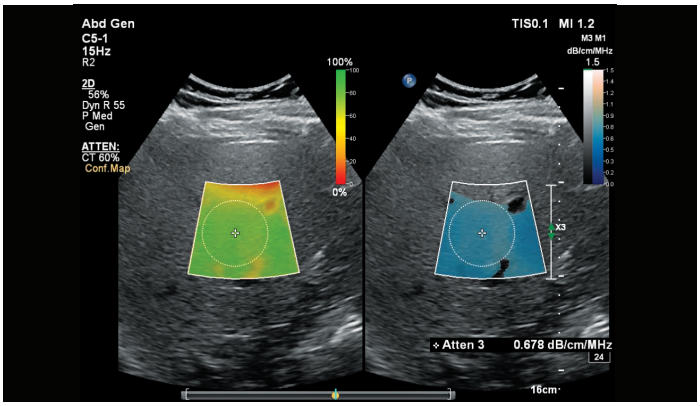
Strain elastography

This qualitative technique allows the user to see the relative stiffness of a questionable lesion compared to the surrounding tissue.



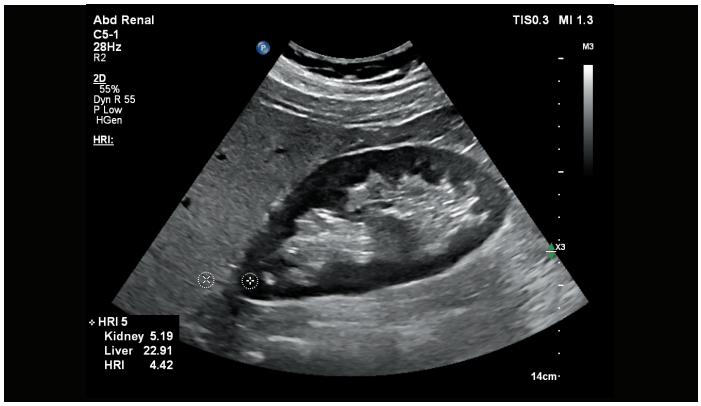
ElastQ imaging

Provides a quantitative measure tissue stiffness and offers a map for additional clinical confidence in the reliability of measurements.



Liver Fat Quantification (LFQ)

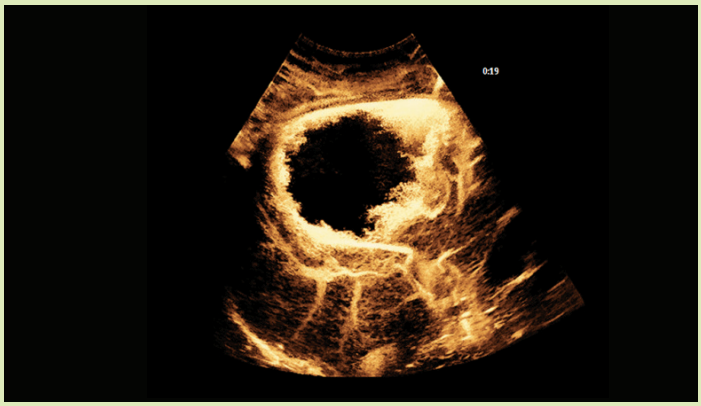
Attenuation imaging offers a rapid, noninvasive quantitative measure for more complete liver assessment.



Hepatorenal index (HRI)

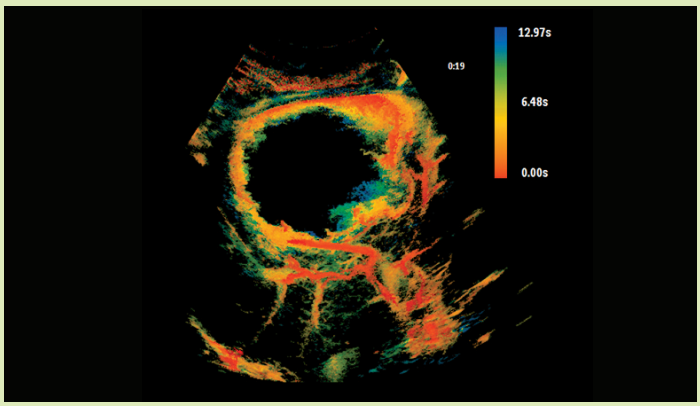
Quantitatively compares the echogenicity of the liver to that of a healthy kidney.

Expand the utility of ultrasound



Microvascular Imaging Super Resolution Contrast-enhanced Ultrasound (Super Resolution MVI)

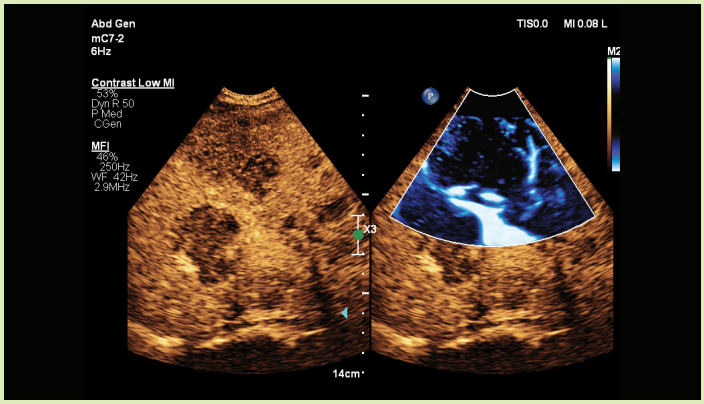
Improves resolution by more than 200% through advanced motion compensation for higher spatial resolution, reduced motion artifacts and increased wash-in filling pattern visibility.*



Time of Arrival

Provides concise visualization of the temporal patterns of perfusion while maintaining the superb spatial resolution offered by Super Resolution MVI.

Clinical images above are courtesy of Dr. Stephanie Wilson.



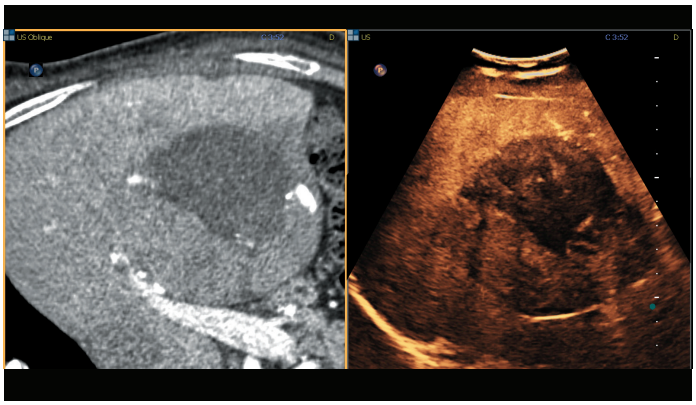
Contrast-enhanced ultrasound (CEUS)

CEUS can transform the role of ultrasound in the liver, allowing the study of the enhancement patterns of suspicious liver lesions in real time, as well as provide an alternative non-ionizing approach to the assessment of vesicoureteral reflux in pediatric patients.

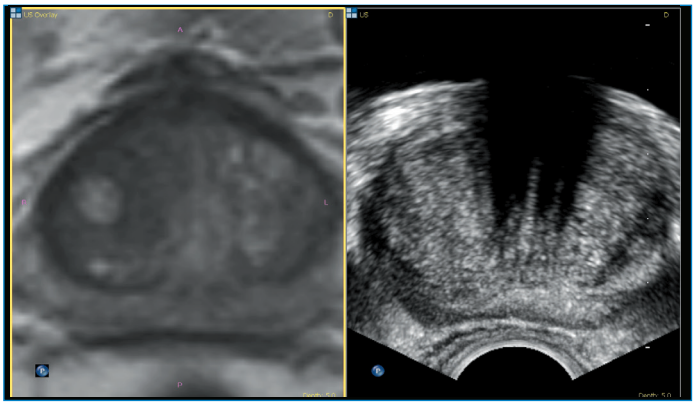
* Compared to previous capability.

Streamline image fusion and navigation

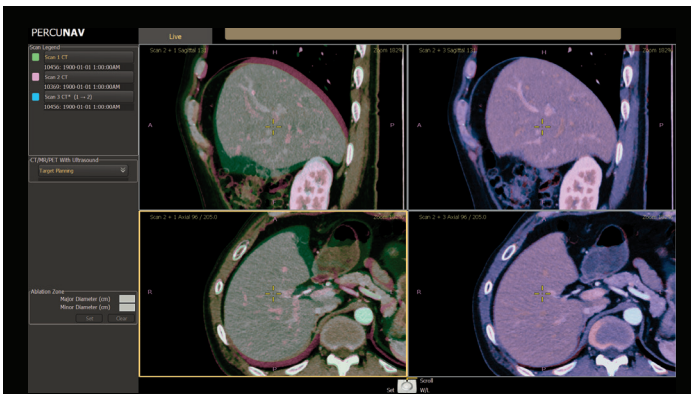
Streamlined workflows allow fast and effective fusion of CT, MR or PET with live ultrasound



CT and ultrasound fusion of liver mass with CEUS

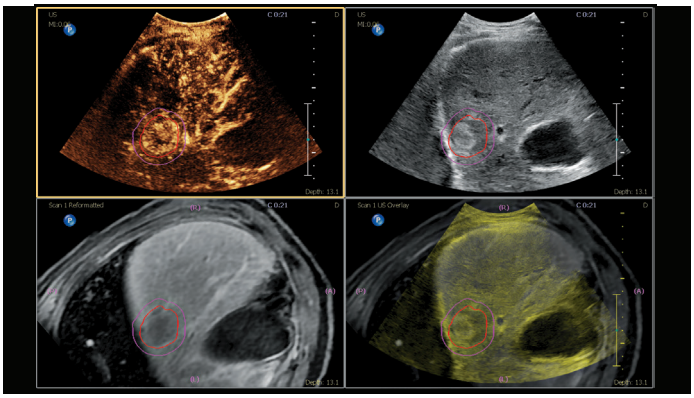


Prostate fusion imaging



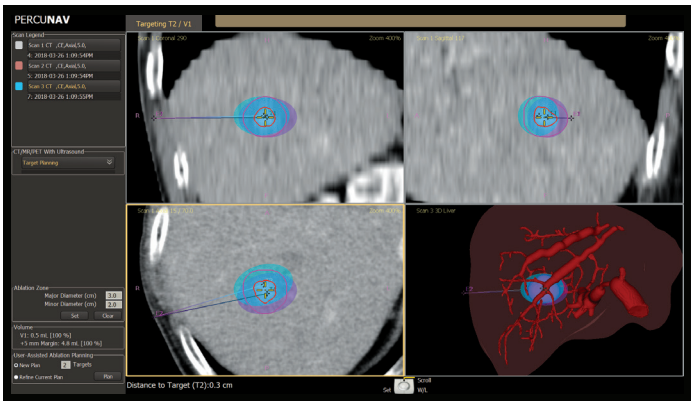
User-assisted Co-registration

This is a one-button method for co-registering CT images to ultrasound.



Tumor contour

Visualize your target with a semi-automated tool that helps outline a 3D contour around a structure of interest, rendering the lesion in 3D or 2D via a complementary modality.



User-assisted Ablation Planning

Generate an optimal treatment plan based on a segmented tumor, designed to develop a quick initial ablation plan, which the user can then adjust.

Continuous patient tracking

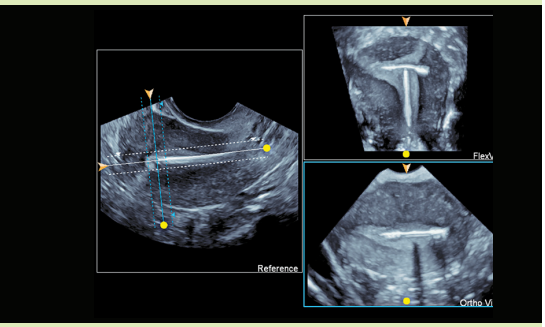
Needle location in relation to CT is tracked and updated in real time for procedure visualization, so that once the registration step is complete, the patient or field generator can move without losing anatomical landmarks or diminishing accuracy.

Provide additional insights

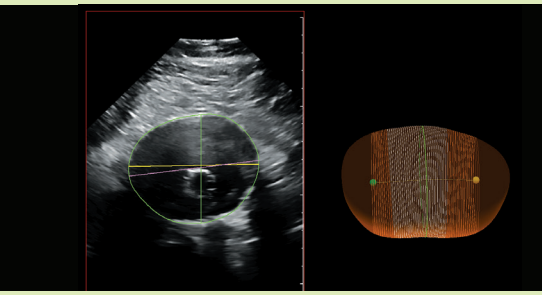
Simplify 3D/4D

What used to take 10 steps with conventional interface now takes just one step. TouchVue finger manipulation of 3D and 4D information simplifies the examination with icon-driven workflow and allows all users to experience a new dimension in vascular imaging.

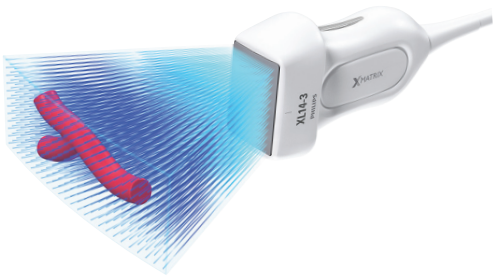
TrueVue with 3D virtual light source



FlexVue allows easy visualization of technically difficult anatomical views from 3D volumes



Abdominal Aortic Aneurysm (AAA) Model segments and quantifies 3D ultrasound data for surveillance of native and post-EVAR AAA's with interoperator reproducibility superior to that of 2D ultrasound



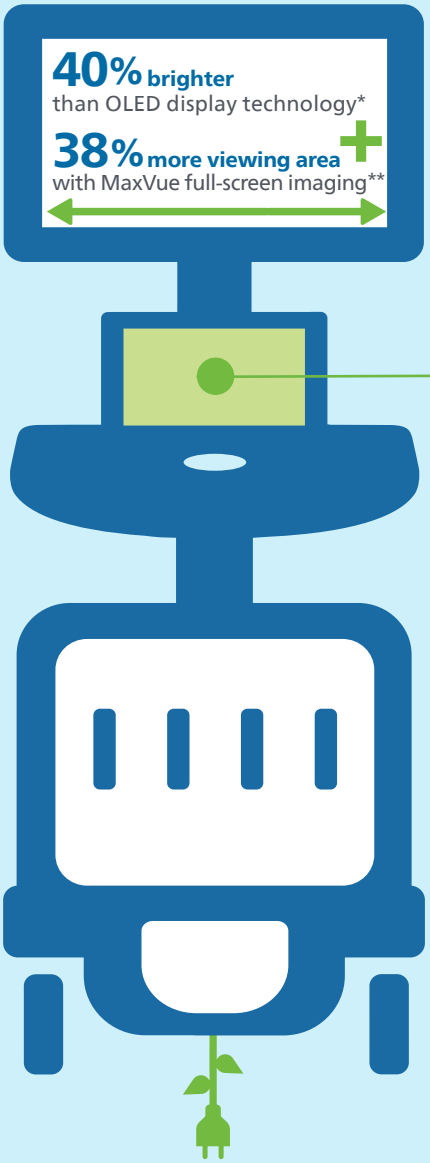
Visualize vessel casts using 3D flow data

Facilitate clinical decisions and enhance patient consultation

Electronic 3D and 4D volume acquisition of vascular anatomy provides new insight into plaque spatial location and composition, as well as direct assessment of stenotic or tortuous conditions.

Intuitive experience

HD MAX display



Next Gen AutoSCAN

Improves image uniformity, adaptively adjusting image brightness at every pixel and reducing the need for user adjustment while also improving transducer plunkability. **Reduces button pushes by up to 54% with pixel-by-pixel real-time optimization.**†

Superb ergonomics

More than 80% of sonographers experience work-related pain, and more than 20% of these suffer a career-ending injury.[3] **Multiple degrees of articulation for both control panel and monitor offer 720° of freedom for scanning comfort.**

SmartExam

Enhances user workflow with **system-guided protocols** that can be easily customized to suit your needs.

CIVCO Verza biopsy guide‡

Directly attaches to the transducer, allowing needle guidance with a minimal blind zone.

Image duplication screen

Displays a duplicate monitor image on the touchscreen for **enhanced workflow** during interventional procedures.

Tablet-like interface

Dramatically reduces reach and button pushes, with **40% to 80% less reach and 15% fewer steps.**§

Post-processing controls

Reduces the need for repeat scans. 84% of users reported that rescanning the patient could be avoided due to unsatisfactory image quality resulting from inappropriate image settings.¶

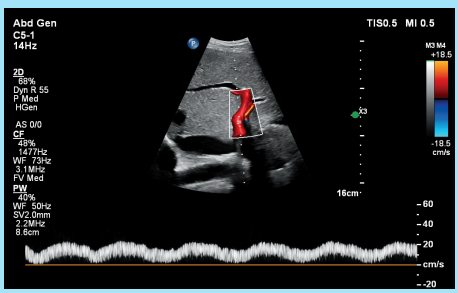
Sleep mode for easy transportation

Enables near-instantaneous boot-up (30 seconds) through a battery life of 45 minutes. One of the greenest systems we've ever designed, EPIQ consumes **25% less power** than our legacy premium ultrasound system.#

Uses **25%** less power#

Auto Doppler

Adjusts optimal flow sensitivity and resolution, **reducing 10 steps to 3 steps** and also reducing the number of repetitive button pushes by an average of **68%.**[7]



Abdominal imaging with the C5-1 transducer

Reduce number of button pushes by **68%**[7]

* Internal specification comparison of OLED on EPIQ CVx verses EPIQ HD MAX.
** Compared to our previous monitor without MaxVue.
† When comparing release 10 performance to release 7 performance.
‡ Not available on all transducers.
§ 2013 engineering study comparing Philips iU22 ultrasound system with EPIQ.
¶ This is based on a sample size of n=37 users.
# Compared to its predecessor product, iU22.

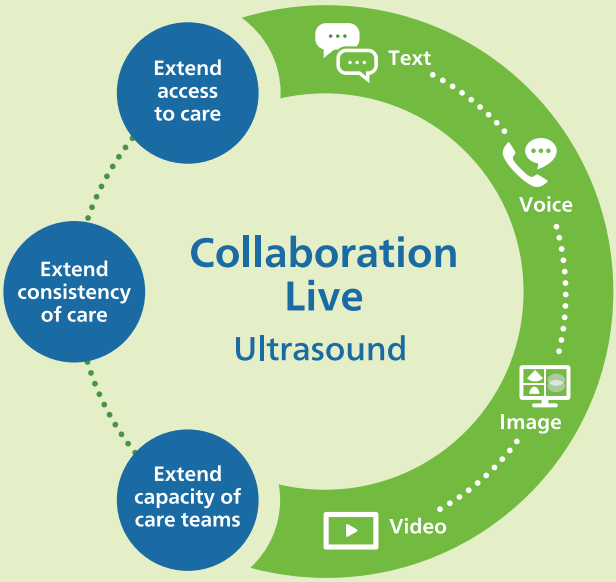
Trusted partner

Ultrasound Collaboration Live with Multi-party*

Extend your team without expanding it

Remote access to help elevate diagnostic confidence, now with simultaneous multi-party communication

Up to six users can quickly and securely talk, text, screen share and video stream directly from the ultrasound system for access to multiple clinical resources at a distance, allowing for fast time to diagnosis.**



Flexible financing

Innovative solutions tailored to you, with the financial flexibility to manage capital budgets and return on investment, supporting your continued growth.

Defense-in-depth security

Philips ultrasound is developed for security as well as clinical capability.[8]

Comprehensive clinical education

To improve operational efficiency and support patient care.

Award-winning service

Philips has ranked #1 in ultrasound service for nearly 30 years in a row.†

A world leader in sustainability

Philips is committed to lifecycle circularity for its systems.‡

* EPIQ Ultrasound System release 10.0.
** Contract required. Collaboration Live is intended for remote diagnostic use on release 9.0 or higher.
† Philips is rated number one in overall service performance for ultrasound for 28 consecutive years in the annual IMV ServiceTrak survey in the USA.
‡ Philips again achieved a #2 ranking in the leading sustainability benchmark in Dow Jones Sustainability Indices and achieved second place in 2020 on the Wall Street Journal's "100 Most Sustainably Managed Companies in the World" list.

Find out more at www.philips.com/gi

1. IHS Markit Ltd. The complexities of physician supply and demand: projections from 2019 to 2034. Washington, DC: AAMC; 2021.
2. Radiology staff in focus: A radiology services impact and satisfaction survey of technologists and imaging directors. A research study conducted for Philips by The MarkeTech Group, 2019.
3. Morris MA, Saboury B. (2019) Access to imaging technology in global health. In: Mollura D., Culp M., Lungren M. (eds) Radiology in Global Health. Springer, Cham. doi.org/10.1007/978-3-319-98485-8_3
4. Enrollment snapshot of radiography, radiation therapy and nuclear medicine technology programs-2017. American Society of Radiologic Technologists. https://www.asrt.org/docs/default-source/research/enrollment-snapshot/enrollment_snapshot_2017.pdf?sfvrsn=45b959d0_4.pdf
5. Chen J, Panda R, Savord B. Realizing dramatic improvements in the efficiency, sensitivity and bandwidth of ultrasound transducers: Philips PureWave crystal technology. Koninklijke Philips N.V. Aug 2006.
6. Society of Diagnostic Medical Sonography, Industry Standards for the Prevention of Musculoskeletal Disorders in Sonography, May 2003.
7. Philips Auto Doppler Clinical Study, Dec. 2011.
8. EPIQ and Affiniti Security white paper, document number 452299180531, April 2023.

www.philips.com

Printed in the Netherlands.
4522 991 83051 * AUG 2023