



**PHILIPS**

Ultrasound

**Philips EPIQ Elite and Affiniti**

## Redefining performance in vascular ultrasound

Population growth and aging are increasing incidence of cardiovascular disease worldwide.<sup>1</sup> Philips ultrasound solutions help clinicians efficiently assess and monitor vascular disease, enabling delivery of exceptional patient care even for patients who are technically difficult to scan, such as those with high BMIs.

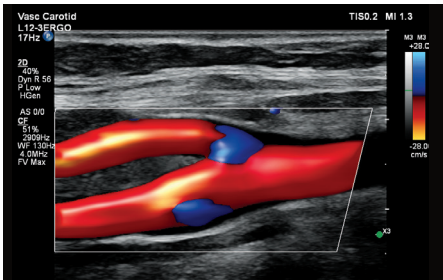
Ultrasound has significant strengths in vascular imaging. It is widely available, easy to use, more cost-effective than other imaging methods such as MR, and does not have the ionizing radiation of CT.<sup>2</sup> It can help clinicians reliably assess the vasculature in real time through comfortable scanning, thanks to Philips advances in transducer ergonomics.



# Confident imaging

## L12-3ERGO transducer

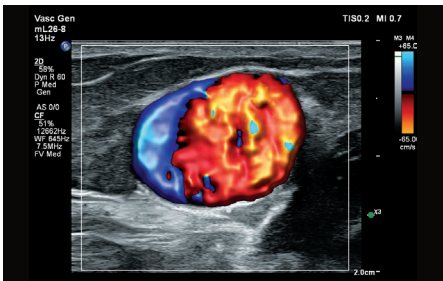
Ergonomic design allows ease of use and better grip during procedures, with xRes Pro to provide **superb delineation of vessel interfaces** and enhanced plaque texture conspicuity, helping elevate diagnostic confidence during vascular imaging.



Carotid imaging with the L12-3ERGO transducer

## mL26-8 transducer

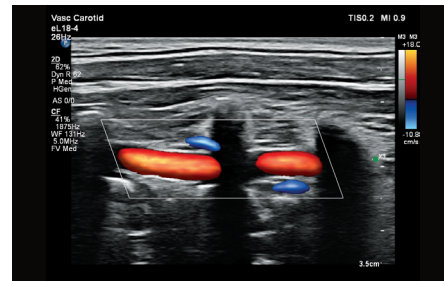
High-frequency transducer to **enhance image contrast and sharpness**, as well as detailed vessel views.<sup>†</sup>



Vascular imaging with the mL26-8 transducer

## eL18-4 transducer

Featuring a multi-row array configuration, the eL18-4 transducer provides thin-slice imaging for **exceptional detailed resolution and tissue uniformity** from near to far depth of field in vascular imaging.



Vertebral artery with the eL18-4 transducer

## C5-1 transducer

PureWave crystal transducer technology for **outstanding image quality** even in technically difficult patients (TDP).<sup>‡</sup>



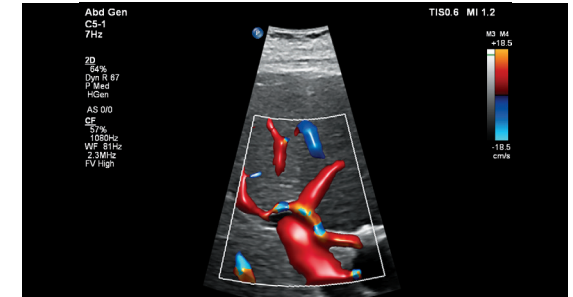
Abdominal imaging with the C5-1 transducer



nSight Plus Imaging Architecture,<sup>\*</sup> a more powerful beamforming technology providing next-generation imaging performance.<sup>\*\*</sup>

## Flow Viewer

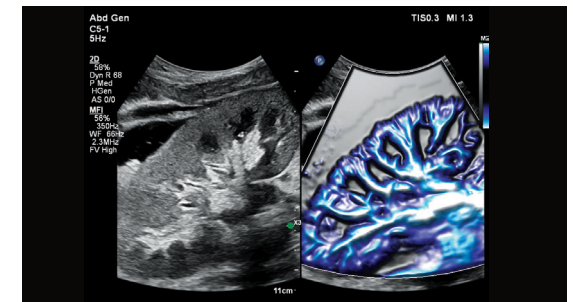
Defines vasculature with a **3D-like appearance** using both the velocity and power of the Doppler signal to accurately represent vascular flow topography. Enables sharper delineation of vascular flow margins as compared to traditional color mode in 100% of cases<sup>‡</sup>



Abdominal imaging with the C5-1 transducer with Flow Viewer

## MicroFlow Imaging (MFI)

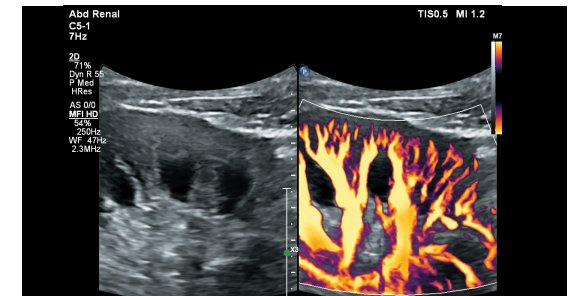
Provides remarkable sensitivity and detail in **assessing blood flow**.<sup>§</sup>



Renal imaging with the C5-1 transducer with MFI

## MicroFlow Imaging HD (MFI HD)

Offers **2x the sensitivity and resolution**<sup>§</sup> of MFI in assessing blood flow.



Renal imaging with the C5-1 transducer with MFI HD

2 \* Not available on all transducers. \*\* Compared to release 7.0. † Compared to the predecessor transducer L15-7io. ‡ Not available with the Affiniti ultrasound system. § Internal measured comparison on standards MFI to MFI HD using clinical targets and standard measurement methodology.

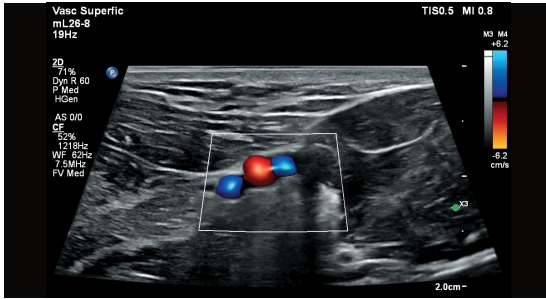




# Advanced insights

## Trapezoid imaging with true trapezoid color

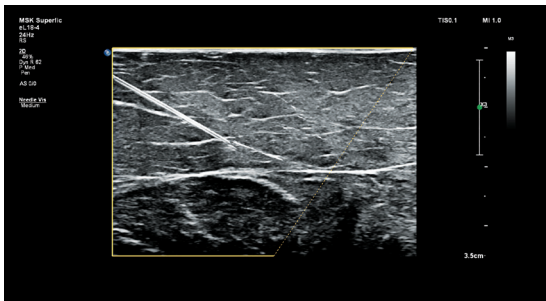
Displays a wider field of view using the mL26-8 transducer, which provides a **75% larger field of view**.<sup>1</sup>



Vascular Imaging with the mL26-8 transducer with trapezoid view

## Needle visualization

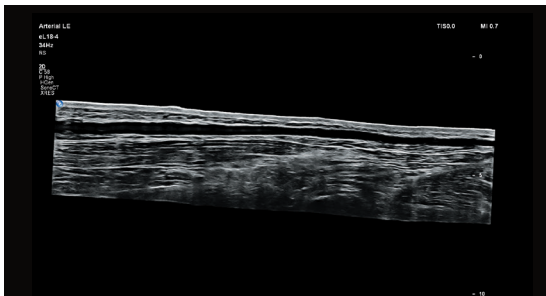
Enhances needle visualization for interventional procedures.



Needle visualization using the eL18-4 transducer

## Panoramic view

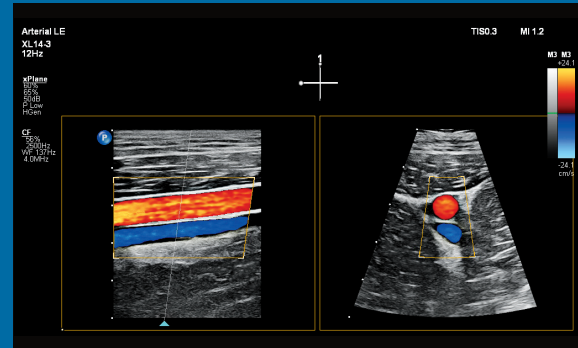
Provides the entire landscape in a single view for a global representation of MSK anatomical structures.



Arterial imaging with the eL18-4 transducer with panoramic view

## xPlane imaging

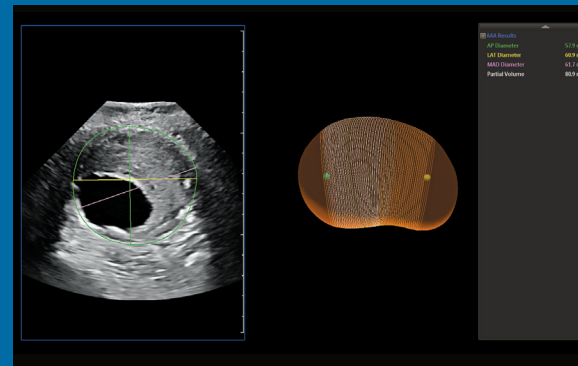
**93% of users** feel that xPlane Doppler could reduce sample volume placement errors and provide greater reproducibility and consistency.\*



Vascular imaging with the XL14-3 transducer

## Abdominal Aortic Aneurysm (AAA) Model

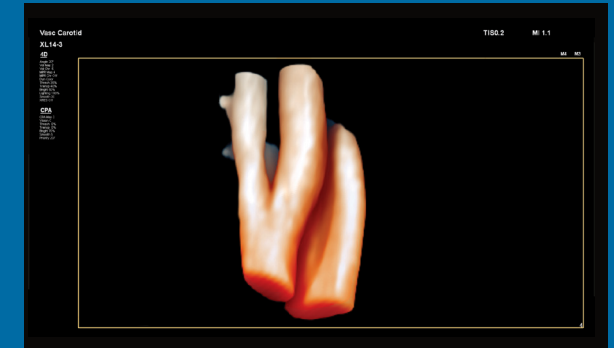
Segments and quantifies 3D ultrasound data for surveillance of native and post-EVAR AAAs with interoperator reproducibility superior<sup>1</sup> to that of 2D ultrasound.\*\*



Abdominal Aortic Aneurysm

## Vessel cast 3D imaging

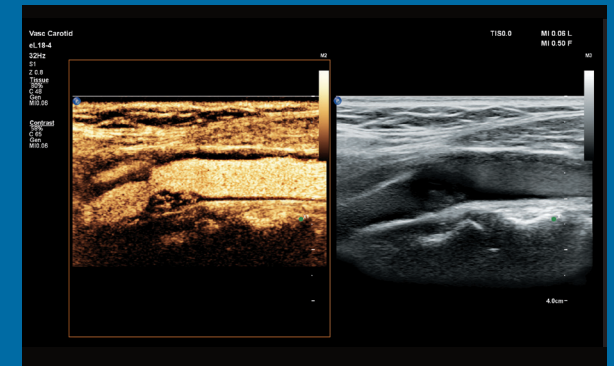
**78% of users\*** believe visualizing vessel cast using 3D/4D flow data will assist in **providing direct assessment of stenotic or torturous conditions**.\*\*



Carotid imaging with the XL14-3 transducer

## Contrast-enhanced Ultrasound (CEUS)

Easily add CEUS to nearly any exam, with immediate optimization of CEUS studies and exceptional performance across multiple agents and applications.



Carotid contrast with the eL18-4 transducer

\* External user study on EPIQ Elite based on 27 respondents. Study report available upon request.

\*\* Not available with the Affiniti ultrasound system.

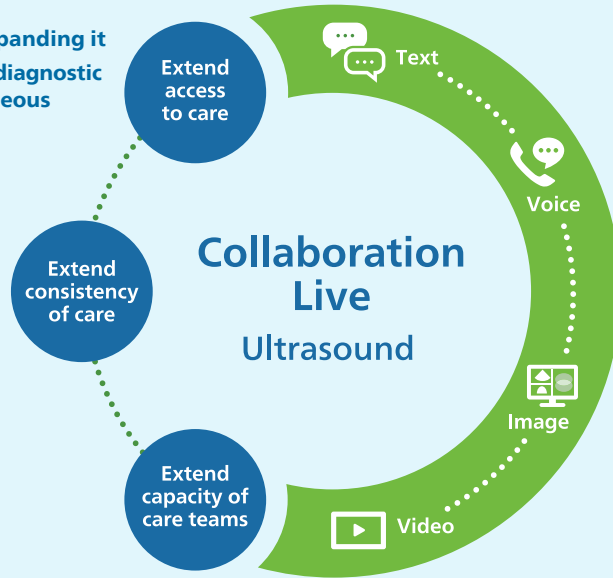


# Trusted partner

## 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.\*\*



### Flexible financing

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



### Comprehensive clinical education

To improve operational efficiency and support patient care.



### Defense-in-depth security

Philips ultrasound is developed for security as well as clinical capability.<sup>6</sup>



### A world leader in sustainability

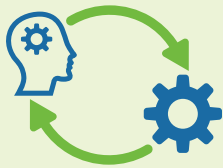
Philips is committed to lifecycle circularity for its systems.<sup>‡</sup>



### Award-winning service

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

\* EPIQ and Affiniti ultrasound systems 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.



## Intuitive experience

### HD MAX display\*

**40%** brighter  
than OLED display technology\*\*  
**+ 38%** more viewing area  
with MaxVue full-screen imaging†

### Tablet-like interface

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



### Superb ergonomics

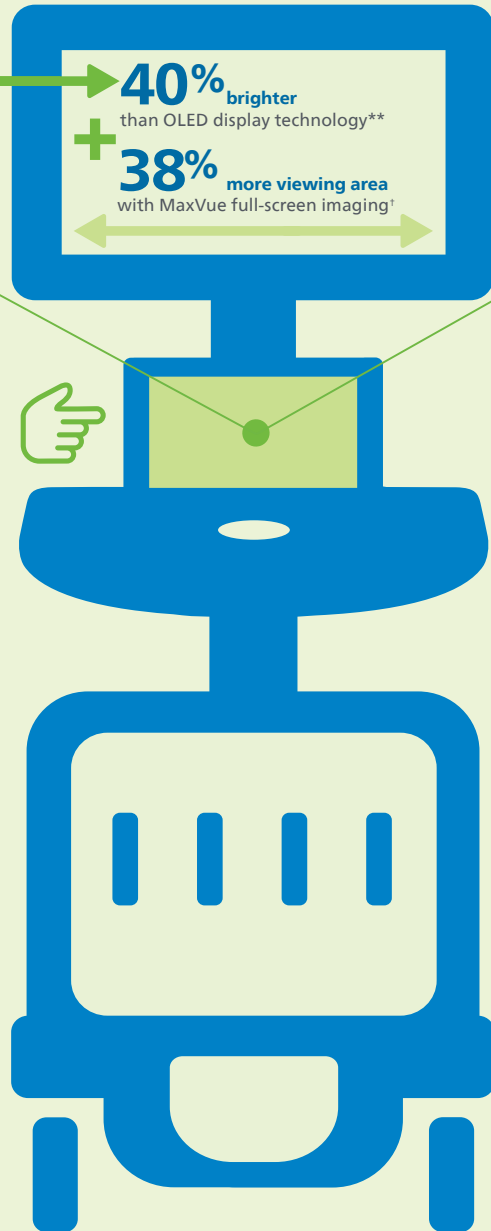
More than 80% of sonographers experience work-related pain, and more than 20% of them suffer a career-ending injury.‡

**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, and with Image Reorder, you can select and move images within thumbnail views.



### Image duplication screen

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

### 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.**¶

### Post-processing controls

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



### Battery backup

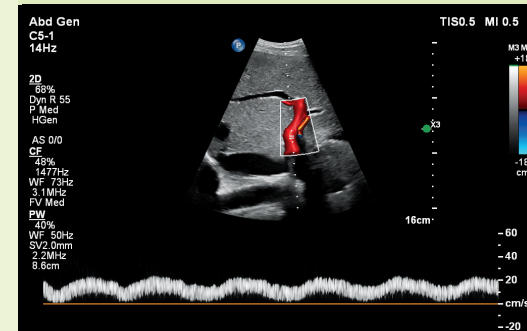
**Enables near-instantaneous boot-up** through a battery life of 45 minutes. One of the greenest systems we've ever designed, EPIQ consumes **25% less power** than our legacy premium ultrasound system.§§

Uses **25%** less power



Reduces number of button pushes by

**68%**<sup>5</sup>



Abdominal imaging with the C5-1 transducer

### 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%**.<sup>5</sup>

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



1. NIH National Heart, Lung, and Blood Institute Research Feature. Cardiovascular disease is on the rise, but we know how to curb it. We've done it before. February 3, 2021.  
[www.nhlbi.nih.gov/news/2021/cardiovascular-disease-rise-we-know-how-curb-it-weve-done-it](http://www.nhlbi.nih.gov/news/2021/cardiovascular-disease-rise-we-know-how-curb-it-weve-done-it).
2. RadiologyInfo.Org: [www.radiologyinfo.org/en/info/genus](http://www.radiologyinfo.org/en/info/genus).
3. 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. 2014;203(6):W715-W723. doi:10.2214/AJR.13.12061.
4. Society of Diagnostic Medical Sonography, Industry Standards for the Prevention of Musculoskeletal Disorders in Sonography, May 2003.
5. Philips Auto Doppler Clinical Study, Dec 2011.
6. Philips EPIQ and Affiniti Security white paper, document number 452299180531, April 2023.

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