



PHILIPS

Ultrasound

Philips EPIQ Elite and Affiniti

Redefining performance in MSK ultrasound

Musculoskeletal (MSK) disorders are the leading contributor to disability worldwide, and are projected to continue to increase, due in part to an aging population.¹ Worldwide obesity has nearly tripled since 1975,² and obesity is linked to a range of MSK conditions.³

Ultrasound is widely available, easy to use, more cost-effective than other imaging methods such as MR, and can give a clear picture of soft tissues that do not show up well on X-ray images.⁴

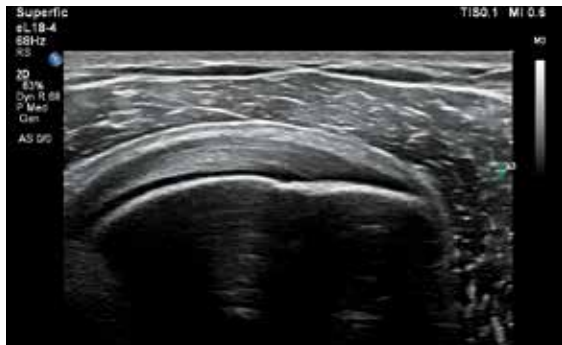


Confident imaging

nSight Plus Imaging Architecture,* a more powerful beamforming technology providing next-generation imaging performance.**

eL18-4 transducer

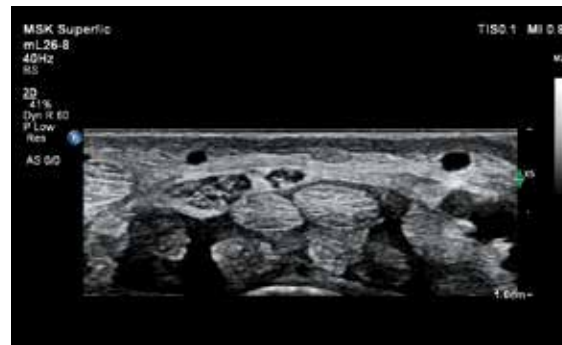
Supports a wide range of MSK anatomies, with PureWave crystal transducer technology for outstanding image quality, even in technically difficult patients (TDP).⁵



Shoulder with the eL18-4 transducer

mL26-8 transducer

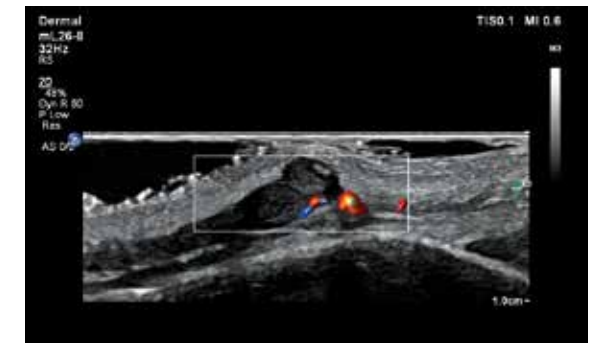
Offers 36% improved spatial resolution and 64% improved penetration[†] in superficial applications.[‡]



Wrist with the mL26-8 transducer

Flow Viewer

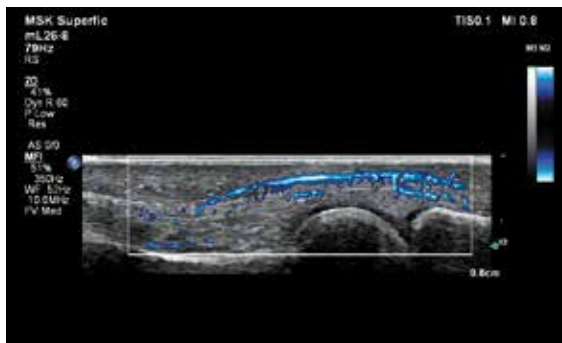
Defines vasculature with a 3D-like appearance using both the velocity and power of the Doppler signal to accurately represent vascular flow topography.



Dermal imaging with the mL26-8 transducer with Flow Viewer

MicroFlow Imaging (MFI)

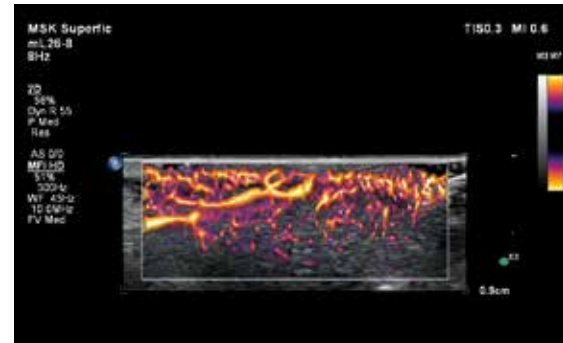
Provides remarkable sensitivity and detail in assessing blood flow.[§]



Finger with the mL26-8 transducer with MFI

MicroFlow Imaging HD (MFI HD)

Offers 2x the sensitivity and resolution[§] of MFI in assessing blood flow.[‡]



MFI HD with the mL26-8 transducer

Panoramic view

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



Panoramic view of the patellar tendon using the eL18-4 transducer

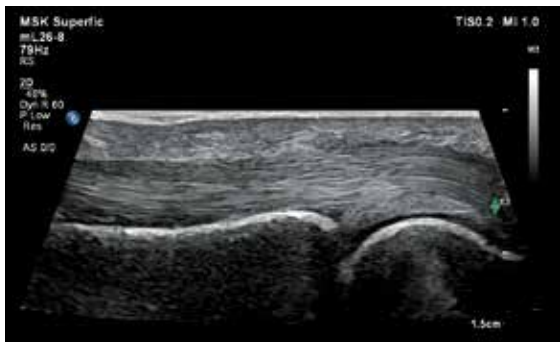
* Not available on all transducers. ** Compared to release 7.0. † Compared to the predecessor transducer L15-7io. ‡ Not available with the Affiniti ultrasound system. § Internal measured comparison on standards MFI to MFI HD using clinical targets and standard measurement methodology.



Advanced insights

Trapezoid imaging

75% larger field of view[†] than previous generation.‡



Trapezoid image of the finger with the mL26-8 transducer

Needle visualization

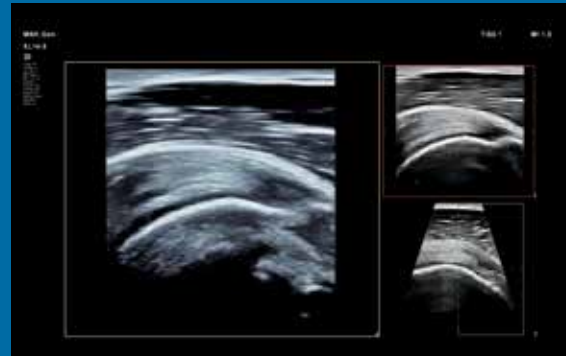
Enhances needle visualization for interventional procedures.



Needle visualization using the eL18-4 transducer

3D/4D imaging

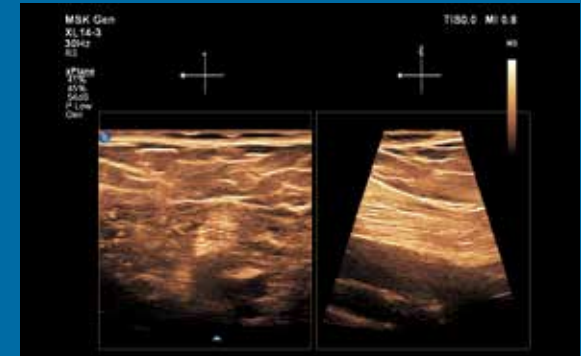
Visualize real-time 3D/4D with breakthrough imaging and workflow.



3D/4D imaging with the XL14-3 transducer

xMatrix transducer electronic multi-dimensional focus

Acquire simultaneous real-time images in both the longitudinal and transverse planes.



Multi-dimensional focus imaging with the XL14-3 transducer

Live Compare

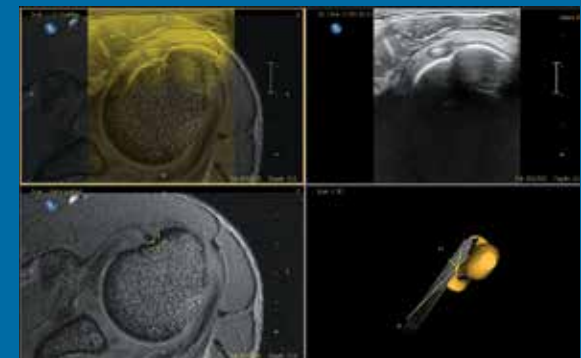
Easily compare images from other imaging modalities for simultaneous viewing alongside real-time ultrasound images.



Live Compare with the eL18-4 transducer

Fusion and Navigation

Fusion imaging combines multi-modality imaging to help a physician's confidence in complex interventional procedures and Auto Registration in less than one minute.*



Multimodality imaging for confident interventional procedures

‡ Not available with the Affiniti ultrasound system.

† Compared to the predecessor transducer L15-7i0 for all depths greater than 1.6 cm.

* Auto Registration Timing Study Report, 2015.

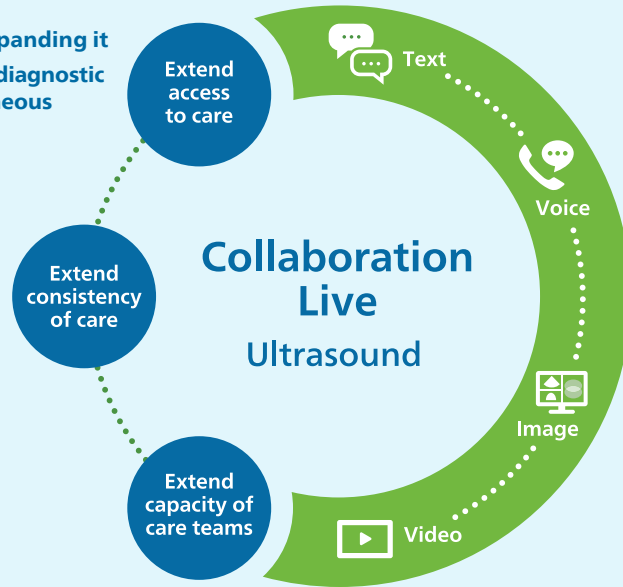


Trusted partner

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.



Defense-in-depth security

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



Award-winning service

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



Comprehensive clinical education

To improve operational efficiency and support patient care.



A world leader in sustainability

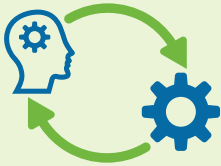
Philips is committed to lifecycle circularity for its systems.[‡]

* EPIQ and Affiniti ultrasound systems release 10.0.

** Contract required. Collaboration Live is intended for remote diagnostic use on release 9.0 or higher.

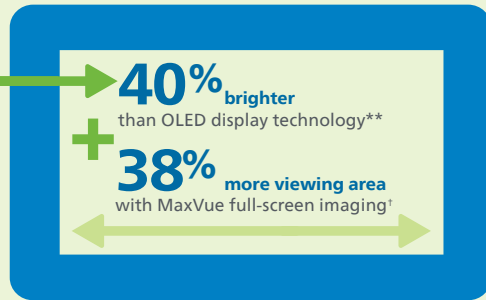
† Philips is rated number one in overall service performance for ultrasound for 28 consecutive years in the annual IMV ServiceTrak survey in the USA.

‡ 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

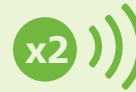
More than 80% of sonographers experience work-related pain, and more than 20% of them suffer a career-ending injury.⁶

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.



Two-transducer solution*

Performs MSK and small parts exams with diagnostic confidence using the eL18-4 and mL26-8 transducers.⁵

Image duplication screen

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



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.⁸



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.⁵⁵



Reduces number of button pushes by

68% ↓

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%**.

* 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.

§ EPIQ ultrasound system release 10.0.

¶ When comparing release 10 performance to release 7 performance.

Based on a sample size of n=37.

⁵⁵ Compared to its predecessor product, iU22.

Uses **25%** less power



1. World Health Organization Fact Sheet. Musculoskeletal conditions, February 8, 2021.
2. World Health Organization Fact Sheet. Obesity and overweight. June 9, 2021.
3. Anandacoomarasamy A, et al. The impact of obesity on the musculoskeletal system. *Int J Obes.* 2008;32:211–222. doi.org/10.1038/sj.ijo.0803715.
4. RadiologyInfo.Org: www.radiologyinfo.org/en/info/genus.
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. 2014;203(6):W715-W723. doi:10.2214/AJR.13.12061.
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. Philips EPIQ and Affiniti Security white paper, document number 452299180531, April 2023.

Find out more at www.philips.com/gi

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