It understands your everyday
Philips Affiniti ultrasound system for vascular
Excellence in vascular performance

With its full range of vascular applications, you’ll find that Philips Affiniti ultrasound quickly becomes an essential part of your day. Affiniti provides excellence in the full range of vascular imaging across patient types, including the technically difficult patient.

Designed to set you ahead and help you stay ahead, Affiniti addresses the everyday need to scan quickly and deliver results efficiently, while delivering innovations that respond to the needs of a busy vascular ultrasound department.

Panoramic imaging of a superficial vein

Carotid bulb stenosis

Ulnar artery stenosis
Workflow meets wow

Affiniti delivers exceptional image quality quickly, with little or no additional image optimization required. It has all the capabilities needed for day-to-day vascular scanning, plus advanced features and automation to enhance exam efficiency and simplify workflow.

Automation tools save time
Affiniti reduces repetitive button pushes and steps so you can focus on what really matters.

Real-time iSCAN (AutoSCAN)
Automatically and continuously optimizes gain and TGC to provide excellent images in 2D, 3D, and 4D modes.

Auto Doppler for vascular imaging
Auto Doppler features automated color region of interest positioning and sample volume placement. Takes ten steps from a conventional exam to three steps, providing few button pushes and reduced exam time.

SmartExam protocols
System-guided SmartExam protocols facilitate exams with an onscreen menu guiding you through required views and modes while automatically entering annotations and prompting for measurements. SmartExam protocols help you build a report quickly, alert to missed views and reduce overall keystrokes and exam time.
A full range of transducers supports virtually any vascular application

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<th>Transducer</th>
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<td>Carotid, lower extremity and upper extremity</td>
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<td>C5-1</td>
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**PureWave imaging increases penetration**

PureWave transducers are designed to increase penetration in technically difficult patients so that one transducer can facilitate diagnostic confidence for difficult-to-image patients as well as those who are easy.

**Precision beamforming**

The power of PureWave is strengthened by the precision beamforming of Affiniti, which features a wide dynamic range to deliver superb spatial and contrast resolution, outstanding tissue uniformity, fewer artifacts, and reduced image clutter.

**Tissue Specific Presets**

Tissue Specific Presets (TSP) automatically adjust over 7,500 parameters to optimize the transducer for the specific exam type, producing excellent image quality with little or no need for image adjustment.
Elevated vascular imaging with the L12-3ERGO transducer

- Ergonomic and lightweight
- Superb vascular imaging for carotid and upper and lower arterial and venous exams
- Supports advanced MicroFlow Imaging for vascular applications
- XRES Pro next-generation image processing for enhanced border definition and exceptional plaque conspicuity
Enhance confidence

Affiniti’s outstanding vascular performance combines with advanced clinical functionality, including CEUS, TCD fusion, and Anatomical Intelligence Ultrasound (AIUS).

MicroFlow Imaging

**Remarkable sensitivity and detail in assessing blood flow**
MicroFlow Imaging is a proprietary mode designed to detect slow and weak blood flow anatomy in tissue. MicroFlow Imaging overcomes many of the barriers associated with conventional methods to detect small vessel blood flow with high resolution and minimal artifacts. MicroFlow Imaging maintains high frame rate and 2D image quality while applying advanced artifact reduction techniques. New 2D image subtraction, 2D blending, and side/side display options offer excellent versatility in visualization. MicroFlow Imaging is available on these transducers: eL18-4, L12-3 and L12-3ERGO.

Precision interventional guidance capabilities

**Heighten confidence in interventional procedures**
Biopsy procedures, for many practices, are a routine part of an ultrasound examination. Using precision-guided biopsy techniques provides confidence in obtaining tissue targets to reduce multiple needle passes. Support for the CIVCO Verza™ Guidance System provides an advanced biopsy guidance system with virtually no dead zone. CIVCO Verza brackets are available on these transducers: C5-1, C9-2, L12-3, L12-5, L18-5, and eL18-4. The eL18-4 will support new needle visualization capability to enhance the display of needle reflections for enhanced confidence during interventional procedures.
Contrast-enhanced ultrasound (CEUS)
CEUS provides for immediate optimization of contrast-enhanced studies and exceptional performance across multiple agents and applications.

Quantify image information
Q-Apps quantify ultrasound image information to help you turn images into answers.

Vascular Q-Apps
- Intima Media Thickness (IMT)
- Region of Interest (ROI)
- MicroVascular Imaging (MVI)
- Vascular Plaque Quantification (VPQ)

Cardiology Q-Apps
- Intima Media Thickness (IMT)
- Region of Interest (ROI)
- Strain Quantification (SQ)
- Automated 2D Cardiac Quantification A.I. (a2DQA.I.)
- Automated Cardiac Motion Quantification A.I. (aCMQA.I.)

Transcranial image fusion
Transcranial image fusion supports more confident answers in applications such as stroke therapy while reducing dependence on repeat CT or MR scans in routine follow-up cases.
Performance you can see
Posterior tibial vasculature

Calf vein color flow

Celiac axis arterial flow

Arterial stent stenosis

CCA intimal-media thickening

Renal parenchyma

Posterior tibial vasculature
Affiniti is a comprehensive echocardiography solution that addresses the needs of a busy department or office while incorporating those innovations that make Philips ultrasound the global leader in echocardiography.

Cardiology capabilities

A comprehensive cardiovascular solution
- Adult echocardiography including Live 3D TEE
- Pediatric echocardiography including MicroTEE
- Stress echocardiography
- Left Ventricular Opacification (LVO)
- Vascular imaging
- Quantification tools
Stress echo

Bicuspid aortic valve

Mechanical mitral valve

aCMQ\textsuperscript{\textregistered} provides both EF and GLS from the same 2D images
Designed around your everyday workflow, Affiniti offers walk-up usability, ergonomics, and mobility.

Philips leverages the experiences of its customers to design Affiniti to address the challenges of daily scanning. We understand the reality of tight spaces, high patient volume, technically difficult patients and time constraints, and we’ve designed the system with thoughtful details to help lighten your workload.

You won’t notice it’s there unless it’s gone, but users have reported that easy clip, our innovative cable management solution, keeps cables tangle-free and reduces damage while decreasing cable strain to enhance comfort while scanning.

MaxVue high-definition display

With a touch of a button, MaxVue brings full high-definition display quality to ultrasound imaging. Now you can experience extraordinary visualization of anatomy with 1,179,648 more image pixels when compared to the standard 4:3 display format mode. MaxVue enhances ultrasound viewing during interventional procedures and provides 38% more viewing area to optimize the display of dual, side/side, biplane, and scrolling imaging modes.

<table>
<thead>
<tr>
<th></th>
<th>Standard format 4:3</th>
<th>MaxVue Full high-definition format 16:9</th>
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<tbody>
<tr>
<td>Over one million</td>
<td>1024 X 768 pixels</td>
<td>1920 X 1080 pixels</td>
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<tr>
<td>more pixels per image</td>
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<td>38% larger</td>
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<td>viewing area</td>
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Walk-up usability
The intuitive, intelligently designed user interface and system architecture have been validated by studies that show that users with ultrasound experience require minimal training on system use to be able to complete an exam.¹

Reduced reach and button pushes
To enhance exam efficiency, Affiniti places relevant, easy-to-learn controls right at your fingertips, streamlining workflow. Because 80% of ultrasound clinicians experience work-related pain, and more than 20% suffer a career-ending injury,² we’ve designed our intuitive, tablet-like touchscreen interface to reduce reach and button pushes.

Scanning comfort
Affiniti is designed to make a full day of scanning comfortable. The control panel with 180° of movement and generously sized 54.6 cm (21.5 in) articulating monitor enhances scanning comfort whether standing or sitting. The touchscreen is one of the largest in its class, so you can easily make selections and control scanning while focusing on your patients.

Ready when you need it
At just 83.5 kg (184 lb), Affiniti is one of the lightest in its class and is 16% lighter than its predecessor.* With its small footprint and fold-down monitor, pushing the system down hallways and in tight spaces is easy. When an exam is finished, a full suite of DICOM and PC format capabilities makes information-sharing simple. Structured reporting facilitates patient workflow by giving you the ability to transfer measurements, images, and reports over network share, and wireless capability plus easy connection to printers helps you document exams.

Analysis, reporting, connectivity, and post-processing capabilities
Measurements and calculations packages elevate clinical throughput and efficiency, while advanced connectivity tools enable efficient data transfer to wherever it is needed. Customizable report templates provide consistent layouts and enhance report readability. Active native data allows post-processing of many exam parameters so that you can finalize images before transfer to PACS.

* HD15
A smart investment

Built to withstand the rigors of daily use, Affiniti offers low operating costs and is backed by Philips support and value-added services. The Affiniti system boasts a low total cost of ownership, making it a smart investment.

Enhance uptime
- Modular design for enhanced reliability and rapid repair
- Philips remote services* monitoring, which corrects issues using a standard Internet connection, reducing the need for service calls
- Access to our award-winning service organization

Responsive relationships
The value of a Philips ultrasound system extends far beyond technology. With every Affiniti system, you get access to our award-winning service organization, our competitive financing, and educational programs that help you get the most out of your system.

Affiniti offers a defense-in-depth strategy, implementing a suite of security features designed to help clinical IT professionals and healthcare facilities provide additional patient data privacy and virus protection, as well as protection from unauthorized access via the ultrasound systems on hospital networks.

Affiniti consumes nearly

40% less energy
than its predecessor.**
It consumes less energy than a toaster, and may help you save on energy and cooling costs.

Exceptional serviceability
The system features a superb modular design for rapid repair.

Support request button for immediate access to Philips support.

* Not all services available in all geographies; contact your Philips representative for more information. May require service contract.
** HD15
Count on us as your patients count on you

The value of a Philips ultrasound system extends far beyond technology. With every Affiniti system, you get access to our award-winning service organization,* competitive financing, and educational tools that help you get the most out of your system.**

Always there, always on
We work as one with your team to keep your Affiniti system running smoothly.

Remote service capabilities maximize efficiency
Easy, rapid technical and clinical support through remote desktop enables a virtual visit with a Philips expert.

Remote software distribution boosts performance over the entire system lifecycle
Remote software distribution provides a simple, convenient, and safe process to seamlessly receive updates at a time the suits you keeping your system at peak performance now and in the future.

Proactive monitoring solutions maximize uptime
Philips proactive monitoring increases system availability by predicting potential system disruptions and proactively acting on them, letting you focus on what is most important – your patients.

Immediate support request at your fingertips
The support request button allows you to enter a request directly from the control panel, for a fast and convenient communication mechanism with Philips experts without leaving your patient, minimizing workflow interruption.

On-cart transducer test provides confidence in your transducer quality
On-cart transducer test provides a non-phantom method to test Affiniti transducers at any time, giving you confidence in your diagnostic information.

Sharing risk, increasing the return on your investment
Partner with us to maximize utilization and uptime of your Affiniti system.

Utilization reports for confident decision-making
Data intelligence tools can help you make informed decisions to improve workflow, deliver quality patient care, and decrease the total cost of ownership. The on-board utilization tool provides individual transducer usage data and the ability to sort by exam type.

Understanding your needs, designed for you
Our flexible RightFit service agreements, education offerings, and innovative financing solutions can be adapted to meet your needs and strategic priorities.

- Technology Maximizer Program: helps keep your system performing at its peak by continuously providing the latest software from Philips at a fraction of the cost of the same upgrades purchased individually over time.
- Xtend Coverage: lets you choose additional service coverage for your ultrasound equipment at the time of purchase to more easily calculate your total cost of ownership.
- Clinical education solutions: comprehensive, clinically relevant courses, programs, and learning paths designed to help you improve operational efficiency and enhance patient care.

ISSL technology
This industry-standard protocol meets global privacy standards and provides a safe and secure connection to the Philips remote services network using your existing Internet access point.

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This industry-standard protocol meets global privacy standards and provides a safe and secure connection to the Philips remote services network using your existing Internet access point.

* Philips is rated number one in overall service performance for ultrasound for 26 consecutive years in the annual IMV ServiceTrak survey in the USA.
** Optional. Not all services available in all geographies; contact your Philips representative for more information. May require service contract.
1. 2014 internal workflow study comparing Affiniti to HD15