It understands your everyday

Philips Affiniti 50 ultrasound system
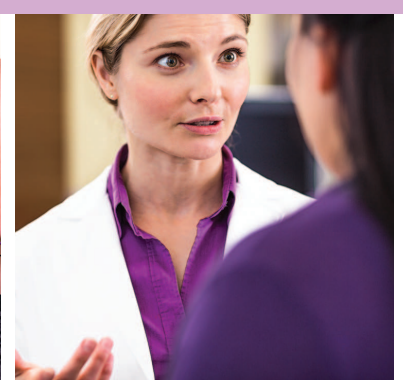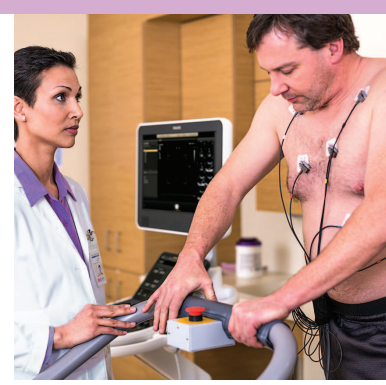
PHILIPS

Designed to set you ahead and help you stay ahead, Philips Affiniti 50 ultrasound system delivers innovation that responds to the needs of a busy ultrasound practice.

Designed for balance

You always go above and beyond to provide the best care to your patients. But you are expected to do so with less time, fewer resources, and higher patient volume.

To balance these many demands, you need diagnostic information quickly – but not at the expense of accuracy. You need advanced functionality – but not at the expense of ease of use. You need a system that is ergonomic –but built to last for the daily rigors of high patient volume.

Philips Affiniti 50 ultrasound system helps you achieve this balance. Engineered for efficiency and reliability and powered by Philips superb performance, it gets you the diagnostic images you need, quickly. Its intuitive design and walk-up usability help you provide elegant, efficient care – every day.

The Affiniti 50 was designed to work hard, without high costs. Total cost of ownership is kept low through energy-efficient technology, extensive reliability testing, and a modular design that enhances uptime and rapid repair.

Affiniti 50's precision beamforming, Tissue Specific Presets (TSP), and efficiency and automation tools deliver both performance and workflow for confident throughput.
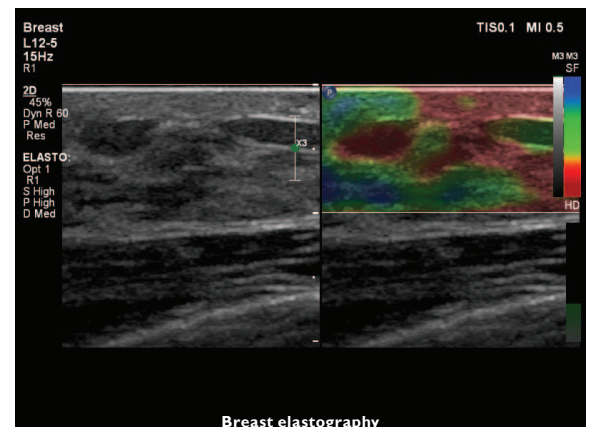
Workflow meets wow

With Philips Affiniti 50, workflow meets wow. The system addresses the everyday need to scan quickly and deliver results efficiently, while incorporating those innovations that make Philips ultrasound the choice of those who demand quality images and proven clinical applications.

Affiniti 50 precision beamforming features a wide dynamic range to deliver superb spatial and contrast resolution, outstanding tissue uniformity, fewer artifacts, and reduced image clutter.

TSPs automatically adjust over 7500 parameters to optimize the transducer for the specific exam type, producing excellent image quality with little or no need for image adjustment.

This outstanding image quality combines with advanced clinical functionality, including elastography, contrast-enhanced ultrasound (CEUS), and Anatomical Intelligence Ultrasound (AIUS).

Breast elastography

OB Gen
V6-2
4D
Angle 95°
Vol Map 3
Vol Chr 4
MPR Map 2
MPR Chr Off
Surface 2
Thresh 10%
Transp 40%
Bright 40%
Lighting 30%
Smooth 50
XRES On

Fetal face

Exceptional 3D surface rendering performance provides information to diagnose anomalies.

A full array of transducers offers you excellent image quality on a variety of exam types

More definitive clinical information about tissue stiffness

Affiniti 50 supports highly sensitive strain elastography, which requires no external compression and can be used to assess relative tissue stiffness across a variety of applications, including small parts, breast, and gynecology.

Dynamic organ and tumor assessment in real time

With Affiniti 50, you can easily add contrast-enhanced ultrasound (CEUS) to nearly any exam. Affiniti 50 provides exceptional CEUS performance across multiple applications, which allows for dynamic assessment of organ and tumor perfusion in real time.

Automation that leads to everyday efficiency

Affiniti 50 incorporates Philips-exclusive Anatomical Intelligence Ultrasound. It provides advanced functionality, including global longitudinal strain (GLS) and validated 2D ejection fraction (EF) in 10 seconds. Philips Fetal Heart Navigator simplifies fetal heart exams to facilitate user confidence in early anomaly detection, so your youngest patients can get the early intervention they need.

Automation tools save time

Philips Affiniti 50 system is equipped with automation features that reduce repetitive button pushes and steps, leading to enhanced workflow.

- **Real Time iSCAN (AutoSCAN)** Automatically and continuously optimizes gain and TGC
- **Auto Doppler for vascular imaging** Color-box positioning and sample volume placement in just three steps, with an average of 67.9% fewer button pushes
- **SmartExam guided workflow** Increases consistency, reduces keystrokes, and decreases exam time by 30%-50% by automatically planning and processing application protocols

Q-App quantification applications

Affiniti 50 offers a wide variety of sophisticated Q-Apps to quantify ultrasound image information.

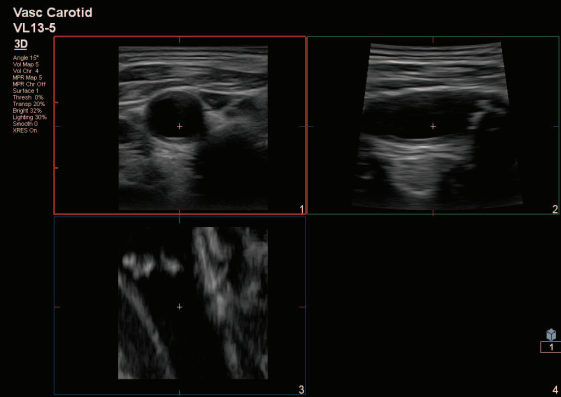| General Imaging Q-Apps	Cardiology Q-Apps
• Intima Media Thickness (IMT) • General Imaging 3D Quantification (GI 3DQ) • Region of Interest (ROI) • MicroVascular Imaging (MVI) • Fetal Heart Navigator (FHN) • Vascular Plaque Quantification (VPQ)	• Intima Media Thickness (IMT) • Region of Interest (ROI) • Strain Quantification (SQ) • Automated 2D Cardiac Quantification[A.I.] (a2DQ[A.I.]) • Automated Cardiac Motion Quantification[A.I.] (aCMQ[A.I.])

Performance you

Small posterior liver hemangioma

Thyroid nodule

Volume imaging of fetal spine

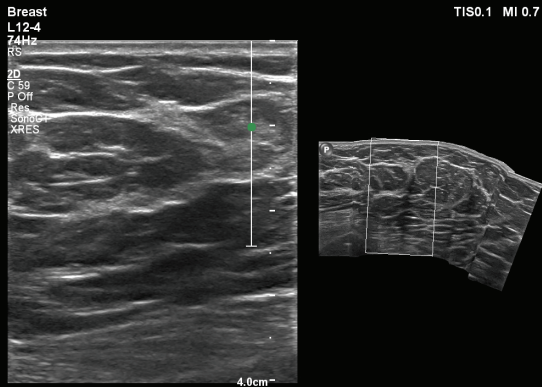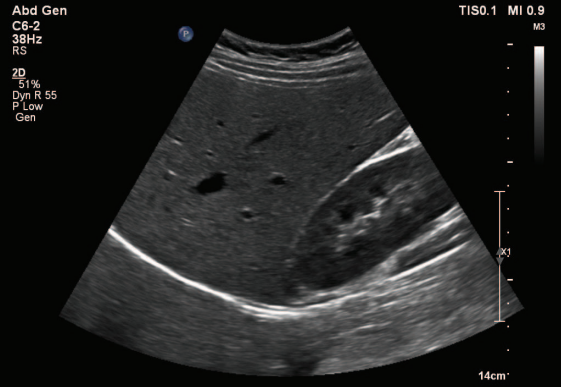Biceps tendon

Fetal face

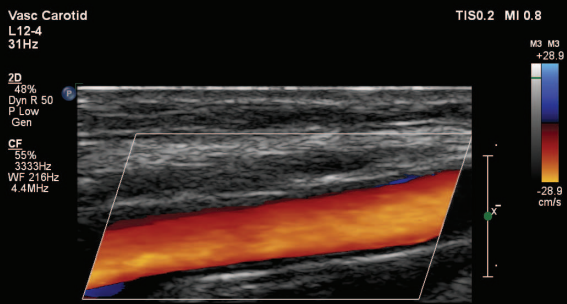Apical 4 chamber

can see

Kidney/liver interface
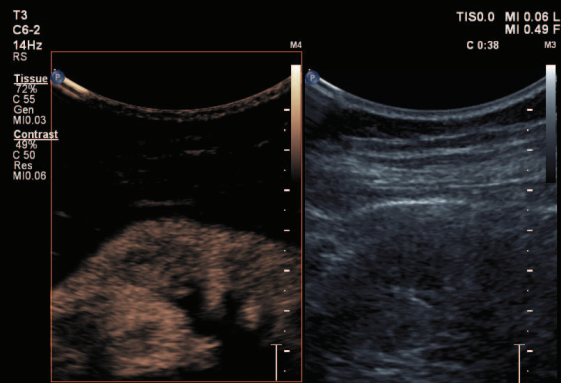
Carotid volume multiplanar reconstruction

Panoramic breast imaging

Liver

Common carotid artery

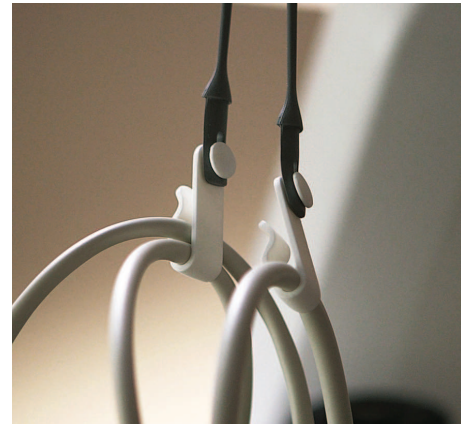**Contrast ultrasound of the kidney**

Designed around your everyday workflow, Affiniti 50 offers walk-up usability, ergonomics, and mobility.
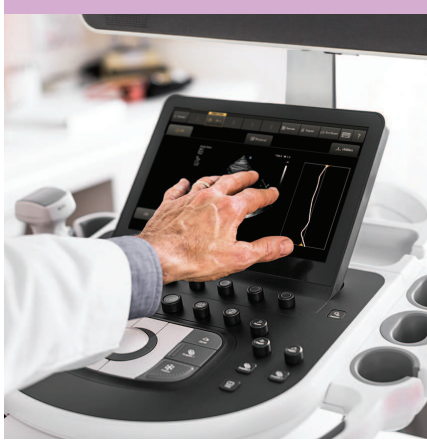
Comfort meets competence

Philips leverages the experiences of its customers to design the Affiniti 50 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. With Philips Affiniti 50, comfort meets competence in a system that is easy to learn and use.

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.

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- and damage-free while decreasing cable strain for improved comfort while scanning.

With image replication and TGCs on its tablet touchscreen, Affiniti 50 was designed to reduce reach and button pushes.

Affiniti 50's friendly design and library-quiet operation enhances patient comfort.
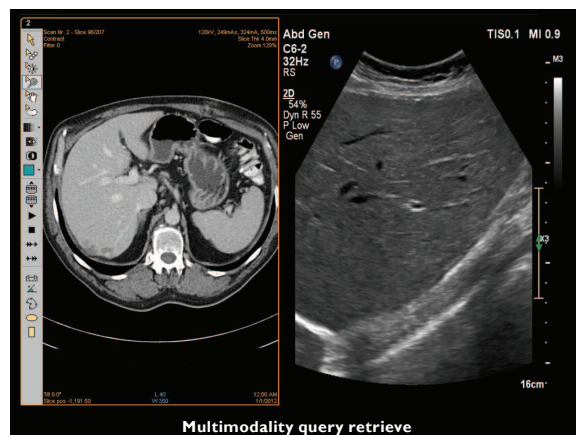
Reduced reach and button pushes

To enhance exam efficiency, Affiniti 50 places relevant, easy-to-learn controls right at your fingertips, streamlining workflow. Affiniti 50 is designed to make a full day of scanning comfortable. Because 80% of ultrasound clinicians experience work-related pain, and more than 20% suffer a career-ending injury,[1] we've designed our intuitive, tablet-like touchscreen interface to reduce reach and button pushes.

The touchscreen is one of the largest in its class, so users can easily make selections and control scanning while focusing on their patients.

The control panel and generously sized 54.6 cm (21.5") monitor add to the system's ergonomics, enhancing scanning comfort whether standing or sitting. At just 83.5 kg (184 lb), Affiniti 50 is one of the lightest in its class and is 16% lighter than its predecessor. With a small footprint, the system can be easily moved, and fits into small spaces.

Ready when you need it

To reduce the time required for mobile scans, the system can be put to sleep in two seconds, and then moved to a new location, where it starts up in just seconds. When an exam is finished, a full suite of DICOM capabilities make it easy to share information. Structured reporting facilitates patient workflow and information 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.

Multimodality query retrieve

With multimodality query retrieve, you can review DICOM CT, NM, MR, mammography, and ultrasound images without using an external reading station.

1. Society of Diagnostic Medical Sonography, Industry Standards for the Prevention of Musculoskeletal Disorders in Sonography, May 2003.

Built to withstand the rigors of daily use, Affiniti 50 offers low operating costs and is backed by Philips support and value-added services.
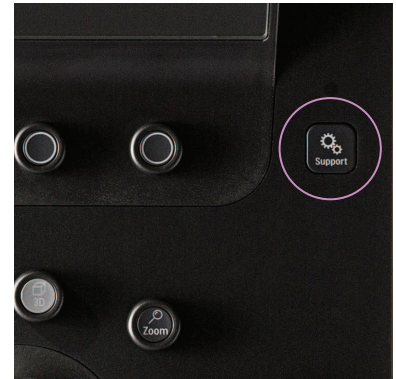
A smart investment

The Affiniti 50 boasts a low total cost of ownership, making it a smart investment. To enhance uptime, it features:

- A 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 50 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.
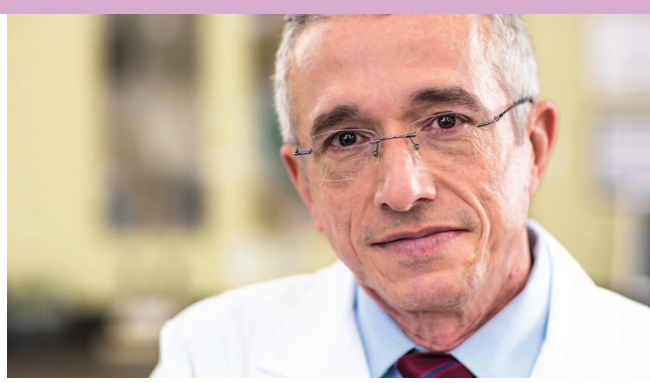

Service Request button for immediate access to Philips support.

Exceptional serviceability

The system features a superb modular design for rapid repair.

*Not all services available in all geographies; contact your Philips representative for more information. May require service contract.

Smart service options* help reduce disruption to your everyday workflow. We also offer technology to keep your data secure, and education and utilization reports that help you get the most out of your system.

Remote desktop
Spend less time on the phone with a Philips "Virtual Visit" with remote system* interaction for fast technical and clinical troubleshooting and guided scanning options.

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.

Online support request
Enter a support request directly from your Affiniti 50 system for a fast, convenient communication mechanism that reduces workflow interruption and keeps you at the system and focused on your patient.

Utilization reports
Data intelligence tools can help you make informed decisions to improve workflow, deliver quality patient care, and decrease the total cost of ownership. This is the only ultrasound utilization tool that provides individual transducer usage and the ability to sort by exam type.

Proactive monitoring
Proactive monitoring allows for the detection and repair of anomalies before they become problems and helps us to better predict potential failures and proactively act on them. Increase system availability, optimize workflow, and promote patient satisfaction by scheduling downtime as opposed to reacting to an unexpected problem.

Intelligent software architecture
Software is easily optimized, maintained, and restored by the service user without risk to patient data, giving you peace of mind and confidence that your data is secure. Patient data is stored on a separate partition and physical location to provide protection and ease of removal, providing you total control of your data.

Clinical education solutions
Our comprehensive, clinically relevant courses, programs, and learning paths are designed to help you improve operational efficiency and enhance patient care.

asimpleswitch

Affiniti 50 consumes nearly 60% less power than its predecessor.[†]

It consumes less energy than a toaster, which can help you save on energy and cooling costs.

*Not all services available in all geographies; contact your Philips representative for more information. May require service contract.
[†]HD15

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