Changing your idea of clinical performance

Philips HD15 PureWave ultrasound system

PHILIPS

sense **and** simplicity
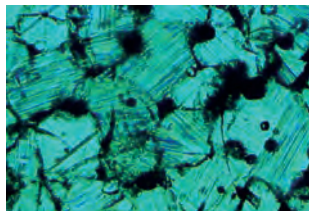
Introducing the Philips HD15 with PureWave

The Philips HD15 ultrasound system incorporates superb imaging and performance capabilities. Loaded with a host of must-have usability features and spectacular image quality, the HD15 gives you the performance and efficiencies you need for more of your everyday exams and the diagnostic confidence for the most demanding clinical challenges, all in one system. And now with PureWave imaging, you can achieve extraordinary clinical performance on your technically difficult OB, abdominal and cardiovascular patients.

The HD15 PureWave gives you the clinical performance you need to efficiently address a large daily patient load with the ability to access powerful diagnostic capabilities and perform difficult in-depth clinical evaluations with ease and confidence.
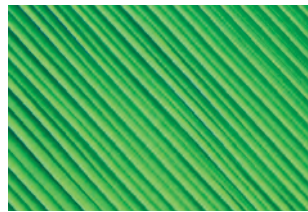
PureWave crystal technology

Philips exclusive PureWave crystal technology is clinically proven to improve penetration in difficult-to-image patients. PureWave crystals are the result of a manufacturing technique that creates a near-perfect atomic level arrangement. The uniformity and lack of grain boundaries help transfer energy with up to 85% greater precision and efficiency over conventional materials. Their extended bandwidth covers the frequency range of two transducers, with improved Doppler performance and highly sensitive harmonic imaging.
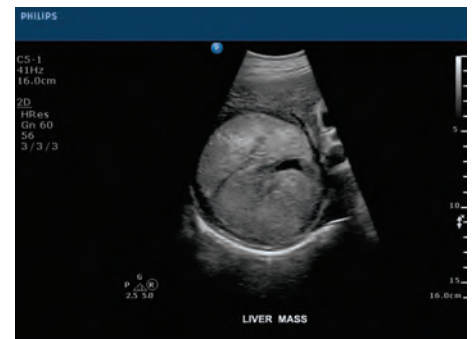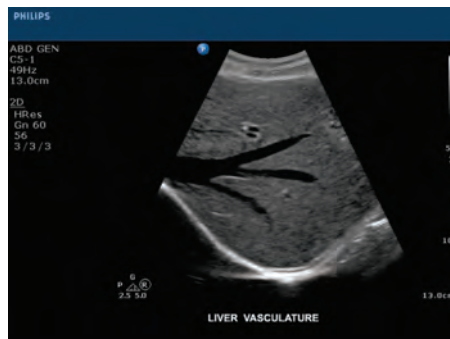

Conventional

PureWave

As you can see (800X magnification), PureWave crystals have virtually perfect uniformity for greater bandwidth and twice the efficiency of conventional ceramic materials. The result is excellent imaging and Doppler performance.

The C5-1 PureWave transducer reduces clutter so clinicians can view excellent detail, even on difficult to image abdominal and OB patients.

UMBILICAL CORD

LIVER VASCULATURE

LIVER MASS

PureWave

The image quality you need and the usability you demand

We created HD15 PureWave to deliver a whole new level of clarity and diagnostic confidence, especially on more technically challenging patients and pathologies. The HD15 is designed for exceptional image quality, with PureWave transducer technology, a revolutionary architecture, Microfine EX focusing, and premium capabilities migrated from our industry-leading systems.

Sophisticated technologies. Simple to use.

For advanced imaging and greater diagnostic confidence, rapid 3D volume renditions and dynamic 4D displays are presented with incredible clarity and detail resolution. This is a result of the HD15's next generation architecture with new high resolution analog-to-digital conversion (A/D) technology and 4X parallel processing, leading to incredible contrast resolution as well as outstanding frame rates and 4D volume rates.

For superb image sharpness and uniformity, Microfine EX focusing provides dynamic receive lens tuning with five times more focal points than previous generation systems.

For images with less noise and fewer artifacts, SonoCT is true real-time compound imaging that merges up to nine lines of sight to create one amazing image with better clarity of curved and irregular borders. To attain extraordinary clarity and edge definition, advanced XRES adaptive image processing uses proprietary algorithms originally developed for Philips MR to display images that are essentially free from noise, without reducing frame rates.

To quickly achieve optimal image quality in 2D, color and Doppler exams, iSCAN image optimization is a one-button push that automatically adjusts multiple parameters in these modes.

Developed to speed your workflow

The HD15 is designed to give you optimum imaging performance with minimum steps – simply choose a Tissue Specific Imaging preset and complete an exam with minimal adjustments. HD15 is engineered for just that kind of leading-edge usability with fast transducer switching during exams, plus one-button iSCAN image optimization that assures you new levels of efficiency and diagnostic confidence. The combination of functional simplicity and heritage of premium technologies make HD15 the one system with the performance to meet more of your needs.

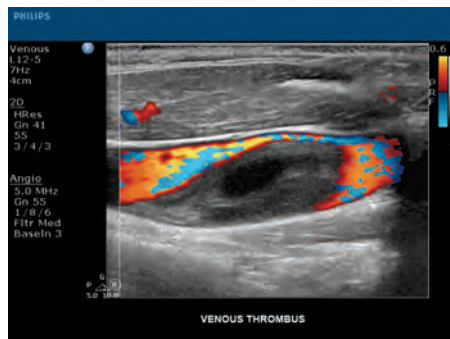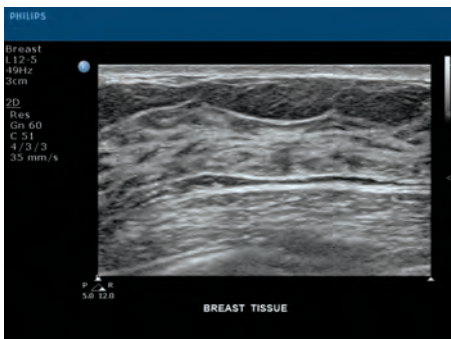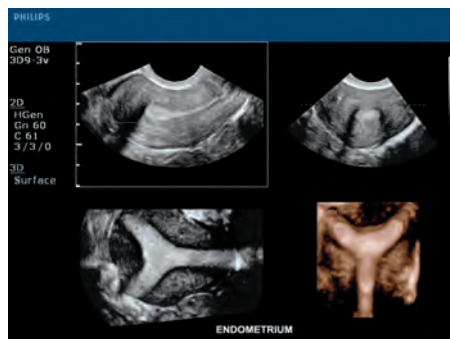**Changing the way you look at ultrasound**

Manipulate exam parameters and image settings as needed, even after the patient has left. With active native data, you no longer have to settle for the images or cineloops you've captured. You can further investigate and manipulate the original image to see new detail.

For new efficiencies in completing follow-up exams. Live Compare allows you to bring up a previous exam and place it beside your active exam so you can immediately see and compare changes in structure and flow.

Reduce exam time by up 50% with SmartExam

SmartExam protocols are easy-to-use customizable guides that help you perform complete studies on every patient. The on-screen menu guides you through the required views for a specific exam type, automatically enters annotation, and builds your report. Save time, reduce repeated moves, and increase efficiency and consistency of exams.

AORTA / INFERIOR VENA CAVA

ENDOMETRIUM

AORTIC INSUFFICIENCY

BREAST TISSUE

VENOUS THROMBUS

FETAL FACE

The HD15 PureWave has the performance and versatility to meet more of your needs.

Versatile clinical performance

The HD15 PureWave delivers outstanding performance in a wide range of exam types and clinical settings. With its suite of intelligent optimization tools and configurable patient reports, the HD15 is as versatile as it is simple. Unlike some other systems that boast ease of use, the HD15 also offers the diagnostic capabilities you need to perform difficult, in-depth clinical exploration. Advantages like these help assure both user simplicity and productivity:

- The HD15 PureWave is highly configurable, for use in a hospital or small office environment.
- Tissue Specific Imaging presets automatically optimize transducers to the exam type for brilliantly clear imaging with little-to-no adjustment.
- On-cart and off-cart access to Philips QLAB software, delivering automated and objective methods for quantifying ultrasound data.

Applications
- Abdominal
- Small parts and superficial
- Breast
- Pediatric
- Musculoskeletal

- Obstetrical and gynecological
- Prostate
- Vascular
- Intraoperative vascular
- Transcranial Doppler
- Cardiac

- Transesophageal
- Stress echo
- Emergency medicine
- Critical care
- Regional anesthesia

Quantification
- General imaging 3D Quantification (GI 3DQ) for opening and viewing 3D data sets and obtaining 2D or volume measurements
- Tissue Motion Quantification (TMQ) for assessing global, regional and cardiac function with speckle tracking technology

- Strain Quantification (SQ) for assessing regional myocardial function from Tissue Doppler Imaging
- Intima Media Thickness (IMT) automated measurements to aid in identifying patients at risk for cardiovascular disease

- Region of Interest (ROI) for consistent and reliable acoustic measurement and analysis

Support that enhances productivity

You can count on the Philips HD15 PureWave ultrasound system not only for peace of mind, but also for a long running return on your investment.

Philips has invested heavily in comprehensive support services to keep your ultrasound systems up and running without getting in your way, so you can deliver uninterrupted quality care. A remote connection with Philips allows for many advanced service features*, including enhanced clinical and technical support allowing for faster resolutions to both workflow questions and technical issues.

Remote services
Remote desktop: Allows Philips service engineers to gain a live view of your system's console. This enables remote operation, real-time clinical troubleshooting and issue resolution.

iSSL technology: An industry standard security and encryption protocol that 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: System users can place a technical or clinical support request directly to Philips from the ultrasound system to help minimize workflow interruption.

Utilization reports: Data intelligence tools that can help you make informed decisions to improve workflow, deliver quality patient care, and reduce the total cost of ownership.

Proactive support: Philips can continually monitor key system parameters, detecting anomalies before they impact performance. Corrective action can be taken quickly, often with no impact to patient schedules.

Service rated #1 by customers
Philips Healthcare ultrasound is #1 in overall manufacturer performance based on customer rankings in the 2011 IMV ServiceTrak All Systems survey. Part of the annual IMV ServiceTrak surveys, the report reflects the responses of over 1,800 imaging professionals measuring satisfaction with manufacturer, system, and service performance.

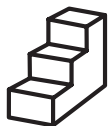### Innovative financing solutions
Philips Medical Capital delivers financial solutions to help you place a new system in your facility or practice. Our financial experts understand your unique financial needs and provide flexible solutions that optimize asset utilization, reduce costs, and increase financial flexibility.

Philips SmartPath assures you easy access to solutions and innovations for the full life of your ultrasound system, so you can boost your clinical and operational potential and achieve your organizational goals.

Optimize
Optimize your system's performance both now and in the future with regular and ongoing updates, including functionality improvements and remote technical support.

Enhance
Enhance your equipment with regular technology upgrades, and take advantage of the newest features and capabilities.

Transform
Transform your investment at the end of your system's life by transitioning seamlessly to a next-generation solution or refurbished option.

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* Not all services are available in all geographies and require service contract coverage.

Philips Healthcare is part of
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