TOSHIBA

Leading Innovation >>>

Xario™ XG

Simply More Intelligent Ultrasound

Enhance productivity
with tools for improved comfort and efficiency

Xario™ XG delivers an abundance of features that promote operator comfort and ease of movement while streamlining workflow. Xario XG's user interface enables efficient operation, thanks to push-button simplicity. The programmable user interface adapts easily to changing clinical needs and the preferences of multiple operators.

➤ Improve workflow with advanced imaging techniques that help you achieve your goals for improved standardization of studies

➤ Increase diagnostic confidence with superb image quality for excellent diagnostic results

➤ Reduce operator fatigue, speed exams, and minimize work-related injuries with operational features that are designed for comfort and convenience

➤ Achieve high spatial resolution with XBT transducers that deliver unsurpassed bandwidth and sensitivity, providing increased penetration

The iASSIST™ palm unit with Bluetooth™ wireless technology optimizes workflow with remote control of the user interface.

Built More Intelligently to Improve Workflow

➤ Programmable key functions and interchangeable key tops make it easy to customize the main panel

➤ Central Palm Controller lets operator access all major functions with minimal hand movement

➤ Mode-sensitive Color Touch Command Screen makes advanced functions easy to select and use

Scan. Review. Done.
Volume Imaging simplified

Xario XG's complete volume imaging solution enables physicians to better perform a variety of clinical applications, resulting in less variation in acquired images, ability to analyze data after patient discharge, improve productivity and ultimately provide more accurate diagnosis.

Volume Imaging
Delivering detailed visualization of anatomy moving in real-time, Xario XG volumetric imaging adds a valuable new dimension to diagnostic ultrasound, consisting of concise, continuously updated images that allow optimization of scanning position to gather all necessary data in less time, therefore increasing throughput.
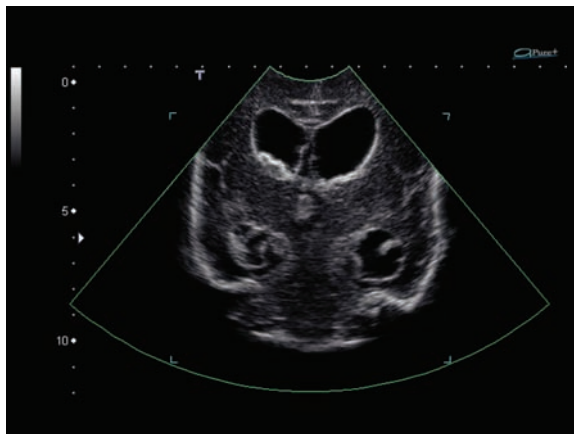
▲ Single sweep acquisition phase – acquiring neonatal head with a intracranial bleed.

▲ Single sweep acquisition visualizing the pancreas.

Volume Imaging Transducers
A wide array of transducers completes our volume imaging package which gives physicians the ability to review volumetric data after patients have left the exam room, providing more time for diagnosis and thorough analysis.
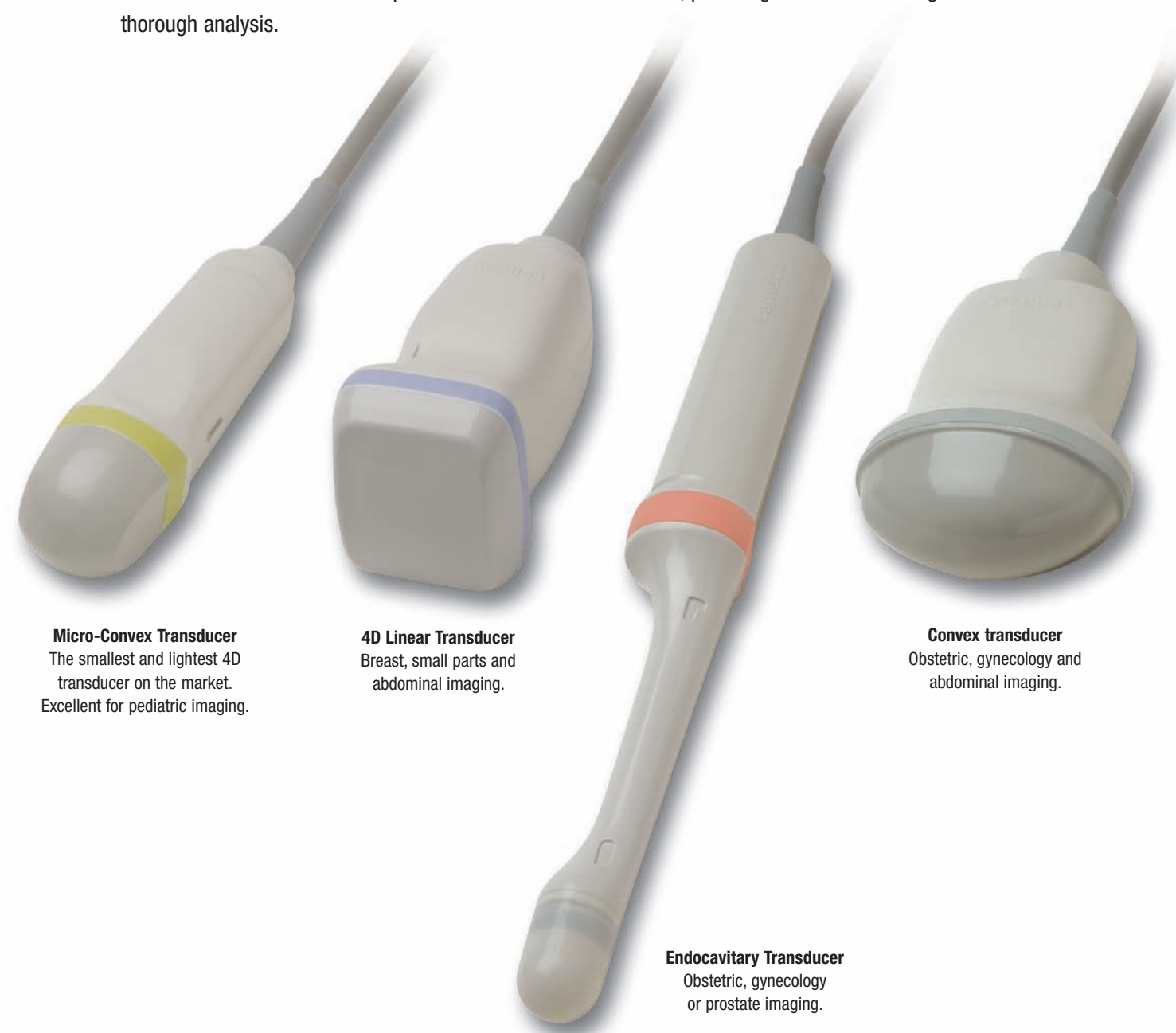
Micro-Convex Transducer
The smallest and lightest 4D transducer on the market. Excellent for pediatric imaging.

4D Linear Transducer
Breast, small parts and abdominal imaging.

Endocavitary Transducer
Obstetric, gynecology or prostate imaging.

Convex transducer
Obstetric, gynecology and abdominal imaging.

More efficient imaging
## any way it's sliced

Multiview Imaging

Xario XG provides the ability to view multi-dimensional images in any plane, similar to CT and MR. Volume Imaging transducers automatically take a single sweep of the region of interest and allow the operator to select slice thickness (0.2 -10 mm slices), display coronal views and interrogate the data on or off the system.
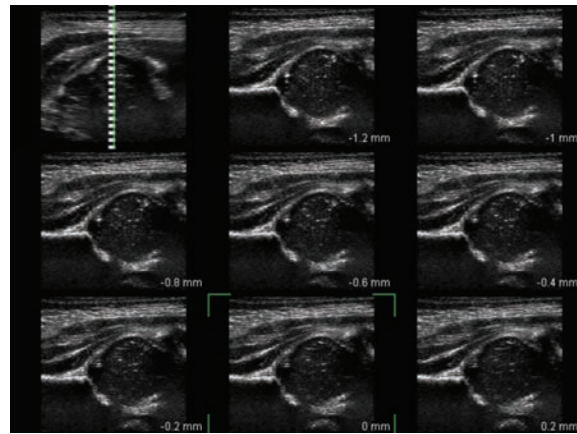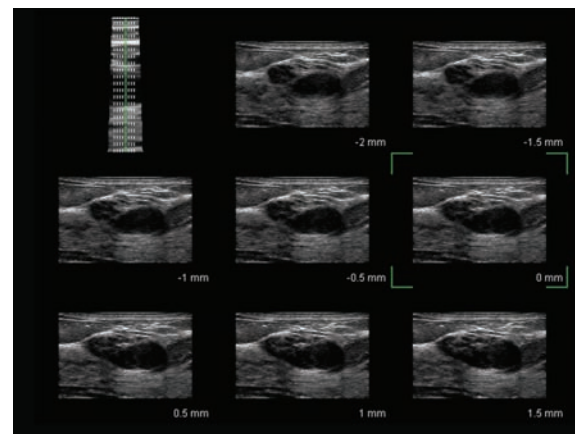

▲ Multiview of infant hip, 0.5 mm slice selected to give greater detail throughout the hip socket demonstrating normal hip anatomy.
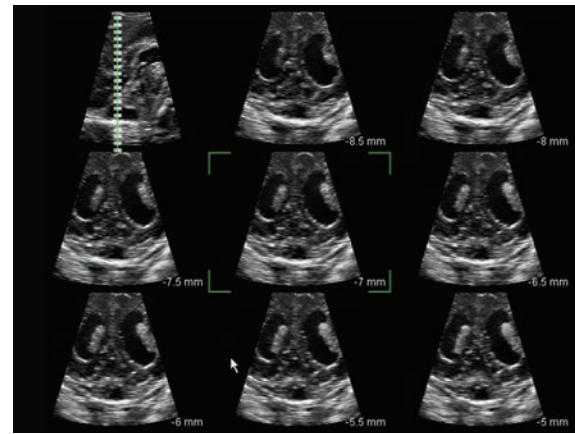
▲ Multiview of 7-month-old neonatal head providing added ability to follow and interrogate the bleed.
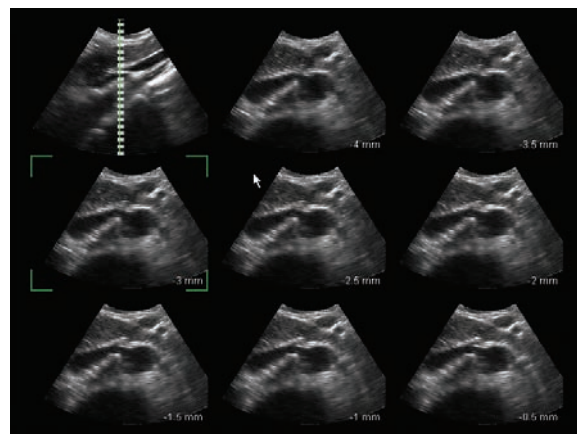

▲ Multiview of the pancreas using 0.5 mm slice enables evaluation of the entire pancreas in a longitudinal view.


▲ Multiview of breast hematoma giving greater detail resolution to interrogate the benign lesion.

Volume View Imaging

With Xario XG's Volume View Imaging package, physicians can slice and dice the region of interest in any plane, measure volumes and recreate any view to obtain a thorough, more confident diagnosis.
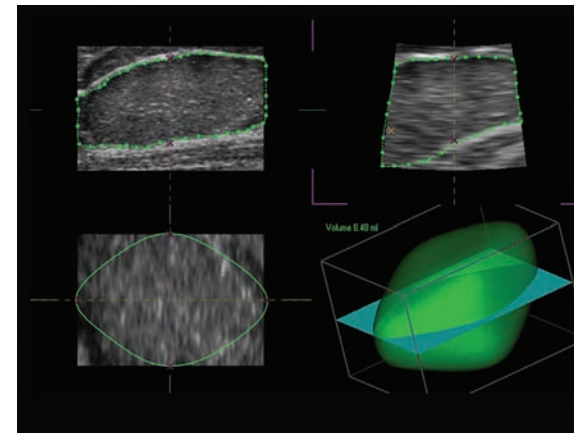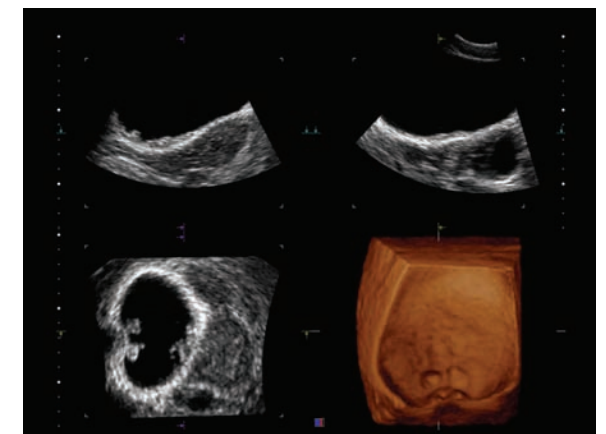

▲ Volume View of breast fibroadenoma, depicting entire volume of lesion.
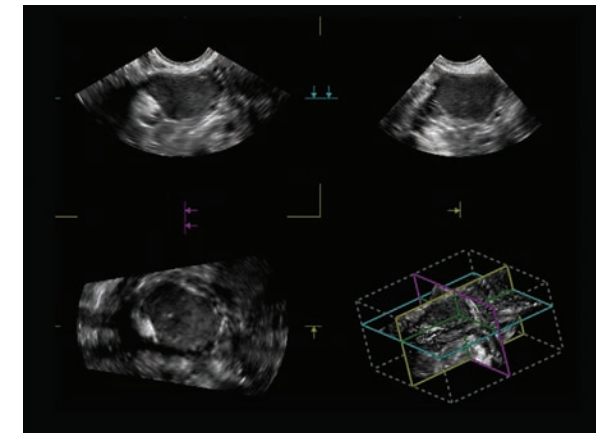
▲ Volume View of dermoid cyst showing ability to slice through the longitudinal, transverse or coronal plane.
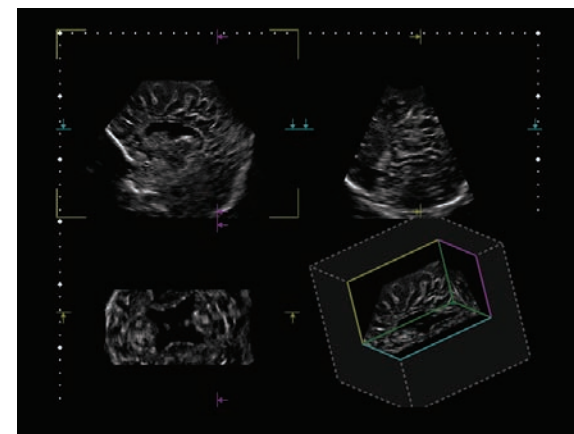
▲ Volume View of neonatal head using the Niche View enables the ability to further investigate the bleed.

▲ Volume View gives the ability to demonstrate these bladder mounds in longitudinal, transverse and coronal planes a well as visualized as an entire volume.

Simply more intelligent
## for outstanding radiology performance

ApliPure™+

ApliPure+ combines the advantages of spatial and frequency compounding, in transmission as well as reception, to supply ultrasound images of unsurpassed uniformity with detailed contrast resolution.
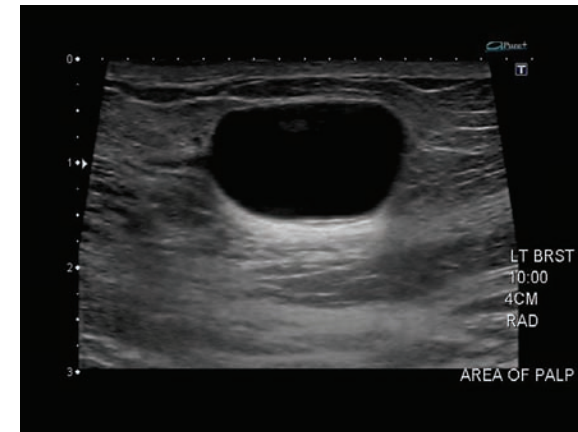
▲ Hypoechoic breast lesion demonstrating outstanding image clarity and detail with ApliPure+ and Trapezoid Imaging.
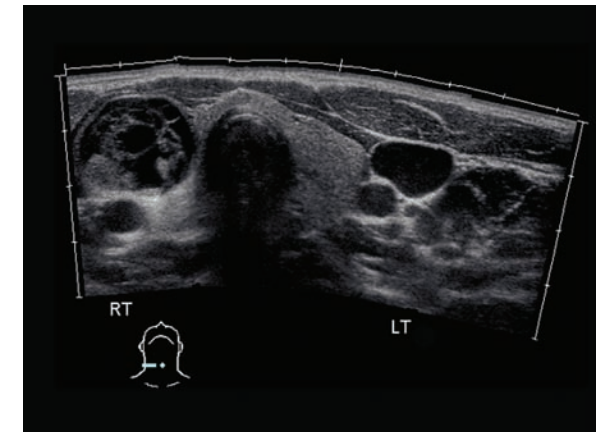
▲ Thyroid nodule visualized with ApliPure+ in conjunction with Panoramic View.

Advanced Dynamic Imaging

The ultra-wide band doppler technique is combined with grayscale, rebuilding the image pixel by pixel, and resulting in one integrated image. This allows for visualization of flow information with detailed precision and true hemodynamics.
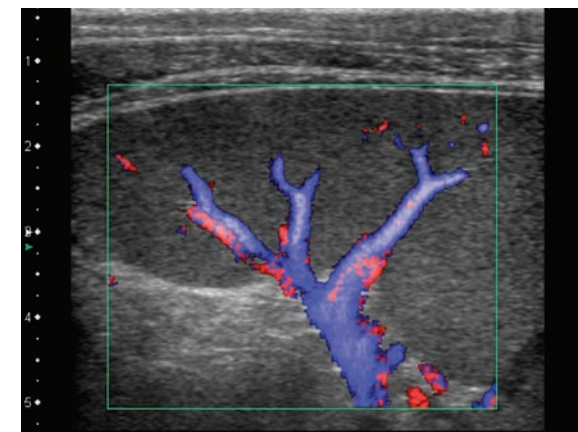
▲ Advanced Dynamic Flow (ADF) demonstrating the true vessel lumen of the hepatic vein in the liver used in conjunction with pulsed wave doppler.
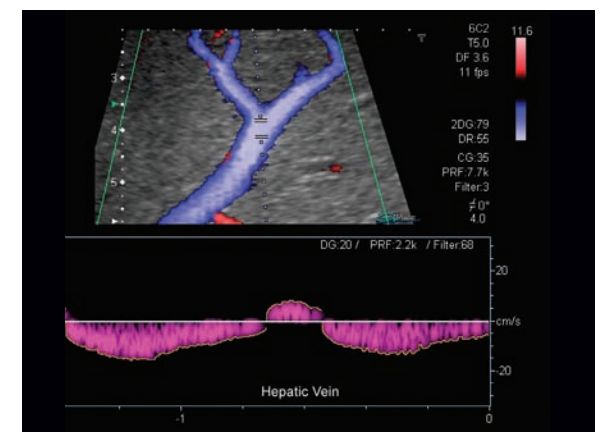
▲ ADF reveals sensitive blood flow in spleen perfusion.

Greater diagnostic confidence
## for cardiac imaging applications

Xario XG features unique, clinically proven technologies for unsurpassed

image quality. A full range of imaging functions lets operators precisely

visualize minute cardiac and vascular structures

for fast, accurate diagnosis.

Designed to minimize operator stress and increase efficiency, Toshiba's lightweight transducers feature innovative shapes and thin, super-flexible cables.

Tissue Harmonic Imaging and Pulse Subtraction™
These innovative applications provide superior image quality in 2D applications, routine examinations and difficult-to-scan patients.
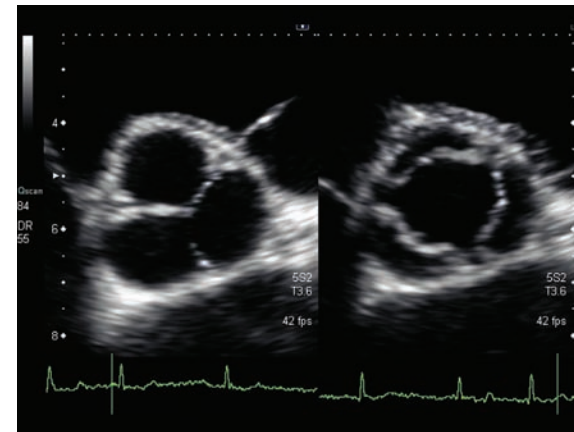
▲ Short axis view of the aortic valve using Pulse Subtraction Harmonic Technology.
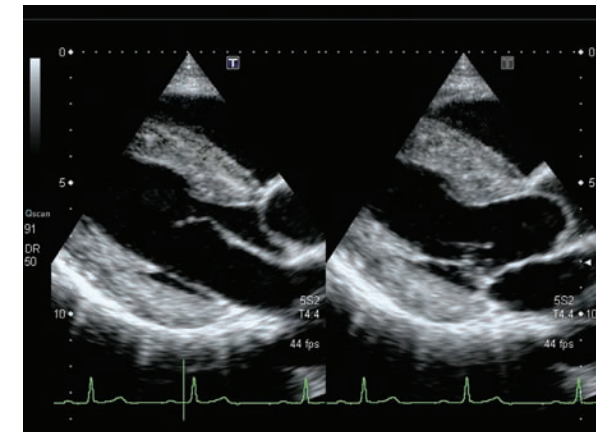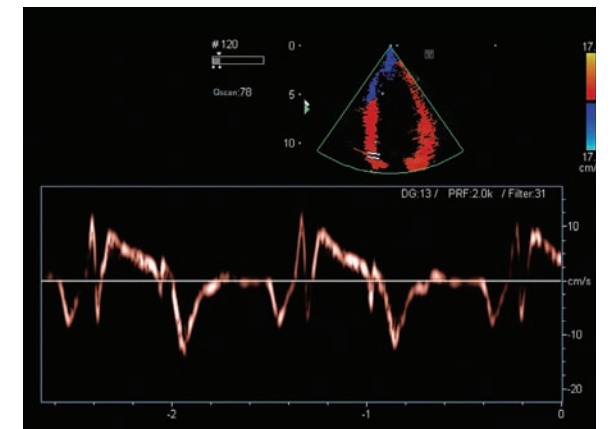
▲ Superior detail resolution in the left ventricular long axis view of the heart.

Contrast Harmonic Imaging*
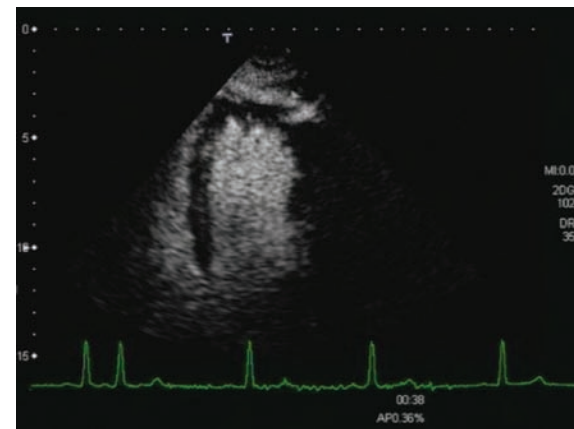
▲ Left ventricular opacification using Pulse Subtraction technology.

Harmonic Tissue Doppler Imaging

▲ Harmonic Tissue Doppler Imaging allows for superior doppler analysis.

*FDA allows the use of contrast agents for specific indications.

Enhance workflow and networking
with exceptional performance

Xario XG streamlines workflow with complete key operations, "on-the-fly" calculations, and complex advanced applications in less time, with better clinical information. The exceptionally high efficiency of the Xario XG comes from the Intelligent Component Architecture (ICA), which enables individual system components to operate independently while directly communicating with one another for real-time data operations.

Xario XG's integrated data management system makes it easy for operators to review, archive and share exams. With a wide range of networking and storage functions, Xario XG integrates seamlessly into all clinical environments, improving workflow and enhancing ease of use.

Patient and Image Management System
Enables efficient printing, storage and network transfer of patient data, still images, clips and structured reports.

DICOM Connectivity
Supports all seven DICOM service classes for connectivity with the broadest range of hospital networks.

Patient Browser
Allows for convenient onboard review of studies (including structured reports) and easy export of images and clips to PC-compatible formats.

External Workstation
Enables convenient reporting, storage and review of current or past exams on demand.

Local Documentation

➤ Optional, fully integrated medical printer or high-resolution DVD recorder

➤ DVI interfaces for truly digital connection to external devices such as additional monitors

Designed for mobility and versatility
## to maximize ease of use

One-Touch Quick Scan

Achieve greater workflow consistency with one-touch Quick Scan. With a push of a button, Quick Scan automatically optimizes 2D gain level and spectral doppler with acoustic precision while suppressing white noise in echo-weak regions.

BEFORE
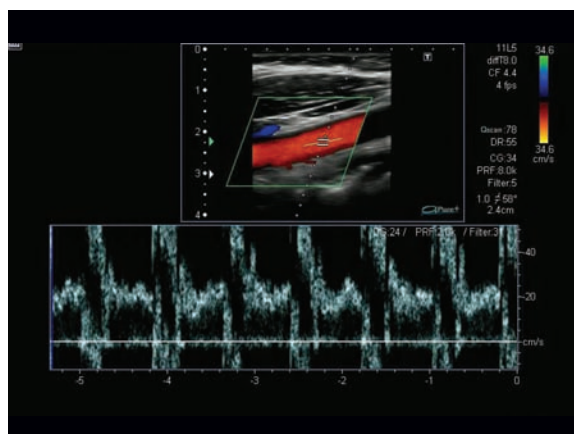
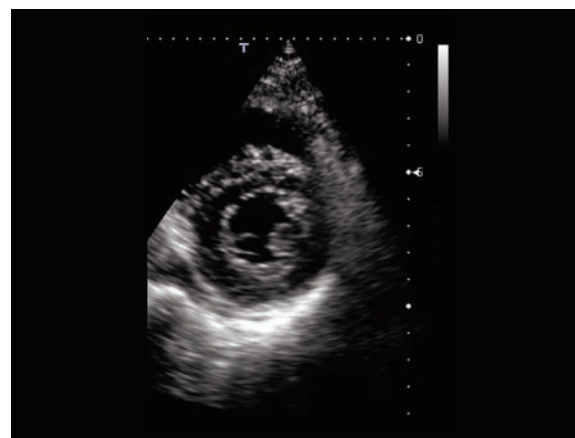▲ Aliasing spectral doppler without Quick Scan.

▲ Short axis of the left ventricle of the heart without Quick Scan.

AFTER
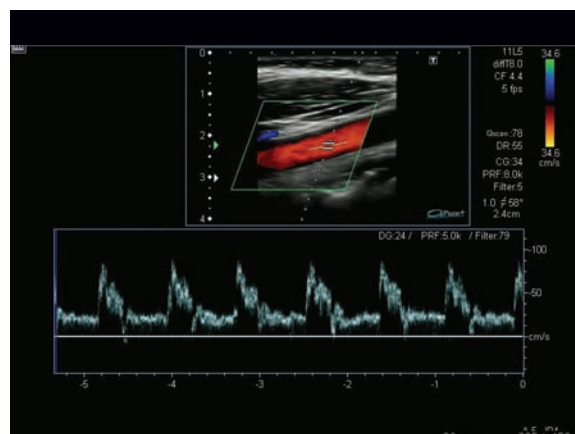
▲ One-touch optimization with pulse wave doppler.

▲ One-touch optimization of the left ventricular short axis view of the heart.

iASSIST™ with Bluetooth technology optimizes workflow

The iASSIST remote puts innovation in the palm of your hand to streamline workflow processes with ease and efficiency. Enabled by intelligent component architecture, iASSIST utilizes Bluetooth® wireless technology to seamlessly operate Xario XG from a distance without hardware modifications.

▶ Users define and activate exam protocols with the touch of a button — iASSIST automatically handles the rest of the exam

▶ Routine and highly complex examinations can be reproduced over and over, using optimum scanning conditions

▶ User-defined protocols can be shared with other Xario XG systems for multicenter studies

▶ Robust Bluetooth technology utilizes extremely fast, short-range radio links to operate in noisy environments — connecting the user to the system without line-of-sight limitations

The iASSIST Bluetooth remote controller can be tailored for right- or left-hand use.

INNOVATION *BY DESIGN*

For over 130 years, Toshiba has led the world in developing technology to improve the quality of life. This *Made for Life™* commitment is reflected in our family of leading-edge imaging systems for MRI, CT, ultrasound, cath labs, X-ray and nuclear medicine. From creating our first X-ray tube in 1915 to introducing the first dynamic volume CT scanner in 2007, Toshiba continues to build upon our legacy with technological innovation that improves patient care while providing lasting quality for a lifetime of value.

A Services Partner You Can Count On

Toshiba has the expertise and resources you need to manage the costs of healthcare without compromising its quality.

InnerVision® Plus
Remote system diagnostics to catch problems before they interrupt the delivery of care

InTouch Center™
Centralized, 24x7 applications and services support expertise

Technical Assistance
Highly trained engineers are ready to service your Toshiba equipment on site

InTouch Agreements
Services support contracts tailored to your needs

Parts Support
Delivering quality parts when and where you need them, 24x7, 365 days a year

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Toshiba — A History of Leadership

- *1875* • **Founding of Toshiba**
- *1915* • **First X-ray Tube**
- *1973* • **First Real-time Ultrasound Scanner**
- *1978* • **First Cardiac Ultrasound Scanner**
- *1989* • **First Helical CT Scanner**
- *1990* • **First Tissue Dyssynchrony Imaging System**
- *1993* • **First One-million-pixel CCD**
- *1997* • **First Open, Superconducting Magnet**
- *1997* • **First Flash Echo Imaging**
- *2000* • **First All-digital Multipurpose X-ray System**
- *2002* • **First 400 msec CT Scanner**
- *2003* • **First 64-slice CT Scanner**
- *2005* • **Largest 90 cm Large Bore CT Scanner**
- *2005* • **First Compact Dual Plane Cath Lab with Flat Panel Detectors**
- *2007* • **World's First Dynamic Volume CT Scanner**

Made for Life

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