

# TOSHIBA

Leading Innovation >>>



BETTER OUTCOMES  
FROM DETECTION TO TREATMENT

**Aprio 300**

*Platinum Series*

# PERSONALIZED PRODUCTIVITY



For advanced performance you can rely on day after day, look no further than Aplio™ 300. Cost-effective, productive and versatile, the system offers superior imaging with outstanding depth and detail for the widest range of clinical specialties. Lighter and with a smaller footprint, Aplio 300 is designed to increase mobility, to optimize viewing, and to provide you with an ergonomic workplace.

Aplio's unique core technologies provide an unmatched level of clinical precision, departmental productivity and ease of use, allowing you to get your diagnosis quicker and with higher confidence.



High Density  
Beamforming



High Density  
Rendering



Realtime  
Application



iStyle+  
Productivity



Superior imaging performance is one of the key reasons that make Aplio one of today's most popular premium diagnostic ultrasound systems. A full range of clinically proven tools offers uncompromised image quality. A host of advanced imaging and quantification functions ensures that you can make the best informed disease management decisions.



# ENJOY THE PERFECT PICTURE EVERY DAY

At Toshiba we believe that only the best image quality allows a diagnosis to happen quickly and with confidence. Each of our unique imaging technologies provides you with better image quality by reducing noise, strengthening signal and improving visualization. Aplio's revolutionary High Density Beamformer uses the most advanced digital signal processing to control the ultrasonic beams more precisely and flexibly than any other system.



## Precision Imaging and Precision<sup>+</sup>

With Aplio's new and enhanced Precision Imaging technology you can experience ultrasound imaging as close to reality as never before. From widespread areas to fine details in layers and boundaries Precision Imaging reveals more clinical detail for a faster and safer diagnosis. Precision Imaging delivers outstandingly smooth images with significantly sharpened outline of lesions, enhanced image uniformity and reduced clutter.



## ApliPure™+

ApliPure<sup>+</sup> combines the advantages of spatial and frequency compounding to provide you with images of unsurpassed uniformity and detail while preserving clinically significant markers such as shadows behind echo-dense objects. ApliPure<sup>+</sup> delivers increased imaging contrast and reduced speckle noise to improve visualization.



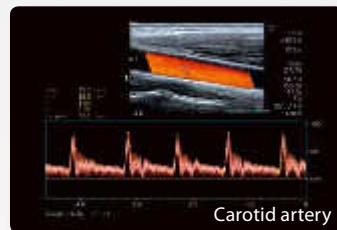
## Differential Tissue Harmonics

Differential Tissue Harmonic Imaging takes outstanding tissue definition deeper than ever before. By simultaneously transmitting two frequencies in a single pulse Differential Tissue Harmonics provides images of unsurpassed spatial resolution and contrast, alongside with greatly increased penetration.

## Unprecedented detail for a precise diagnosis

Each of our unique imaging technologies provides you with better image quality by reducing noise, strengthening signal and improving visualization.

- Precision Imaging**
- Differential THI**
- AppliPure**
- Power Doppler**
- Spectral Doppler**
- Doppler auto trace**



Carotid artery



Fetal chest and neck



Portal vein



## Outstanding diagnostics starts here

Designed to increase efficiency, our lightweight transducers feature outstanding clinical versatility, ergonomic shapes and thin, super-flexible cables. Aprio's transducers deliver superb image quality and respond with high flexibility to the widest range of clinical applications.



Fibroadenoma

### Advanced Dynamic Flow™ (ADF)

Advanced Dynamic Flow adds superior spatial resolution to color Doppler imaging to reveal minute vasculature and complex flow patterns with unprecedented accuracy and detail. With ADF you can display flow directionally and accurately at high frame rates, while maintaining the full B-mode image quality.

### Directional Color Angio (DCA)

DCA combines the sensitivity and penetration of Power Doppler with the directional information of color Doppler into one precise procedure. This allows you to more accurately determine tissue perfusion at greater depth or low flow velocities while differentiating between arterial and venous flow.

### BEAM

Toshiba's Biopsy Enhancement Auto Mode (BEAM) provides a clearer visualization of biopsy needles in the live ultrasound image. BEAM enhances the visibility of a biopsy needle and works with all common needle sizes. The function provides three enhancement levels and selects the best scan angle fully automatically.

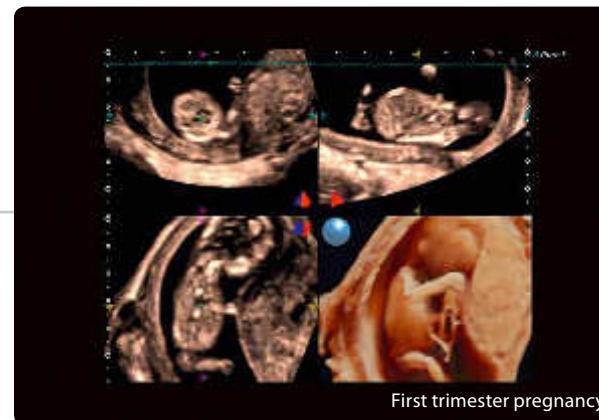
# A NEW DIMENSION OF IMAGING AND INTERVENTION



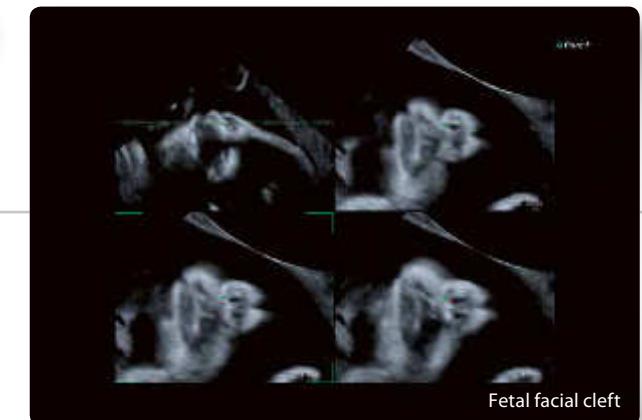
Aprio's comprehensive 3D/4D volume imaging suite extends your diagnostic capabilities into the next dimension of imaging and intervention by providing accurate renderings and arbitrary volume cuts in realtime or offline. Aprio's new High Density Volume Rendering Engine gives you extraordinary image quality at high volume rates for uncompromised workflow and clinical result.



Fetal face



First trimester pregnancy



Fetal facial cleft

## Luminance

Luminance is an innovative new surface rendering technique that provides a softer, more natural visualization of the human skin resulting in images of almost photographic impression and quality. The function's freely movable light source gives you strong visual feedback on depth and detail. Changing the position of the light can help you identify pathological changes and skin defects better and with greater clarity.

## Multi-Planar Reconstruction (MPR)

Aprio's MPR function allows you to review a specific structure or region of interest simultaneously in three orthogonal planes accompanied by a surface rendering or box volume image. The increased anatomical information contained in the high-resolution cross sections can help you to better understand anatomical relationships or the extent of a given lesion.

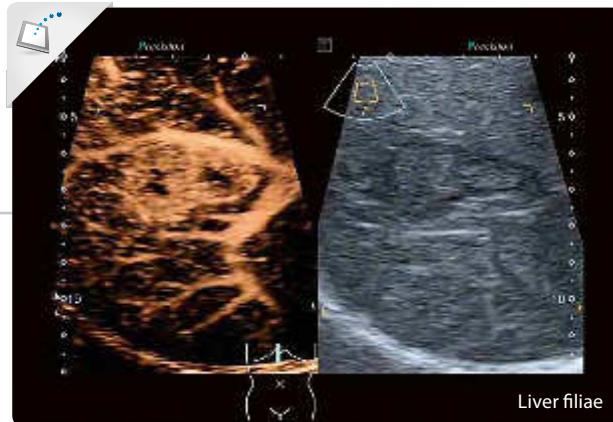
## MultiView

With MultiView you can generate series of cross sections of a given volume in an instant. The resulting display of multiple parallel cut planes provides a very effective tool for the assessment of lesions and their associated structures. MultiView allows you to cut a given volume in any direction to reveal high-resolution off-axis views that can further enhance your diagnostic confidence.

# ADVANCED TOOLS TO HELP YOU BETTER EVALUATE DISEASE

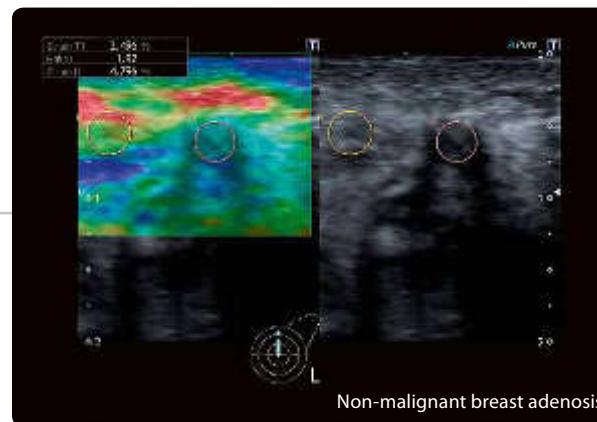


Powered by the industry's most advanced Realtime Application Platform, Aplio 300 provides you with a complete range of exclusive, clinically proven technologies to increase your diagnostic confidence. By giving you valuable additional information in easy to understand visual, parametric and quantitative formats, these advanced technologies can help you avoid supplementary exams to get your diagnostic answer. Thus, you can save expenses and enhance your department's productivity.



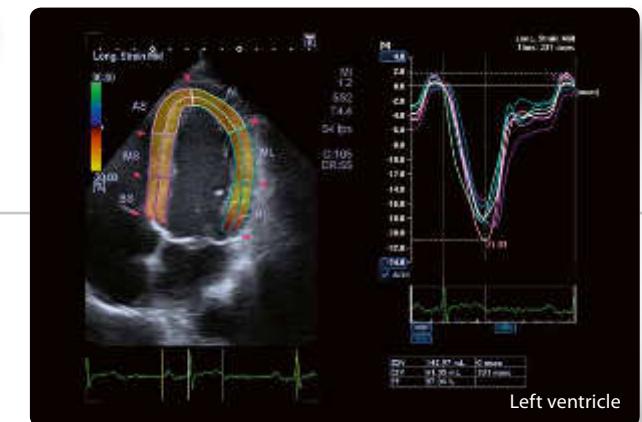
## Contrast-Enhanced Ultrasound (CEUS)

Our comprehensive contrast imaging package allows you to assess perfusion dynamics in a wide range of clinical settings. Depending on the system configuration, up to 24 transducers support contrast-enhanced studies, including an ample variety of specialized probes such as high frequency, intra-operative, intra-cavity and 3D/4D transducers.



## Realtime elastography

Our comprehensive elastography solution with raw data functionality assists you in localizing and assessing palpable masses with high accuracy, sensitivity and reproducibility in a wide range of clinical settings. Different degrees of tissue elasticity can be quantified or color-coded in parametric images making suspicious tissue changes quantifiable and visible in the ultrasonic image.



## Wall Motion Tracking

Toshiba's proprietary speckle tracking technology provides immediate visual and quantitative access to regional myocardial wall motion with unrivaled accuracy and resolution. With Aplio you can assess and quantify parameters such as strain, strain rate or displacement during the examination or anytime later, on the console or on the workstation.

# PERFORMANCE MEETS INTELLIGENCE

Our unique iStyle™+ productivity suite provides you with a full host of technologies that offer ergonomic relief by reducing keystrokes, improving workflow and raising the consistency of exams. Aprio 300's compact design with adjustable console and fully articulating monitor arm enables you to create an ergonomic work environment in virtually any clinical setting. The system's premium quality LCD screen with the four-axis arm can move and swivel into perfect position for better viewing and to protect you from neck, shoulder and eye strain.



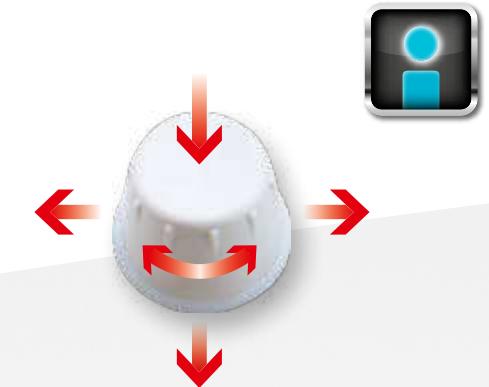
## Fully programmable console

You can customize Aprio's console to suit your clinical needs and personal preferences simply by reassigning functions to the keys of your choice. This results in better reach, fewer keystrokes and a shorter learning curve. The mode-sensitive touch screen, which is now also programmable, enables direct access to complex measurements, labels and advanced functions.



## Quick Start clinical settings

Changing presets during an exam can disrupt your workflow, because system settings need to be optimized from scratch. The fully programmable Quick Start menu allows you to adjust only the relevant parameter set at a single touch of a button. All other settings remain untouched. This way you can easily adjust the system to any specific clinical target while ensuring a smooth, uninterrupted workflow.



## 3D multifunctional keys

Aprio's 3D multifunctional keys offer four degrees of freedom for outstanding usability. Their mode-sensitive function is fully programmable and displayed in the adjacent touch screen in an easy to understand manner.



## QuickScan image optimization

QuickScan allows you to achieve greater consistency in your exams by ensuring that superb image quality is the benchmark at all times. With a simple push of a button you can automatically optimise image quality in 2D and spectral Doppler modes with acoustic precision while suppressing unnecessary noise and clutter in echo-weak regions.

## Remote service

# Innervision

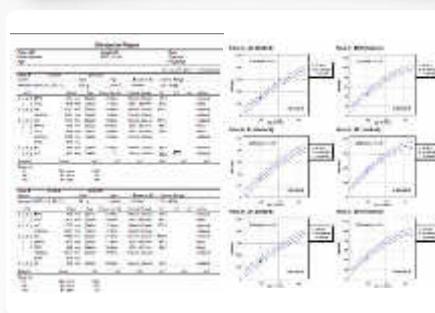
### We're here – even when we're not there

Our remote service support and diagnostic system InnerVision provides secure access for Toshiba specialists through a VPN network. Using it, our highly trained customer engineers and applications specialists can monitor customer systems remotely and assist our on-site engineers in preventing problems. All without interrupting your essential flow of patient care.



### Quick Assist protocols

Aplio's protocol assistant provides a reliable method to ensure that the same exam is performed from patient to patient. Once activated the tool automatically launches a clear, easy to read on-screen menu that will guide you through your exam. Always anticipating your next step, the protocol assistant allows you to focus even more on the image and the patient. Aplio's protocol assistant can be customized based on your department's scanning procedures.



### Managing your study data

Aplio's fully integrated patient and image management system allows you to review and manage your studies conveniently onboard before sending them to PACS for reporting or archiving, including image and raw data as well as structured reports. And if a study is not performed in the exact order, Aplio's shuffle feature allows you to place the images into the correct order before sending them to PACS for reading.

### Exporting your clinical data

Aplio ships standard with a DVD writer and USB connection for study documentation and data export. The unit can be equipped with integrated medical printers or a DVD recorder for onboard study documentation. A digital video interface is available to connect your Aplio to external devices such as additional monitors.

### Reporting options

Aplio provides comprehensive onboard facilities allowing you to semi-automatically generate reports including measurements, charts, clinical images, as well as text. Reports are customizable to meet your department's standards and formats. If you prefer to do your reporting offline, we offer a wide range of workstation and connectivity solutions.



### UltraExtend™ FX

Our external workstation solution gives you full access to your clinical data and diagnostic tool set wherever and whenever needed. With embedded raw data functionality and a host of clinical tools you can review, analyze, report and archive your data quickly and easily.

# BRINGING INNOVATION TO LIFE

For over 130 years Toshiba's research and development has improved the health and welfare of people around the world. Today, Toshiba Medical Systems offers a full range of diagnostic imaging products and is a reliable service partner in more than 120 countries around the globe. Our Mission is to deliver the best quality products and services, as well as the industry's best after-sales support through long-term, customer focused partnerships.

## **Innovation**

Toshiba is a world leader and innovator in high technology. Year on year we file thousands of patents, making innovation a key part of the Toshiba fabric. In accordance with our Made for Life™ commitment, we develop innovations that improve patient care and provide lasting quality for a lifetime of value.

## **Quality**

At Toshiba quality and reliability is at the heart of everything we do. With technologies and products being developed in more than 30 R&D laboratories and over 300 subsidiary companies across the globe Toshiba engineers are dedicated to develop the best-performing, most reliable and environmentally friendly product solutions for you.

## **Design**

Our product design is driven by customer feedback and the close consultation with industry visionaries and opinion leaders. Our award-winning Design Center has over 50 years of experience in developing pioneering products and industry-leading solutions to ensure that you can work at the highest standards of diagnostic precision, usability and productivity.

## **Partnership**

Making sure your systems deliver from day one is an important part of our relationship. Whether you need onsite or offsite training, we can provide options that work best for you. Experienced clinical application specialists will help you and your team to maximize the potential your diagnostic imaging equipment has to offer.



Caring for earth and its people is at the heart of everything Toshiba does – and one of the many ways we innovate. Toshiba's passion for safeguarding earth is enshrined in our Environmental Vision 2050, whereby we seek to improve our eco-efficiency by a factor of ten over the next four decades through strict monitoring of energy usage, continuous improvement of manufacturing processes and eco-conscious product development. Far from being a distant goal, the Environmental Vision 2050 sets tangible milestones year by year. These include the reduction in emission of CO<sub>2</sub> and other greenhouse gases, and the complete phasing out of certain hazardous substances from our products.

## Design, manufacturing and shipment

### No sustainability without quality

By manufacturing high quality diagnostic imaging equipment that lasts, we ensure that you can enjoy working with your machine over many years. Our software-driven platforms are easy to upgrade to keep you abreast of new diagnostic tools for a long time. And while we continuously work to improve the performance of our equipment, we drive down consumption of energy and resources at the same time.

## Product use

### Energy efficiency is the key

A major part of the greenhouse gas emissions our medical imaging systems produce accrue while you scan your patients. Therefore we design our products to be outstandingly energy efficient, and even to recycle energy wherever possible. Take for instance our Aquilion ONE™ CT scanner. While braking its gantry, 25 % of the energy used to set it into rotation can be recovered and stored for the next scan.

## Refurbishment and recycling

### End of use is not the end of life

Because outstanding quality lasts, your Toshiba medical imaging equipment remains of high value even after you replace it with new equipment. Our Secondlife refurbishment program is an integral part of our corporate philosophy helping to maximize the life span of our equipment by enabling you to sell or buy used equipment of the same high quality as our new machines.



# ***Aplio***

*Platinum Series*

**TOSHIBA MEDICAL SYSTEMS CORPORATION**

[www.toshibamedicalsystems.com](http://www.toshibamedicalsystems.com)

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Toshiba Medical Systems Corporation meets internationally recognized standards for Quality Management System ISO 9001, ISO 13485.  
Toshiba Medical Systems Corporation Nasu Operations meets the Environmental Management System standard, ISO 14001.

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