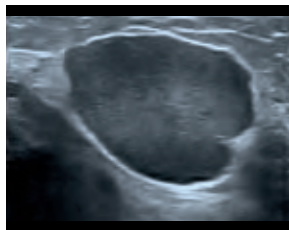
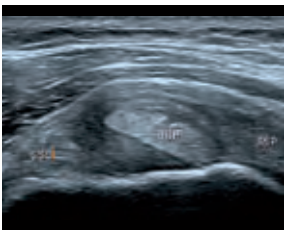


# TOSHIBA

Leading Innovation >>>

The golden rim shown on this page was added for advertising purposes only.

## Aplio XG now holds a golden key for you.



Being a market leader in diagnostic ultrasound, excellent image quality is important to us. But now we have the key to move from excellent to exceptional. Aplio™ XG's new Precision Imaging technology enables you to acquire ultrasonic images of unprecedented clarity and resolution and thus lets you see more detail than with any other system.

Precision Imaging is a multi-resolution signal processing technique that analyzes ultrasonic images on the fly at various orders of spatial resolution to provide greater definition of structure, from widespread areas to fine details in layers and boundaries. Like all other imaging functions, Precision Imaging is easily accessible through a matrix-programmable rotary key on Aplio XG's concise console.

Now all you have to do is to turn that key and get the most spectacular images for better informed disease management decisions.

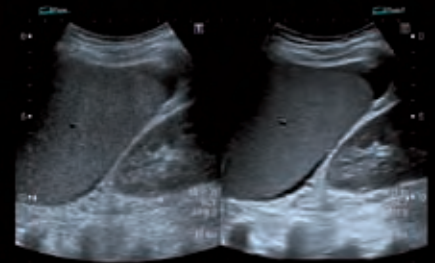
**Aplio XG**  
SIMPLY MORE INTELLIGENT



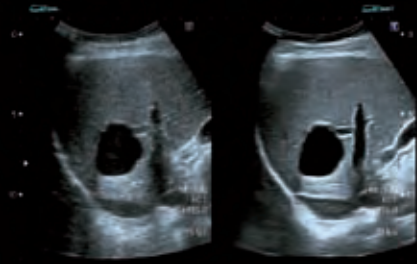
**Liver with small hemangioma:** Widespread areas such as organs appear more homogeneous and smooth with Precision Imaging.



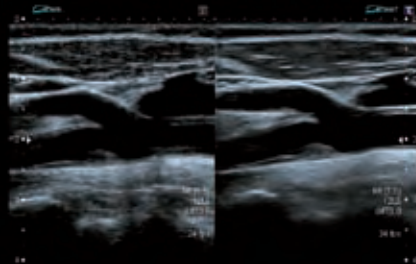
**Liver metastases:** Precision Imaging also improves the contrast of delimited objects such as lesions or vessels.



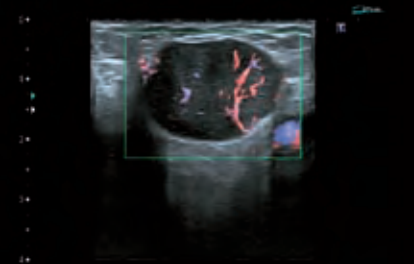
**Ascites:** Small objects such as contours and layers are sharpened and more coherent thanks to Precision Imaging.



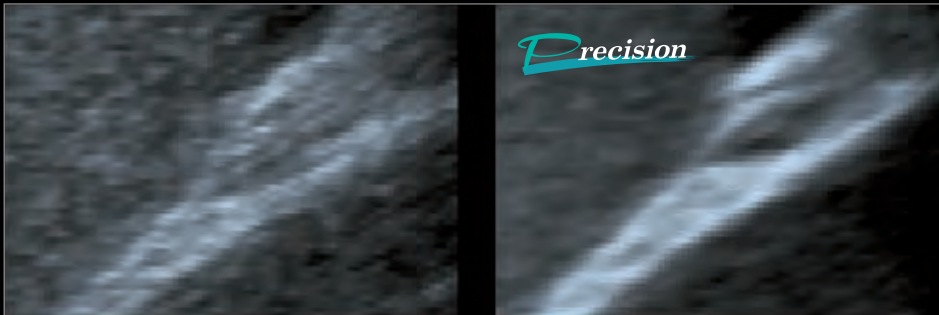
**Liver cyst:** Precision Imaging separates structure effectively from clutter and noise.



**Carotid bifurcation with plaque:** Precision Imaging works hand in hand with other imaging functions such as Differential Tissue Harmonics and ApliPure+™ to reveal the finest detail.



**Lymphoma:** Precision Imaging can be combined with virtually any other imaging mode such as colour Doppler, ADF and 3D/4D for greater uniformity within each application.



**Precision Imaging:** Compared to conventional imaging as seen on the left, Precision Imaging (on the right) greatly enhances the definition of structure while minimizing clutter and noise. The two images were zoomed to better visualize the effect of Precision Imaging.

## Precision Imaging.

Ultrasound images are created line by line. However, information in a line can often be enhanced by considering adjacent lines. For example the probability that a signal is part of a structure is very likely if adjacent lines contain the same structure. Precision Imaging considers such information over multiple lines by applying various analysis grids of different sizes to the ultrasonic raw data. Thus, structure is enhanced regardless of its scale, and noise and clutter are suppressed effectively.

