Medical Systems

Toshiba has developed medical machines and systems, which support improvement in diagnostic and treatment quality and efficiency of hospital management.
Toshiba provides a total medical system including diagnostic imaging devices, and develops/provides products, services and solutions that are friendly to both doctor and patient alike.

"Aplio™" SSA-770A Ultrasound System

Aplio™ SSA-770A diagnostic ultrasound equipment

This high-end diagnostic ultrasound system has been developed based upon the NVQC concept.

Aplio™ provides clinical oriented workflow, high image quality, quantitative functionality and connectivity capability.

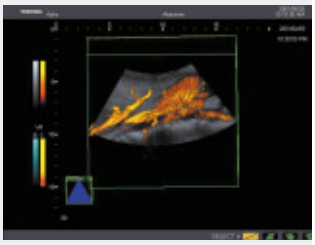
NVQC means :—

- Navigation: Workflow concept based upon actual clinical procedure.
- Visualization: State of the art ultrasound imaging technology.
- Quantification: Quantification of the diagnosis.
- Communication: Filing and network functionality.

Aplio™ delivers the following features:

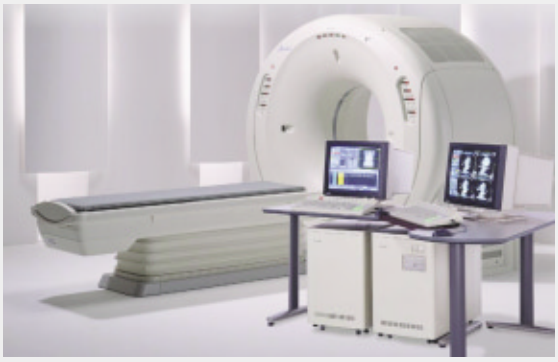
- Latest ultrasound imaging technologies such as harmonics imaging and imaging using contrasting chemical agents are available.
- Aplio™ can be used in a wide range of clinical applications in diagnosis from research purposes through to clinical application.
- Advanced dynamic flow offers high sensitivity, high frame rate and high resolution in blood flow imaging.
  It enhances and improves diagnostic capability.
- Fast fusion 3D can display tissue images and blood-flow images at the same time with rendering technology.
  This allows 3D areas to be separated and rotated smoothly, which permits monitoring of organ types or lesions.
- DICOM (Digital Imaging and Communication in Medicine) protocol is available.
  The Aplio™ comes ready to connect to a hospital network and filing system.

Advanced dynamic flow image



Fusion 3D image

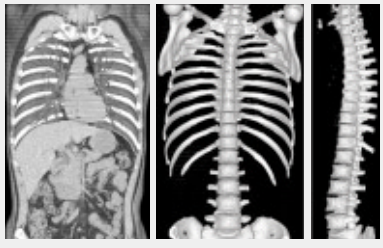
Aquilion™/Advanced-Multi Whole-Body X-Ray CT Scanner



Aquilion™/Advanced-Multi whole-body CT scanner

Toshiba has developed and commercialized an advanced multi-slice CT (Computed Tomography) that can acquire 8 rows of data simultaneously. The main features are as follows:

- Helical scan time is half of that of a 4-row multi-slice CT for the same region. Not only is the efficiency of the examination improved, but also thinner sections can be applied over a wide range of the patient's body, greatly improving disease detection capability.
- The expansion of the conventional helical reconstruction technique causes a cone-angle problem. However, since the development of the cone-beam helical reconstruction algorithm and its fast processing system has completely solved this problem, now high precision images are always acquired.
- World class state of the art technology including a 0.5 mm slice-width with high detection efficiency, stable and silent 0.5 sec. rotation, immediate real time reconstruction display of sections under helical scanning and so on from existing systems is of course available.



3D images of chest and abdomen