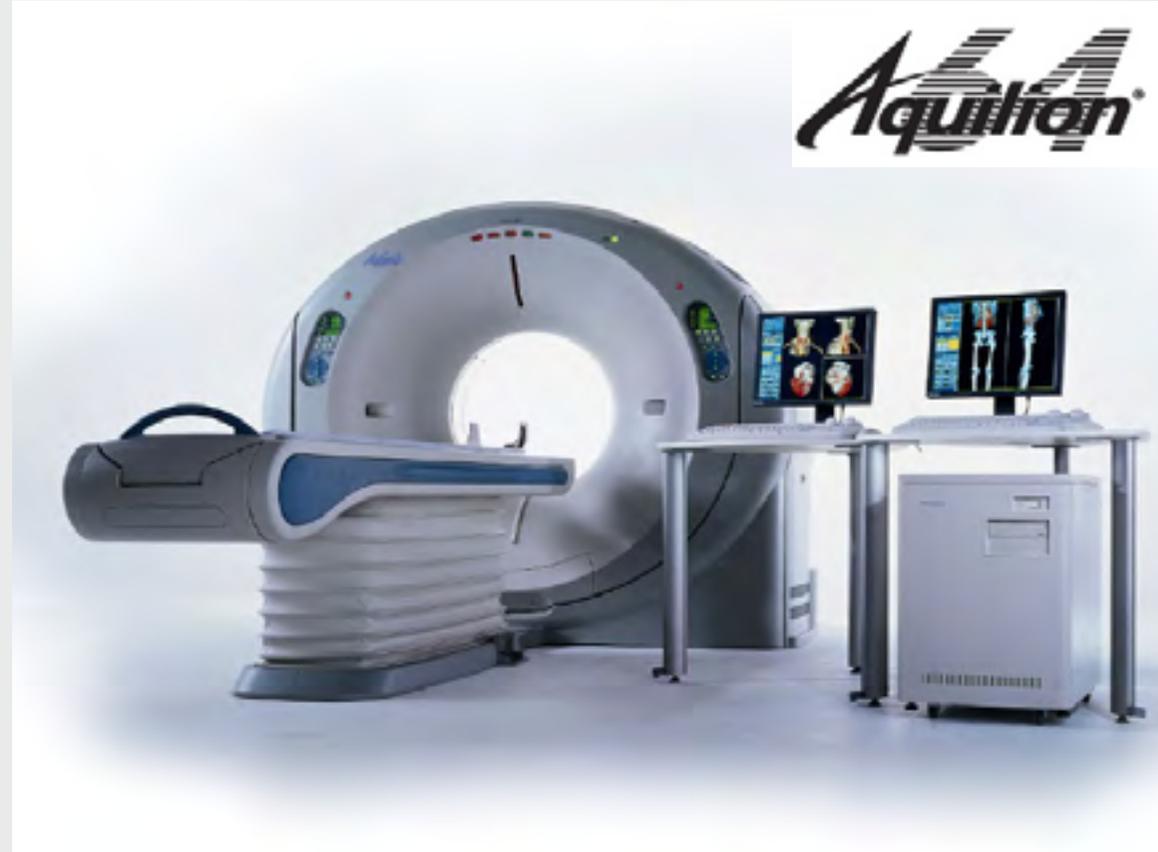


# TOSHIBA AQUILION 64 CT SCANNER

## HIGHLIGHTS INCLUDE

- Ergonomic Operator Console
- Volume Image Processor
- Dual LCD Monitors
- High Capacity Hard Disk
- Magnetic Optical Disk Storage
- Image Data Transfer Link
- Patient Positioning Accessories
- Superior Spatial Resolution at 0.35mm for Small Vessel Detail
- Large Aperture, Slip-Ring Gantry and Extra-Wide Couch
- High Power 60kw Generator
- True Volumetric Imaging
- 0.5Second Gantry Rotation
- 64 x 896 Channels of Solid-State Detectors
- Real-Time Helical Surestart is INcluded
- 7.5mHu Tube
- Fast Colour 3D Package
- Reconstruction Time per Slice 0.1 Second



THE AQUILION 64 HAS BEEN DESIGNED FOR EASY AND FAST WORKFLOW. AUTOMATED FEATURES, SUCH AS “SURECARDIO” ENABLE THE OPERATOR TO MONITOR THE HEART RATE OF A PATIENT PRIOR TO THE ACTUAL SCANNING. THE AQUILION 64 WILL AUTOMATICALLY SET THE OPTIMAL SCANNING CONDITIONS. THIS ASSURES THE BEST POSSIBLE IMAGE-QUALITY IN ANY PATIENT AND LARGELY FACILITATES OPERATOR INTERVENTIONS. DIAGNOSTIC OUTCOME HAS NEVER BEEN AS CERTAIN AS TODAY WITH THE AQUILION 64.

## INNOVATIVE WORKFLOW CONCEPT

The Aquilion 64 has been designed for easy and fast workflow. Automated features, such as "SURECardio" enable the operator to monitor the heart rate of a patient prior to the actual scanning. The Aquilion 64 will automatically set the optimal scanning conditions. This assures the best possible image-quality in any patient and largely facilitates operator interventions.

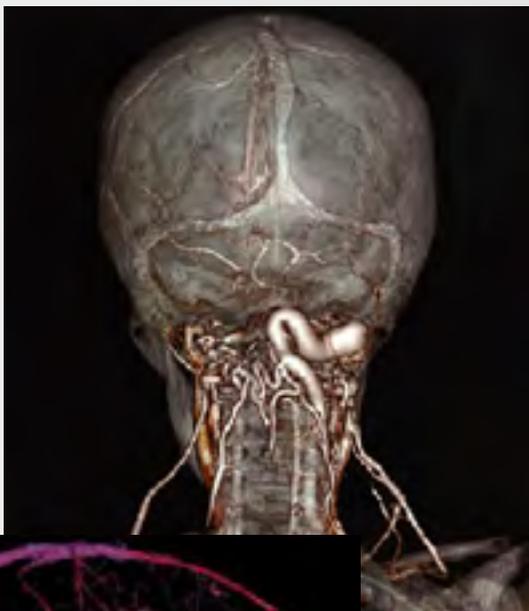
## COMPUTED VOLUME

### RECONSTRUCTION

With the newly introduced Volume Reconstruction you can scan a large volume in a minimum of time where as the Volume Viewing automatically reconstructs the scanned data into the isotropic volume used for diagnosis. No need for axial images anymore. No need to go into the data and reconstruct MPR's. Aquilion 64 uses the full quality of isotropic high resolution and has the details available to you in an instant.

### CT ARCHIVING

Aquilion 64 does away with the need for thin slice archiving, a problem for many IT-departments. Only the volume used for diagnosis in effect will be stored saving an enormous amount of storage space keeping the total cost of scanning as low as possible.



## BETTER RESULTS, LOWER X-RAY EXPOSURE

The highly sophisticated Toshiba 3-D Quantum denoising (patent pending) enables you to reduce patient dose up to 40%. This gives a completely new dimension to low dose scanning as Quantum denoising gives you the choice of reducing dose without loss of image quality. Or it can be used to improve image quality at commonly used low dose settings. Pre-eminently the method to use for paediatric scanning. It actually is the only dose reduction method capable of combining dose reduction and image quality improvement.

## MOST EFFICIENT IN CARDIAC CT

Selection of the right scan parameters and reconstruction method are essential in Cardiac CT. As Aquilion systems enable scanning cardiac patients not being treated with a beta-blocker, Aquilion has been designed to optimize both conditions in an extremely operator friendly way. Now just a few heartbeats are required, yet not compromising image-quality, as the 0,35 mm isotropic voxel resolution stays guaranteed. This allows visualization of the lumen in coronary arteries and presents you with a detail of soft-plaque structures. The short scan-time eliminates influence from the patient's heartbeat.

## TOSHIBA CT CHARACTERISTICS

Each CT has its own unique characteristics, features and focus to meet your demanding needs and expectations.

Nevertheless, we want to reassure you that each manufactured Toshiba CT guarantees ease of use, excellent image quality at the lowest possible dose! The uniform and strict working methods together with the outstanding characteristics of our CTs form the basis for that.



THE ABILITY TO PERFORM SUB-MILLIMETER SCANS FOR ANY PART OF THE BODY WITH LOW RADIATION AND CONTRAST DOSE.

So regardless of the procedure, you are always assured of acquiring superior diagnostic images without comprising quality of patient safety. 0.5 mm detector elements are the thinnest in the industry. The industry's best low contrast resolution creates consistent soft tissue imaging at the lowest possible dose. Uniform image quality is achieved by ultra high 350 micron isotropic resolution.

ACQUIRE DATA AS PRECISE AS POSSIBLE

AND EVALUATE AS EFFICIENTLY AS POSSIBLE.

- Uniform operating concept for intuitive safe handling and optimized workflow
- 0.5 x 0.5 mm market's smallest detector elements for the superior resolution
- 0.35 x 0.35 x 0.35 mm isotropic voxel size for highly detailed representation even in the smallest structures
- Market's best low contrast of 2mm @ 3 HU for the detection and differentiation of the smallest differences in density (liver , kidney , brain , plaque quantification , ...)
- Up to 200 cm scan range optimized for patient access and patient comfort, particularly for trauma , intensive care and full-body examinations
- Artifact-free images helical scan with up to 30 ° gantry tilt to avoid exposure to the eye-lenses in studies of the head
- CT examinations with the dose of a conventional X-ray, e.g. for pneumonia cases, nodules and kidney stones
- Safe 3D image-guided interventions thru real-time three -layer fluoroscopy at 12 frames per second.
- 16 bit image depth for better visibility of differentiated anatomical structures

