TOSHIBA

Product Data
No. MPDCT0290EA

Multislice HELICAL CT SCANNER



APPLICATION

Activion**16 is a 16-slice Helical CT system that supports whole-body scanning.

The system generates a minimum of 32 slices per 1.5 seconds using the Selectable Slice-thickness Multirow Detector (SSMD).

In addition, the high-speed rotation mechanism and the fast reconstruction unit of the system allow quick image acquisition to further improve throughput in CT examinations.

FEATURES

Multislice detector

Detection elements with high-power and uniform output characteristics enable a minimum slice thickness of 0.5 mm, and accurate isotropic data can be acquired. The adoption of the SSMD method means that highspeed as well as high-resolution scanning are support-

The minimum slice thickness is reduced to 0.5 mm, making it possible to select the desired slice image for scanning from among 0.5 mm, 1 mm, 2 mm, 3 mm, 4 mm, and 5 mm, depending on purpose.

High-speed scan

Data for 16 slices can be acquired simultaneously in each scan. For example, scanning of the lung fields over a range of 30 cm at a slice thickness of 1 mm can be completed in 10 seconds or less.

Since the acquisition is completed in a short period of time, this obviously alleviates the burden on the patient, but also improves throughput by eliminating the need to wait for the X-ray tube to cool down.

High-quality images

be obtained.

It is now possible to use thin-slice helical scanning for routine examinations. Based on high-resolution voxel data, smooth and finely-detailed 3D and MPR images can be obtained with the same size in the X, Y, and Z directions (isotropic). In CT cerebral angiography, for example, scanning over a range of 40 mm at a slice thickness of 0.5 mm can be completed in 4 seconds and image processing (such as 3D, MPR, or tomographic image processing) can be performed for a single volume acquisition dataset through simple operations. In addition, by stacking the data acquired using thin slices, images with reduced partial volume effects can

Outstanding operability

Operability is improved as described below.

- In 3D image processing or time-consuming image processing such as for regions in which calcified areas are superimposed on contrast medium, bone elimination can be performed easily while observing reference images.
- Most 3D images can be generated using the optimal conditions by simply selecting an appropriate preset icon.

Selectable image slice thickness

It is possible to acquire the data for routine examination, detailed examination and to generate 3D images in a single scan.

For example, by performing a helical scan with a 0.5-mm slice thickness, it is possible to generate images at various slice thicknesses from the same data, such as 10-mm slice images for routine examinations, 5-mm slice images for detailed examinations, and 0.5-mm slice images for generating 3D images. It is also possible to set the image slice thickness with multiple ranges. For example, by performing a helical scan of the head with a 0.5-mm slice thickness, it is possible to generate images with optimal slice thickness for each region in a single reconstruction, such as 5.0-mm slice images for the cranial base as well as 10-mm slice images for the cerebral parenchyma.

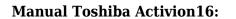
Exposure reduction

This system incorporates the quantum denoising software (ODS) as a standard function, which is effective for reducing patient exposure.

The QDS is an adaptive filter that can recognize reconstructed objects. It can perform sharp filter processing for regions where the degree of change is high, such as tissue borders; and smooth processing for regions where the degree of change is low (close to uniform). This makes it possible to further improve the quality of images acquired using normal dosages, and improves the quality of images acquired with small dosages to an image quality level obtained with normal dosages. As a result, it is possible to reduce the exposure dose for the patient, since the scanning can be performed using the optimal dose for the expected image quality.

Manual Toshiba Activion16

M Lipman



Unveiling the Magic of Words: A Report on "Manual Toshiba Activion16"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually aweinspiring. Enter the realm of "Manual Toshiba Activion16," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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