

# TOSHIBA

Leading Innovation >>>

## MAIN SYSTEM SPECIFICATIONS

Maximum number of slices	160 slices/rotation
Fastest rotation time	0.35 s
Maximum generator power	72 kW
X-ray tube unit heat capacity	7.5 MHU
Gantry bore	78 cm
Reconstruction speed	Up to 60 fps* with AIDR 3D
Low contrast resolution	2 mm @ 0.3%

\* Option

## APPLICATIONS (OPTIONS)

- Shuttle Helical Scan System
- Brain Perfusion
- CBP Study
- ECG Gated Scan System
- SURECardio™ Scoring
- SUREPlaque™
- Cardiac Function Analysis
- SURESubtraction™
- vHP (variable Helical Pitch)
- Vessel View
- Lung Volume Analysis
- Body Perfusion
- Colon View
- Dual Energy System
- Fat Index View



**TOSHIBA MEDICAL SYSTEMS CORPORATION**

<http://www.toshibamedicalsystems.com>

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Design and specifications subject to change without notice.  
Model number: TSX-303A MCACT0240EA 2013-02 TME/D

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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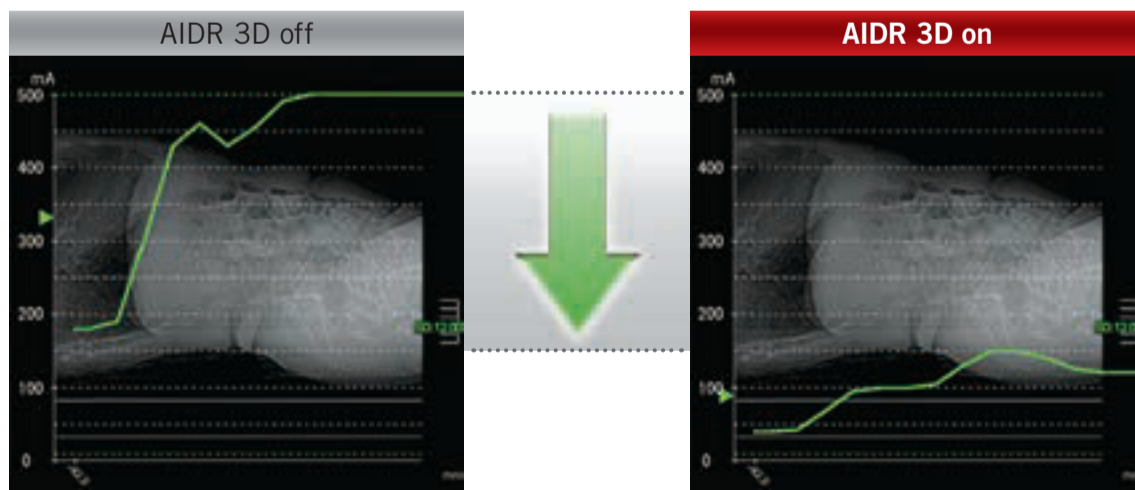
# High-end CT system for your clinical needs today and in the future

Aquilion™ PRIME incorporates cutting-edge technologies designed to meet your current and future clinical needs. Innovative features ensure that high-quality images for best possible diagnosis are routinely acquired with lowest possible patient dose. The workflow is streamlined increasing your patient throughput and reducing waiting times.

## INTEGRATED DOSE REDUCTION

Minimization of the radiation dose is a high priority for all medical imaging practitioners. The dose has to be adjusted appropriately according to the size and shape of each patient. Automatic exposure control systems have proven to be useful in doing this while maintaining diagnostic image quality.

Toshiba's SUREExposure™ 3D adaptive exposure control system is fully integrated into the imaging chain and can therefore calculate the minimum radiation exposure required for each examination of each patient. With the inclusion of Adaptive Iterative Dose Reduction 3D (AIDR 3D) in the scan protocol, the exposure dose is automatically reduced by up to 75% relative to that in a scan performed with traditional filtered back-projection reconstruction.

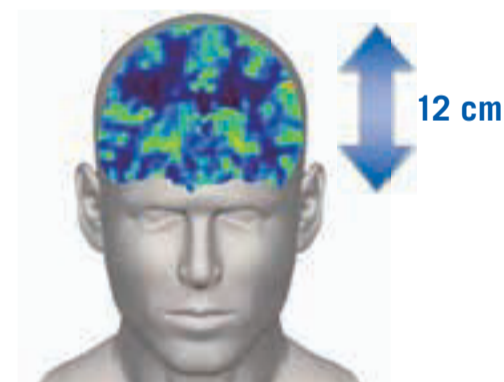


For a dose reduction technology to be truly useful in clinical practice, it must be fast enough to fit into busy workflow schedules. AIDR 3D reconstruction has therefore been systematically optimized to guarantee maximum on patient throughput. As a result, advanced iterative reconstruction with AIDR 3D can be used for every patient and every scan.



## SHUTTLE HELICAL SCANNING\*

Multiphase shuttle helical scanning can be used to acquire dynamic volume data in whole-brain perfusion studies\*. The analysis software performs 3D perfusion processing and 3D CT DSA using the same scan data.



## LARGE BORE GANTRY WITH TECH ASSISTED LATERAL SLIDE

The Aquilion PRIME gantry has a 780 mm aperture, the largest available in a high-end CT system, for greater patient comfort. The unique patient couch is accurate even with a load of 300 kg, and is the most comfortable couch on the market with the technology assisted couch-top lateral sliding feature\*. Patient positioning has never been easier.

