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

PRIME
Aquilion

Made for Life™

TOSHIBA MEDICAL SYSTEMS CORPORATION

http://www.toshibamedicalsystems.com

PRIME Aquilion

# 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 ᔕᵁᴿᴱExposure™ 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.
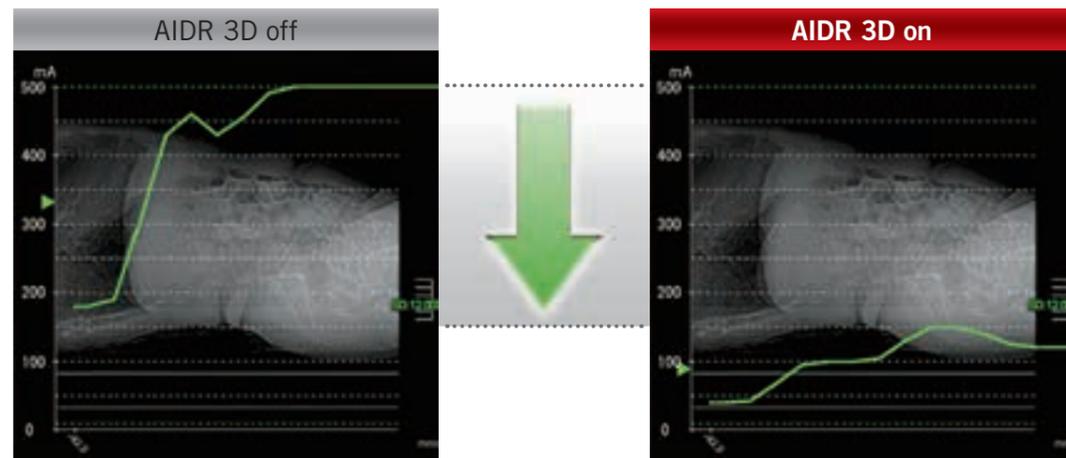

For a dose reduction technology to be truly useful in clinical practice, it must be fast enough to fit into busy workflow schedules. AIDR 3D reconstruction has therefore been systematically optimized to guarantee maximum on patient throughput. As a result, advanced iterative reconstruction with AIDR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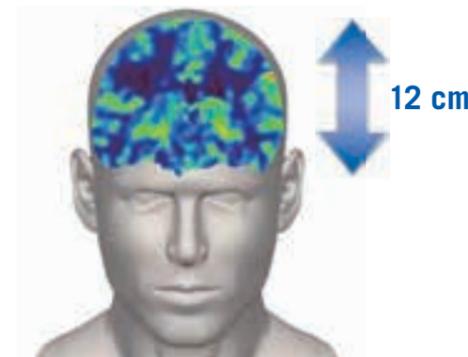

LARGE BORE GANTRY WITH TECH ASSIST LATERAL SLIDE

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

ULTRA FAST HELICAL SCANNING

Routine 0.35 second ultra fast helical scanning with 80 detector rows ensures fast examinations with dramatically reduced motion effects. Advanced reconstruction algorithms produce artifact-free images with outstanding clarity.
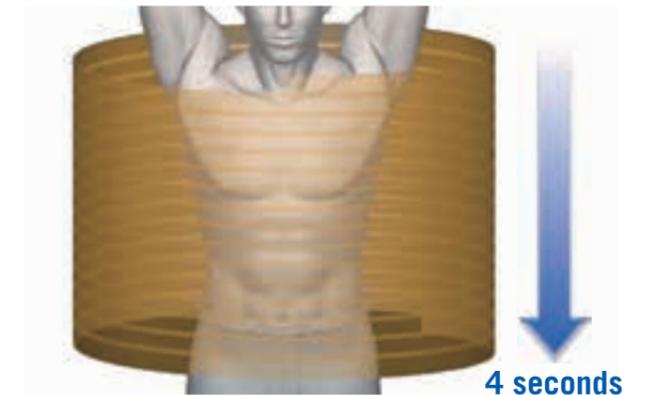
SMALL INSTALLATION SPACE

Innovative redesigning of Aquilion PRIME has reduced the required installation area to just 14.8 m²**. This high-end multislice CT system has been made compact enough to meet even the most restrictive siting requirements.

* Option
** Short couch version