



Aquilion 16 First Look:

- High speed scanning
- Long scanning range
- Excellent image quality
- Advance image reconstruction technology
- Tilt helical scanning
- Sure-fluro™(option)
- Upgradability(0.4 sec scanning option)
- High patient throughput

Features Of The Aquilion 16:

- Min 0.5 mm slice width
- Three slice-width combinations: 16 x 0.5, 16 x 1, and 16 x 2 mm
- Low-contrast resolution of 2 mm at 0.3% and
High-contrast resolution of 0.35 mm
- Large aperture - 720mm
- Extra-wide patient couch
- High-frequency X-ray generator
- High-heat-capacity X-ray tube
- Volume image processor
- Patient positioning accessories
- Image reconstruction at 12 frames per second
- Volume Viewing automatic image reconstruction

Performance Specification:

Technical Specification

X-Ray Tube :

- Heat storage: 7.5 MHU
- Heat dissipation rate: 1386 KHU/min MAX
- Tube cooling: Oil/air
- Tube focal spot: 1.6 x 1.4, 0.9 x 0.8 mm
(IEC standard)

Generator :

- Output: 60 kW
- Kvp range: 80, 100, 120, 135
- mA range: 10-500 mA in 10 mA steps

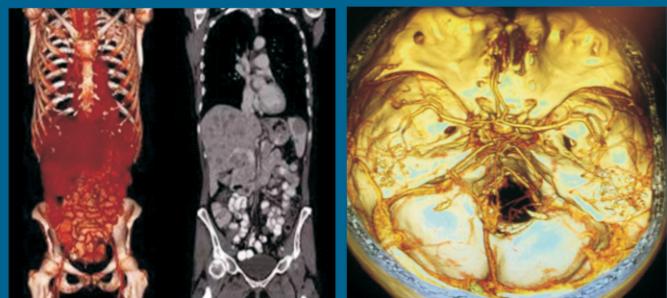
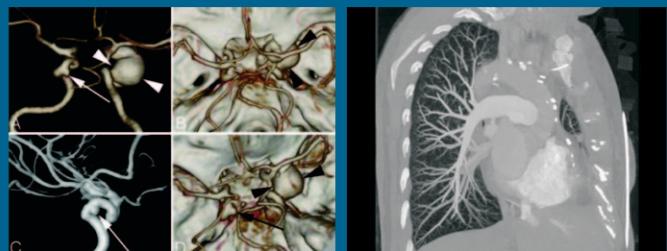
X-ray Detection System:

- **Detection system:** Solid State detector
- **Main detector:** 896 channels x 40 elements
- **Data acquisition :** 896 channels x 16 rows
- Scan time: Partial: 0.32; Optional 0.25
- Slice thickness: 0.5, 1, 2 mm (all x 16);
0.5, 1, 2, 3, 4, 5, 8 mm (all x 4)



Image Processing:

- Measurement of distance and angle between two points
- Histogram
- CT number display
- Mark display (Grid display, Scale display)
- Volume calculation
- Enlargement, reduction, panning
- Band display (Non-linear windowing)
- Comment and arrow insertion
- Image filtering
- Image rotation (Arbitrary rotation)
- Screen save
- High-speed axial interpolation
- Quantum Denoising Software (QDS)



3D Color Image Processing:

- 3D surface rendering
 - 1.Clipping, texture or non-texture
- 3D volume rendering
 - 1.Max-IP and Min-IP
 - 2.X-ray volume rendering
 - 3.Shaded volume rendering
 - 4.Zooming, panning, annotation, cutting, drilling
- Cine display
- 3-orthogonal planes/oblique/curved MPR
- Easy accurate bone elimination function
- High resolution mode

Other Clinical Capabilities

- Cerebral blood-flow analysis system
- Quantitive bone mineral analysis
- CT fluoro
- Full DICOM feature set
- Pediatric scanning
- SureStart contrast tracking
- SureScan real-time imaging
- Volume rendered 3-D
- ECG gating
- Cardiac scoring
- Cardiac function analysis
- Angiography procedure



- Lower limb and upper limb angiography
- Brain angiography
- Renal angiography
- Coronary and pulmonary angiography
- Ct flythrough virtual endoscopy(optional)