TOSHIBA

Activion 16 First Look :

- Multislice Detector
- High-speed scan
- High-quality images
- Outstanding operability
- Selectable image slice thickness
- Exposure reduction
- Sure- Fluro for biopsy and interventional procedure
- Tilt Helical scanning

Performance Specification:

- **Scan region :**Whole body , Including head
- **Scan system:** 360 degree continues rotate
- **Scan time :**0.48 s(partial) , 0.75 s,1 s, 1.5 s,2 s and 3s
  CT scanfield :ϕ 180mm(SS) , ϕ 240mm(S) , ϕ 320mm(M) , ϕ 309mm(L) , ϕ 500mm(LL)
  scan mode: S&S , S&V,Helical ,GG-Helical , GR-Helical , Dynamic , SURE Start
- **Slice thickness :** 0.5 , 1 , 2 , 3 , 4 and 5 mm
- **Gantry tilt angle :** From forward 30° to backward 30°(in 0.5° increment)
- **Gantry aperture :** 720 mm in diameter
- **Continuous scan time:** Max. 100s
- **Real time helical reconstruction time:** 12 images/s(0.083 s/image)
- **Reconstruction mode:** Full image, Half image, Detail image
- **Scan rate:** Max. 133 scans/100s

X-Ray Generation:

- **X-ray exposure :** Continues
- **X-ray tube voltage:** 80 ,100 ,120 ,135 KV
- **X-ray tube current :** 10 mA to 300 mA (step of 10 mA)
- **X-ray tube heating capacity :** 4.0 MHU
- **X-ray tube cooling rate :** 864 KHU/min

X-Ray Detection:

- **Detection system :** Solid-state detectors
- **Main detector :** 800 chennals x 28 elements
- **Data acquisition :**800 channels x 16 rows
- **Acquisition (16-rows):** 0.5mm x 16 rows, 1mm x 16 rows , 2mm x 16 rows

Reconstruction Filter Functions:

- Functions for brain and abdomen
- Functions for inner ear and bone
- Functions for lung
- Functions for super resolution mode for the inner ear, bone and lung



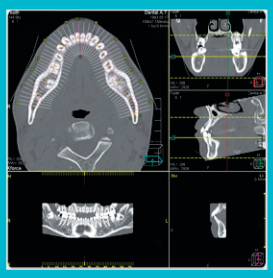
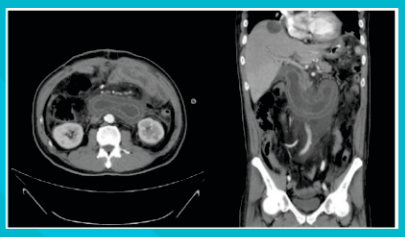
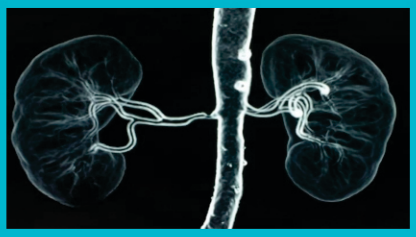
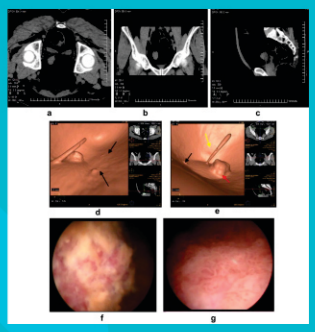

Image Processing:

- Slice position display
- Enlargement of scanogram
- ROI setting and processing
- Measurement of distance and angle between two point
- CT number display
- Volume calculation
- Addition/substraction between images
- Screen save
- Multi view(auto MPR)
- Boost 3D™
- Zooming reconstruction
- Auto filming in exam plans

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
- Angiography procedure
  1. Lower limb and upper limb angiography
  2. Brain angiography
  3. Renal angiography
  4. Coronary and pulmonary angiography
  5. Ct flythrough virtual endoscopy(optional)

Power Requiremnets

- 200 VAC 3-phase (75 KVA Max)
- Room Temperature: 20°c -26°c
- Frequency : 50 Hz or 60 Hz ±0.5 Hz