



## Asteion Super-4 First Look:

- High-speed scanning
- Long scanning range
- Guided mode
- Exposure dose reduction
- Excellent image quality
- Tilt helical scanning
- High patient throughput
- Improvements in image analysis functions
- Multislice CT fluoroscopy (option)

## Performance Specification:

### SCAN PARAMETERS:

- **Scan region :** Whole body , Including head
- **Scan system:** 360 degree continues rotate/rotate
- **Scan field :** 480 mm max.
- **Scan time :** 0.75,1 , 1.5 ,2 and 3s
- **CT scan field :**  $\phi$  180mm(SS) ,  $\phi$  240mm(S) ,  $\phi$  320mm(M) ,  $\phi$  309mm(L) ,  $\phi$  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 :** 700 mm in diameter
- **Scan rate:** Max. 133 scans/100s

### X-RAY GENERATION:

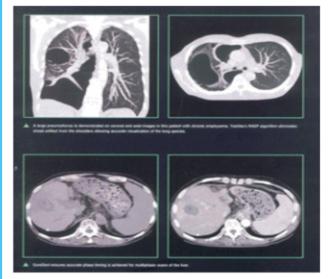
- **X-ray exposure :** Continues
- **X-ray tube voltage:** 80 ,100 ,120 ,135 KV
- **X-ray tube current :** 10 mA to 300 mA (step of 10 mA)
- **X-ray tube heating capacity :** 4.0 MHU
- **X-ray tube cooling rate:** Max. 864 KHU/min
- **Max. power:** 42 KW

### X-RAY DETECTION:

- **Detection system :** Solid-state detectors
- **Main detector :** 896chennals x 22 elements
- **Data acquisition :** 788 channels x 4 rows
- **Acquisition ( 4-rows ):**  
0.5mm x 4 rows, 1mm x 4 rows ,  
2mm x 4 rows, 3mm x 4 rows,  
4mm x 4 rows, 5mm x 4 rows

## **RECONSTRUCTION UNIT:**

- **Image recon. Time :** Min. 0.25s time
- **Central processing unit :** 32-bit processor x 1
- **Memory size :** (1) Row data – 36 GB  
(2) Image data- 16000 images



## **Clinical Features:**

### **1. 3D COLOR IMAGE PROCESSING:**

- 3D surface rendering
- 3D volume rendering (Max-IP & Min-IP)
- Cine display
- MPR-3 orthogonal planes/oblique image Curved MPR
- Display/processing function -Zooming, panning, measurement (distance, angle),annotation, cutting, Drilling



### **2. Cerebral blood-flow analysis system**

### **3. Quantitative bone mineral study system**

### **4. Display system for dental application**

### **5. FlyThrough software (OPTIONAL)**

### **6. Multislice CT fluoroscopy (OPTIONAL)**

### **7. Color printer interface**

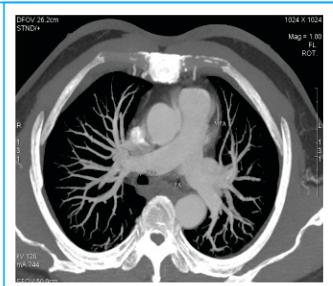
### **8. Pediatric scanning system**

### **9. ECG-gated scanning system**

### **10. Auto filming in exam Plans**

### **11. Angiography technique:**

- Lower limb and upper limb angiography
- Renal angiography
- Pulmonary angiography



## **Power Requirements:**

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

