

## Alexion-16 First Look:

Alexion is designed with the latest hardware, software, and reconstruction technologies to keep pace with your busy workload. AIDR can be applied to all acquisition modes for routine clinical use and is able to eliminate up to 50% of image noise, resulting in a dose reduction of up to 75%.

- Multislice Detector
- Advance visualization
- AIDR Technology
- Advance helical scanning
- Fast reconstruction
- Naviagation mode for operators
- Desire advance 3D and post-processing application

## Performance Specificaion:

### 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 :<sup>†</sup> 180mm(SS) ,<sup>‡</sup> 240mm(S) ,<sup>‡</sup> 320mm(M) ,<sup>‡</sup> 309mm(L) ,<sup>‡</sup> 500mm(LL)
- Scan mode: S&S , S&V,Helical ,GG-Helical , GR-Helical , Dynamic , SURE Start
- Slice thickness : 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

### X-RAY GENERATION:

- X-ray exposure : Continues
- X-ray tube voltage: 80 ,100 ,120 ,135 KV
- X-ray tube current : 10 mA to 200 mA (step of 10 mA)
- X-ray tube heating capacity : 2.0 MHU/ 3.5 MHU

### X-RAY DETECTION:

- Detection system : Solid-state detectors
- Main detector : 896chennals x 40 elements
- Data acquisition :788 channels x 16 rows
- Acquisition ( 16-rows ): 0.5mm x 16 rows,  
1mm x 16 rows , 2mm x 16 rows, 3mm  
x 16 4mm x 16 rows, 5mm x 16 rows

### RECONSTRUCTION UNIT:

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

## Other Clinical Features:

### 3D COLOR IMAGE PROCESSING:

- 3D surface rendering
- 3D volume rendering (Max-IP & Min-IP)
- AIDR 3D(Adaptive Iterative Dose Reduction 3D)
- Sure Exposure 3D
- Boost 3D
- Cine display
- MPR and Curved MPR

### ADVANCE 3D FEATURES:

- Lung volume analysis
- Colon view
- Fat index view
- Sure-subtraction of intra-cranial vessels from bone
- Lower limb and upper limb angiography
- Brain angiography
- Renal angiography
- Coronary and pulmonary angiography
- Ct flythrough virtual endoscopy(optional)

### POWER REQUIREMENTS:

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

