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## WORLD LEADING GANTRY TECHNOLOGY

• Higher Rotation Speed

0

- Faster Dynamic Response
- Smaller in Dimension & Weight

## HIGHLY INTEGRATED DATA ACQUISITION SYSTEM

- Number of Detectors per Row 896
- Number of Detector Units 21504
- Minimum Slice Thickness 0.625mm

# PERFECT X-RAY GENERATOR SYSTEM

- Power of Generator 60kW
- Tube kVp Range 80-140Kv
- Tube mA Range 10-500mA

## Cytom 16 Multi-slice ultra-fast CT scanner

The Cytom 16 is a multi-slice ultra-fast CT scanner with PowerLink Non-Contact Power Technology. PowerLink eliminates limitations of today's rotating gantry systems providing highest reliability CT power system, no need slip ring at lower cost.



## NON-CONTACT SLIP-RING DESIGN

#### Innovative PowerLink<sup>™</sup> Gantry Technology

- Never attrited and non-contact slip ring design
- Full integration in data communication and transmission
- Integrated control in gantry rotation



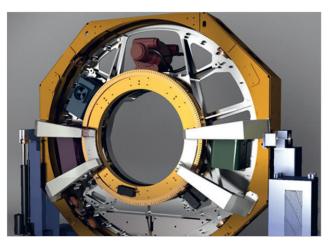
## **ADVANTAGE OF AUTO-DOSE**

Tube current is automatically controlled according to the features of organs to reduce the radiation dose effectively on the basis of ensuring images quality.



## **TECHNOLOGY OF LOW-DOSE**

It is the latest and advanced technology for reducing dose, which can ensure high clinical image quality with large does reduction to the patient, even under the condition of 60%~70% normal dose.



## **MINIMUM MAINTENANCE COSTS**

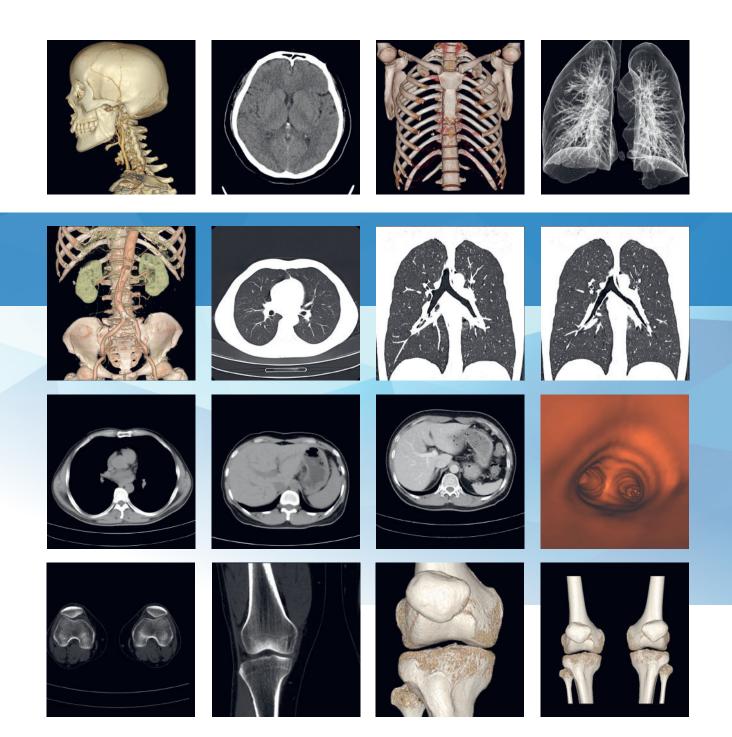
- Lower dose, lower consumption
- Non-contact power transfer, without carbon brush consumption
- Reduced downtime

### OUTSTANDING CLINICAL IMAGES

Head: Conventional, Paranasal Sinus, MPR, SSD, VR, CTA, HD Inner Ear Cervical Vertebra: Conventional, MPR, VR, CTA Chest: Conventional(Lung Window, Mediastinal Window), MPR, VR, MinIP

Abdomen: Conventional, Enhancements Phases), MPR, VR, CTA Extremities and Joints: Conventional, MPR, VR





## **APPLICATION PACKAGES**

#### 3D image reconstruction:

Include VRT, MPR, CPR, SSD, Simulated scalpel, Virtual endoscope, CTA Remove bone, CTA subtraction, etc.

#### **Tissue fluoro**

Combine 2D and 3D Image; Multi-Date field fusion for observation; Read a slice on any angles; Automatic push functions can reduce operation and improve speed

#### **Tissue element analysis**

Make extraction and analysis of the tissue within the organ, giving quantitative analysis for the estimate of diagnose\treatment\treatment effect

#### **CT** vessel analysis

After CTA subtraction or bone removal, make vessel straighten analysis, virtual endoscope, plaque analysis, virtual stent and so one, including head and neck, thoraco-abdominal, limbs and other parts.

#### **CT** perfusion analysis

According to the analysis of the dynamics of blood, detect the patholo-gical field before the morphological changes occur. Multiple Perfusion Models including CT Head Model, CT Body Model, CT Liver Model; providing various para-meters for analysis, including BF, BV, MTT, TTP, tMIP, PS, etc.

#### CT coronary artery analysis

Mainly focus on cardiac CTA analysis, including One-key heart 3D reconstruction, panoramic view of heart, stenosis analysis, plaques analysis, vessel straighten analysis, broken branch and CTO reconstruction, Heart display as a globe, virtual stents placement and measurement Automatic analysis and manual correction are both available.

#### CT calcium score analysis

According to calcium score, evaluate the quality of the coronary and give quantitative analysis of the calcium volume, CT value to assist diagnosis.

#### CT heart function evaluation

Dynamic play and AVI storage of the cardiac motion; automatically calculate the parameters of the cardiac function, such as Ejection Fraction, End.Sys.Vol, End.Dia.Vol, ventricular wall movement, ventricular wall thickness, etc.

#### CT Bone mineral density analysis

Calculate and display the bone mineral density of the ROI. TScore and ZScore can be automatically calculated or self defined analysis. Mineral density analysis report is created by one key. Images of mineral density measurement and analysis are saved as DICOM.

#### CT spine extraction and analysis

Whole spine is segmented automatically. Offer Segmental analysis, auto-name, virtual multi-dimensional X-ray images, one-key multiple slices printing, etc. Spine diagnosis becomes quite efficient.

#### **CT** rib analysis

Auto-analysis of the rib. One-key segmentation of the target rib, display 3D view and CPR. Full analysis of the rib makes the diagnosis quite efficient.

#### **CT** colon analysis

Forward path and backward path of virtual colonoscope, self-navigation, colon unfolding display to help doctor to observe the inner side. Auto segmentation of analysis of the interested colon segment and mark the lesion.Various measurement parameters for the lesion are provided.

#### CT lung nubble analysis

Analysis of the suspected lesion within the lung. Automatic lung extraction and manual extraction are both available. Nubble volume measurement, evaluate the nubble size changes through time, assist to qualitatively determine the nubble. In addition, various parameters are provided, including volume, CT value, component analysis, curves, etc.

#### CT pulmonary edema analysis

Calculate the volume of ROI, water volume, water weight, density in the lung CT image, display the ROI analysis result in the list. Assist the pulmonary edema diagnosis.

#### **CT lung analysis**

One-key to segment the airway and left/right lung with pseudo color processing;Quantitative and qualitative analysis of the lung.

#### **CT lung markings analysis**

Auto-segmentation of the whole lung;For the lung nubble, generate the voxel analysis curve and data form.

#### Advanced dental radiological analysis function

Dental full view and sectional view, provide various measurements, assist dental diagnosis and to make operation plans.

#### CTU

Urological imaging analysis

#### **CT** liver analysis

Auxiliary to develop operation plan based on CT images; image processing includes liver segment, extracting blood vessels, liver surgery simulation

#### CT abdominal panoramic reconstruction

Based on contrast-enhanced CT abdomen images, offers 3D reconstruction, tissue extraction with the fusion display, reconstruction of the abdomen panorama, better diagnosis and operation programming.

## TECHNICAL SPECIFICATIONS Cytom 16 | SternMed multi-slice ultra-fast CT Scanner

DATA ACQUISITION SYSTEMDetector Spec21504 UNIT/24 ROWSScan vision500 mmScanning TypeAxial, Dynamic, Spiral, PositioningReconstruction Matrix512 x 512X-RAY HIGH VOLTAGE GEN.X-RAY HIGH VOLTAGE GEN.Max. output power60 KwMax. Output mA500 mAHigh Voltage Output Range80, 100, 120, 140 KvX-RAY TUBE COMPONENTAnode thermal capacityAnode thermal capacity5.0 MHUEffective thermal capacity5.0 MHUFocus sizeS: 0.5 x 1.0 mmL: 1.0 x 1.0 mmL: 1.0 x 1.0 mmTube Focus TechnologyDynamicTube VoltageJuba X200Tube Current24"Monitor24"Monitor Resolution1920 x 1200Image Matrix776 x 776SPIRAL SCANNING PARAMETERSHelical Pitches0.5, 1.0, 1.5Continus Spiral Scan time120 sScanning range>160 CmIMAGE STORAGE AND ARCHIVINGDICOMDICOM 3.0WORKING & ENVIRONMENT CNDITIONSExam room temperature20 ~ 26 °CControl room temperature18 ~ 28 °CExam room humidity30 ~ 70 %Control room humidity20 - 80%
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Exam room humidity30 ~ 70 %Control room humidity20 - 80%
Control room humidity 20 - 80%
Atmospheric pressure 700 ~ 1060 hPa
POWER CONDITIONS
nominal Voltage 3N ~ 380 V
Nominal frequency 50 Hz
Power Capacity 115 kVA
SYSTEM PERFORMANCE
Image Noise >0.29% ( 28 mGy )
Water Uniformity of CT $\pm$ 3 HU
Accuracy of CT Air : -1000 HU $\pm$ 10 HU
Water : ± 3HU
High Contrast Resolution17.51 p/cm@0%MTF
131 p/cm@10%MTF
101 p/cm@50%MTF
101 p/cm@50%MTF   Lower Contrast Resolution 3.0mm@0.3% ( 30mGy)   Artifacts No in phantom CT Image

SCAN TIME	
	Avial: 0 5c 0 8c 1c 2c
Scanning time range	Axial: 0.5s, 0.8s, 1s, 2s
May Cantingua Canadian time	Spiral: 0.5s, 0.8s, 1s
Max. Continous Scanning time	> 120s
Image reconstruction time	40 images/s
Slice Thickness	0.625, 1.25, 2.5, 5.0, 10 mm
Axial & Spiral Scan	>2mm Thickness : ± 1.0 mm
Deviation of measured	<2mm Thickness : ± 50%
and Nominal	
GANTRY	
Gantry tilt	Front & Back tilt function
	Tilt Angle indicator
Tilt angle capability	$\pm$ 30° - Deviation < $\pm$ 2°
	H & V position laser light ind.
Laser Positioning Accuracy	± 1 mm
Tube Position for Scanning	0° , 90° , 180° and 270°
Gantry Aperture	>700 mm
( Openning Diameter )	
EXAMINATION TABLE	
Highest Adjusment range	>350 mm
Horizantal movement range	>1600 mm
Scanning range	>1600 mm
Step Accuracy	$< \pm 0.25 \text{ mm}$
Table Load	< 240 Kg
Operating Noise	< 70 dB
X-RAY GENERATOR DEVICE	
Voltage Regulation range	80, 100, 120 & 140 kv four gears
and accuracy	-
Voltage Deviation	± 5%
Current adjusment range	10mA ~ 500mA
and accuracy	
Increment steps	10mA
Current Deviation	± 20%
Max. Scan layer / single scan	16
SOFTWARE FUNCTIONS	
	Check Patients
	Patient Information Management
	Image viewing and analysis
	5 5 ,
	Image type setting and printing DICOM communucation interface
	Scanning Protocol management
	Task queue management
	Enhanced Scanning
	Noise Reduction Package
	Automatic speech function
	Log Management



**STERNMED**<sup>®</sup>

