TERRENE
CT SCANNER

Computed Tomography

Gantry

Aperture: 72cm/27.6 inch in diameter

0.75s high-speed gantry frame

Advanced gantry rotation disk with 12 times safety factor

5Gbits/s data transfer slip-ring

Digital gantry tilting technique, digital tilt capability: 350 degree

Standard gantry covers.

Laser light marker: Coronal, sagittal, transversal laser light showing the isocenter position of the scan plane with positioning accuracy of 2mm.

12.1" integrated display panel: gantry front display showing scan parameters, etc.

Breath-hold indicator : LED pixel screen and breath in/breath hold voice prompt

Gantry control panels: Patient table in/out, laser light makers on/off, scan start/end, patient table unlock, etc.

Tube Assembly

Brand: VAREX IMAGINGTM

Heat storage capacity 2.0MHU

Tube focal spot size, large: 1.2mm×1.4mm×small: 0.7mm×0.8mm

Tube anode Heat Dissipation: 336kHU/min

Tube cooling unit: air/oil combined cooling

High voltage generator
(it will not shipped with gantry）

Max. power: 32kW

Tube voltage range: 70kV, 80 kV, 100 kV, 120 kV and 140kV

Tube current range: 10mA~300mA

Detector unit and collimator

New generation OptiWaveTM CT detector

Number of detector rows: 24

Width of detector Z-axis: 17.6 mm

Detector columns of channels per row: 832

Total number of effective detector columns: 19,968

Collimator: 2 bowties selectable with 3 collimation width selectable and focal spot tracking

Patient table

Maximum patient weight: 180kg

Table horizontal-scannable range: 1600mm

Maximum horizontal-movable range: 1200mm

Patient table accessories: head holder, mattress, IV pole etc.

OC workstation

Main computer
CPU clock rate: 3.0 GHz
RAM storage: 32 GB
Storage of hard-disk: 256G SSD + 2 TB×2
Graphics card: 6 GB
24 inch LCD monitor, resolution: 1920×1200
DVD driver: Write-RW/+RW/-DL/Read
Network interface: 1000M network card
Standard keyboard and mouse
Speed of image reconstruction: 30fps
CT operation box
Operation console
High-backed chair

Power unit

Power distribution unit: max. power supply 65kVA, with over-current and over-voltage
protection, remote and one-click power on/off.
UPS max. power supply: 1kV

Others

Power cable: from power connection box to PDU
Connection cables

ClearVIEW Computer Tomography system software

Powerful system software, using pre-set scan protocols for TOPO scan, routine TOMO scan, helical scan and enhancement scan. Functions include patient registration, scan image display, image transmission, film printing and generating scan report, etc.

3D image post-processing software and technique

Multi-planar reconstruction（MPR）
Curve multi-planar reconstruction
Surface shaded display（SSD）
Volume rendering（VR）
Maximum intensity projection（MIP）
Minimum intensity projection（MinIP）
Virtual endoscopy（VE）
Computed Tomography angiography（CTA）
Tissue segmentation technique
Bone removal software (One click bone removal etc.)
Automated patient table removal
Bolus-tracking Technique
Image cine display

Advanced image artifact suppression/removal

Low dose scanning software and imaging technique

Advanced image enhancement software and imaging technique

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The enhanced designed of the CT Injectors are lightweight & flexible which save time and effort. Suitable for both A & B capacities making it ideal for Adult as well as Children's CT Enhancement & Angiography.

Staged injections ensure optimal CT results; Rich input and output interfaces can be linked with various CT models; 150cm connecting tube can secure continuous injection during the scanning process.

Dual consoles respectively for scanning room and operating room

100 sets of default injection programs – ease of modification

'Air exhaust' confirmation button ensures the safety of the injection

Injecting interruption function handles emergency situations flexibly

InjeCT - Single

Specifications

Barrel Capacity	-	200ml
Injection Volume	-	1 - 200ml
Flow Rate	-	0.1-10ml/s (increment 0.1ml/s)
Interval Time	-	0-600s
Delay Time	-	0-600s
Default Programs	-	100 sets
Phases	-	1-8
Pressure Limit	-	100psi, 150psi, 200psi, 250psi, 300psi
Power	-	220VAC±10%/50Hz±1Hz

Signal output interface provided, can be used with various types of CT scanners

InjeCT - Dual

- Ease of Operation
- Large Touch Screen
- Large Volume Syringe
- Interactive Interface
- 100 sets of default injection programs
- Exhaust indicator light
- Acousto-optic Alarm