

Insitum 64S

Confidence for your clinical performance Large

Large Aperture	76cm
High heat capacity	5.3 MHu
High power rate	50kW
High Definition	64 slice @360°
High resolution	20Lp/cm @cut off
High Load capacity	250kg
Large scan range	1850mm
Rotation speed	0.5 second@360°

Gantry System

Gantry Aperture: 76cm

Gantry Tilt: +/-30° (1°/second)

Scan FOV: 50cm

Rotation speed (@360°) : 0.5sec, 0.6sec,

0.7sec, 0.8sec, 1.0sec, 2.0sec

Focus to detector Distance: 1015mm

ISO Center to Focal Spot Distance: 1012mm

Laser Localizer :

3D localizer laser lamp

Axial position accuracy: ≤1 mm

Coronal and Sagittal position accuracy: ≤ 2mm

Multifunction LCD touch screen.

Patient Table

Table board width: 42cm

Table load capacity : 250kg

Max. range of horizontal movement : 1950mm

Position accuracy: ± 0.25 mm

Horizontal movement speed: 5 mm/s -150 mm/s

Vertical Movement Range : 565mm

Min. table height: 425mm

Control mode: remote and operation panel

Remote control speed: 40mm/s

Operation control speed: 20mm/s and 150mm/s

Operation console

CPU: Intel Xeon 4 cores , 3.5GHz

Memory: DDR4 ECC 32GB

Hard disk capacity : 5TB

Image storage capacity : up to 1,600,000

DVD-RW Driver

USB Interface Driver

Monitor display : 24" LCD

Display matrix: 1024x1024

X-Ray Tube

Designed for long tube life with no tube cooling delay

Anode heat capacity: 5.3MHU

Max, anode heat dissipation Rate : 815 kHU/min

Focal Spots size:

1.0mm x 1.0mm (large)

0.5mm x 1.0mm (small)

Support Dynamic Focal Spot (DFS) to remove motion artifact.

Generator

Max. Output: 50kw

MA range: 10mA-420mA

kV range:80kV/100KV/120kV/140KV

Continuous scan time : 100sec



Detector system

Detector material : GOS solid state
Detector rows: 32
Detector channel: 27648
Effective channels : 55296 with DFS
Slice thickness: 0.625mm
Detector width: 20mm
Data transfer rate : 4.25 Gbps
Data sampling rate : 4606 Views/rotation
Data acquisition mode :
32x1.25mm 24x0.625mm, 16x0.625mm



Spiral scan

Continuous 360° scan
Max. exposure time : 100 sec
Acquisition mode : 32x0.625mm
Max. spiral scan range : more than 1850mm
Provide in-table and out-table scan mode
Support multi added-reconstructions option
Spiral scan protocol :
Scan speed @ 360 : 0.5s, 0.6s, 0.7s, 0.8s, 1.0s
kV option : 80, 100, 120, 140KV
mA option : 10-420mA
Focus spots with mA selection :
Small size: 275mA @ 120kV
Large size : > 275mA 120kV
Other kV selection :

Helical Reconstruction Parameters

Image Slice Thickness
0.625mm, 1mm, 1.25mm, 2.5mm, 3.75mm, 5mm, 7.5mm, 10mm
Image Interval: Minimum 0.1mm
Display FOV (DFOV) :
50 mm -- 500 mm, Freely variable center/off-center,
Reconstruction kernel
Provide Soft Tissue, Brain, Chest and Bone kernel
Reconstruction Matrix: 512x512
Helical Reconstruction Time) : More than 10 images per second

Helical Reconstruction Parameters

Helical Scan Enhancements
Single Acquisition Max Scan Time: Max. 100sec

kV	Small Focal Spot	Large Focal Spot
80	230mA	350mA
100	330mA	400mA
120	275mA	420mA
140	240mA	360mA

kV	mA	10% HS	20% HS	30% HS
		Scan time Sec		
120	250	100	100	90
120	280	100	88	75
120	300	89	78	66
120	350	73	63	53
120	415	50	44	36
120	420	30	30	30