

# CT Scan-256 Slice

## CT Scan 256 Slice



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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Gantry		
1.01	Gantry type	Low voltage slip-ring with
		AccuSlip-ring technique
1.02	Patient opening	76cm
1.03	Gantry driven type	Mute motor driven
1.04	Gantry tilt mode	Digital tilt
1.05	Digital tilt capability	±50°
1.06	Gantry and patient control panel	Touch screen and control
		panel (4 sets)
1.07	Gantry remote-control function	Provided
1.08	Positioning assistant system	Provided, laser orientation
		and 3D camera
1.09	Breath graphical display and auto-voice reminding	Provided
1.10	Ambient lighting for patient comfortable	Provided
1.11	AccuSaving energy saving management	Provided
1.12	ECG-gating unit (External type)	Provided

Detector		
		New generation
2.01	Detector type	OptiWave™ nano-panel
		detector
2.02	Numbers of detector rows	128
2.03	Coverage of Z-axis	80mm
2.04	Detector elements per row	912
2.05	Numbers of detector columns	116,736
2.06	Data-transfer type	RF, optical fiber

HVPS and Tube		
3.01	Max. continuous output of HV generator	100kW
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3.02	Tube kV selections	70kV, 80kV, 100kV, 120kV, 140kV
3.03	Tube mA range	10~830mA
3.04	Tube anode heat capacity	7.5MHU
3.05	Anode heat dissipation rate	1,386kHU/min
3.06	Type of cooling	Oil cooling + Air cooling
3.07	Tube spot	Large: 1.2 mm×1.4mm
		Small: 0.7mm×0.8mm

	Patient table	
4.01	Maximum horizontal-movable range	1,850mm
4.02	Table horizontal-scannable range	1,800mm
4.03	Table horizontal-position repeatability	±0.25mm
4.05	Maximum vertical-movable range	500mm
4.06	Maximum speed of vertical movement	40mm/s
4.07	Maximum speed of horizontal movement	255mm/s
4.08	Maximum patient weight load	230kg
4.09	Foot pedal of patient table control	Provided
4.10	Wireless controller for patient table control	Provided

	OC Workstation	
5.01	CPU	3.6GHz
5.02	Memory	64GB
5.03	Storage of hard-disk	2TB×2 + 256GB
5.04	Monitor	24" LCD
5.05	Resolution of monitor	1,920×1,200
5.06	Data output	CD/DVD/USB
5.07	Time of image reconstruction (512×512)	10ms
5.08	DICOM 3.0 interface	Provided
5.09	Printer DICOM 3.0 interface	Provided
5.10	Auto filming	Provided
5.11	Worklist	Provided

Scan parameter		
7.01	Shortest 360 degree rotation time	0.256s
		0.256s, 0.35s, 0.4s, 0.5s,
7.02	Allowed rotation times	0.6s, 0.8s, 1.0s, 1.5s, 2.0s,
		3.0s
7.03	Slice numbers per rotation	256
7.04	Minimum slice thickness of scan	0.625mm
7.05	Minimum slice thickness of reconstruction	0.3125mm
7.06	Maximum slice thickness of scan	10mm
		0.3125mm, 0.625mm,
7.07	Nominal reconstruction slice thickness	1.25mm, 2.5mm, 3.75mm,
		5.0mm, 7.5mm, 10mm
7.08	Speed of image reconstruction (512×512)	100 fps
7.09	Max. scan FOV	52cm
7.10	Max. reconstruction FOV	52cm
7.11	Mini. reconstruction FOV	2cm
7.12	Image reconstruction matrix	512×512, 768×768,
		1024×1024
7.13	Image display matrix	512×512, 768×768,
		1024 x 1024
7.15	Maximum continuous scan duration	100s
7.16	Maximum continuous scan length	180cm
7.17	Direction of TOPO	Front-back, Left-right
7.18	Max. length of TOPO	180cm
7.19	Range of pitch	0.1~2
		Scout scan
7.20	Scan mode	Axial scan
		Helical scan
		Cine scan

	Image Quality	
8.01	High contrast resolution	21lp/cm@0%MTF
8.02	Low contrast resolution	2.0mm@0.30%
8.03	Range of CT numbers	− 32767~+ 32768
8.04	Image noise	≤0.25%@25mGy
8.05	CT number uniformity	±3HU
	<b>Advanced imaging technique</b>	
9.01	Adose mA modulation technique	Provided
9.02	Adose kV automatic selection technique	Provided
9.03	Admir <sup>3D</sup> interactive reconstruction	Provided
9.04	Artist image-denoise algorithm	Provided
9.05	Abast bone artifact suppression technique	Provided
9.06	AccuClear motion artifact correction technique	Provided
9.07	Amast metal artifact suppression technique	Provided
9.08	Helical artifact suppression technique	Provided
9.09	Color coding technique for kids	Provided
9.10	Low-dose pediatric scan technology	Provided
9.11	Low dose brain imaging technique	Provided
9.12	Low dose lung screen imaging technique	Provided
9.13	Low dose abdomen imaging technique	Provided
9.14	Low dose pelvis imaging technique	Provided
9.15	Aheart low dose CCTA imaging technique	Provided
9.16	AccuTracking-intelligent coronary artery tracking technique	Provided

9.17	AccuGating-intelligent gating CCTA imaging technique	Provided
9.18	Prospective ECG gating scan technique	Provided
9.19	CCTA mA modulation scanning in spiral mode	Provided
9.20	Big pitch factor spiral scanning technique	Provided
9.21	Adaptive scan parameters assistant for CCTA	Provided
9.22	AccuCardio-prospective scan for arrhythmia	Provided
9.23	Bolus-tracking technique	Provided
9.24	White and gray matter enhancement	Provided
9.25	AccuImage microscopic imaging technique	Provided
9.26	AccuOrgan high-resolution imaging technology	Provided
9.27	AccuMatter spectral imaging technique	Provided

Advanced clinical application		
10.01	MPR	Provided
10.02	CPR	Provided
10.03	MPVR	Provided
10.04	SSD	Provided
10.05	VR	Provided
10.06	MIP	Provided
10.07	MinIP	Provided
10.08	AVG	Provided
10.09	VE	Provided
10.10	CTA	Provided
10.11	Auto patient table removal technique	Provided
10.12	Bone removal technique	Provided
10.13	CT-DSA technique	Provided
10.14	Cine display mode	Provided
10.15	Advanced vessel analysis	Provided
10.16	Advanced cardiac artery analysis	Provided
10.17	Coronary artery analysis	Provided
10.18	Coronary artery plaque analysis	Provided
10.19	CT calcium score analysis	Provided
10.20	Heart function evaluation	Provided
10.21	Advanced dental analysis	Provided
10.22	Advanced colonoscopy analysis	Provided
10.23	Advanced perfusion analysis	Provided
10.24	Advanced dual-energy spectrum analysis	Provided



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Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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