

ENDO



ENDO CS64

CT Scan

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ENDO CT Scan CS64

64-slice CT scanner

Holistic solutions and full-range applications

Product highlights

- Two hardware configurations enable flexible selection to satisfy various budgets.
- Powerful hardware platform optimizes patient throughput, increases work efficiency.
- User-guided interface and auto-positioning preset function facilitates a full range of procedures from simple head, chest and abdomen to complex cardiac procedures.
- High-resolution (20/cm@0%MTF, 1024x1024) ensures superior image quality for greater diagnostic confidence.
- 76cm gantry design makes tumor biopsy and simulation possible, greatly increasing potential clinical portfolio.

	ENDO CS64
Tube	8.0MHU
Generator power	80kW
Rotation speed	0.39s

Expand your
clinical performance

Maximize your
investment

Optimize your
workflow

High Performance 

ENDO CT Scan CS64

64 slices per rotation

Fast acquisition with
64 slice×0.625mm

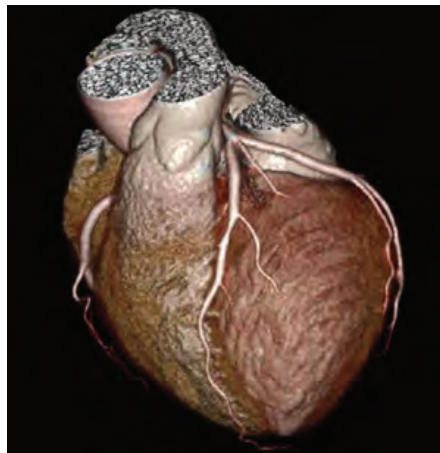
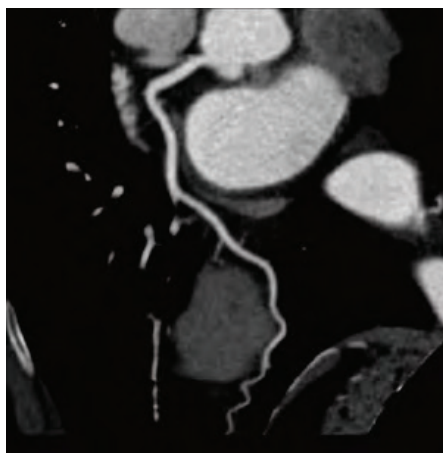
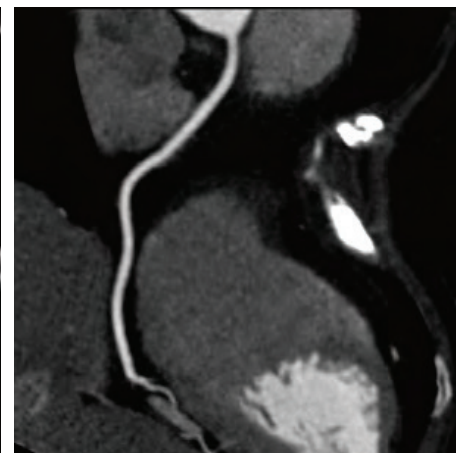
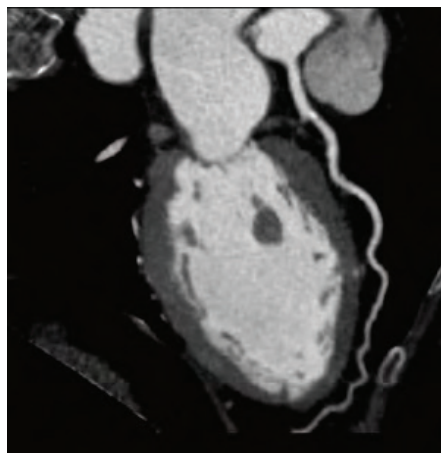
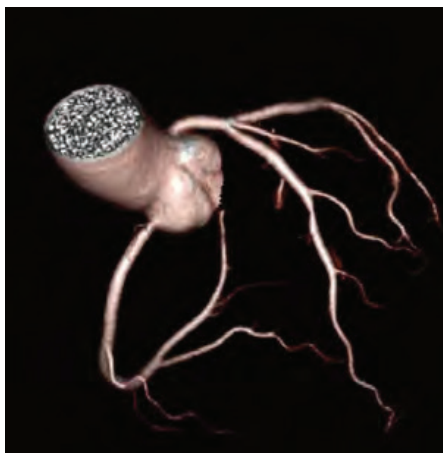
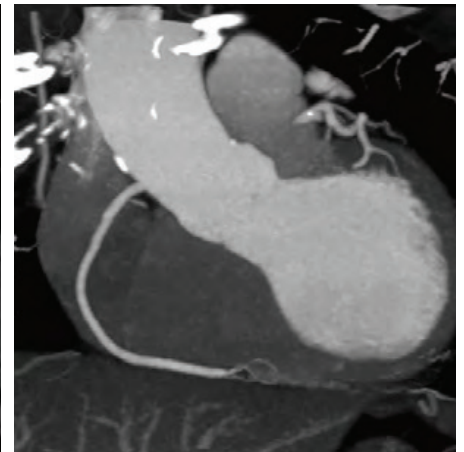
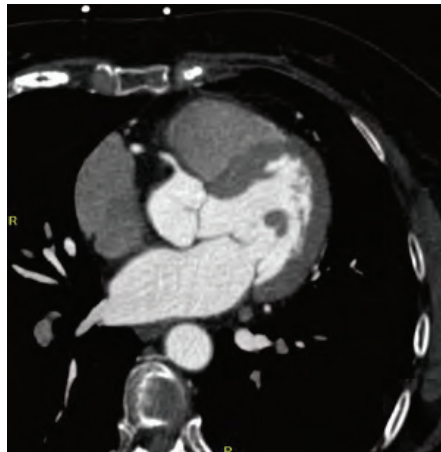
More powerful hardware
Faster rotation speed

More details,
more applications

From clinical routine to oncology
Meet your requirements of today and tomorrow

Coronary CTA clinical case

Heart rate: 70bpm with premature beats, 120kV, 620mAs, 0.39s rotation speed, scan range 125mm, scan time 11s, slice thickness 0.625mm



Specification

Gantry

Aperture	76cm
One-button positioning	Preset 3 protocols
Scan speed/360°	0.39、0.5、0.6、0.7、0.8、0.9、1.0、2.0s
Scan FOV	50cm
Tilt range	Mechanical tilt: $\pm 30^\circ$ (step 0.5°)
display panel	Size: 13.3 inch LCD、showing current scan parameters
Auto voice	Support
ECG cable connection interface	Integrated in the front of gantry control panel*

Patient Table

Max. horizontal travel range	1950mm
Horizontal scannable range	50mm~1860mm
Horizontal travel speed	1~200mm/s
Vertical table travel range	425mm~990mm
Max. table load	250kg
One-key patient table release	Support
Patient table cradle switches	Support

X-Ray Tube

Anode heat capacity	8MHU
Cooling rate	931kHU/min
Focal spot size	Large: 1.1mm×1.2mm Small: 0.6mm×1.2mm

Generator

Power rating	80kW
Equivalent power rating	216kW (with iDream)
kV settings	80、100、120、140kV
mA range (Step Size)	10~667mA (1mA step)

Detector

Material	Solid-state GOS
No. of Detector rows	32 rows
Max. number of slices/rotation	64
No. of detector channels per row	864
Total No. of detector elements	27648
Min. slice thickness	0.625mm
Detector width	20mm
Max. data sampling rate	4800 views/360°

Scanning Performance

Scout scan	Supports 3 modes: A.P. lateral and dual; Scannable range 50~1860mm;
Acquisition modes	64 x 0.625mm 32 x 0.625mm 16 x 0.625mm
Min slice thickness	0.625mm
Dynamic scan	20mm perfusion scan
Collimation width selection	20mm、15mm、10mm、5mm
Pitch factor	0.2~1.75 (multiple selections)
Max. continuous scan time	100s

Image Reconstruction

Recon FOV	50~500mm; 50~650mm (Extended) •
Recon matrices	512×512、768 x 768、1024×1024
Recon speed	≥12 ips, the actual speed can reach 28 ips
Display matrix	1024×1024

Note: • The image quality for the area outside the standard 500mm scan field does not meet the image quality specifications shown in the technical data sheet and image artifacts may appear, depending on the anatomy

Image Optimization Algorithm

Metal artifact reduction	Standard
Beam hardening artifact reduction	Standard
Partial volume artifact reduction	Standard
Steaking artifact reduction	Standard
Helical scan artifact reduction	Standard
Motion artifact reduction	Standard

Image Quality

Spatial resolution:	≥20 lp/cm @ 0% MTF; X-Y plane ≥15 lp/cm@0% MTF; Z plane
Low-contrast resolution	2mm@0.3%@23.5mGy;
Image Noise	≤0.35% (Central dose≤26 mGy)
CT HU scale	Standard: -1024HU ~ +3072HU Extended: -32768HU ~ +32767HU

Computer System

CPU	Intel Xeon 6 core, 12 threads, frequency 3.8GHz, cache 8.25MB
RAM	DDR4 ECC 32 GB
Hard disk	7TB (system disk 0.3 TB+ image disk 1.7TB + raw data disk 5 TB)
Monitor	Size: 24 inch, LCD Resolution: 1920×1200 Brightness: 600cd/m ² Contrast: 1000:1
Images storage	≥3,200,000 images (512×512)
External storage	DVD/CD RW, USB
Printing interface	DICOM 3.0 standard

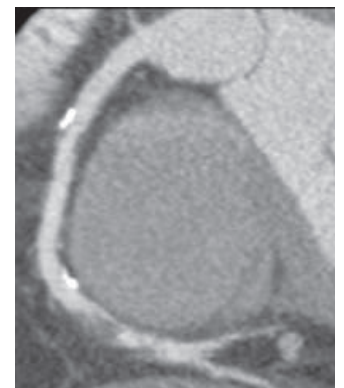
Doze Optimization

Dedicated pediatric protocols	Standard
Auto-mA	Standard
V-Dose check	Standard
Low dose lung screening	Standard
240° exposure	Standard
V-Beam	Standard
V-Dose report	Standard
iDream Iterative reconstruction	Standard
V-Bolus tracking	Standard
V-Bolus timing	Standard
ECG mA modulation*	Optional

Cardiac Scan

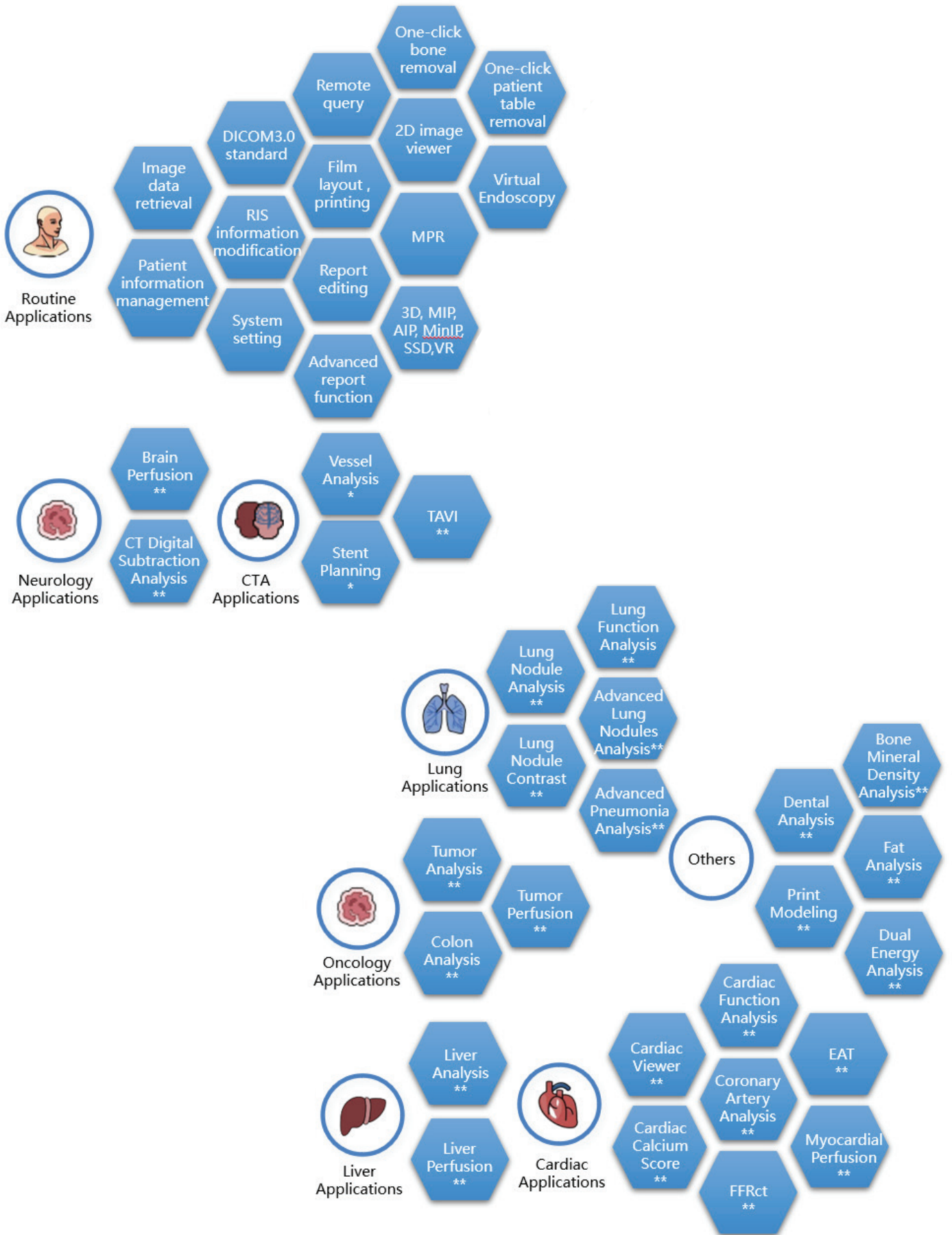
Prospective ECG scan	Support
Retrospective ECG scan	Support
Multi-sector coronary artery scan	Self-adaptive sector with maximum support for 4 sectors
Temporal resolution	49ms; 25ms @ RTF
ECG wave editing	Provides editing, adding, and deleting functions for abnormal ECGs (such as premature beat) used for coronary artery recon
Cardiac reconstruction	Automatically selects the optimal recon phase, multiphase recon for whole sequence or a single image

Instantaneous coronary artery freezing technology RTF (Real Time Focus)
The third-generation motion artifact correction algorithm based on deep learning can model and compensate the heart motion artifact and partially eliminate artifacts caused by insufficient motion, breathing and tempoal resolution. Displacement of the motion is correctwd repeatedly through an iterative method to avoid excessive correction.




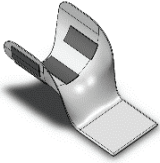
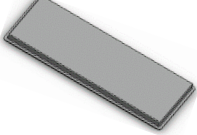
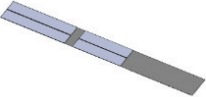
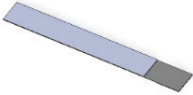
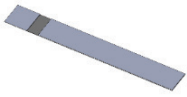
Note * : Item is Optional

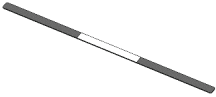
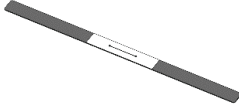




Clinical Applications



Accessories




Standard Accessories

		
Table pad	Headrest	Headrest pad
		
Chest and abdomen belt (standard)	Chest and abdomen belt (narrow1)	Chest and abdomen belt (narrow2)

		
Inferior frontal belt (standard)	Inferior frontal belt (wide)	Inferior frontal belt (narrow)
		
Water phantom	System phantom	Phantom support

Optional Accessories

		
Table extension	Knee cushion	Head and arm rest

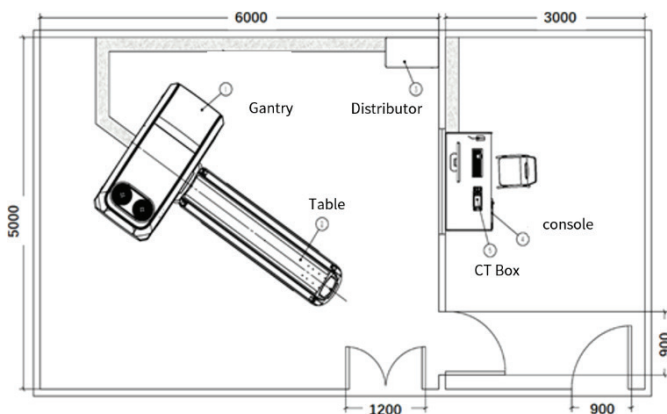
		
IV poles	Flat table	Laser location lamp

Running Environment & Siting Requirements

Dimensions & Weight

System	Length	Width	Height	Weight
Gantry	2200 mm	1021 mm	1969 mm	1800 kg
Table	680 mm	2678 mm	1073 mm	450 kg
Console	450 mm	716 mm	652 mm	60 kg
Distributor	800 mm	430 mm	663 mm	170 Kg


Siting Requirements (Recommended)



Running Environment

Scanning room dimension	Min. area: 22.4 m ² (5600mm x 4000mm) Recommended room size: 30 m ² (6000mm x 5000mm)
Operating room dimension	Recommended room size: 3000mm x 5000mm x 2800mm
Temperature & Humidity	Temperature: scanning room: 20 ~ 26 °C; operating room: 18 ~ 28 °C Humidity: scanning room: 30% ~ 70%, no condensation; operating room: 20% ~ 80%, no condensation
Power supply requirements	Power capacity: 100kVA Power supply option: 3 phase 380 VAC, voltage variation: tolerance ≤ ±10% Frequency: 50 Hz or 60 Hz, tolerance ≤ ±1 Hz
Intelligent energy saving	Insitum series CT scanners are designed to be energy saving, and have further optimized standby mode, which reduces the live operation of high-voltage control and data acquisition devices. They only keep necessary components in working state. This does not affect normal start-up efficiency, yet annual power consumption is reduced by 2815kW · h when the device is turned on for 10 hours a day, 6 days a week, which is 62.5% lower than the earlier design.

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