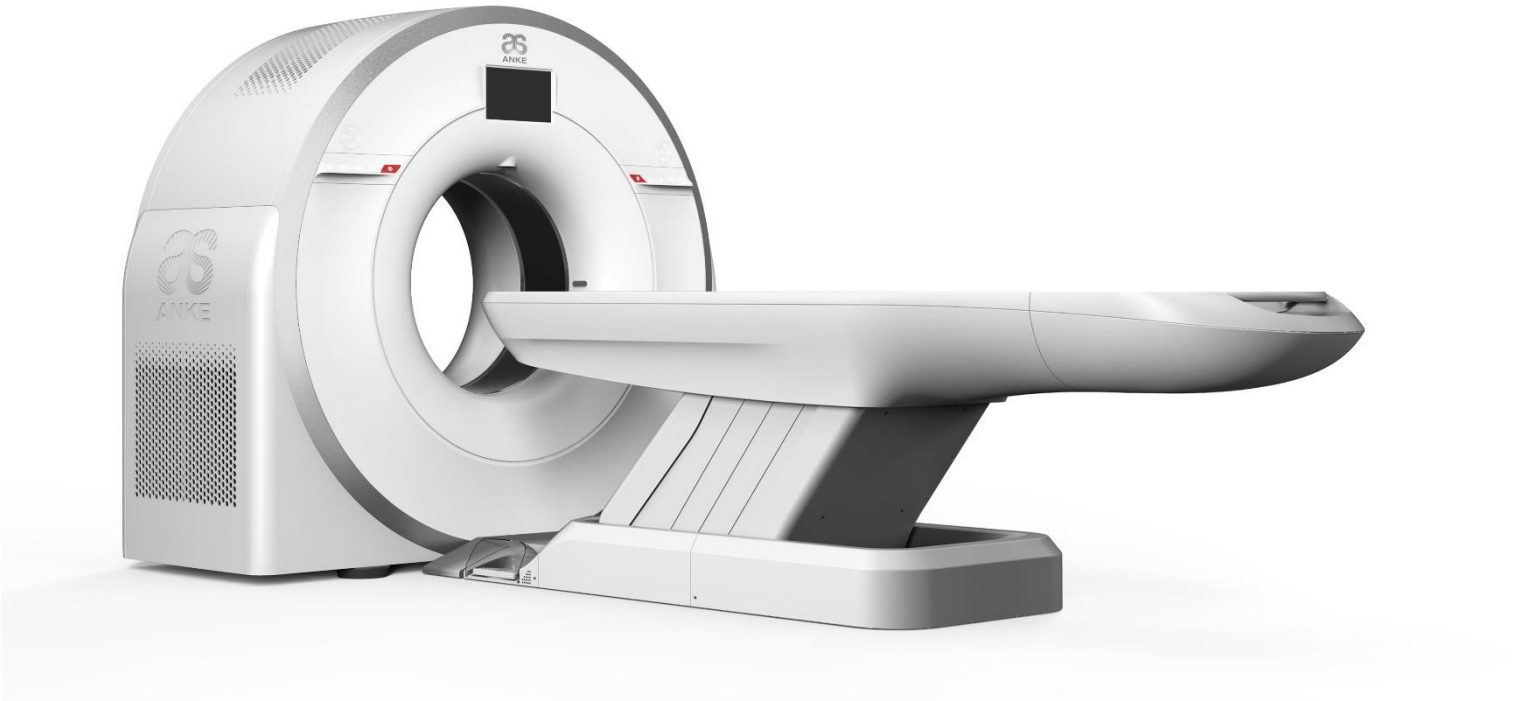
ANKE



ANATOM C201

Product Datasheet for

32-slice Computed Tomography System

Enjoying a successful CT business!

ANATOM Fit. Platform

Hundreds and thousands of patients are waiting for an affordable while trustable diagnostic and treatment all the world over. High expenses along with a CT scanner also plagues on running a successful business. ANKE, the international healthcare provider, target at “Insight into Life” released the latest 32-slice CT scanner offering a new answer on how to enjoy a successful CT business - economical solution, stable and reliable performance and avoid unnecessary lost.



System Hardware

Gantry

Aperture	Φ 72 cm
Scan FOV	50 cm
Rotation time (360°)	0.75, 1.0, 1.5, 2.0, 3.0, 4.0s
Tilt	±50° (Digital)
Slip ring	Low voltage slip ring
Laser light	3D laser orientation
"Eagle-eye" system	Standard
"Sky-eye" system	Standard

Tube Assembly

Tube	GS-30718
Tube anode storage capacity	3.5 MHU (equivalent to 10.6 MHU)
Maximum colling rate	735 kHU/min
Focal spot size (IEC 60336)	1.2 mm x 1.4 mm (Large) 0.7 mm x 0.8 mm (Small)
Type of cooling	Oil / Air cooling



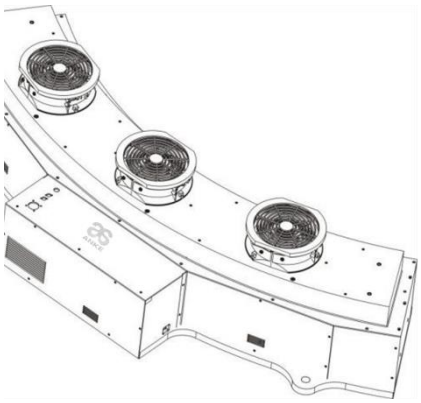


Generator

Max. power	42 kW
Type	High frequency
kV settings	70, 80, 100, 120, 140kV
Tube current range	10 – 350mA

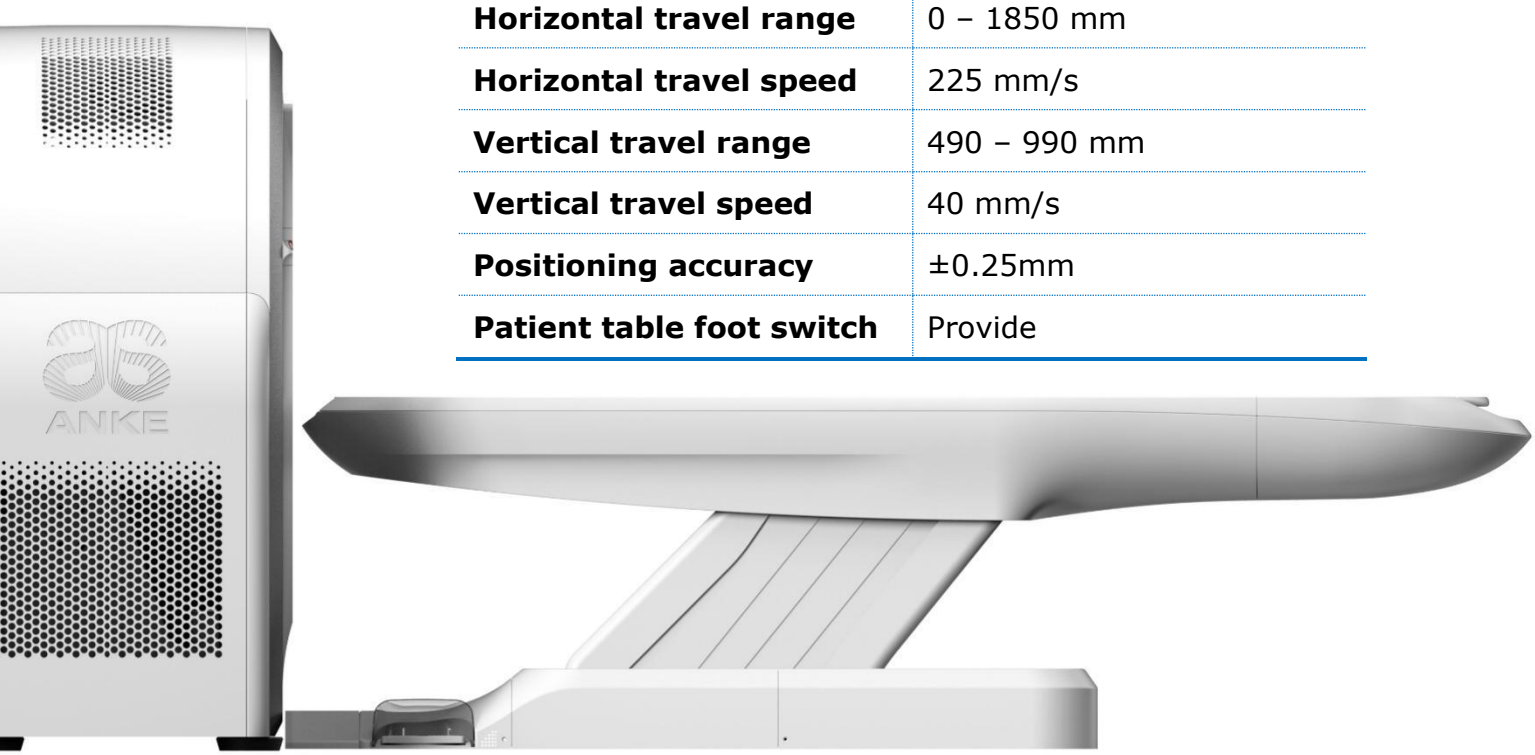
Data Acquisition System

Detector material	New generation Optiwave™ (Solid-state GOS)
Max. number of slices per rotation	32
Number of detector rows	32
Z-plane coverage	20 mm
Minimum slice thickness	0.625 mm
Number of detector elements	27,136



Patient Table

Type	Vertical movement
Max. table load	230 kg / 507 lbs
Max. scannable range	1800 mm
Horizontal travel range	0 – 1850 mm
Horizontal travel speed	225 mm/s
Vertical travel range	490 – 990 mm
Vertical travel speed	40 mm/s
Positioning accuracy	±0.25mm
Patient table foot switch	Provide



ANKE

System Performance

Data Acquisition

Scout Scan

Scout scan helps technicians accurately locate the desired examination region of patients while minimizing the dose usage with the help of Adose dose modulation function customize and automatically.

Axial Scan

Rotation time (360°)	0.75, 1.0, 1.5, 2.0, 3.0, 4.0s
Reconstruction slice thickness	0.625mm, 1.25mm, 2.5mm, 5.0mm, 10.0mm

Helical Scan

Rotation time (360°)	0.75, 1.0, 1.5, 2.0, 3.0, 4.0s
Reconstruction slice thickness	0.625mm, 1.25mm, 2.5mm, 5.0mm, 7.5mm, 10.0mm
Max. continuous scan time	120 s
Scan pitch	0.1 – 2.0 (Continuous)

Image Reconstruction

Reconstruction FOV	10 – 500 mm
Image reconstruction speed	45 images/s
Reconstruction matrix	512x512, 768x768, 1024x1024
Display matrix	1024x1024
CT Value	-32,767 ~ 32,768

Image Quality

High contrast resolution	22.8 lp/cm @ 0%MTF 19.5 lp/cm @ 2%MTF 17.5 lp/cm @ 10%MTF 12.5 lp/cm @ 50%MTF
Low contrast resolution	2.0 mm @ 0.3%, no more than 18mGy
Image noise	≤ 0.27% central dose 28mGy
Homogeneity	±3 HU (Water)

Assistant Systems

"Sky-eye"- Intelligent Positioning System



Using 2D camera combined with auto-positioning technology, "Sky-eye" can greatly improve efficiency on the whole scanning workflow which realizes fully intelligent scanning and navigation functions like auto-positioning, adaptive scout field selecting and protocol assisting.

"Eagle-eye"- Patient Monitoring System

The gantry integrated HD camera not only monitors the patient's status from console at all times, but also determines the best time to execute exposures.



Workplace Systems

Console Workstation

CPU	Intel Core Ultra 5 245 (6-core) 3.5 GHz
RAM	32 GB
Hard disk storage	2 TB×2 + 256GB SSD
Graphics	RTX 5060 (8GB)
Monitor	24 inches
Monitor resolution	1920 x 1200
System	Windows 11 Professional

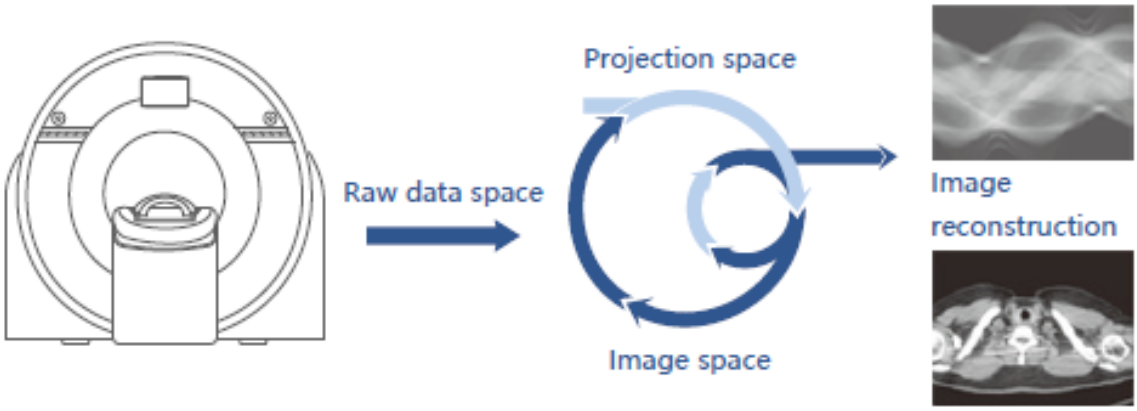
Post-processing Workstation

CPU	Intel Core i5 (6-core) 3.5 GHz
RAM	32 GB
Hard disk storage	2 TB + 256GB SSD
Graphics	RTX 3050 (8GB)
Monitor	24 inches
Monitor resolution	1920 x 1200
System	Windows 10 Professional

Standard Functions for Application

Admir™ 3D Iterative Reconstruction

Through innovative technology, Admir™ can not only fully extract effective data information but also maintain consistent image quality with reduced dose compared to conventional algorithm.

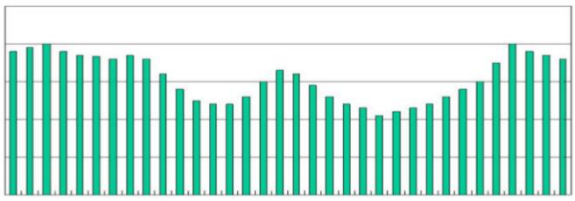


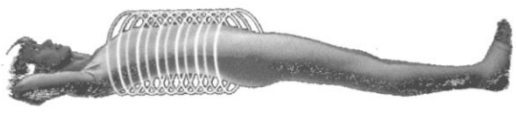
Auto Voice

A standard set of commands for patient guidance have already been put into system, and supports personalized languages recorded.

Adose – Auto mA

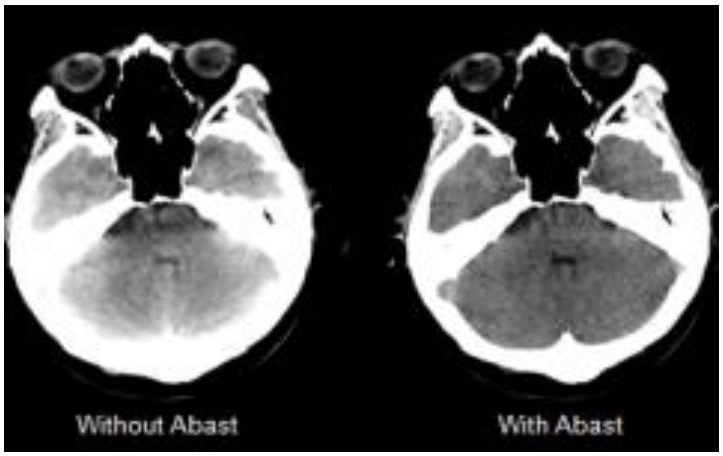
Auto mA is an automatic current modulation technology which optimizes the tube exposure output. System utilizes different real-time tube current based on the patient organization, ensuring the high definition of images while don't compare to the extra radiation dose.





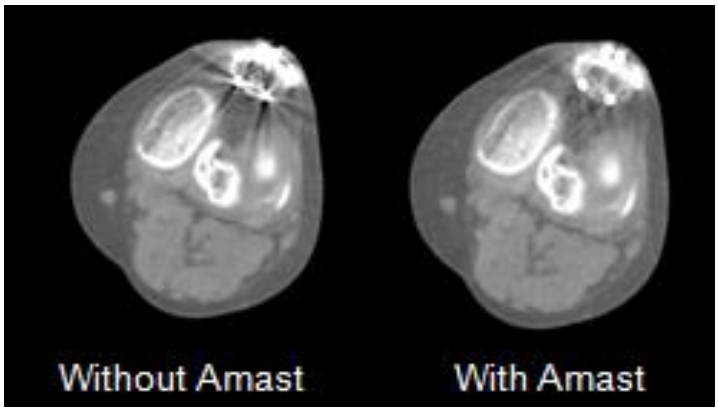
Abast™

Abast™ bone artifact suppression technology can eliminate X-ray hardening effect to the human parts like cerebellum, brain stem and so on, clearly showing the structure and improving the diagnostic reliability.



Amast™

Amast™ metal artifact suppression technology is an elimination method based on iterative correction, which is performed on the basis of pre-processed images, it can remove metal artifacts effectively and suppress the generation of secondary artifacts.



AccuOrgan

AccuOrgan is ANKE featured technology targeted at enhancing image resolution, application default protocols with customized setting and algorithm for head, chest, abdomen, inner ear, pelvis and bone.

Low-dose pediatric scanning

A full-range of pediatric scanning protocols has been customized and recorded in the system for children based on the weight, age and scanning area. Reducing exposure in reasonable range while achieving satisfiable clinical output.

Standard Functions on console

Real-time MPR

The real-time MPR function makes it possible to reconstruct different MPR orientations during the scanning process. This allows operators to check the results immediately, without any waiting time

Image Module

- Image loading and quit
- 2D image viewer
- Sequence / image selection
- Multi image layout
- Image browse
- Image measurement: angle, distance, CT value, ROI drawing, labeling, recover and delete
- Image adjustment: Movement, zoom in and out, turn direction, WW/WL selection, image reset, grid coordinate display, position line / scout view display
- Sequence comparison
- Image export and transmit

Film Module

Film module is used for image receipt, image viewer and management, layout setting, printing preview and output

3D

- 3D volume rendering (VR) with a robust set of templates for different clinical applications
- Multi-planar reconstruction (MPR)
- Maximum / minimum intensity projection (MIP / MinIP)
- Surface shaded display (SSD)
- Curved-planar reconstruction (CPR)
- Tissue segmentation
- Bone and table removal
- Extract blood vessels
- Virtual Endoscope

Report Module

- Load designated report
- Report creation, storage and print
- Template setting support

DICOM Viewer

ANKE ANATOM CT series fully complies with DICOM 3.0 communications protocols, which allows connectivity to DICOM 3.0 with PACS, workstations and printers. It supports image viewing, writing, transmission, and printing of DICOM format data

DVD/CD Archiving

Supports storage of images, information and data viewing on DVD/CD format

Bolus Tracking

Triggering the start of spiral acquisition at a pre-set threshold following the contrast injection

Networking

Supports 10/100/1000 Mbps network

CINE Display

All images in same sequence could be browsed in cine mode rapidly

Advanced Clinical Applications on post-processing workstation

Vessel Analysis

Automatic bone removal (including body, head and neck, etc.,)
Automatic vessel segmentation and repair
Center line extraction and editing
Vascular CPR
Vessel stenosis analysis
Vessel plaque analysis
Vessel endoscopy

Lung Analysis

Automatically lung segmentation
Lung nodule analysis with auto detection, segmentation, assessment and manual editing. Automatic measurement of nodule diameter, volume and CT value. Supports series comparison for the assessment of nodule changes over follow-up data
Lung pneumonia analysis with auto segmentation ROI, showing the analysis results of pulmonary components like tissue volume, gas volume, average, SD, density and weight. Support to display CT value distribution diagram. Follow-up data can be compared and evaluated.

Brain Perfusion Analysis

Healthy side and lesion side compare based on the isocenter
Automatic calculation of Time-density curve (TDC)
Automatic calculation and pseudo color display of brain perfusion parameters including CBF, CBV, MTT, PS, Tmax, TTP.
Measurement and statistical analysis of ROI region, maximum and minimum, value, average number

Cerebral Hemorrhage Analysis

Auto labelling the cerebral hemorrhage area and manual edit
Contour line labeling and support area grow
Hemorrhage type, volume and etc., display

Spine Analysis

Auto and manual spine segmentation
Spine labelling and multi-angle view
Provide piecewise analysis and general analysis

Dental Analysis

The dental arch line can be seen in an automatic or manual way, and then surface panoramic images will show. Choose a dental line and generate a single-slice image. The neural tube and bilateral temporomandibular joints can also display.

Colon Analysis*

Automatic identification and extraction of colon, providing multi-mode display such as colon VR, virtual contrast development and flattening, also remove water.

Dynamic display of colon lesions and quantitative analysis of colon polyps.

Colon endoscopy.

Liver Analysis*

Automatic extraction and segmentation of liver and vessels, quantify the volume and proportion of each liver segment and other parameters, accurately assess the liver reserve function.

Meanwhile, liver tumors can be quickly extracted and quantified, which intelligently indicates the risk areas of tumors and peripheral blood vessels, providing pre-operative simulation resection protocols.

Rib Analysis*

Automatically extract ribs and perform 3D reconstruction, realize multi-mode display such as 3D, CPR and rib cross-section.

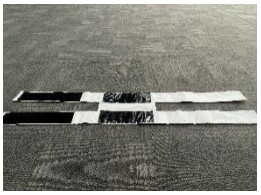
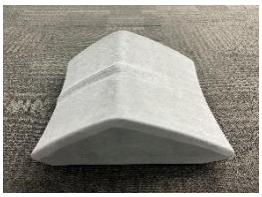
Quickly realize the refined analysis of target ribs, assist in the diagnosis of rib fractures and other lesions.

*Optional

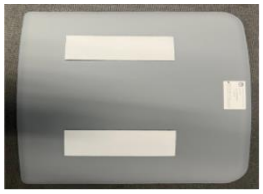
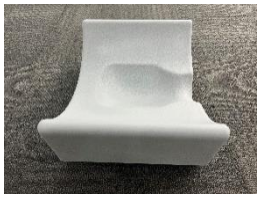
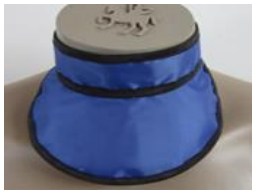
Accessories

Standard Accessories

		
Flat Head Holder	**Flat Head Holder Cushion**	**Patient Table Cushion**

			
Head Straps	**Body Straps**	**Arm-head Cushion**	**Knee Joint/Leg Cushion**

Optional Accessories

			
Coronal Head Holder Cushion	**Coronal Head Holder**	**Patient Table Extension**	**Patient Table Extension Cushion**
			
Arm Joint Support	**Head Cushion (Groove)**	**Heighten Cushion**	**Lead Glass**
			
Lead Protection Apron	**Lead Protection Gonadal**	**Lead Protection Thyroid**	**Lead Protection Goggle**

Site Planning

We redesigned ANKE CT with compact design language fits your demanding clinical requirements and outstanding system performance

Components

Dimensions	L (mm)	W (mm)	H (mm)	Weight (kg)
Gantry	1920	940	1830	1250
Patient table 230kg	3065	789	1200	350

Power Supply

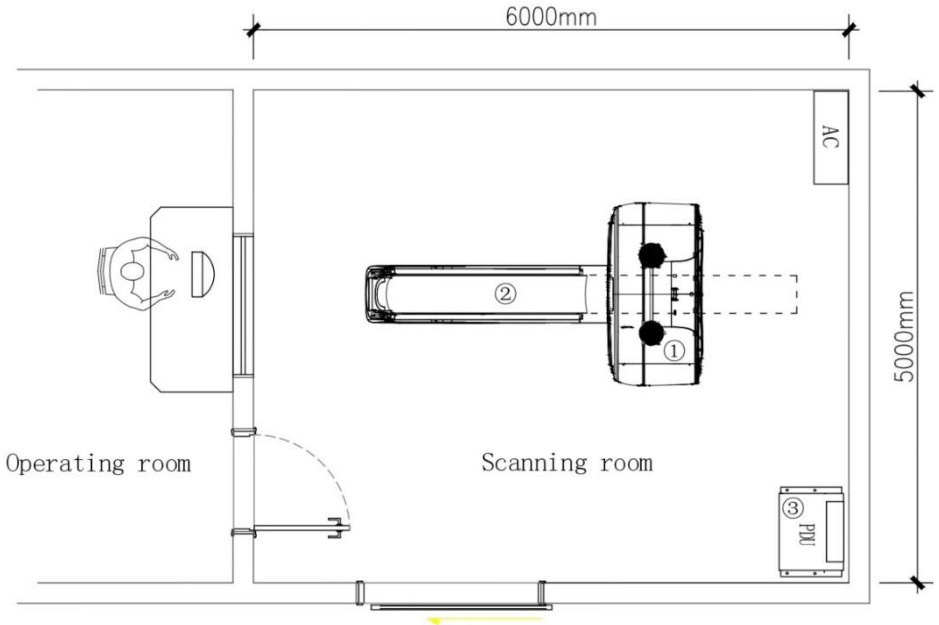
Power input	60 kVA
Input frequency	50/60Hz
Power type	Three-phase
Input voltage	220, 380, 480VAC
UPS for whole system	30 mins for power failure*

*Optional

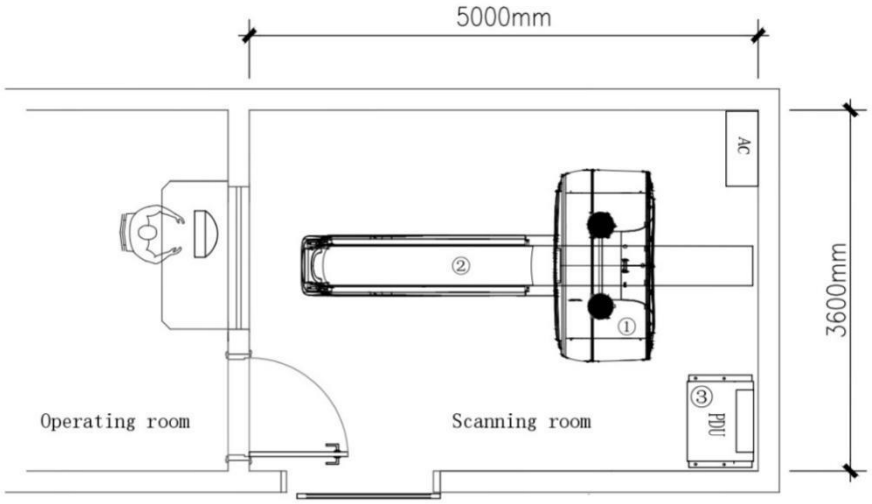
Environmental Requirements

Temperature of scan room	20℃ - 26℃
Temperature of control room	18℃ - 28℃
Humidity of scan room	30% - 70% (non-condensing)
Humidity of control room	20% - 80%
Atmosphere pressure	700hPa – 1060hPa

Recommended Area of Room (30 square meters)



Min. Area of Room (18 square meters)





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Specifications and appearance of the equipment may change without prior notice. ANKE reserves the right of final interpretation