ScintCare CT 128（128 slices）
Quotation and Specification

MinFound Medical Systems Co., Ltd.

Items	ScintCare CT 128 Quote
1	**Gantry**
1.1	Integrated Casting Gantry
1.2	Thermal Airflow Isolation Design
1.3	Multipoint Temperature Control
1.4	ECS On One Side
1.5	Double Feedback Motion Control System
1.6	Respiratory Navigation System
1.7	Anti-collision Safety Protection
2	**Tube**
	• Anode heat storage capacity: 8.0MHU
2.1	3D-MAT Multi-frequency Acquisition Technique
3	**Detector**
3.1	High-Precision And High-Strength Design
3.2	Modularized Digital Detector
3.3	Q-Enhance Quantum Enhancement Technique
3.4	DNR Digital Noise Reduction Engine
3.5	Innovative EAA Elimination Artifact Architecture Design
4	**HV Generator**
	• Power rating: 80kW
5	**Table**

	• Max weight load：450lb（205kg）
6	**Console**
	• Operation system: Windows 10 in English • Console memory: 16GB • Recon memory: 64GB • Liquid crystal display of high resolution: 24”，1920 x 1200
7	**Scan And Image Reconstruction**
8	**Advanced System Software**
8.1	imA Intelligent MA Modulation
8.2	NDI+ Iterative Reconstruction
8.3	ECG-Mod Dose modulation
8.4	MAS Metal Artifact Suppression
8.5	Beam Hardening Artifact Correction
8.6	Posterior Cranial Fossa Image Optimization
8.7	Streak Artifact Suppression
8.8	Helix Artifact Correction
8.9	1024 x 1024 Large Matrix Imaging
8.10	Bolus Automatic Tracking
9	**Basic Clinical Application**
9.1	3D Volume Reconstruction VR
9.2	Multi-Plane Reconstruction MPR

9.3	Curved Planar Reformat CPR
9.4	Surface Shaded Display SSD
9.5	Maximum Intensity Projection MIP
9.6	Minimum Intensity Projection MinP
10	**AI Function**
10.1	Polaris Navigation System
	• Monitoring System and Image Identification Software
10.2	Automatic Head Scan Positioning
10.3	Automatic Lung Scan Positioning
10.4	Automatic Abdomen Scan Positioning
10.5	Automatic Lumbar Vertebra Scan Positioning
10.6	Smart Puncture Positioning
10.7	Smart Chest Reverse Scan
10.8	STM Automatic MPR
11	**Anythink Post-processing Workstation**
11.1	• Operation system: Windows 10 in English • Memory: 16GB • Hard Disk: 2TB+256GB SSD • Liquid crystal display of high resolution: 24”，1920 x 1200 • DVD-RW
11.2	Basic Clinical Application

11.3	Advanced Clinical Application including Cardiac Scanning
12	**PDU**
	• 90KVA
13	**UPS**
	• 3KVA
14	**Remote Maintenance System**
15	**Stabilized Voltage Supply**
16	**Accessory KIT**
	• Extended Patient Table • Patient Table Pad • Knee Pad • Head Holder • Head Holder Pad • Bandage • Phantom • Console Desk
The Items 1-16 Total Price FOB China:	

Items	ScintCare CT 128 Specification
1	**Gantry**
	• Aperture: 70cm • Physical Tilt: ±30° • Slip ring type: low voltage • Distance from Focal spot to ISO-Center： 558mm • Minimum scanning time: 0.35s/360° • Positioning system: 3D lasers
1.1	Integrated Casting Gantry
	• Keeps minimum vibration and distortion in each direction during fast rotation. • Ensures the center of gantry, the detector and tube focal spot are on the same axial. • Improves the definition of images due to the stability of X-ray and detector.
1.2	Thermal Airflow Isolation Design
	• Effectively isolates the hot air from the outer (including the X-tube and HV generator) and inner detector. • Ensures the thermal stability of the detector during continuous scanning. • Greatly extends the service life of the detector and reduces the

	degradation of the image quality.
1.3	Multipoint Temperature Control
	• Monitors the gantry temperature in real time. • Quickly adjusts the temperature through the cooling system. • Ensures the system in a stable working state.
1.4	ECS On One Side
	• Optimizes electrical system layout. • Controls temperature and EMC accurately. • No need for maintenance space on the right side of the equipment. • Makes assembly and after-sales maintenance more efficient.
1.5	Double Feedback Motion Control System
	• High-frequency DC servo motor driving • Shorter response time and idling time • Control precisely and movement precisely • Higher damping function after movement
1.6	Respiratory Navigation System
	• Provides 7 languages and supports to user-defined recording.
1.7	Anti-Collision Safety Protection
	• The pressure sensors ensure the movement of gantry and bed are within the safe range. • Emergency stop button to prevent emergency safety incidents.

2	**Tube**
	• Dunlee • Maximum heat capacity: 8.0MHU • Anode heat dissipation：1031KHU/min • Small focal spot size: 0.6×1.2 mm • Large focal spot size: 1.1×1.2 mm • Tube current: 10-660 mA • Tube voltage: 80kV，100kV，120kV，140 kV
2.1	3D-MAT Multi-frequency Acquisition Technique
	• Double sampling in XY plane and Z direction with the flying focus of the X-tube to improve the image resolution.
3	**Detector**
	• Ultra-high speed heavy rare earth ceramic material • Number of detector rows: 64 • Detector Z-axis Coverage: 40mm • Number of detectors per row: 840 • Total number of detectors: 53760 • Physical thinnest layer thickness: 0.625mm • Sampling rate: 4096Views / Rotation
3.1	High-Precision And High-Strength Design
	• EMC / EMI shielding and Light sealing

	• Reduces image noise and artifacts caused by electromagnetic interference and light leakage • Ensures the mechanical accuracy under high speed rotation
3.2	Modularized Digital Detector
	• Anti-scatter grids, scintillator arrays, photodiodes, ceramic substrates, multi-channel connectors, and A / D boards are all integrated into a very small module. • The integrated design reduces electronic noise and improves image quality, especially for the low-dose scanning due to the fewer number of X-ray photons.
3.3	Q-Enhance Quantum Enhancement Technique
	• Ultra high speed heavy rare earth ceramic material adopts high precision cutting process. • The high reflective material is added in the gap to avoid the signal crosstalk between rows. • The X-ray can be converted to the maximum extent, which improves the geometric efficiency of the detector.
3.4	DNR Digital Noise Reduction Engine
	• 256 channels ASIC chip • Higher counting rate and sampling rate • Lower power consumption and electronic noise

	• Better linearity ensures excellent performance of the system and high-definition of images.
3.5	Innovative EAA Elimination Artifact Architecture Design
	• The optimal height of tungsten sheet to meet the requirements of SPR (scatter to primary ratio). • Each ASG is divided into two discrete grids • No mutual interference between modules • The design is helpful to obtain the better images through avoiding artifacts caused by ASG tilt due to temperature drift and improving the SNR.
4	**HV Generator**
	• Spellman • Power rating: 80kW • MA range: 10-660mA • KV range: 80kV, 100kV, 120kV, 140kV
5	**Table**
	• Max weight load：450lb（205kg） • Maximum scanning range: 1700mm • Maximum motion range: 1800mm • Table elevation range: 500mm • Mechanical control table horizontal motion

	• Manual control table horizontal motion • Foot pedal control table horizontal motion
6	**Console**
	• Operation system: Windows 10 in English • Console memory: 16GB • Recon memory: 64GB • Frequency: 3.6GHz • Hard disk: 2TB • Raw data: 3TB • Liquid crystal display of high resolution: 24”，1920 x 1200 • Network interface: DICOM 3.0 • Burn mode: DVD-RW • DICOM3.0 print interface • DICOM3.0 output and input interface • Automatic voice system and two-way voice transmission • Include DICOM PRINT，DICOM STORE，DIOCM QUERY，DICOM RETRIVE，WORKLIST • Include HIS & RIS & PACS interface • Film printing software
7	**Scan And Image Reconstruction**
	• Maximum single continuous spiral scan time：100s • Longest single continuous spiral scan range: 1700mm

	• Scout scan direction: anteroposterior, lateral • Pitch range: 0.25-1.75 • Slices of image obtained by scanning: 128 slices/360° • Thinnest reconstructed slice thickness in 128-slice mode：0.5mm • Children's scanning protocol • Parallel image processing • Simultaneous Reconstruction: Can reconstruct and reorganize the images simultaneously with a variety of options. Different reconstruction options are available within the scan protocol. • Scanning field of view: 25cm，50cm • Image reconstruction matrix: 512×512，1024×1024 • Nominal slice thickness for axial scan: 0.5mm, 0.625mm, 1.25mm, 2.5mm, 5mm, 10mm • Nominal slice thickness for helical scan: 0.5mm, 0.625mm, 1mm, 1.25mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm • High contrast resolution: 20 lp/cm @ MTF =0% • Low contrast resolution: 3mm @ 0.3%
8	**Advanced System Software**
8.1	imA Intelligent MA Modulation
8.2	NDI+ Iterative Reconstruction
8.3	ECG-Mod Dose modulation

8.4	MAS Metal Artifact Suppression
8.5	Beam Hardening Artifact Correction
8.6	Posterior Cranial Fossa Image Optimization
8.7	Streak Artifact Suppression
8.8	Helix Artifact Correction
8.9	1024 x 1024 Large Matrix Imaging
8.10	Bolus Automatic Tracking
9	**Basic Clinical Application**
9.1	3D Volume Reconstruction VR
9.2	Multi-Plane Reconstruction MPR
9.3	Curved Planar Reformat CPR
9.4	Surface Shaded Display SSD
9.5	Maximum Intensity Projection MIP
9.6	Minimum Intensity Projection MinP
10	**AI Function**
10.1	Polaris Navigation System
	• Monitoring System and Image Identification Software
10.2	Automatic Head Scan Positioning
10.3	Automatic Lung Scan Positioning
10.4	Automatic Abdomen Scan Positioning
10.5	Automatic Lumbar Vertebra Scan Positioning

10.6	Smart Puncture Positioning
10.7	Smart Chest Reverse Scan
10.8	Automatic MPR
11	**Anythink Post-processing Workstation**
11.1	• Operation system: Windows 10 in English • Memory: 16GB • Hard Disk: 2TB+256GB SSD • Liquid crystal display of high resolution: 24”，1920 x 1200 • DVD-RW
11.2	Basic Clinical Application
	• Printer interface • Diagnostic Reporting System • 3D Image Reconstruction includes VR，MPR，CPR，Surface reconstruction，Simulated scalpel，Virtual endoscopy，CTA remove bone，CTA subtraction • CT Vessel Analysis • Tissue Fluoro • Tissue Element Analysis
11.3	Advanced Clinical Application including Cardiac Scanning
	• CT Pulmonary Nodule Analysis • CT Coronary Artery Analysis

	• CT Cardiac Function Analysis • CT Calcium Score Analysis • ECG Gating Module Includes ECG monitoring and accessories • Retrospective gated acquisition and reconstruction of the heart • Multi sectors reconstruction of heart
12	**PDU**
	• Includes high-power isolation transformer, safety circuit breaker and temperature protector. • Integrated and compact structure to install conveniently. • Low noise and low power consumption. • It has lightning protection and wide input voltage function. • Input voltage: 3-phase 380V, 50Hz±1Hz • Power: 90KVA
13	**UPS**
	• 3KVA • Maintains the normal working state of the main console and effectively protect the integrity of data in case of sudden power failure.
14	**Remote Maintenance System**
	• Monitors the operating status of the equipment in real time and dynamically

	• Ensures maintenance easier, more timely and efficient.
15	**Stabilized Voltage Supply**
	• 3-phase 100KVA • Ensures long-term stable working power environment of equipment
16	**Accessory KIT**
	• Extended Patient Table • Patient Table Pad • Knee Pad • Head Holder • Head Holder Pad • Bandage • Phantom • Console Desk

	Options
17	**Additional Clinical Application on Workstation**
17.1	CT Bone Mineral Density Analysis
17.2	CT Rib Analysis
17.3	CT Spine Extraction and Analysis
17.4	CT Colon Analysis
17.5	CT Pulmonary Edema Analysis
17.6	CT Lung Analysis
17.7	CT Lung Markings Analysis
17.8	Advanced Dental Radiological Analysis Function
17.9	CTU Analysis
17.10	CT Perfusion Analysis
17.11	Dual Energy Scanning
18	**100KVA UPS for Whole System**
19	**Dual Heads High-pressure Injector**
20	**Laser Printer**
21	**3mm Pb 120x80 cm Lead Glass**
22	**Protective Suits**
22.1	0.5mm Pb Protection for gonads
22.2	0.5mm Pb Lead Apron
22.3	0.5mm Pb Collar to protect the thyroid gland

22.4	0.5mm Pb Adjustable glasses
23	**Coronal Head Holder**
24	**Catphan 500/600**