

Radiation equipment and accessories Catalogue

Imaging systems from mobile X-ray to CT MRI and PET-CT, quoted with site preparation and commissioning arrangements.

Qingdao Sinoland Medical Co., Ltd.

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Every specification in this catalogue is taken from the product documentation.

Where a value is not documented it is left out rather than estimated.

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Radiation equipment and accessories

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PET-CT Molecular and Anatomical Imaging System

A PET-CT system integrating positron emission tomography with spiral CT in one imaging session. PET supplies molecular information about lesion function and metabolism while CT supplies accurate anatomical location, so a single acquisition produces sectional images in all directions of the body with both sensitivity and precise

Key specifications

Product Type: PET-CT imaging system

Modalities: PET and spiral CT integrated

PET Contribution: Molecular information including lesion function and metabolism

CT Contribution: Accurate anatomical localisation

Imaging Output: Sectional images in all directions of the body

Main Application: Early detection and diagnosis of major disease including tumours

sdmedicaldevices.com/products/pet-ct.html



Pulse Fourier Transform NMR Spectrometer

A pulse Fourier transform NMR spectrometer used to observe the chemical shift and hyperfine structure of the proton spectrum and to carry out chemical structure and molecular structure analysis. A pneumatic sample replacement system handles sample exchange, which keeps throughput steady in a teaching laboratory or an analytical

Key specifications

Product Type: NMR spectrometer

Operating Principle: Pulse Fourier transform

Primary Observation: Chemical shift and hyperfine structure of the proton spectrum

Analysis Functions: Chemical structure analysis and molecular structure analysis

Sample Handling: Pneumatic sample replacement system

sdmedicaldevices.com/products/nmr-spectrometer.html



Open C Shaped Permanent Magnet MRI System MCI-050

A full open C-shaped MRI system, model MCI-050, built on a permanent magnet so no helium is required and operating cost stays low. The open geometry is easier for claustrophobic, elderly and larger patients than a closed bore, which widens the patient population a centre can scan. Siting requires less than 56 square metres, a co

Key specifications

Model: MCI-050

Magnet Type: Permanent magnet, full open C-shaped

Cryogen: None, no helium

Siting Requirement: Less than 56 square metres

Software: Comprehensive application suite included in the standard configuration

Service: 24 hours online

sdmedicaldevices.com/products/mri-system.html

C Arm X Ray Machine With Digital Radiography



A mobile C-arm X-ray system combining a high frequency high voltage generator with high precision digital pulse control, which produces good image quality at a low skin dose. Digital radiography removes the film and screen system and simplifies the operating process. A kV and mA auto trace function optimises image brightness and

Key specifications

Product Type: C-arm X-ray machine
 Generator: High frequency high voltage
 Dose Control: High precision digital pulse control
 Imaging: Digital radiography, no film and screen system
 Exposure Control: kV and mA auto trace
 Collimator: Electrically controlled

sdmedicaldevices.com/products/c-arm-x-ray-machine.html

Mobile X Ray Machine With 48 Anatomy Memory Programmes



A compact mobile X-ray machine for bedside and ward imaging. A 6 period digital LED display shows the exposure settings, and 48 preset anatomical memory patterns let a radiographer select the programme for the examination rather than calculating each exposure. Tube voltage and current are held under high precision control through

Key specifications

Product Type: Mobile X-ray machine
 Display: 6 period digital LED
 Anatomical Programmes: 48 preset memory patterns
 Control Method: Simulation and double digital loop accuracy control
 Parameter Control: High precision tube voltage and tube current
 Protection: Failure self-protection and self-diagnosis

sdmedicaldevices.com/products/mobile-x-ray-machine.html

32 Slice Spiral CT System MSLCTX10



A 32 slice spiral CT system, model MSLCTX10, built around a patented P-Axial technique that produces a thinnest slice of 0.275mm. That resolution gives the system clear advantages in inner ear imaging and pulmonary nodule detection, where slice thickness decides whether a small structure is resolved at all. 32-slice dual energy

Key specifications

Model: MSLCTX10
 Slice Count: 32 slice
 Thinnest Slice: 0.275mm
 Reconstruction: P-Axial patented technique
 Dual Energy: 32-slice dual energy imaging
 Key Applications: Inner ear imaging, pulmonary nodule detection

sdmedicaldevices.com/products/spiral-ct.html



64 Slice Multi Slice Spiral CT System

A multi slice spiral CT system built on a 50kW generator and a tube with 5.0 MHU anode heat capacity and an 815 kHU per minute cooling rate, which is what sustains a heavy scanning list without waiting for the tube to cool. The data acquisition system produces up to 64 slices per rotation from 32 detector rows of 672 x 32 elements

Key specifications

Tube Current: 30mA to 420mA

Tube Anode Heat Capacity: 5.0 MHU

Maximum Power: 50kW

Cooling Rate: 815 kHU per minute

Focal Spot Size: 0.6 x 1.2 small, 1.1 x 1.2 large

Tube Voltage: 80kV, 100kV, 120kV, 140kV

sdmedicaldevices.com/products/multi-slice-spiral-ct.html



Bed Type X Ray Machine With AEC and DR Upgrade Interface

A bed type X-ray machine for orthopaedic departments, emergency rooms and operating theatres, used to image the head, limbs, chest, spine and lumbar spine. High kV, high current and high power give the penetration needed for larger patients, and automatic exposure control with a choice of ionisation chamber keeps exposures consistent

Key specifications

Product Type: Bed type X-ray machine

Applications: Orthopaedics, emergency room, operating room

Anatomy Covered: Head, limbs, chest, spine, lumbar spine

Exposure Control: AEC with optional ionisation chambers

Control Method: Analogue to digital double loop control

Tube Features: Filament dormancy, automatic tube current calibration

sdmedicaldevices.com/products/bed-type-x-ray-machine.html