CT 16

Simplicity • Clarity

Workflow with Strived Simplicity

One-click positioning

Two-click filming

Three-click scanning

Intelligent workflow throughout

01 One-click positioning

High definition screen on top of the gantry displays patient information and highlights target scan area. It facilitates operator's verification process thus minimizing errors. A/B keys can store frequently used patient positions achieving one-click positioning.

02 Two-click filming

Individualized layout allows filming to be completed with two keystrokes saving 30% workload so that a technician can spend more time on patients.

03 Three-click scanning

User interface is designed with navigation functions to help novice operators to complete a CT scan easily.

Express patient registration entry for emergency patients helps save time. Rapid re-scan function of existing patients simplifies process for returning patients.

Imaging with True Clarity

Aegis ASG Detector System
High Performance Liquid Metal X-ray Tube
Optimal Beamline Design

Aegis ASG detector system optimized for ultra-low noise

Aegis CT detector system, characterized by light weight, small size, and high integration, shows performance, quality and ingenuity of design with 9 US and China utility patents. The oneness design of anti-scatter grid (ASG) incorporates 17 mm high tungsten plates, providing up to 110% more scatter noise absorption, reducing the blockage of effective photon by 60% compared with traditional ASG design, and elimination of module edge artifact. The Aegis detector system provides an improvement of the signal to noise ratio and imaging quality for CT systems, laying a solid foundation for low-dose CT scans.

X-ray tube with liquid metal bearing featuring high end performance

Compared with the ball bearing traditional X-ray tubes, liquid metal bearing features ultra-high heat dissipation and ultra-low performance degradation over time. With anode cooling rate of 864 kH/min, Zeedas CT 16 allows hospitals to perform scans around the clock without any interruption.
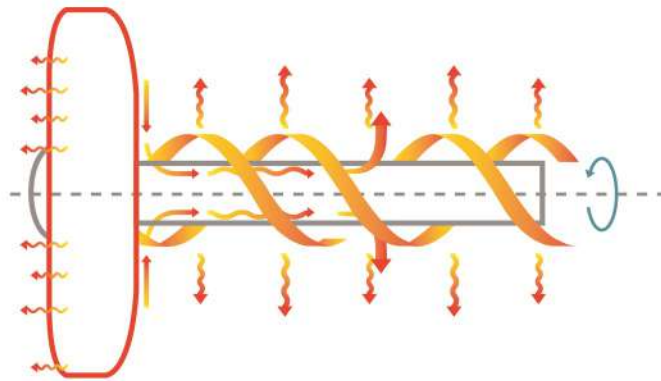
Liquid metal bearing effectively reduces the wear and tear, significantly extending the lifetime of X-ray tubes and reducing maintenance cost for hospitals.

Ball bearing

Liquid metal bearing

Dual protection

Worn and torn

Last forever
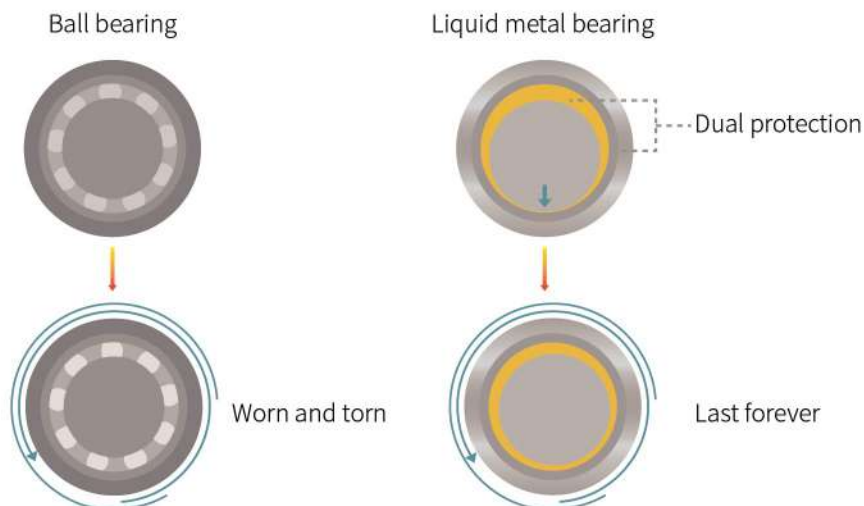
Ergonomic Design

Engineered with human factors
Attention to details
Considerate user interface throughout

Smart release
function with easy access

Four smart release switches accessible from multiple locations around the patient table. The patient table is released with one touch while intelligent motion monitoring locks the patient table after manual movement is complete.

Recessed e-stop
reducing accidental triggers

The recess design not only appeals aesthetically compared with protruding design, but also avoids unnecessary scan interruptions triggered by accidental touches.

Storage space at the end
of patient table

Breath holding timer

Wide-view angle display

Low Dose Scan

## Smart mA modulation
Three-domain iterative recon
Maintaining the image quality

Smart mA modulation technique - AccumA

AccumA adjusts tube current based on patient's body and targeted scan area, optimizing radiation dose while improving image quality.

Three-Domain Iterative Algorithm - ZTV

The unique ZTV breaks the limitation by conventional iterative algorithms only relating the data between the projection data and the image data. ZTV algorithm brings the raw data into consideration, resulting in 50% radiation dose reduction while maintaining the image quality.
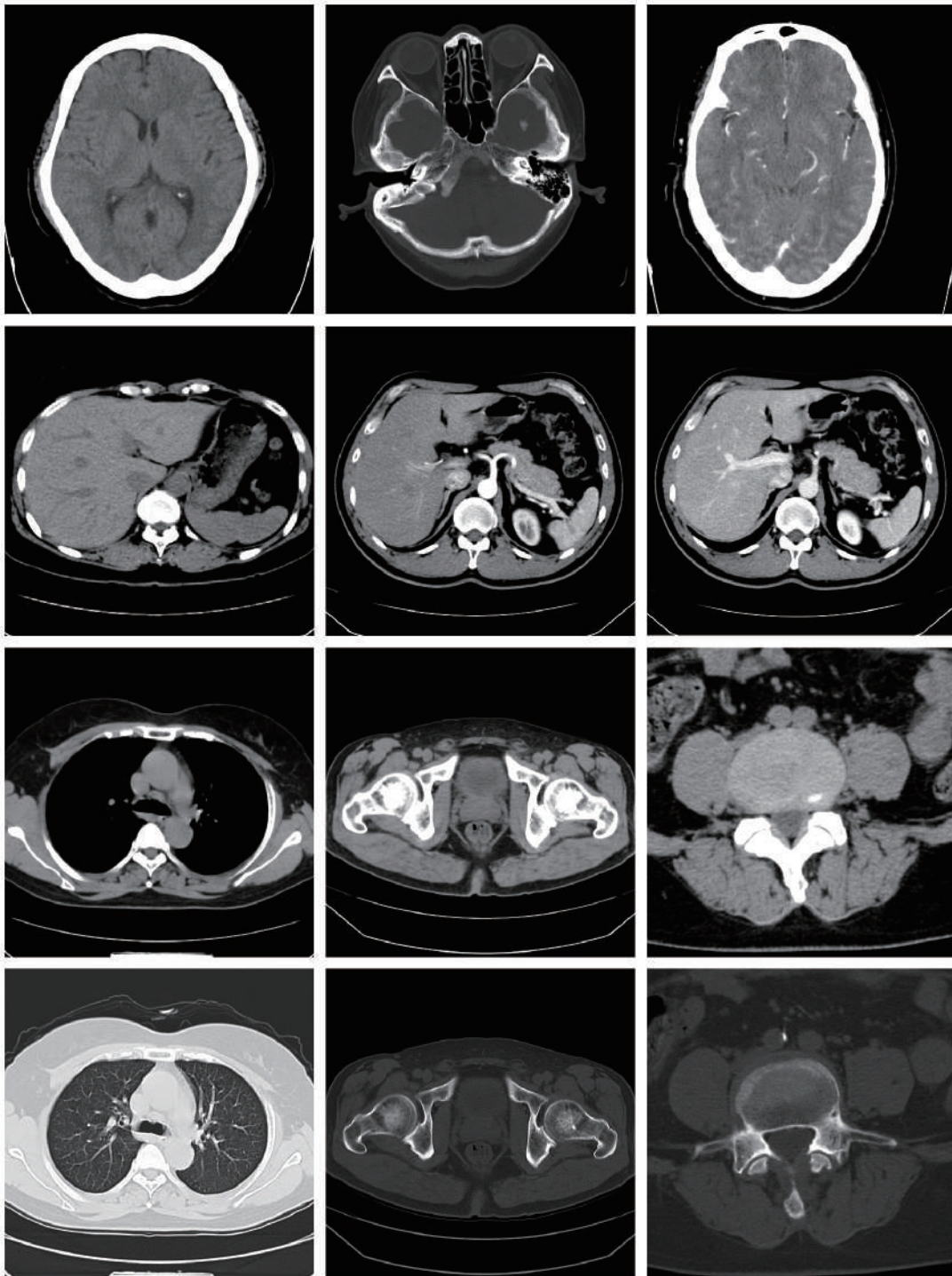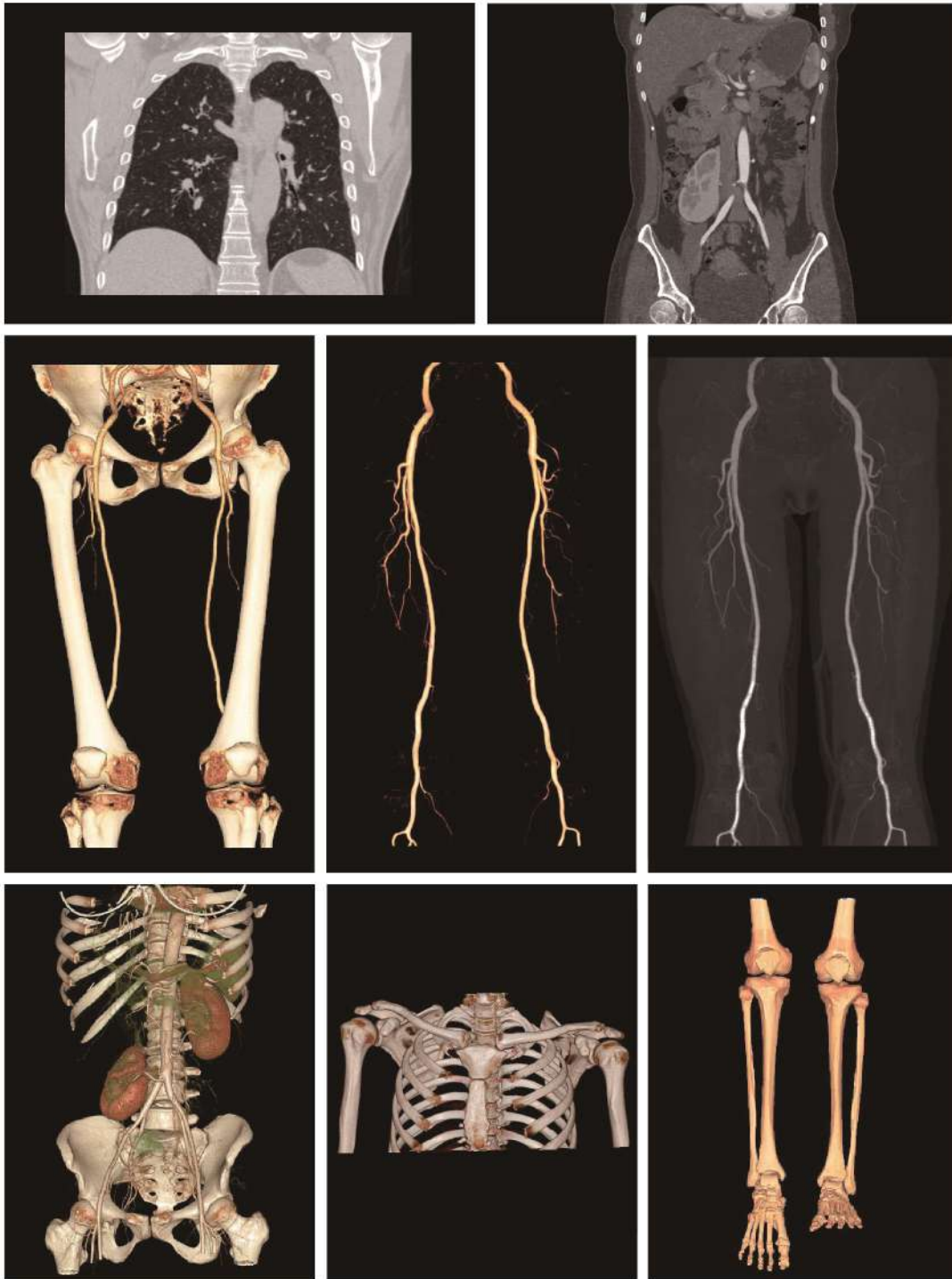

AccumA smart mA modulation
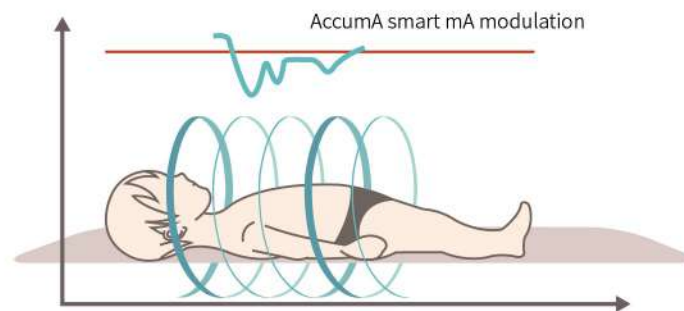
120kV 163 mAs
120kV 83 mAs
120kV 83 mAs (ZTV)

Excellent Clinical Images

Extensive Clinical Protocols

Product Configuration

Item Description

Gantry

Aperture: 70cm

Rotational Speed: 360II in 0.75s

Rotational speed settings：0.75s, 1s, 1.5s

Gantry Tilt：±30°

Tilt function can produce optimal image by alignment of region of interest during head and lumbar spine scans minimizing the dose and extending the X-ray tube life.

3D Laser Alignment System

Internal line laser and external cross line laser make 3D alignment accurate.Single button positioning makes it convenient to operate.

Wide-Angle Gantry Display

Internal line laser and external cross line laser make 3D alignment accurate.Single button positioning makes it convenient to operate.

Smart Breathing Guide

System voice prompt, breathing light and count down timer display coach the patient in holding breath during the chest or abdomen scan to avoid motion artifacts.

Rapid Positioning via A/B Key

User can preset positioning using A/B Key to realize rapid positioning through a single keystroke for frequently used scan protocols.

Recessed E-Stop Design

Avoid accidental touches.

Gantry Cooling Mechanism: Air

Slip Ring Type: low voltage

X-ray Tube and High Voltage Generator

X-ray Tube Type: Dual Metal X-Ray Tube (Metal Enclosure + Liquid Metal Bearing)

Higher performance with continuous scan capability of >200 patient exams per day

Doubling the lifetime of other type X-ray tubes saving significant replacement cost

High-end configuration matching X-ray tubes used solely for cardiac CT systems

X-ray Tube Enclosure Type：Metal

Reliable: Metal has greater strength withstanding higher centrifugal force under high-speed rotation compared with glass.

Durable: Arcing is avoided with no change to field strength with ionization.

Sealable：Keep X-ray tube in tight vacuum state

X-ray Tube Anode Bearing Type：Liquid Metal Bearing

Best Image Quality：Hold the focal spot steady to deliver best images.

Ultra-low degradation：Extend X-ray tube life with zero wear under high speed rotation.

Ultra-high heat dissipation: Dissipate heat 360⊠ all around.

X-ray Tube Model: 0M-200

Generator Power: 32kW

kV Settings: 80kV, 100kV, 120kV, 135kV

mA Range: 10mA~300mA

CT Detector

Scintillator Material: GOS

Slice Thickness: 0.56 mm

Accurate diagnosis of smallest lesion via high-definition images

Enable image smoothing during 3D image postprocessing

Tallest Anti-Scatter Grating

Oneness design of anti-scatter grid with tallest 17mm tungsten plates in the ndustry

110% more scatter noise absorption, reducing effective photon blockage b

2pA Lowest Electronic Noise Level

Lower image noise brings higher image quality.

Classic 24-row Detector Delivering 16-slice Images

Realize best data utilization with 24-row detector design.

Closed Loop Continuous Temperature Control

Tight temperature control under low energy consumption without extra heating element

Patient Table

Horizontal Movement Range: 1700mm

Maximum Weight on Table: 205kg

Large Vertical Movement Range
  Make it convenient for the elderly, children and handicap patients

Smart Patient Table Release Switches

Table Pad
  Pad with wings covering table effectively preventing pinching and liquid spilling

Operator Console

Display Monitor

Console & Recon Computer
  Fast image reconstruction via recon computer equipped with GPU acceleration

Keyboard and Mouse

Control Box
  Support patient table control, scan exposure and intercom in console room

  Single touch emergency stop button

  Single key stroke releasing patient table

Navigational User Interface
  Simplistic workflow with one-click positioning, two-click filming, and three-click scanning helping novice users to operate easily

System & Function

Linux Operating System
  Most robust operating system ensuring reliability and avoiding system crash

Patient Management System
  Patient registration
  Exam protocol selection
  Data acquisition and image reconstruction

Image Processing System
  Image processing: panning, zooming, rotation, measurement, markup and annotation

Filming
  Sheet editing and printing with custom layout

User & Image Management System
  Includes user setting management, DICOM interchange system and gateway for DICOM image transactions

Multilingual User Interface
  Interface to PACS/RIS System, Receive and Send DICOM Images

Clinical Application Software

Automatic Bolus Tracking
Automatically trigger CT scan when contrast media reaches the threshold level with real-time monitoring.

Pediatric Protocols
Protocols optimized to meet clinical needs of children with low dose exposure

Smart mA Modulation Technique - AccumA
Automatic adjustment of scan parameter based on patient's body and target scan area optimizing radiation dose without compromise in image quality

Three-Domain Iterative Algorithm - ZTV
Breaking the projection data and image data limitation by conventional iterative algorithms, ZTV algorithm includes the raw data achieving 50% dose reduction while maintaining the image quality.

Artifact Correction Software

Low Dose Scan Function

Multi-Planar Reformation (MPR)

Maximum Intensity Projection (MIP)

Minimum Intensity Projection (MinIP)

Curved Planar Reformation (CPR)

Average Intensity Projection (AIP)

Volume Rendering (VR)

Power Supply & Accessories

Power Supply
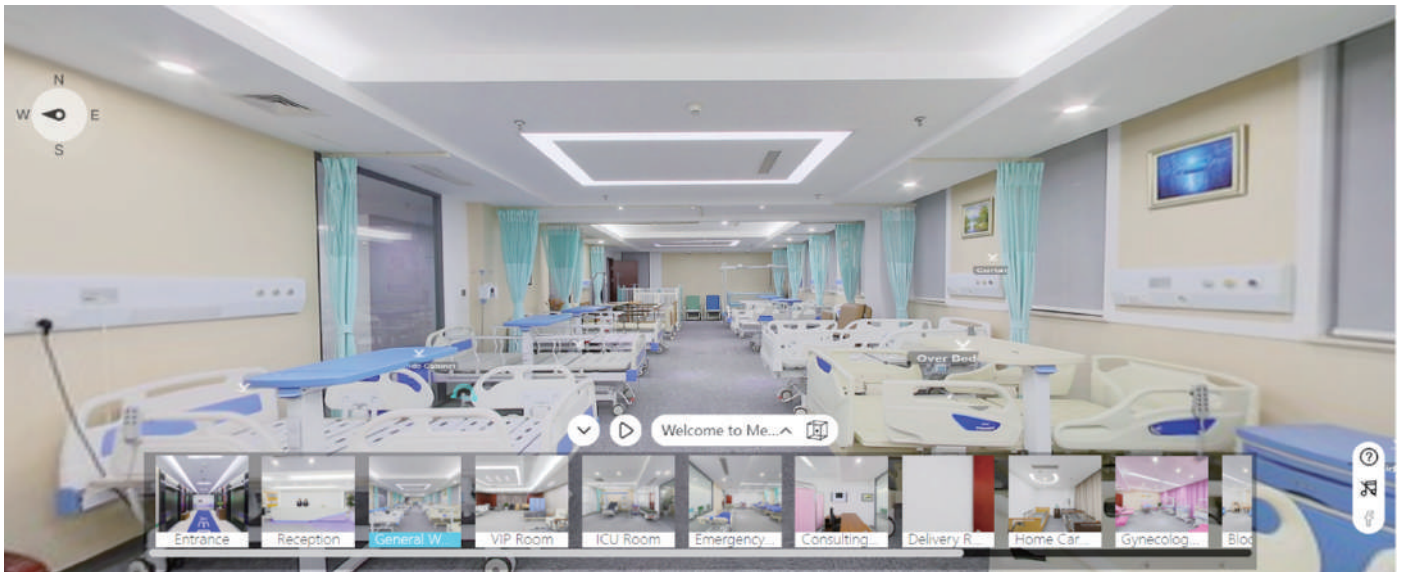Power Distribution Unit with isolation transformer function

Intelligent voltage stabilization and noise reduction, no additional voltage regulator needed

Accessories
Headrest with pad

Water phantom for quality assurance

Medwish.com

Medwish.com, founded by Jiangsu Medwish Network Technology Co., Ltd in 2018, is one of the largest global B2B marketplaces for medical equipment, financing services, and new hospital project services.There are 10,000 + products, 2000 + factories over there. The key features include:

Full Category Supply Capability
14 full product categories cover the whole medical industry chain.

Online Payment System
Support Multiple Payment Systems, including PayPal, T/T, Credit Cards, L/C, etc.

Save time and Money for Your Hospital
We cut off all the intermediate processes so that you can buy directly from the factory by saving 30-60% of the total production cost for your hospital projects.

Financing Services
Both order financing and project financing are available. You're able to apply online.

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