Beyond Boundaries in Healthcare:
Pioneering the future with Medical Imaging

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* The actual product shall prevail. All pictures in this manual are for reference only. *

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RayNova DRtc1 Plus

Digital X-ray Radiography System

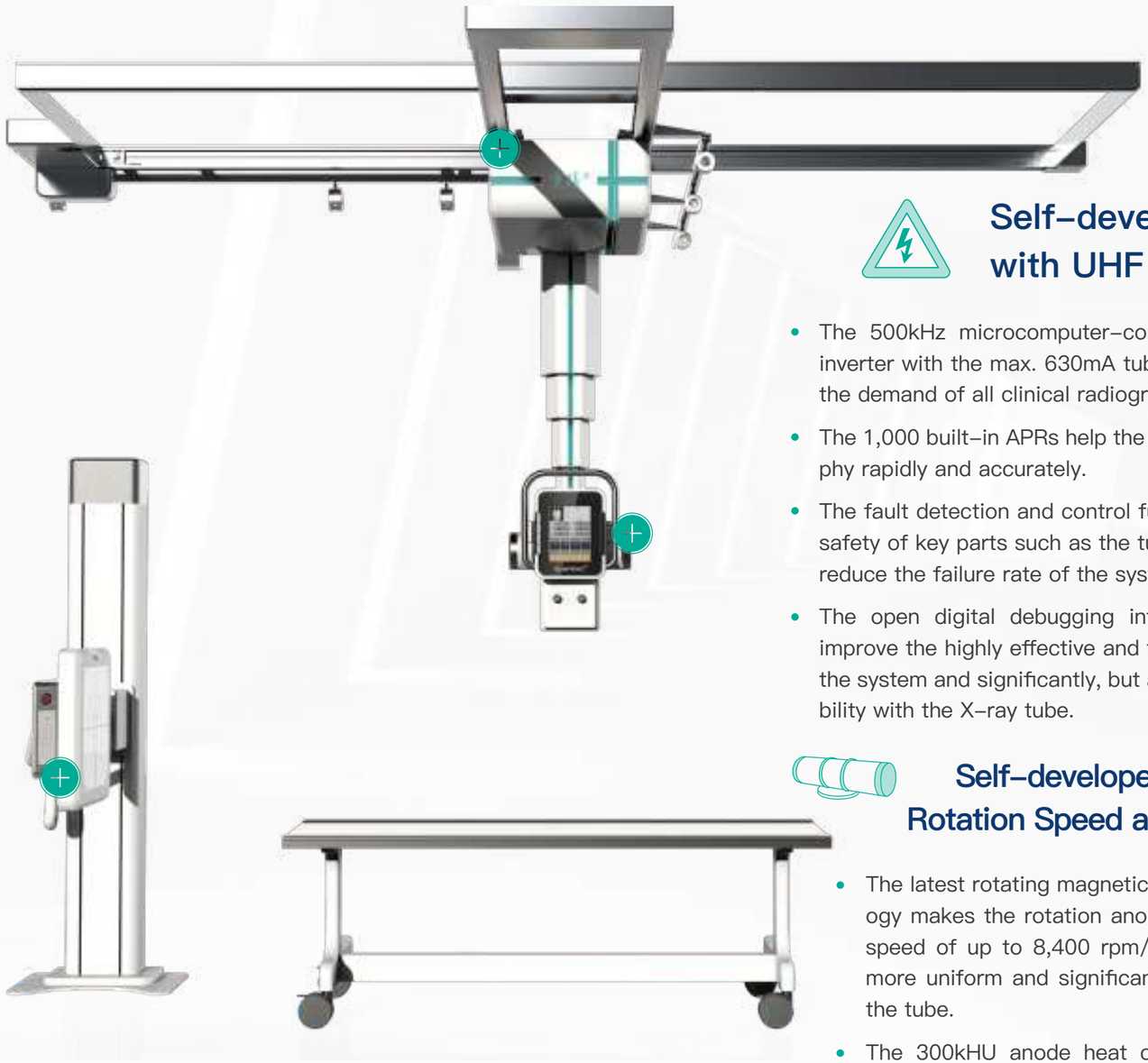
寬騰 KUANTENG

Selected Hard Core Image Chain System

Excellent Performance for You

10–Axis Jointed Intelligent Suspension System

- With the motor driving, lighter operation and accurate positioning, the 10–axis jointed synchronous movement can automatically switch the vertical and horizontal positions, accurate point positioning and three dimen–sions spatial movement according to the clinical radiog–raphy demand.
- One–key switching mode makes the common position–ing no longer complicated. The suspension telescopic system can move smoothly, evenly, gently and quietly.
- The suspension mechanical part includes multiple pro–tection device and motion control device as well as the emergency state feedback system, and has passed 300,000 times of movement aging tests, which ensures the overall safety of the system.



Self–developed hundred–micron wireless flat panel detector

- The flat panel detector adopts a 17×17–inch full–size design with the features of easy positioning and no missing areas, which greatly improves the rate of grade A images.
- Up to 9,400,000 total pixel value, 139μm pixel pitch and 16bits image dynamic range rich image layers and elab–orate image details.
- Detector wireless communication technology has a strong interference resistance capacity for reducing the subsequent cost of cable replacement.
- The direct growth cesium iodide needle–like structure with ultra–high DQE enables lower radiation dose to show more image details while minimizing the noise.

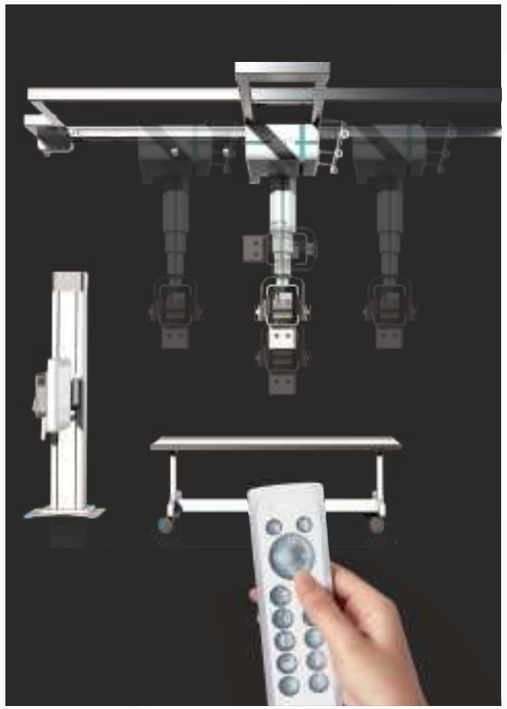
Self–developed HV Generator with UHF Inverter Technology

- The 500kHz microcomputer–controlled HV generator with UHF inverter with the max. 630mA tube current and 630mAs can cover the demand of all clinical radiography parameters.
- The 1,000 built–in APRs help the operators complete the radiogra–phy rapidly and accurately.
- The fault detection and control function can effectively ensure the safety of key parts such as the tube and detector etc., and greatly reduce the failure rate of the system.
- The open digital debugging interface effectively not only can improve the highly effective and fast digital debugging capacity of the system and significantly, but also greatly improve the compati–bility with the X–ray tube.

Self–developed X–ray Tube with High Rotation Speed and Large Heat Capacity

- The latest rotating magnetic field high speed driving technol–ogy makes the rotation anode realize the ultra–high rotation speed of up to 8,400 rpm/min, making the emitted X–rays more uniform and significantly increasing the service life of the tube.
- The 300kHU anode heat capacity ensures the continuous operation of the tube without interruption when there is a high volume of patients during clinical use.

Focused on Intelligent Concept
Devoted to Humanized Design



Handheld Remote Control System

With the rechargeable design, long emission distance and smooth operation without blocking by walls, this system covers almost all common-used functions of the clinical examination. The user can control the movement of the suspension system freely according to the examination requirement, and improve the working efficiency by 80%.

Oversized Close-table PAD System

The exposure parameters can be adjusted by the pre-set 3D positioning guidance on the touch screen. The 10.4-inch touch screen can display the patient information and mechanical motion data, and the real-time information is clearly displayed. The appearance and function fit perfectly through the human-computer interaction design.

Innovative Multi-configuration Table Upgrading Mode

ZHANG HE series products are loyal to the humanized and innovative design concept. The user can upgrade the standard mobile table to the optional four-way floating table and the motorized lifting table according to the using environment and demand, giving more options to the users.

Pluggable and Mobile Grid

The grid can be plugged or unplugged flexibly according to the practical clinical examination demand, which is convenient and fast, and greatly improves the working efficiency.

One-key Start

Realize the one-key overall start/shutdown control of the mechanical system, electrical system, HV generator, software system and computer system, which can start quickly, simply, and effectively. No warm-up is required after start. The whole system enters the working state at the first time.

Iteratively Upgraded Software System

Newly-developed Dual-energy Subtraction Rib Removal Function

The technology of separating the image of ribs in the ordinary X-ray chest image and obtaining the soft tissue image has a qualitative change in the accuracy of clinical diagnosis.

Long Bone Stitching Function

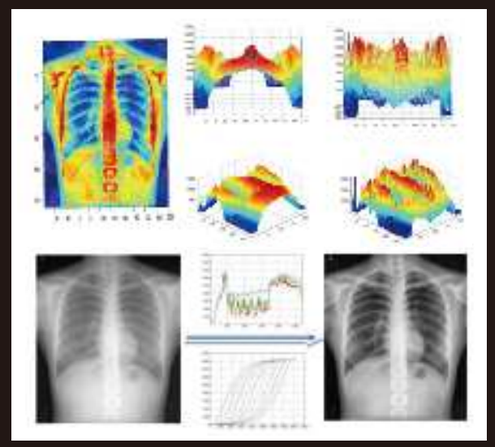
The self-developed, latest and most advanced algorithm and technology can complete the marker-free stitching imaging to ensure the gray contrast uniformity and integrity of the stitching image.

Automatic Identification of Effective Tissue Imaging Area

Improve the effective tissue contrast resolution by suppressing the invalid imaging area and processing fixed grid shadow, automatically extracting and removing the artifacts other than that of the human body.

Tissue Equalization Technology

The algorithmic width stretching and space filling of the original image in the display range can greatly increase the amount of the original data, and further increase the amount of processable data to improve the data integrity.



Professional Medical Acquisition Workstation Created with Ingenuity

Windows OS

The medical image acquisition and processing workstation based on this OS is currently the highest level in terms of technological content, stability and working efficiency.

23.8-inch Professional Medical Display

Through the strict DICOM calibration, accurate display of medical image and fine details can meet the high precision requirements of medical images.

Five-in-one Workstation

The system includes five modules such as patient management, image acquisition and HV generator control, image processing, film printing and diagnosis report, truly realizing one-stop operation so that one workstation plays the role of multiple workstations, which saves a lot of costs for users.

Rich Clinical Application Software

The system contains rich image processing and management functions, among which a variety of advanced processing functions can optimize the acquired images.