

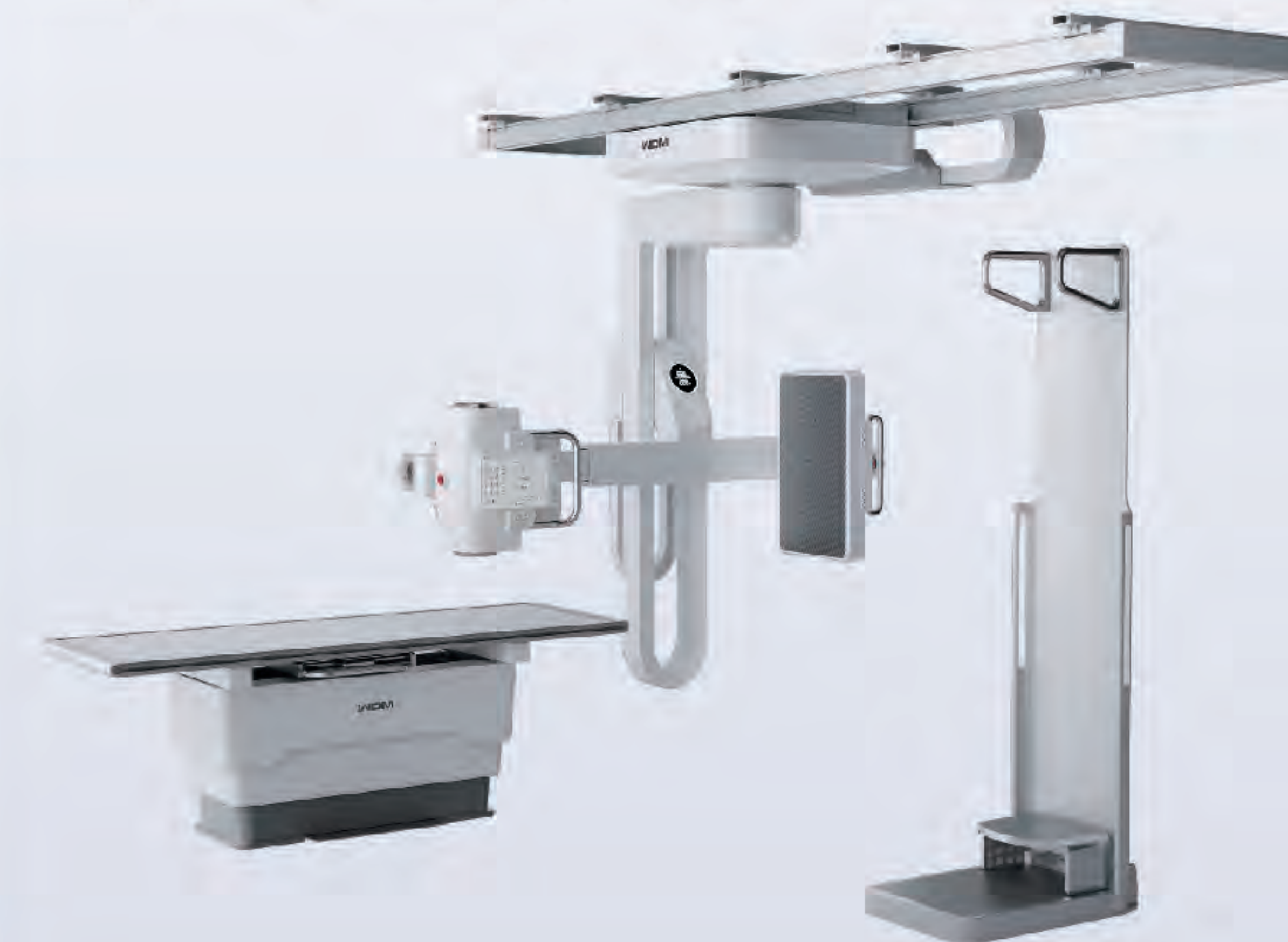
# High-Definition Imaging Reliable Performance

## WD-CBCT 600 Series

### Weight Bearing 3D Imaging System

CBCT600 features weight-bearing 3D imaging, ultra-wide dynamic capture, and intelligent diagnosis—enabling high-definition anatomical visualization and precise functional pathology assessment. Designed for orthopedics and sports medicine, it delivers a low-dose, high-efficiency, all-in-one imaging solution for diverse clinical scenarios.

Winner of the iF Design Award 2025, CBCT 600 introduces a new concept in weight-bearing 3D imaging.



01

#### 80kW High Voltage Generator

Delivers efficient and stable X-ray output with minimal scatter radiation, ensuring clearer imaging.

03

#### Wide-Field Detector

2D FOV: 61 × 43 cm, 3D FOV: 43 × 25 cm.

05

#### Tele-eye Intelligent Visual Navigation System

Ensures accurate positioning and streamlined workflow.

07

#### Intelligent Software Platform

Rapid reconstruction of high-quality MPR, MIP, and VR 3D views.

02

#### High-Capacity X-ray Tube

Supports extended operation for high-throughput environments.

04

#### Integrated Gantry Design

Enables fast 16-second imaging and effectively reduces artifacts.

06

#### Low-Dose, High-Efficiency Scanning

Customized protocols reduce radiation exposure without compromising image quality.

08

#### Smart Control, Efficient Operation

Supports upright, supine, and weight-bearing scanning modes.

# New Oriental 1000L Series

## Long-length Imaging DR

Equipped with a seamless 120 cm ultra-wide field of view, single low-dose exposure, and an intelligent AI measurement system, the long-length imaging DR system offers an efficient, solution—from high-quality image acquisition to precise quantitative diagnosis. It is ideally suited for clinical applications such as scoliosis assessment, lower limb alignment analysis, and trauma care.



**01 80kW High Voltage Generator**  
Delivers efficient and stable X-ray output with minimal scatter radiation for enhanced image clarity.

**03 Low-Dose, Single-Exposure Imaging**  
Provides long-length imaging of the spine and lower limbs in a single shot.

**05 Exceptional Image Quality**  
Powered by advanced algorithms for high-definition imaging.

**07 Smart Assistance \***  
Automated measurement of Cobb angle and lower limb alignment.

**02 Ultra-Wide Field Imaging**  
120 cm flat panel detector avoids stitching errors for full-spine and full-limb coverage.

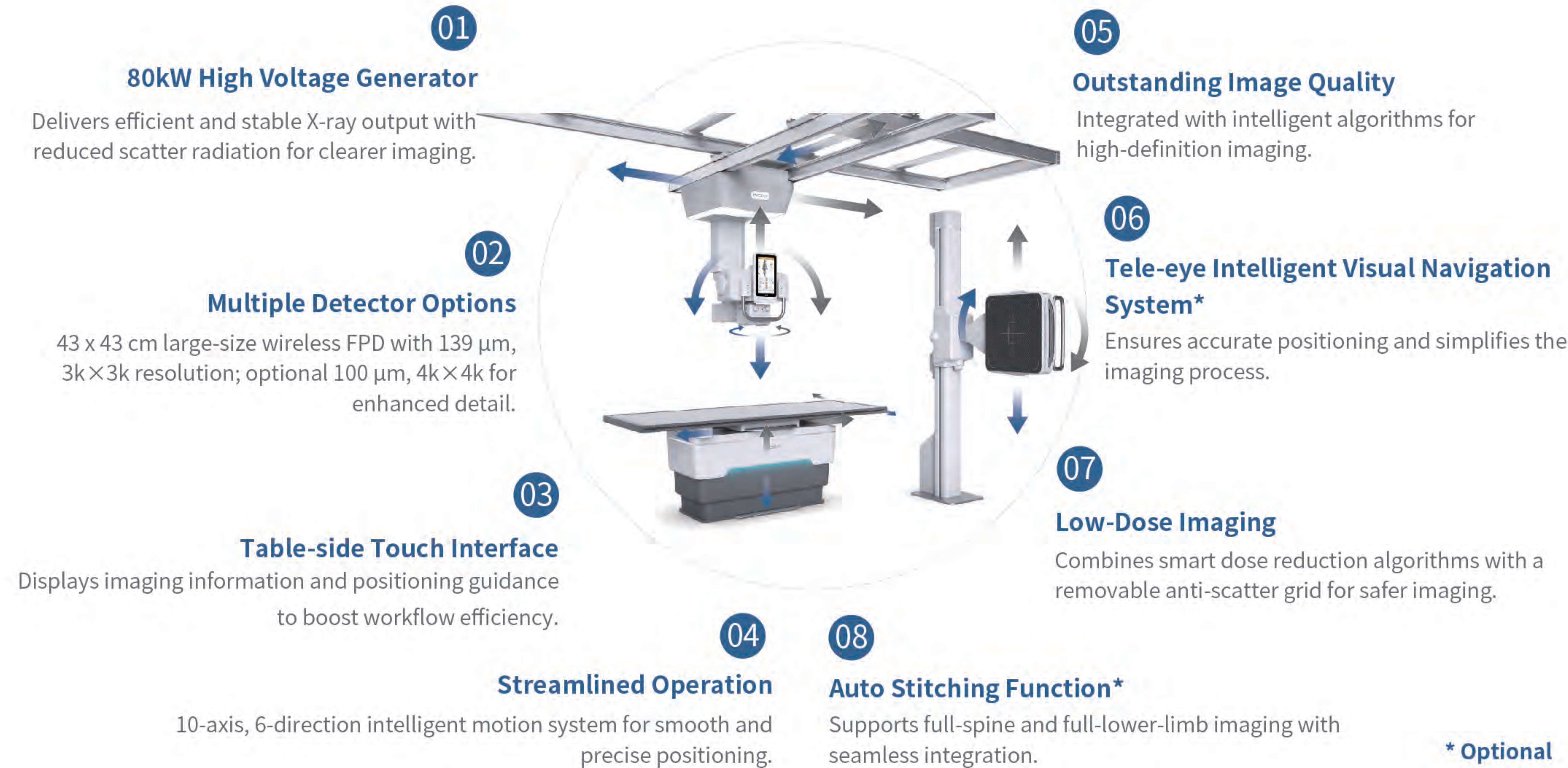
**04 Streamlined Workflow**  
10-axis coordinated motion with 6-direction synchronized tracking for seamless operation

**06 Tele-eye Intelligent Visual Navigation System**  
Ensures precise positioning and simplifies the imaging process.

**08 Versatile Applications**  
Ideal for orthopedics, spinal surgery, and joint deformity correction.

# New Oriental 1000F Series

## Fully Automatic Ceiling Suspended DR



**01 80kW High Voltage Generator**  
Delivers efficient and stable X-ray output with reduced scatter radiation for clearer imaging.

**02 Multiple Detector Options**  
43 x 43 cm large-size wireless FPD with 139  $\mu$ m, 3k  $\times$  3k resolution; optional 100  $\mu$ m, 4k  $\times$  4k for enhanced detail.

**03 Table-side Touch Interface**  
Displays imaging information and positioning guidance to boost workflow efficiency.

**04 Streamlined Operation**  
10-axis, 6-direction intelligent motion system for smooth and precise positioning.

**05 Outstanding Image Quality**  
Integrated with intelligent algorithms for high-definition imaging.

**06 Tele-eye Intelligent Visual Navigation System\***  
Ensures accurate positioning and simplifies the imaging process.

**07 Low-Dose Imaging**  
Combines smart dose reduction algorithms with a removable anti-scatter grid for safer imaging.

**08 Auto Stitching Function\***  
Supports full-spine and full-lower-limb imaging with seamless integration.

\* Optional

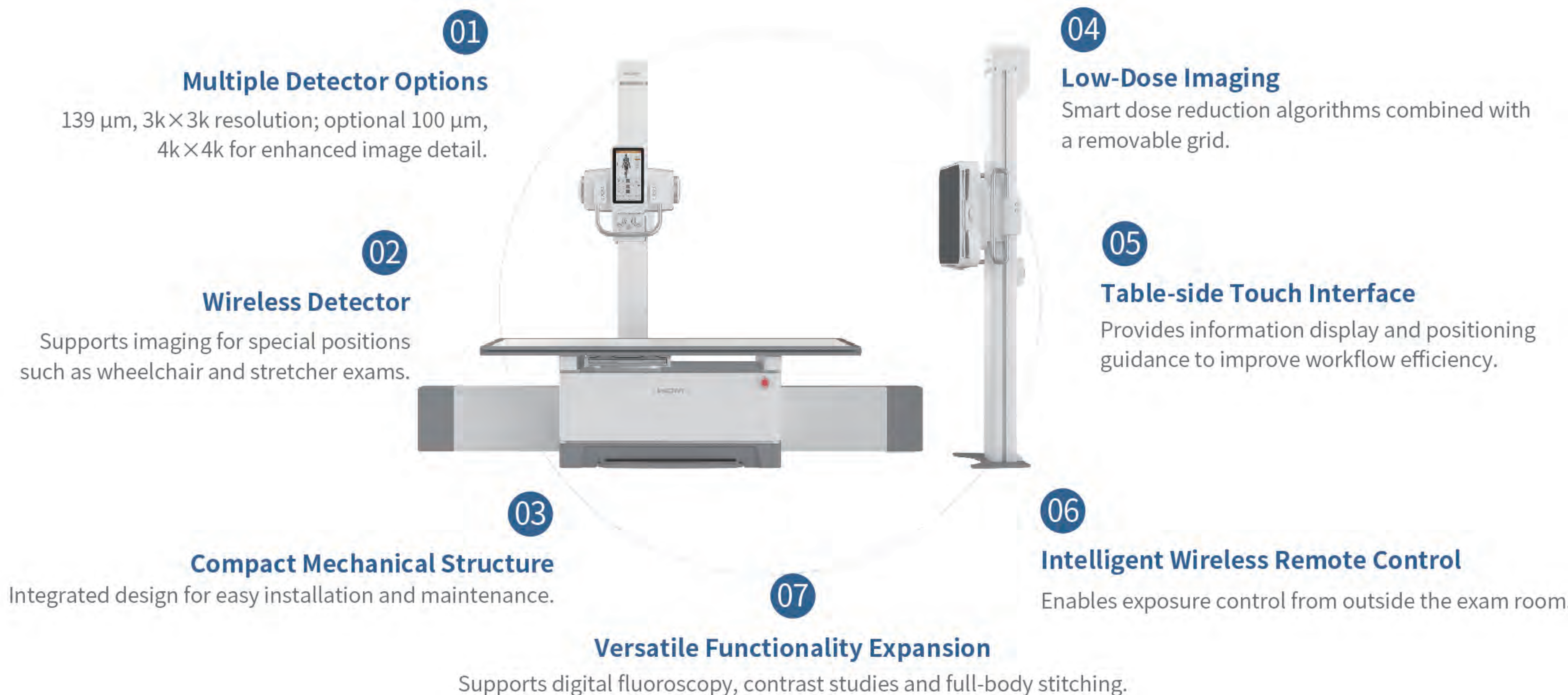
# New Oriental 1000U Series

## U-arm DR



# New Oriental 1000N Series

## Integrated Floating Table DR



# New Oriental 1000N Series

## Floor-rail Tube Column DR



**01 Multiple Detector Options**  
139  $\mu\text{m}$ , 3k $\times$ 3k resolution; optional 100  $\mu\text{m}$ , 4k $\times$ 4k for higher image clarity.

**02 Wireless Detector**  
Accommodates special imaging positions such as wheelchair and stretcher exams.

**03 Floor-Mounted Design**  
Simplifies positioning and enhances operational flexibility. Supports fully motorized movement and remote control.

**04 Low-Dose Imaging**  
Combines intelligent dose reduction algorithms with a removable anti-scatter grid.

**05 Table-side Touch Interface**  
Displays key information and guides positioning to improve workflow efficiency.

**06 Smart Wireless Remote Control**  
Allows exposure control from outside the exam room.

**07 Versatile Functionality Expansion**  
Supports digital fluoroscopy, contrast studies, fully automatic stitching.

# Clinical Applications



**Orthopedic Disease Diagnosis**

With exceptional image quality and 100  $\mu\text{m}$  resolution, fine details such as fracture lines and trabecular structures are clearly visualized, enabling accurate detection of complex and stress fractures. Integrated AI-powered measurement tools quickly provide key parameters such as Cobb angle and joint space width, supporting surgical planning for fracture reduction, internal fixation, scoliosis correction, and joint replacement. The full-body stitching function delivers a complete view of the entire spine and lower limbs, helping clinicians evaluate overall skeletal deformities.



**Pulmonary Disease Screening**

Delivers ultra-clear visualization of pulmonary markings and branches, enabling early detection of lung inflammation, interstitial lesions, and small pulmonary nodules. The integrated intelligent pre-screening function quickly highlights suspicious lesions, improving reading efficiency for clinicians. Ideal for large-scale screening scenarios such as health checkups in medical examination centers and primary healthcare institutions.



**Gastrointestinal Disease Diagnosis**

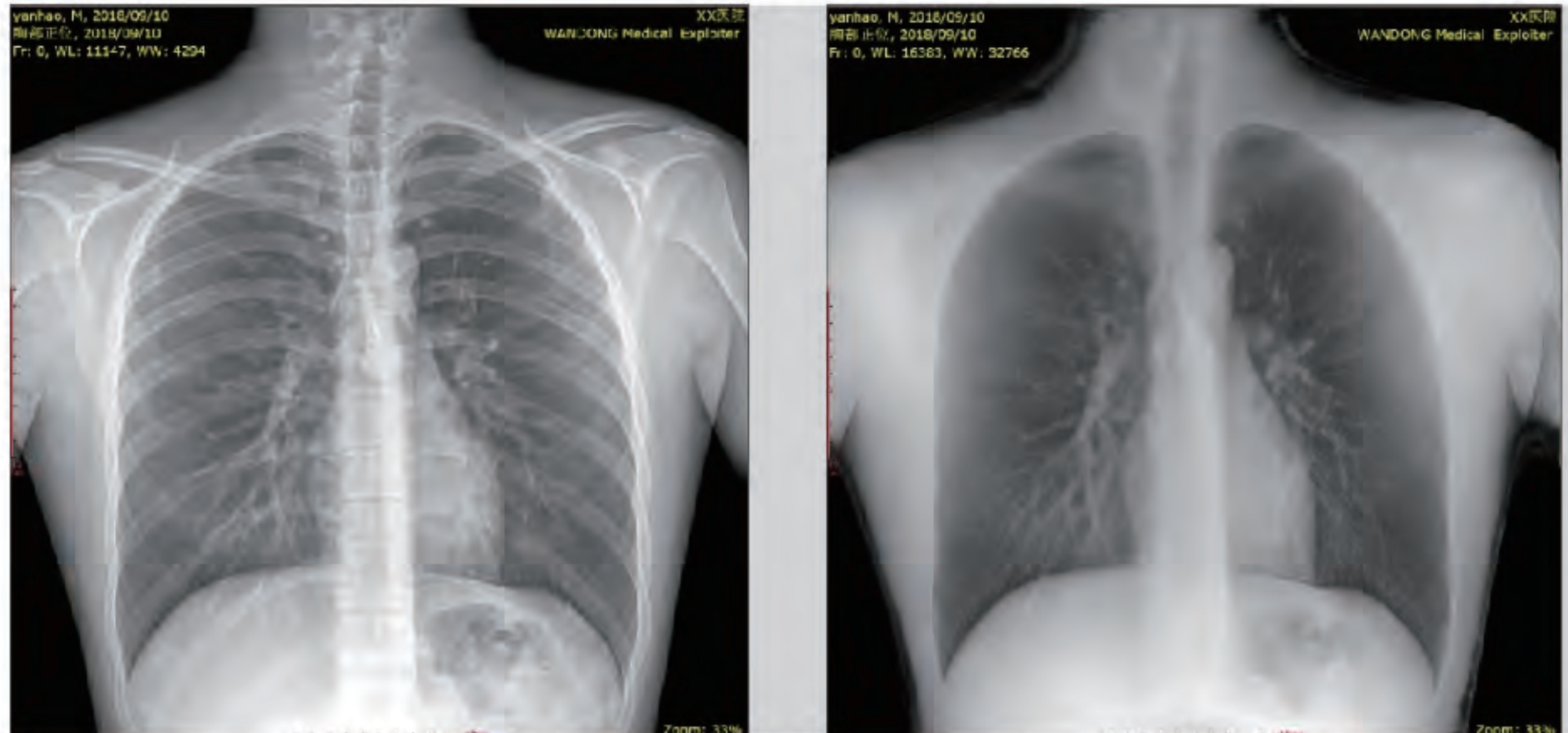
Dynamic imaging demonstrates clear advantages in gastrointestinal contrast studies. The high-definition dynamic flat panel detector delivers multiple frames per second, enabling real-time visualization of gastrointestinal motility and emptying. It provides clear observation of mucosal patterns and filling defects in the esophagus, stomach, and intestines, supporting accurate diagnosis of conditions such as esophageal cancer, gastric ulcers, and intestinal tumors.



**Imaging for Special Populations**

Low-dose design is ideal for radiation-sensitive groups such as children, pregnant women, and patients requiring frequent follow-ups—reducing radiation exposure while maintaining diagnostic accuracy. User-friendly features like a motorized elevating table and one-touch auto-positioning enhance accessibility for patients with limited mobility, improving the overall examination experience.

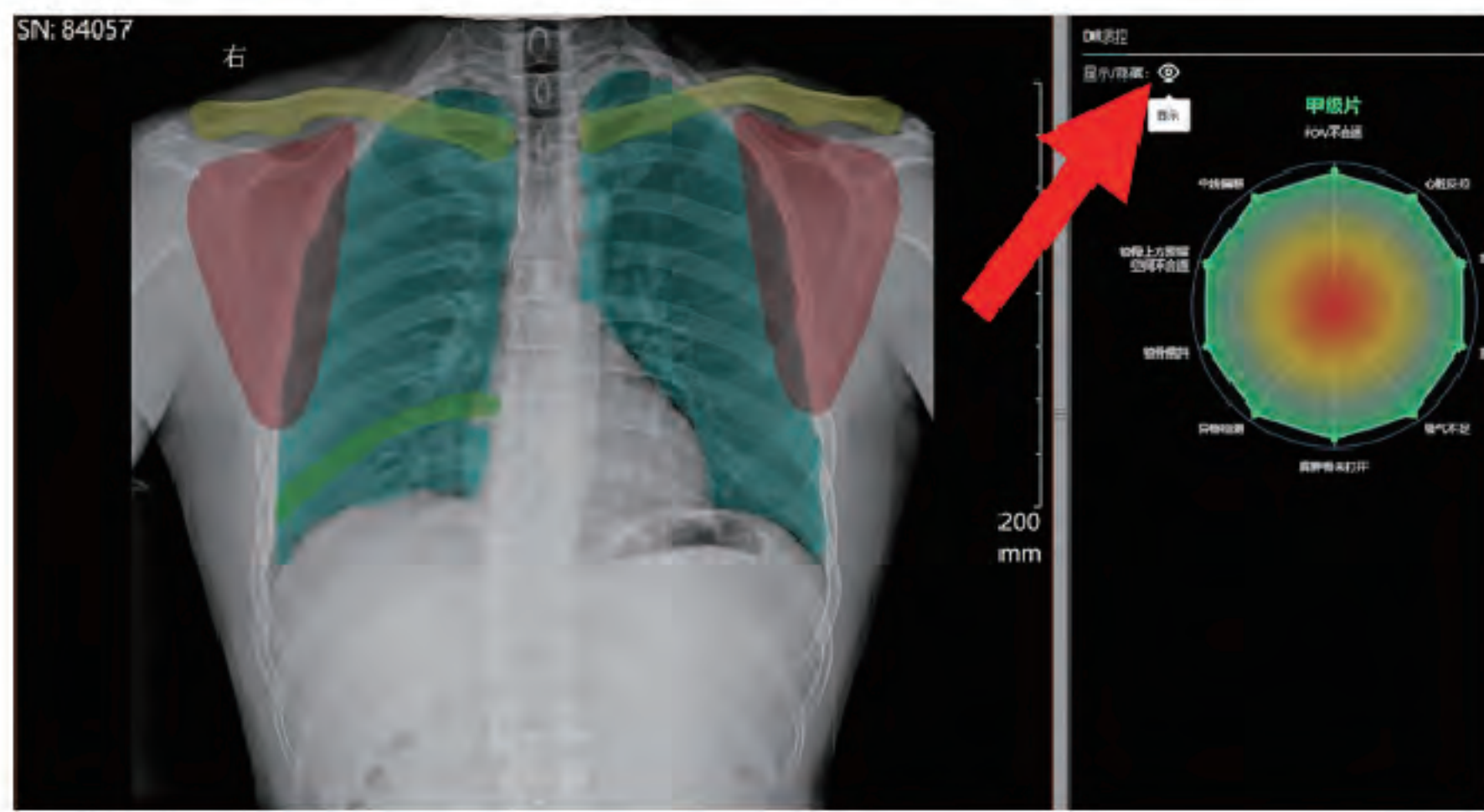
# Product Highlight



### Deep Learning: Bone Suppression Imaging

Keep the textures and lesion completely  
Complete thoracic extraction of high resolution  
One-click removal of all ribs and collarbones

## Deep Learning: Quality Control of Chest X-rays



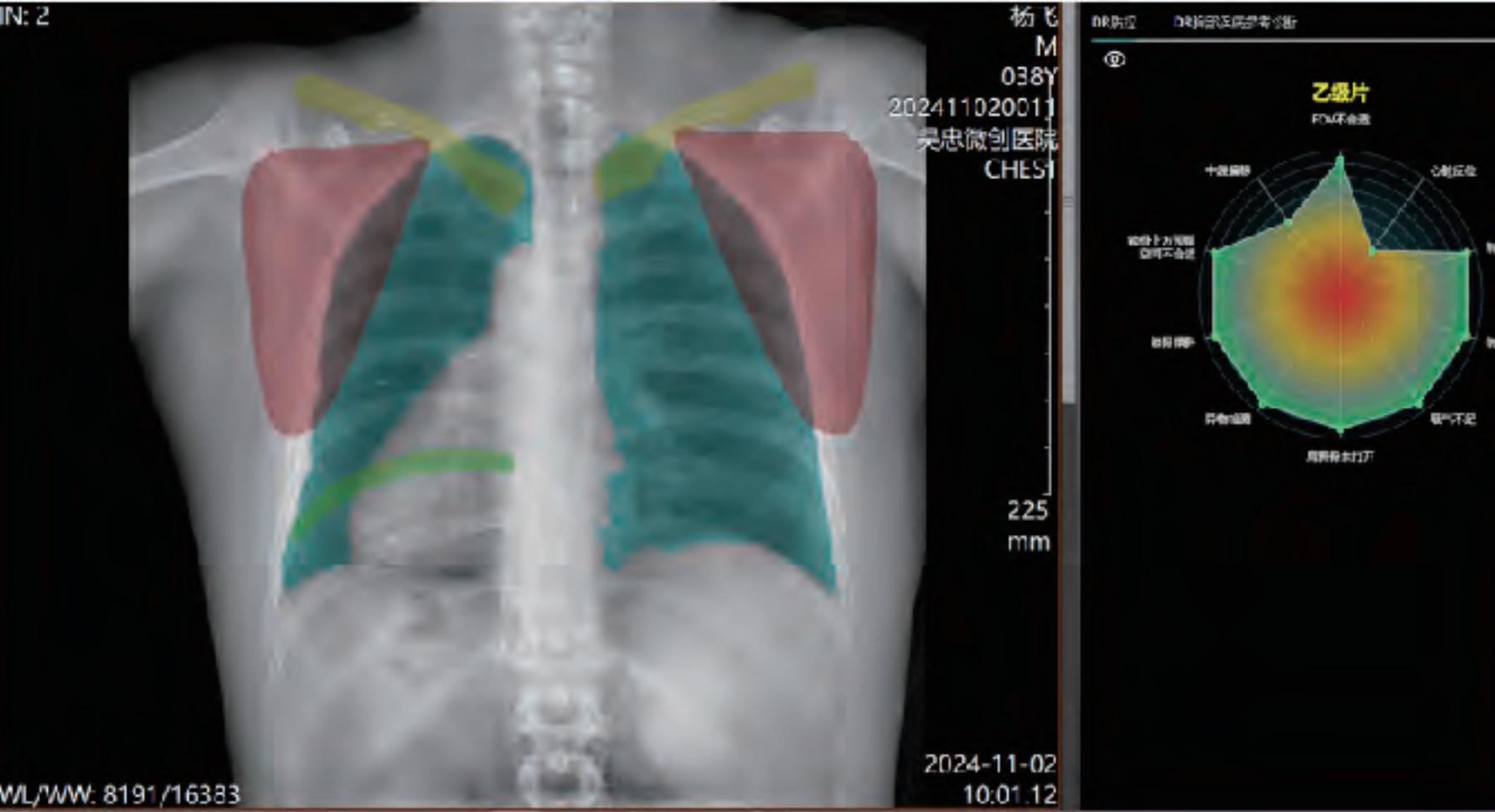
### Identify organs automatically

The system will automatically identify the lungs, collarbone, the eighth rib , and the scapula, and mark these organs with different colors



### Proper space above the clavicle

The recommended range is 2 to 5 cm.



### Cardiac situs inversus

Determining if the heart is positioned on the right side

# Product Highlight



## Flat Panel Detector Communication Control System

Enhances system stability and improves code reliability and maintainability. Enables faster image acquisition and transmission, reducing image wait times and minimizing signal loss.



## Line Noise Elimination Technology

The line noise is eliminated while no image detail loss, keeping high edge resolution with no extra artifact generated.



## Fully Automatic Stitching Technology

Through coordinated commands between the system’s software and hardware, the gantry and table move automatically, reducing patient positioning time. Proprietary image stitching algorithms rapidly process multiple overlapping images—including denoising, similarity calculation, matching, stitching, and fusion—to generate a single, long-format high-resolution image.



## Visualized Intelligent Positioning Technology

Leveraging RNNs, LSTM, and CNN-based models, the system identifies key anatomical landmarks and classifies common positioning postures in DR exams. It detects the target body part, determines its spatial location within the coordinate system, and calculates the necessary direction and distance for gantry movement. This reduces manual positioning, minimizes direct contact with patients, improves workflow efficiency, and lowers radiation exposure for clinicians.



## Automatic Window Width/Level (W/L) Adjustment Technology

Automatically calculates optimal window width and window level based on different anatomical positions and tissue types. Maximizes the effective dynamic range of the display, avoids data compression, enhances visualization of regions of interest, and reduces manual adjustments—streamlining workflow and improving efficiency.

# Clinical Image

