

## Motion platform, a unique innovation by Raydose!

The motion platform supports movement along the X and Y axes. When only the AS600 is used, the scanning range is 470mm×470mm×400mm. With the motion platform, the scanning range can be expanded to 580mm×580mm×400mm, and it can automatically complete positioning, locating the isocenter, and other operations.

## Convenient and efficient operation, saving time.

- The software can control the AS600 to automatically perform tasks such as positioning, isocenter localization, and level detection.
- The algorithm automatically completes the measurements in the task queue along the shortest path.
- Pre-set measurement templates are provided to minimize user input time.

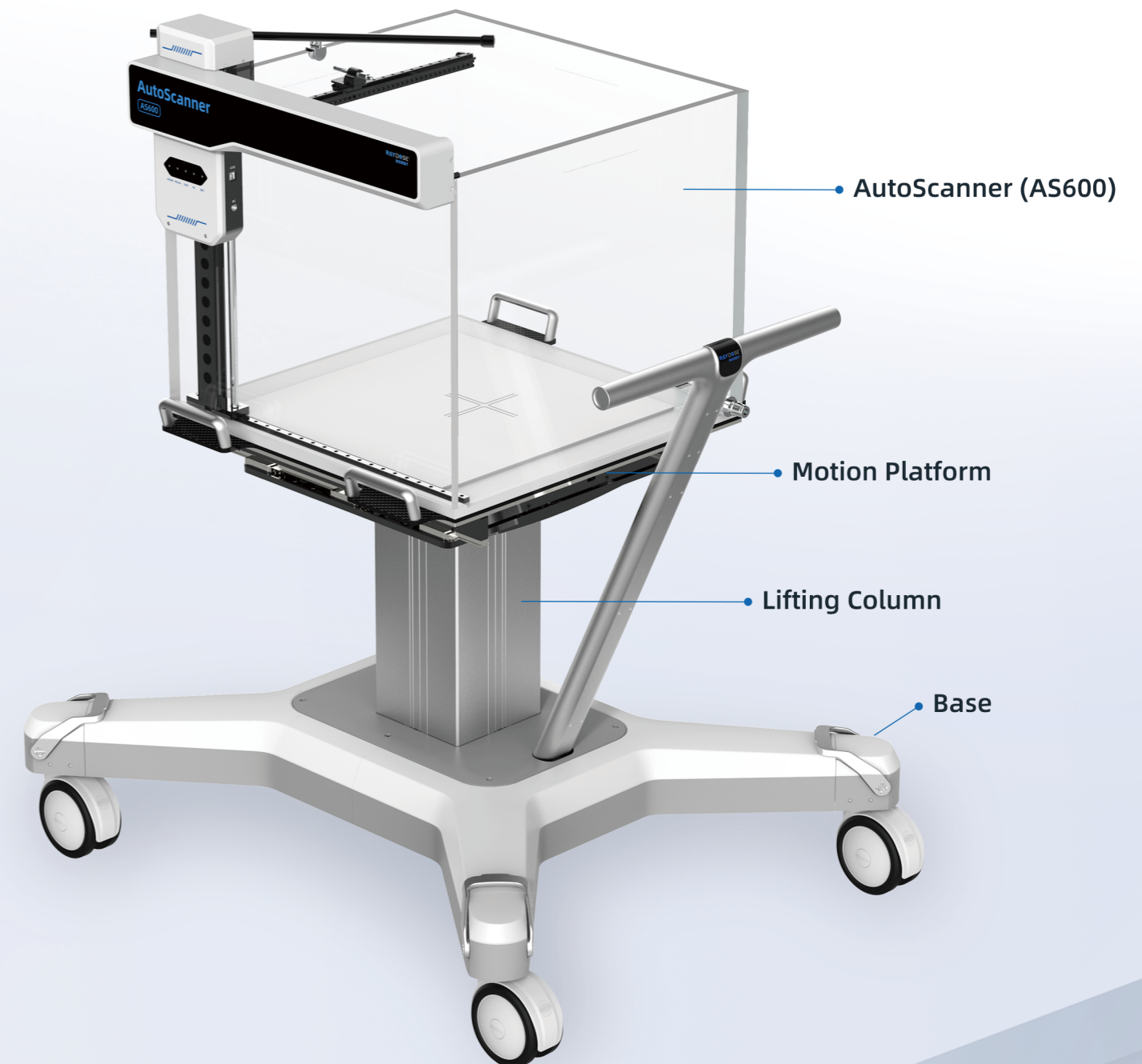


-Mover-



-Remote Control-

# AS600

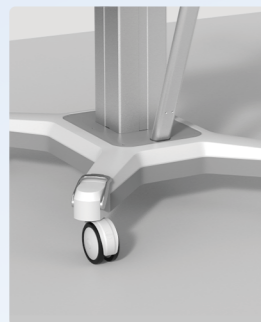


# Hardware: Easy Operation, Accurate Measurement



## AutoScanner 600 (AS600)

- The single cantilever design occupies less space and provides a larger effective scanning range in the box.
- The split design features a handle at the bottom of the AS600, making it easier to separate and transport. Additionally, this design allows the AS600 to be used with C-arm and O-ring type linacs.



## Base

- Dimensions (L\*W\*H):  
Normal Status: 1100mm\*920mm\*710mm  
Extended Status: 1330mm\*1130mm\*1110mm
- Equipped with 5-inch large-diameter casters, it can easily pass through room thresholds or uneven surfaces.
- The retractable casters allow the AS600 to avoid the bottom disc when measuring, ensuring stability and measurement accuracy.



## Stainless Steel Ball Screw Guide Rail

- The high-precision rails ensure accurate displacement, achieving higher scanning precision.
- The encoder positions the detector with an accuracy of up to 0.1mm.
- The hollowed-out design reduces water ripples during movement.



## AutoScanner CCM (Core Control Module)

- It features high sensitivity, capable of detecting weak charge and current signals, with low noise, stable performance, and durability.
- The CCM transmits power, data, and signals through the P/D interface, combining multiple cables into one device, simplifying connections and operations.
- Measurement data can be transmitted via wired or wireless connection.



## AutoScanner RC (Remote Control)

- Controls the movement of the motion platform, enabling reset, horizontal positioning, center point setting and positioning, and target position alignment.
- Displays status information such as temperature, air pressure, and detector signals.
- Supports network settings and allows switching between wired and wireless connections for the AS600 and computer.



## AutoScanner Reservoir

- Independent, flexible, and easy to move.
- Equipped with an automatic water extraction & drainage system, it can complete a full extraction or drainage operation in about 6 minutes.
- Total Capacity: 180L

## Parameters

### AS600

Box External Dimensions (L*W*H)	724mm*665mm*624mm
Box Internal Dimensions (L*W*H)	585mm*575mm*497mm
Box Wall Thickness	15mm
Volume	151.7±1L
Weight	38.4±1kg

### Scanning

AS600 Only (L*W*H)	470mm*470mm*400mm
AS600 + Mover (L*W*H)	580mm*580mm*400mm
Scanning Mode	Step Mode, Continuous Mode
Scanning Speed	≤50.0 mm/s
Min Step Length	0.1mm
Repeatability	≤0.1mm

### Motion Platform

Dimensions (L*W*H)	1100mm*920mm*710mm
Weight	96±1kg
Movement Range	±55mm (X/Y Direction)
Max Speed	5 mm/s

### Lifting Column

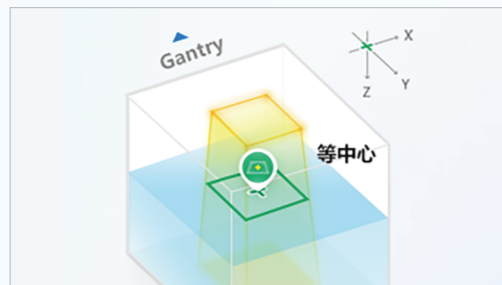
Extension Range	0~400mm
Max Load	300kg
Speed (When Unloaded)	2.8mm/s

### Detector

Supports multiple types of standard detectors.

## Software: Intelligent, Intuitive, Simple

- ▶ Automatic horizontal and isocenter positioning
- ▶ Automatic batch data collection, analysis, and management
- ▶ Supports PDD, OAR (X, Y, diagonal), point dose measurements, and TPR calculation



### Algorithm-Based Rapid Horizontal and Isocenter Positioning

By detecting the isocenter position, the system calculates the angular offset between the horizontal plane and the box's mechanical coordinates to correct the measurement results.

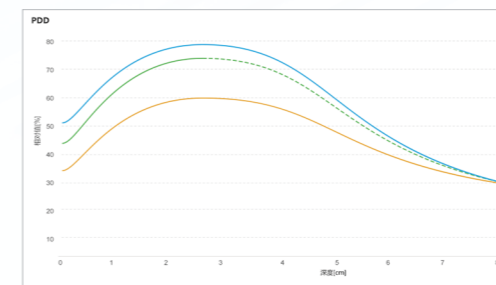
AutoScanner uses algorithms to calculate and correct deviations, allowing for more flexible positioning, accommodating larger errors, thus improving efficiency and reducing setup time.

准备		测量 1L			
序号	能量	射野尺寸 [cm*cm]	数据类型	状态	测量参数
<input checked="" type="checkbox"/>	1	6MV	10*10	PDD	✓ ⓘ
<input checked="" type="checkbox"/>	2	6MV	15*15	PDD	✓ ⓘ
<input checked="" type="checkbox"/>	3	6MV	30*30	PDD	✓ ⓘ
<input type="checkbox"/>	4	6MVFFF	10*10	Point dose	⊘ ⓘ
<input type="checkbox"/>	5	6MVFFF	10*10	Crossline	⊘ ⓘ

### Task Queue Creation and Intelligent Work Planning

The task queue can be created in multiple ways, users can quickly create tasks using built-in system templates or customize their settings.

The software intelligently prioritizes tasks based on energy level, field size, and the detector's shortest movement path, effectively reducing measurement time and workload for the entire project.



### Data Collection and Analysis

The software automatically starts data collection and displays the result curve in real-time when the detector detects the radiation beam.

The software automatically analyzes the measurement results based on preset parameters and analysis protocols.

Supported analysis protocols: AAPM, IAEA, IEC, Varian, Elekta, GB15213, etc.



### Clear and Intuitive Data Management Platform

The interface displays data summaries, allowing users to quickly view detailed information by simply clicking on each item.

The software offers one-click operations such as open, import, export, and print, enhancing work efficiency.