



**Klarity** TRiNiTi®

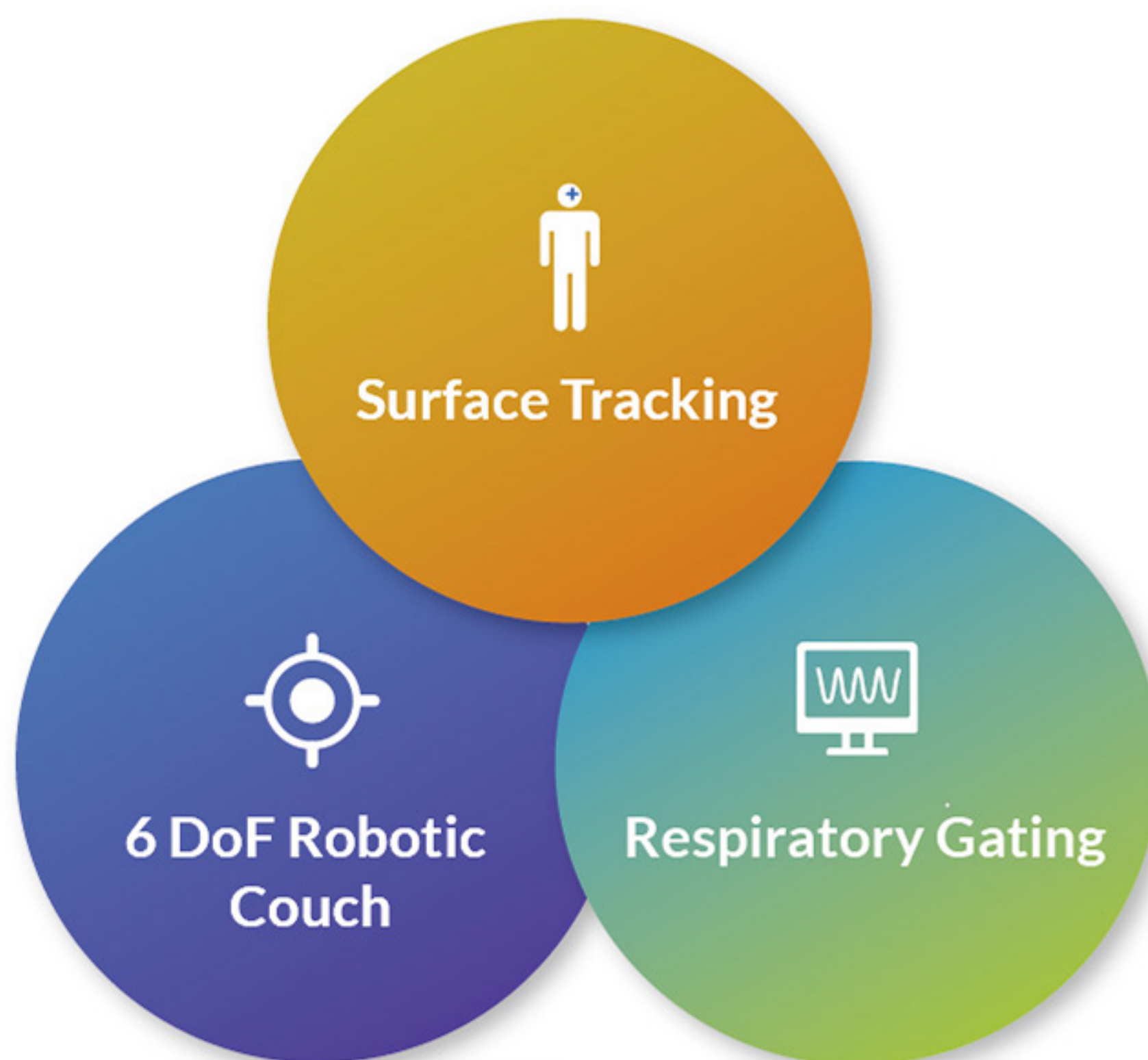
# Radiotherapy Patient Positioning System

- Surface Tracking
- 6 DoF Robotic Couch
- Respiratory Gating

**Klarity**®

# Klarity TRINITI<sup>®</sup> Radiotherapy Patient Positioning System

Klarity TRINITI<sup>®</sup> Patient Positioning System is co-developed by the top radiation therapy center and Klarity Intelligent Product Development team. TRINITI<sup>®</sup> consists of three subsystems which can use respectively and independently in radiotherapy: the Surface Tracking with IR technology, the 6DoF Robotic Couch and the Respiratory Gating. The System is designed to ensure high precision patient setup and positioning in radiotherapy, provide intrafraction motion monitoring and management as well as track patient's respiratory cycle during simulation and radiation delivery coordination during treatment.



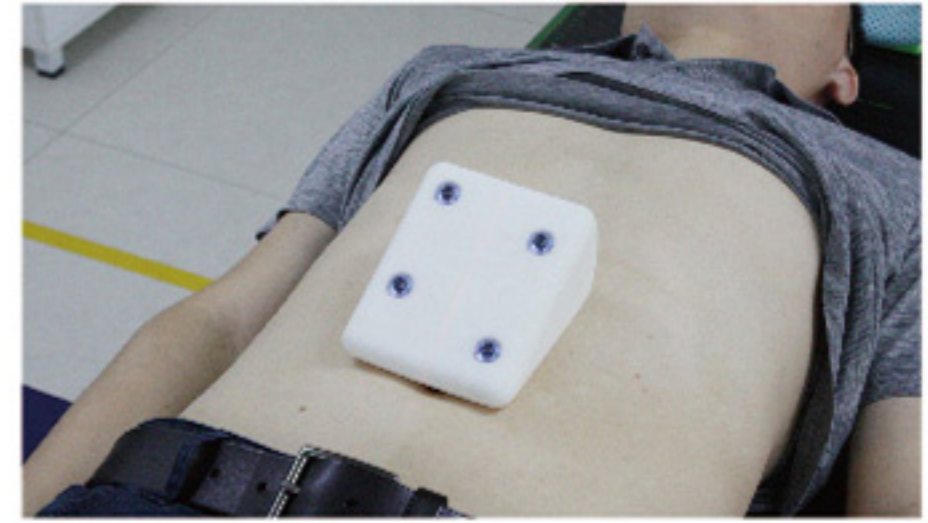
**TRINITI<sup>®</sup> consists of 3 subsystems**



**System A:**  
TRiNiTi® Surface Tracking System for high precision patient setup and motion management

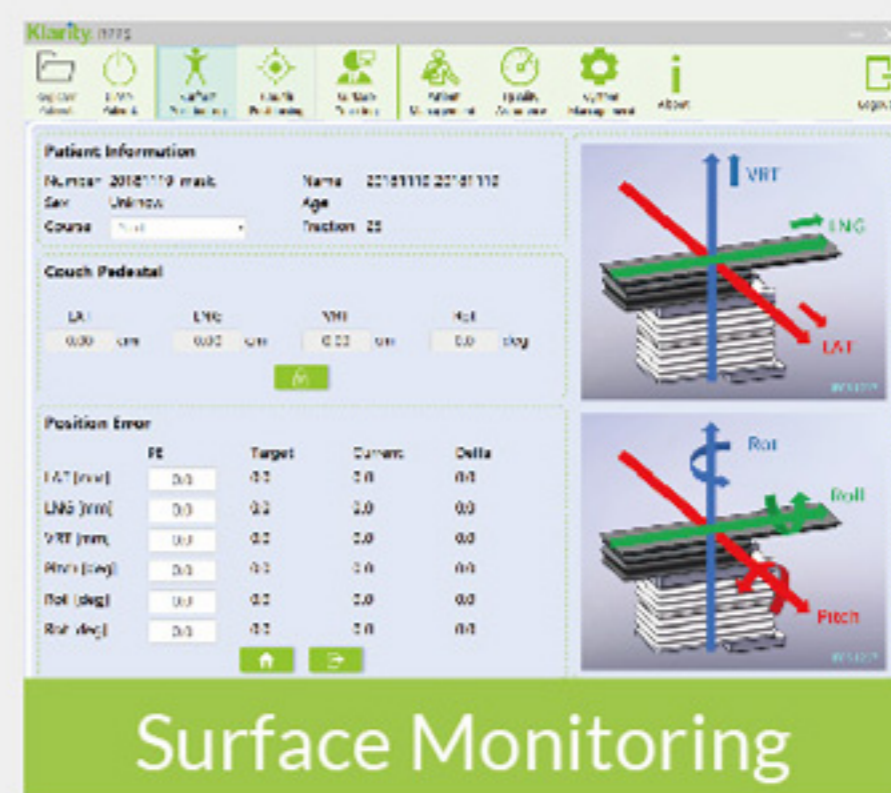
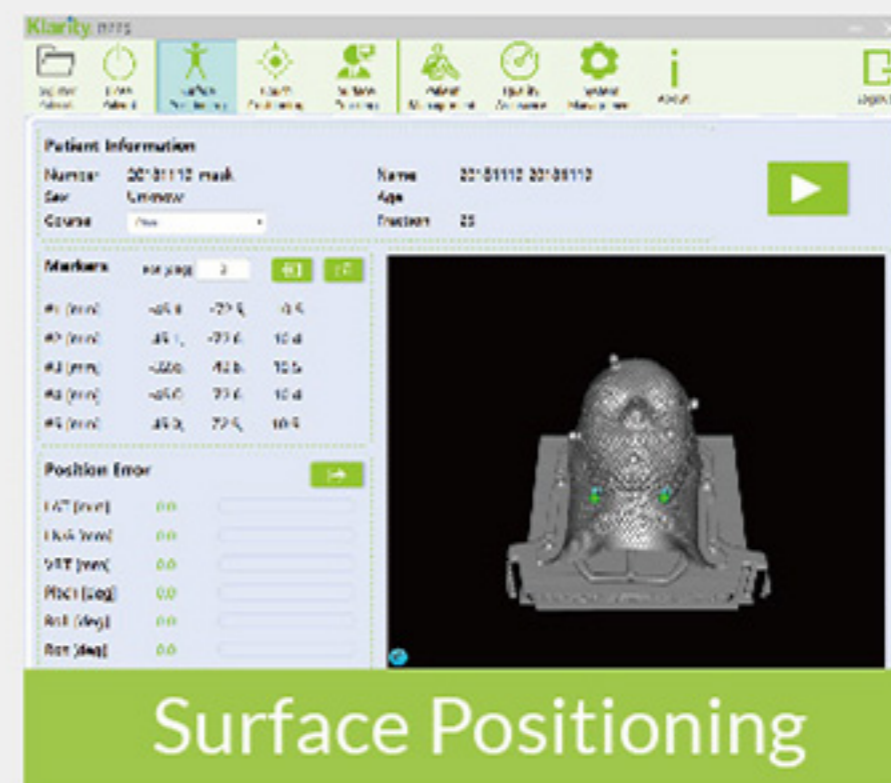


**System B:**  
TRiNiTi® 6 DoF Robotic Couch for high precision patient position corrections in 6 degrees of freedom



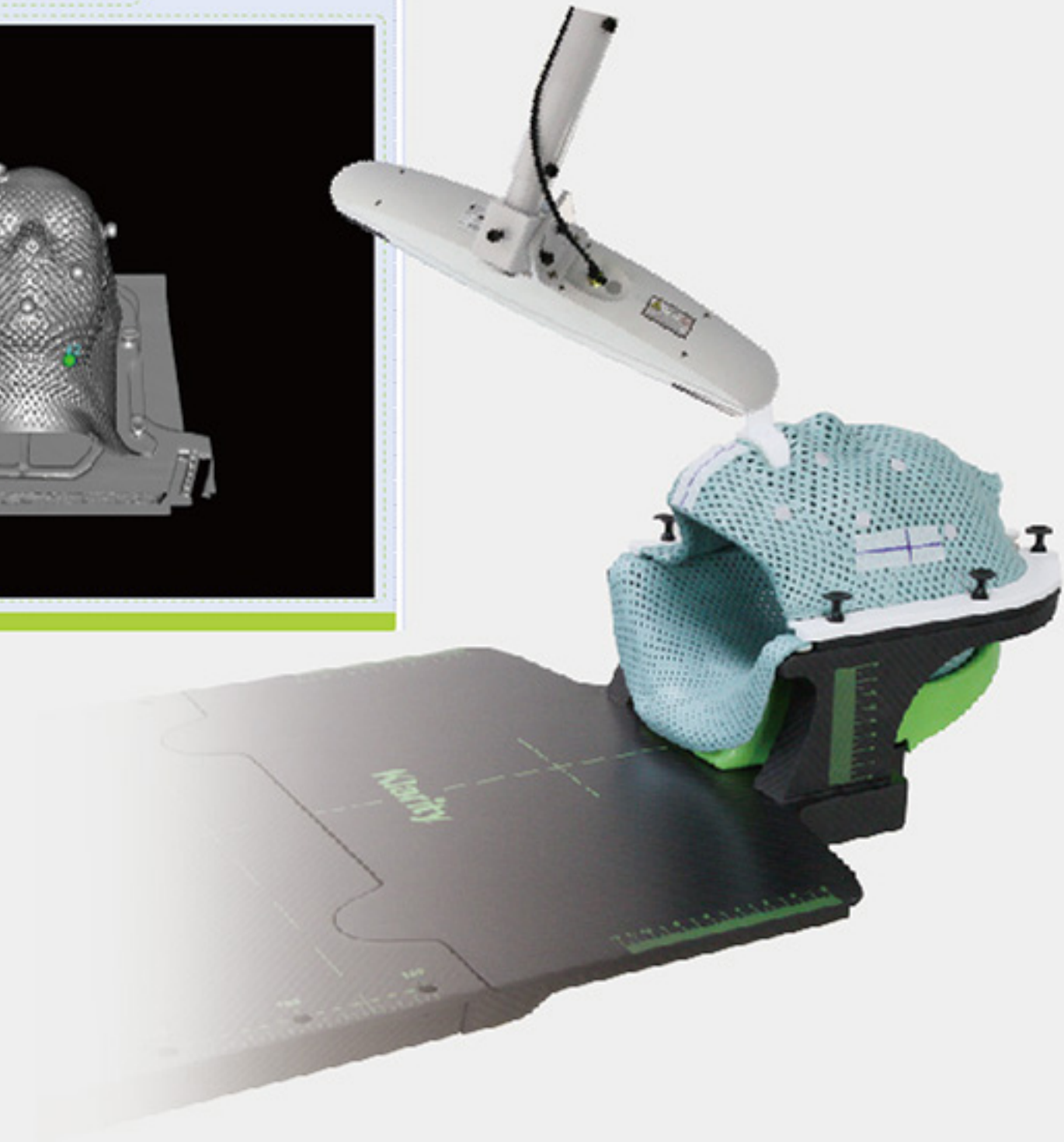
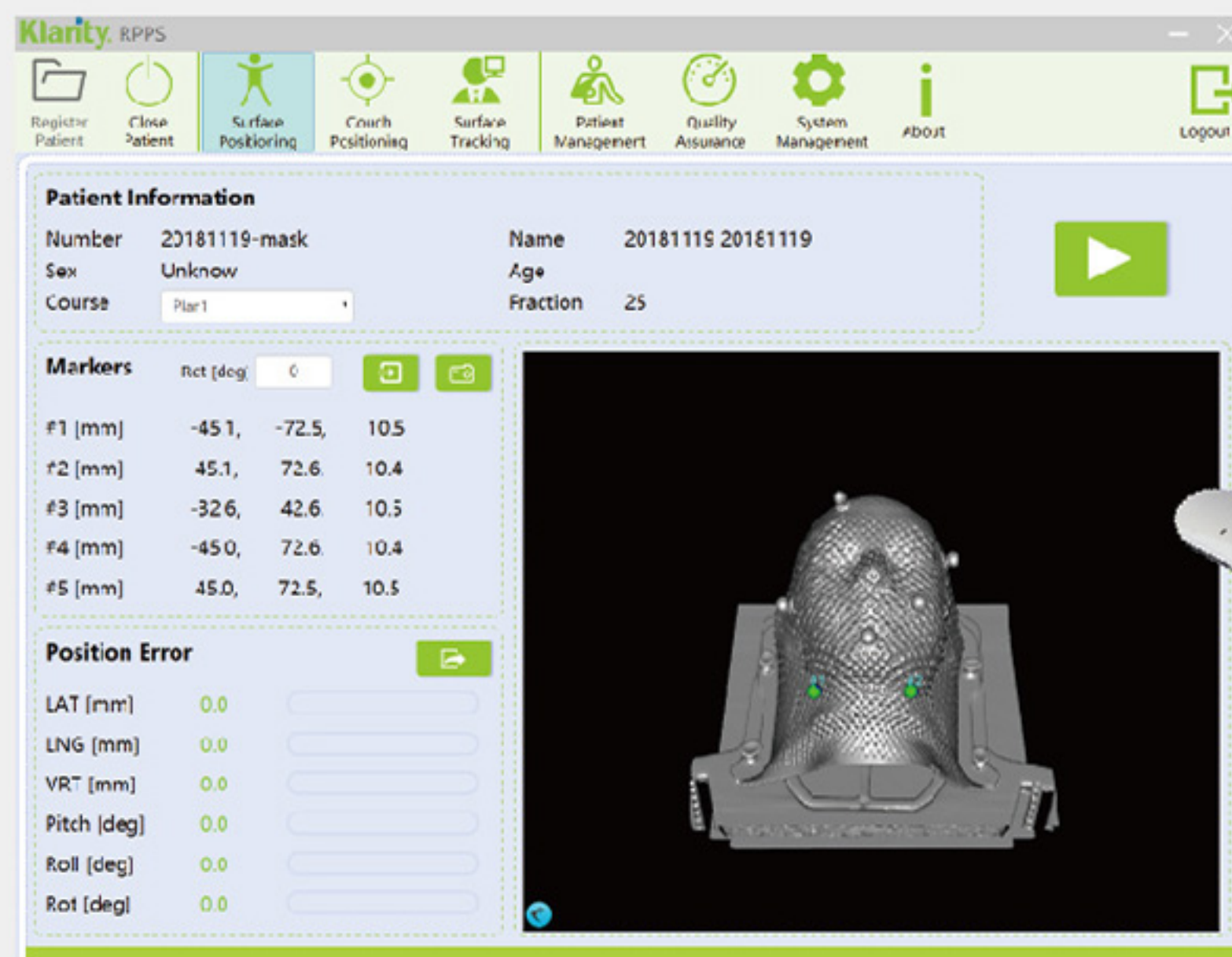
**System C:**  
TRiNiTi® Respiratory Gating System for tracking patient's respiratory cycle during simulation and radiation delivery coordination during treatment

## TRiNiTi® Workflow



## TRINITI® Surface Tracking

- Dose-free, accurate patient setup and positioning
- Seamless workflow with guaranteed safety and efficiency
- Real-time intrafraction motion monitoring and management
- Radiation delivery pauses automatically when target outside the threshold



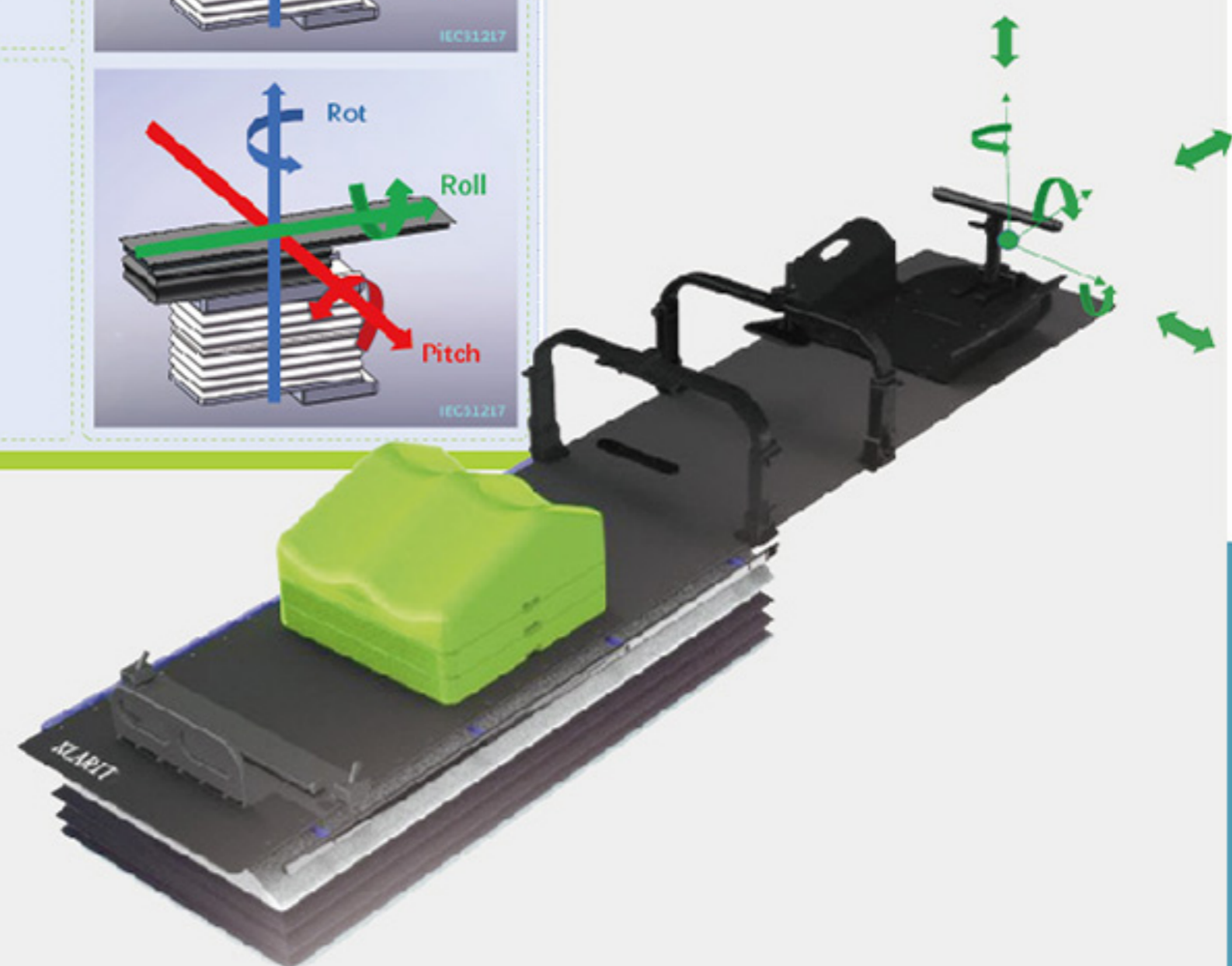
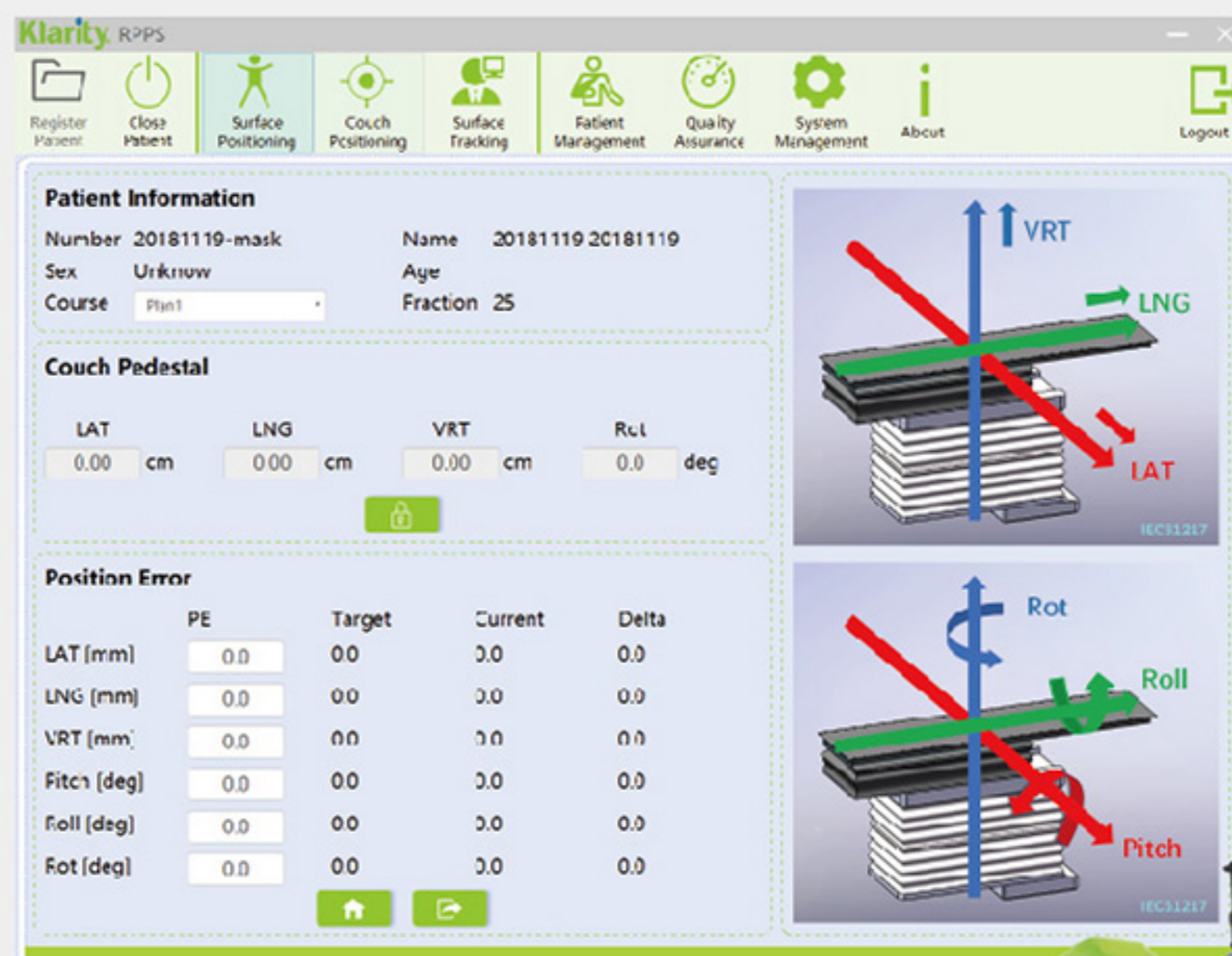
### SYSTEM DATA OF TRINITI® SURFACE TRACKING:

Scan volume:	800x1200x800(mm)
Frequency:	15Hz
Measurement precision:	0.25mm, 0.1°
Warm-up time:	30 minutes

\* has passed CE and NMPA certificate

## TRiNiTi<sup>®</sup> 6 DoF Robotic Couch

- High precision corrections in 6 degrees of freedom
- Quick correction with easy workflow
- Integrated with Klarity SRS System and SBRT System
- Compatible with most Linac pedestals



### SYSTEM DATA OF TRiNiTi<sup>®</sup> 6DOF COUCH:

Lateral Axis:	-40mm~+40mm	Yaw:	-3°~+3°
Longitudinal Axis:	-40mm~+40mm	Precision:	1mm, 0.1°
Vertical Axis:	-30mm~+40mm	Max. load:	200kg
Pitch:	-3°~+3°	Optional modules:	SRS/SBRT
Roll:	-3°~+3°		

\* has passed CE and NMPA certificate

# TRINITI® Respiratory Gating

- Provides multiple modes of gating
- Compatible with interfaces of various equipments
- Supports 4DCT simulation
- Supports gating for treatment



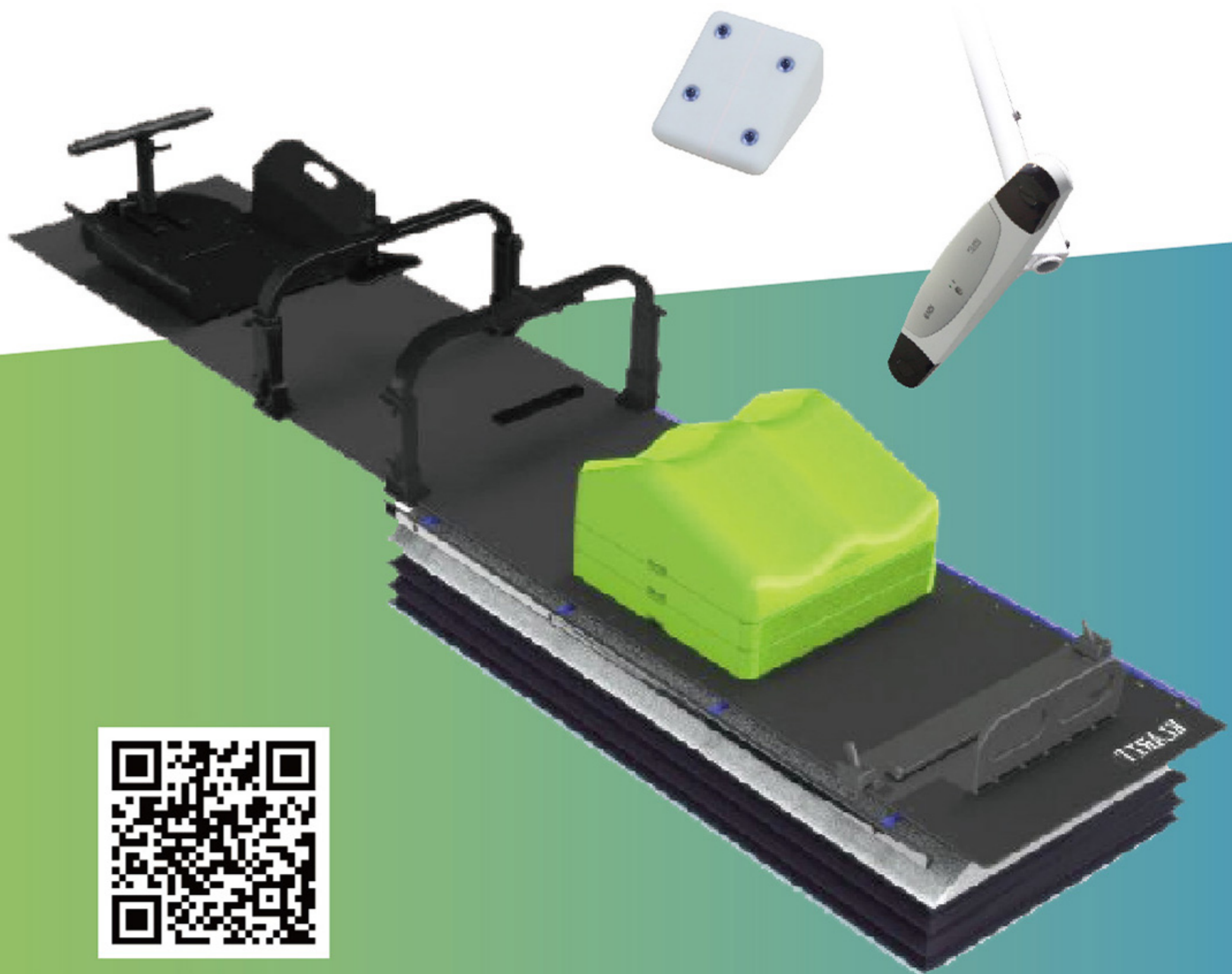
## SYSTEM DATA OF TRINITI® RESPIRATORY GATING:

Scan volume:	800x800x600(mm)
Frequency:	25Hz
Measurement precision:	0.25mm, 0.1°
Warm-up time:	30 minutes

\* In the process of CE certification and NMPA registration

# Klarity<sup>®</sup>

## TRiNiTi<sup>®</sup>



Watch the TRiNiTi video



**Klarity**<sup>®</sup>  
Better Products for Better Care

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