



Klarity[®] SGRT

**See the color.
Hit the target.**



PATIENT POSITIONING



MOTION MANAGEMENT



RESPIRATORY GATING

HD STRUCTURED LIGHT CAMERA

With a resolution of 5 megapixels, our advanced camera system offers exceptional precision for tracking the skin surface during treatment. Our blue light technology is especially effective for tracking skin of diverse colors, ensuring high accuracy regardless of skin tone.

ENHANCE YOUR RADIOTHERAPY WORKFLOW



Our SGRT system streamlines the radiotherapy process, enabling safer, more precise, and efficient treatment. With seamless integration into your treatment planning and linac information systems, SGRT optimizes the patient setup workflow for maximum efficiency.



NON-IONIZING



MARK-FREE



LOW HEART
DOSAGE



IMPROVE YOUR PATIENT EXPERIENCE



Patient surface shown visually in real time.

Real-time tracking for six-degree positional deviation

Precise six degree alignment with a simple click and press-to-correct

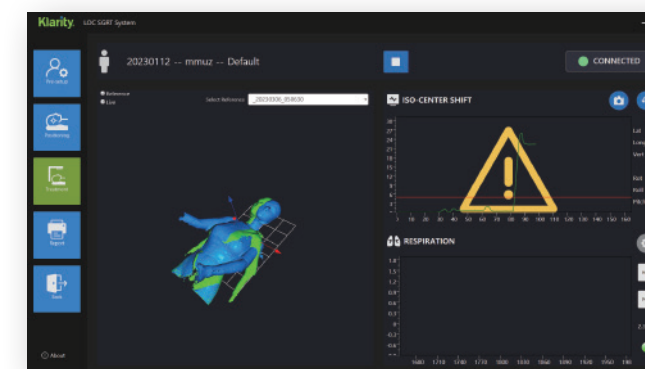
Reference surface can be generated anytime as needed.

OUR SYSTEM

Compatible and User-Friendly. Designed with high compatibility and user-friendliness in mind, our system seamlessly integrates with your existing equipment and software, streamlining the treatment process for maximum efficiency.

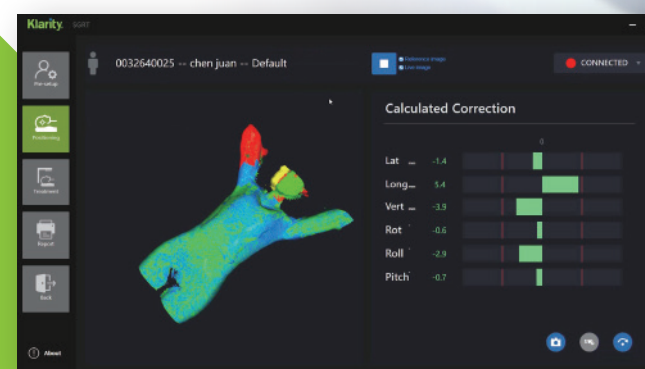


VISUAL SURFACE COLOR PROMPT FOR RAPID POSITION VERIFICATION AND CORRECTION



CONTINUOUS MOTION MONITORING ALL TIME AND REAL-TIME

Our system features advanced motion monitoring capabilities, enabling continuous tracking of patient position in real-time. With presettable thresholds for six-degree patient position, our system will automatically alert you when the threshold is exceeded, ensuring prompt and accurate response. Our inter-lock feature provides additional safety measures, allowing for automatic treatment interruption or recovery if a threshold is exceeded. With our motion monitoring system, you can rest assured that your patients are receiving the safest and most effective treatment possible.

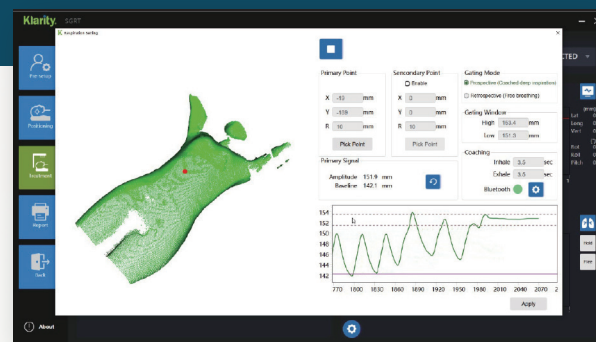


Our system includes a visual surface color prompt for quick and accurate verification and correction of patient position. The prompt provides clear visual cues to indicate the desired position and can be easily adjusted to preset thresholds for six-degree position correction. With a simple press-to-correct feature, our system enables rapid and precise couch adjustment for optimal patient alignment.



RESPIRATORY GATING

Easy to Operate with Visual Feedback and Voice Prompt



Our system includes advanced respiratory gating capabilities, supporting both free breathing (FB) and deep inspiration breath hold (DIBH) techniques. With real-time surface tracking, our system provides visual feedback and voice prompt to ensure ease of use and accuracy. Our respiratory gating system allows for precise and effective treatment delivery, while minimizing the impact of respiratory motion.

DIBH FOR LEFT-SIDED BREAST RADIOTHERAPY



Using a thorax mask to improve the respiratory effect



VR glasses optional

Our system is compatible with a head and thorax mask open at the treated side, providing enhanced patient stability and effective surface tracking during DIBH treatment. With the optional use of VR glasses, patients can more easily coordinate their breathing, enabling precise and effective treatment delivery.

SUB-MILLIMETER ACCURACY

SRS Solution with Open Face Mask

SBRT SOLUTION WITH MOTION MANAGEMENT

Our system features sub-millimeter accuracy for precise and effective stereotactic radiosurgery (SRS). With an open face mask design, our system provides enhanced patient comfort and minimal interference with treatment delivery. Our system supports non-coplanar positioning verification, enabling optimal treatment planning and delivery. Additionally, our system automatically completes region-of-interest (ROI) selection without the need for manual delineation, streamlining the treatment process and reducing the risk of errors. With our sub-millimeter accuracy SRS solution, you can trust in the precision and effectiveness of your treatments.

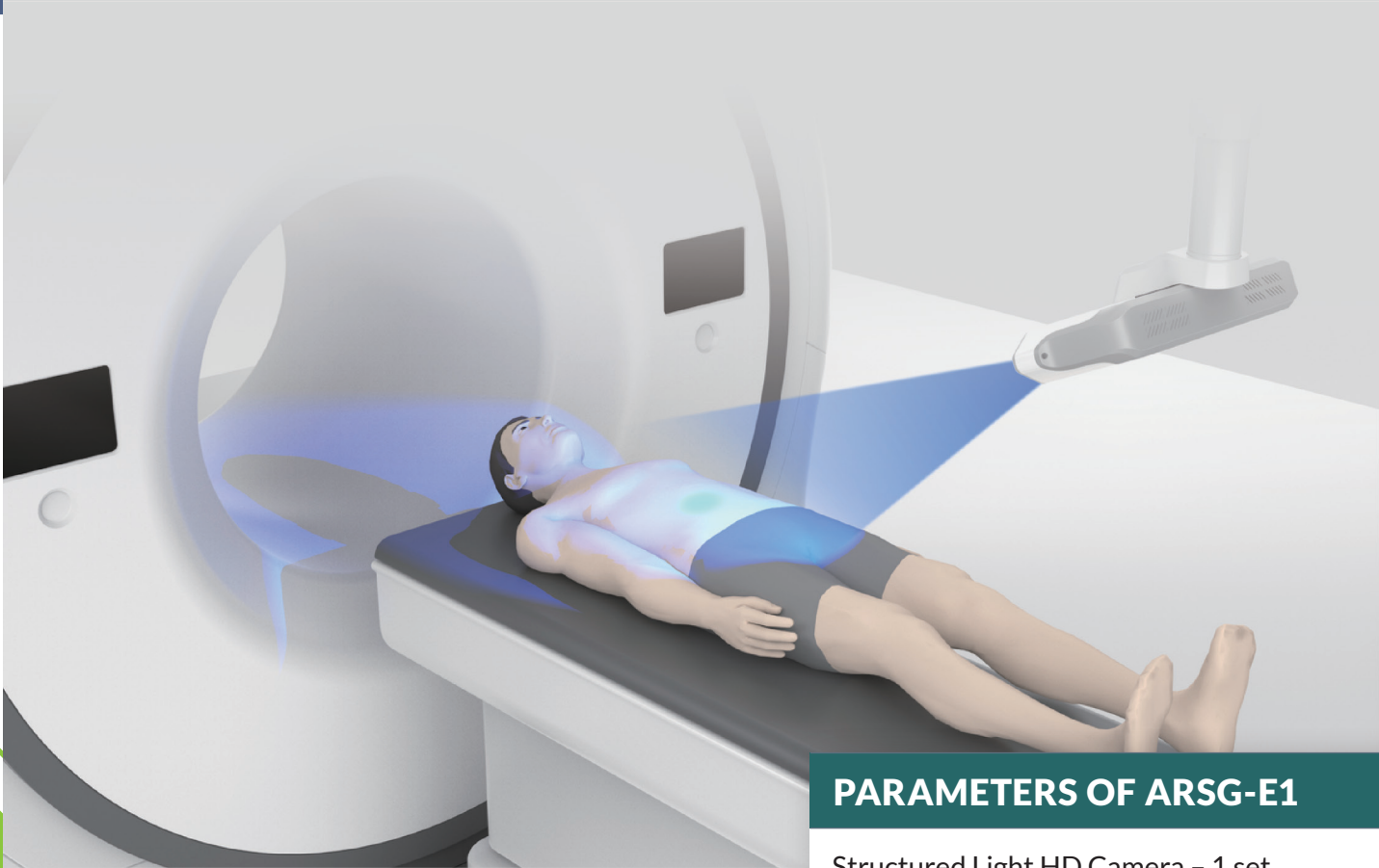


Our system provides a state-of-the-art SBRT solution with advanced motion management capabilities, ensuring sub-millimeter accuracy for precise and effective treatment delivery. Our system supports long range surface tracking, enabling effective motion management and treatment planning. Additionally, our system supports 4DCT and DIBH techniques, providing enhanced flexibility and customization options for your treatments.

Klarity SGRT System

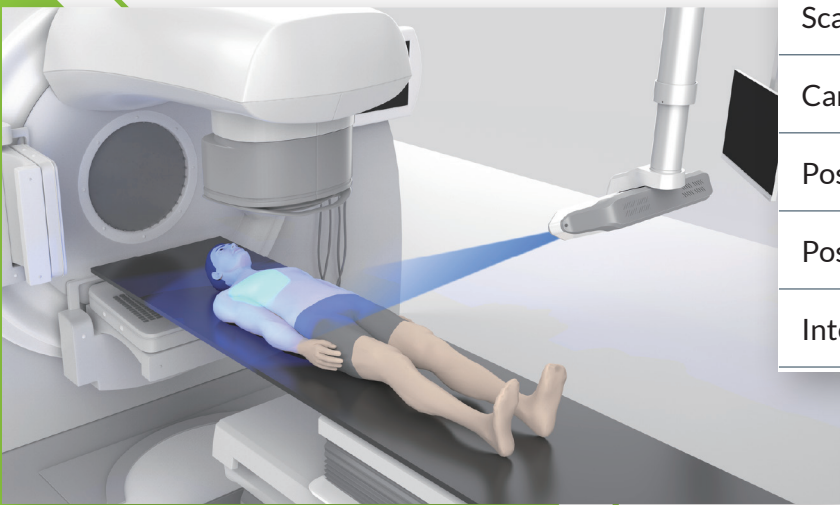
SINGLE-CAMERA CONFIGURATION

For CT sim room and treatment delivery room



PARAMETERS OF ARSG-E1

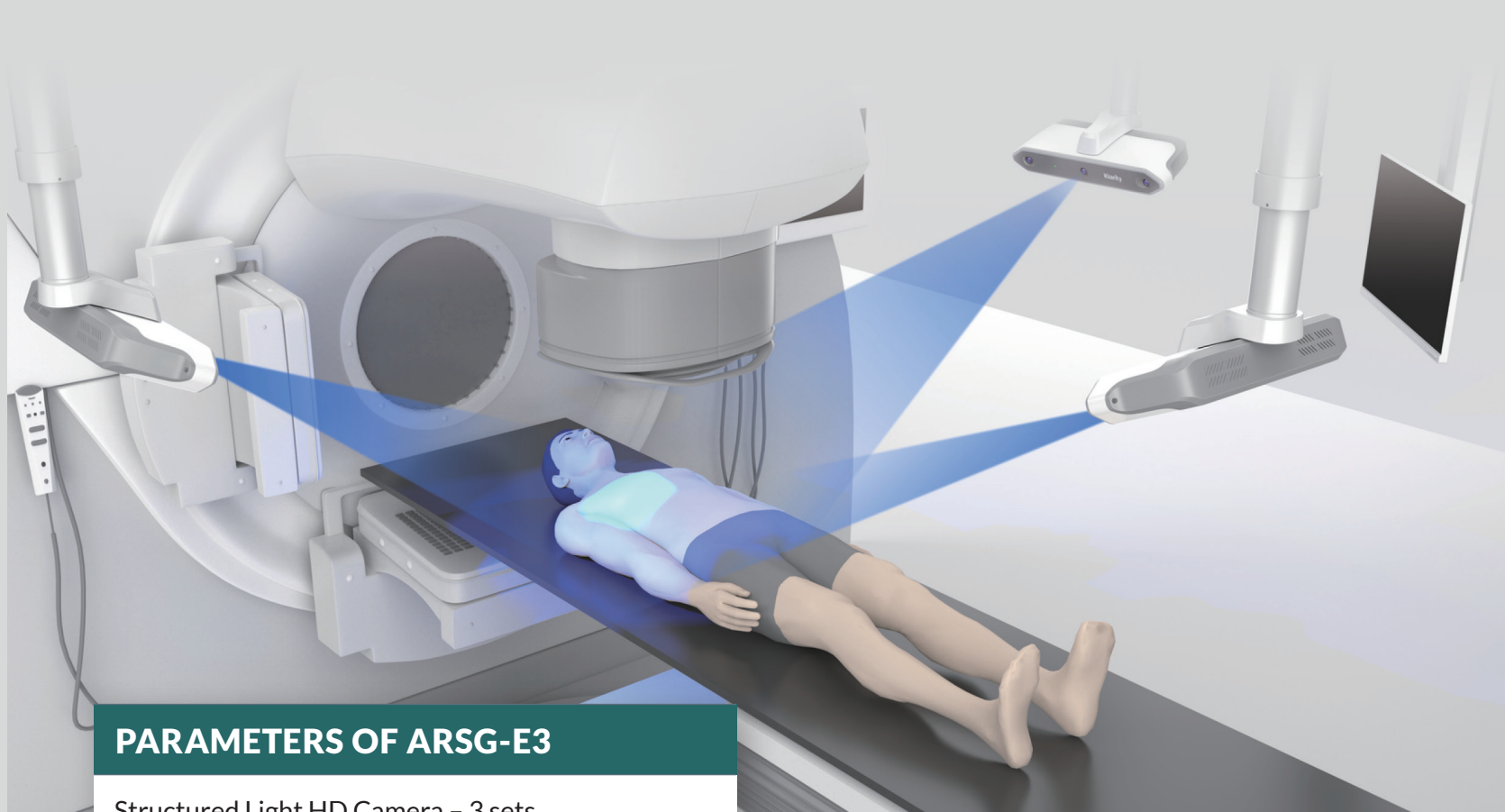
Structured Light HD Camera – 1 set
Scanning Range and Volume 1100 x 900 x 1000mm
Camera Pixels: 2560 x 2048px
Positioning Repeatability: 0.5mm/1.0°
Positioning Accuracy: 1.0mm/1.0°
Interface: CT, Linac



Klarity SGRT System

THREE-CAMERA CONFIGURATION

For treatment delivery room



PARAMETERS OF ARSG-E3

Structured Light HD Camera – 3 sets
Scanning Range and Volume 1100 x 1100 x 1000mm
Camera Pixels: 2560 x 2048px
Positioning Repeatability: 0.5mm/1.0°
Positioning Accuracy: 1.0mm/1.0°
Interface: Linac

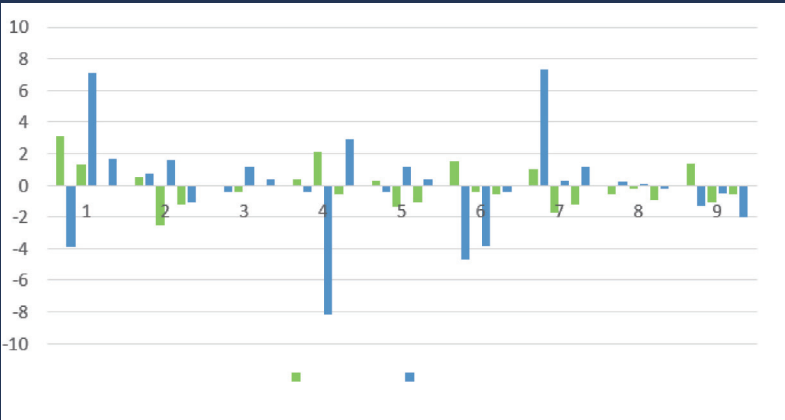
INSTALLATION EXAMPLES

Our SGRT system and CBCT are utilized in a complementary manner to improve the accuracy and reliability of patient positioning in radiation therapy. Together, they provide a comprehensive solution for enhancing the precision and accuracy of your treatments.



The Klarity SGRT 3-Camera System installed for Elekta Infinity Linac

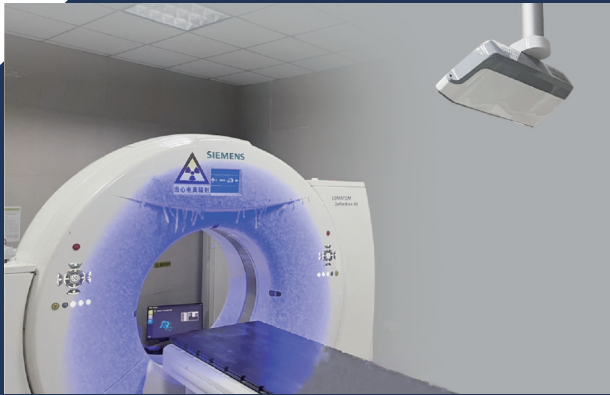
SGRT COMPARED WITH LASER SYSTEM POSITIONING
SGRT and CBCT used in a complementary manner to improve positioning accuracy and reliability



SGRT LASER SYSTEM



Klarity SGRT System with single camera solution for GE large aperture CT



Klarity SGRT System with single camera solution for Siemens large aperture CT



Klarity SGRT System with single camera solution for Philips large aperture CT



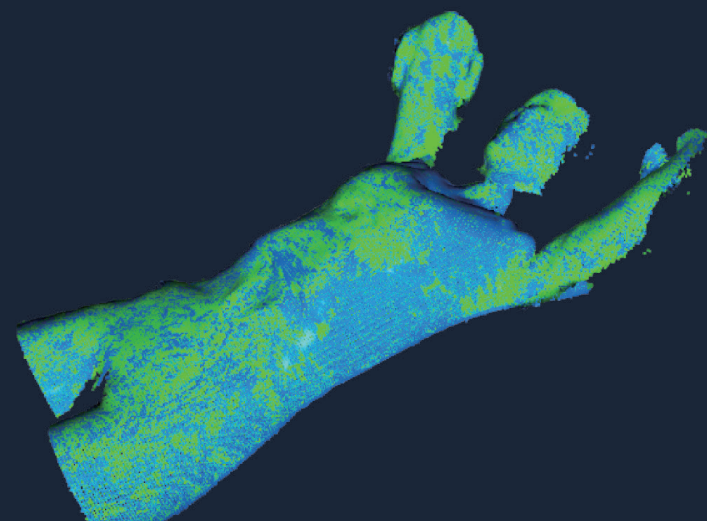
Klarity SGRT System with single camera solution for Elekta Infinity



Klarity SGRT System with three cameras solution for Varian Trilogy

HIGH VERSATILITY

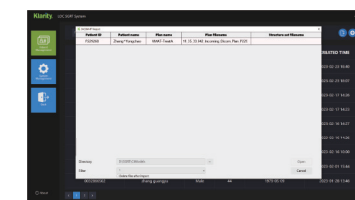
- Multiple RT applications, including SRS, SBRT, Particle Therapy, and more
- Various treatment sites including intracranial, breast, abdomen, and more.



EASY BODY SURFACE TRACKING FOR ALL SKIN COLORS



IMPORT DICOM STRUCTURE

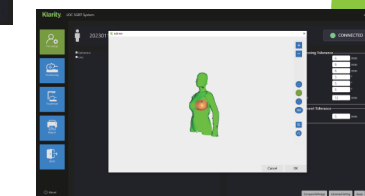


CBCT VERIFICATION



GENERATE REFERENCE SURFACE AFTER CBCT VERIFICATION

SUPPORT MULTIPLE ROI DRAWING



ROI DELINEATION

KLARITY SGRT WORKFLOW

PLANNING

CT Simulation

Treatment Planning

Import the structure of the treatment plan into SGRT system as the first reference surface

SETUP

Position the patient with laser alignment

Correct patient position and 6DoF Couch based on surface registration with the first reference surface

Use Kv/Mv images for registration

Correct the couch if the registration result indicates the necessity

SGRT will acquire new reference surface for real-time tracking

TREATMENT

Continuous surface monitoring. Respiratory gating. Beam-hold if patient moves outside surface tolerances

Documentation report of SGRT with positioning and monitoring results.

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Hit the target.**



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