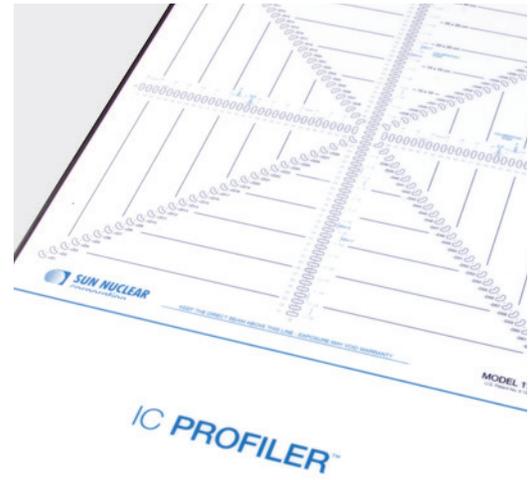
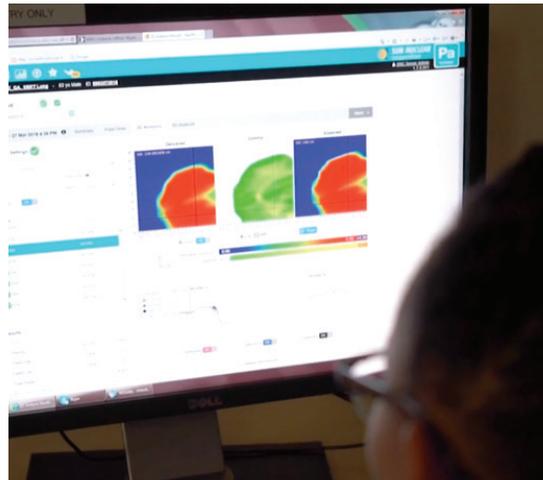


# Patient Safety Starts with **Alignment**

Precision Laser Systems



**SUN NUCLEAR**  
corporation



# You know us for proven **Quality Management solutions & support.**



**5,000+**

Worldwide Cancer  
Treatment Facilities Use  
Sun Nuclear Solutions

**100+**

Countries Around the  
World with Sun Nuclear  
Solutions

**65%+**

Global Cancer Treatment  
Centers Use Sun Nuclear  
Solutions

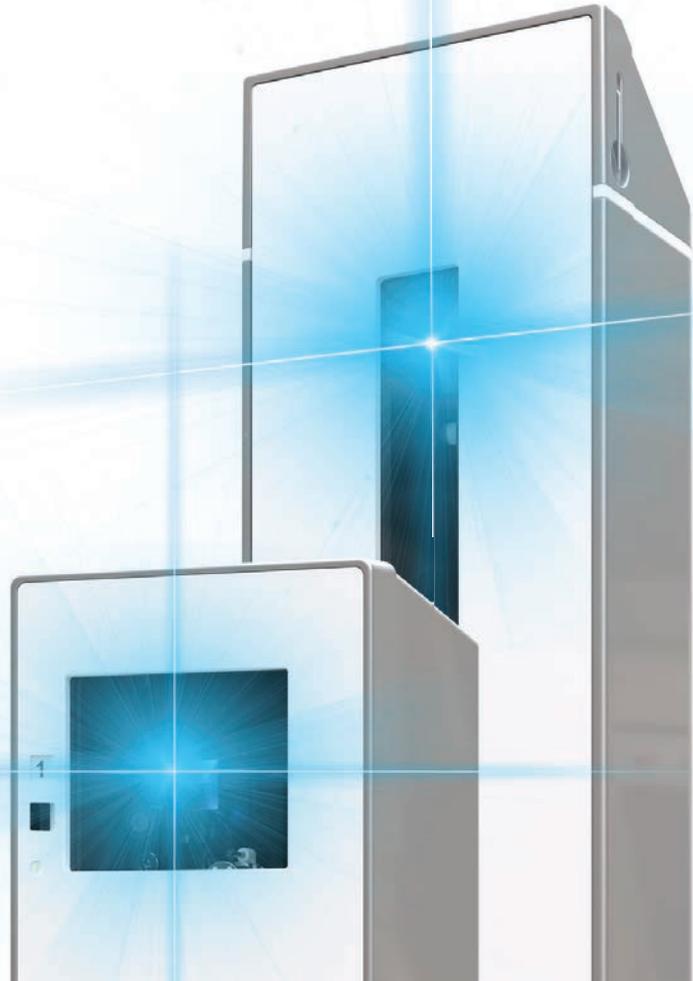


# Get to know our lasers, too.

MICRO+™ | CT SIM+™

We've developed an all-new family of laser solutions using the same innovative approach you know us for in QA and Dosimetry.

We've simplified buying, with one price for blue, green or red lasers. We've improved usability, with features such as quick-release covers and MR support. And we've aimed to meet or exceed critical expectations for accuracy, stability and durability in a busy clinical environment.



# CT SIM+™ simplifies patient positioning & marking.

With a focus on treatment volume localization and patient setup reproducibility, CT simulation sets the stage for success in radiation therapy. Our CT SIM+ lasers deliver best-in-class accuracy for this critical process, and provide automated workflows and complete ease-of-use.

## Sturdy, modular design

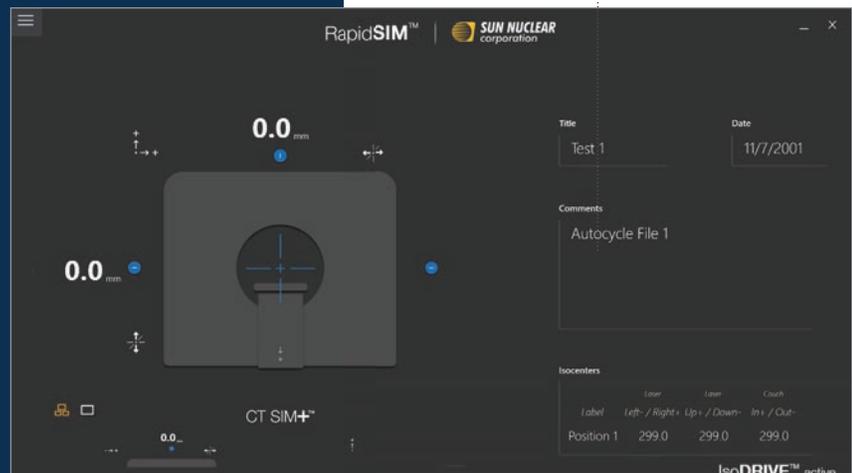
Choose between bridge, post or wall mounting

## Fits on existing brackets

An easy upgrade from current wall-mounted lasers

## Total system solution

Includes intuitive RapidSIM™ software suite, touchscreen monitor, tablet, and more



**Best-in-class specifications**

For blue, green or red wavelengths:

- $\pm 0.5$  mm accuracy, at 3 m
- $\leq 0.5$  mm line width, at 4 m
- $\geq 4$  m line length, at 3 m

**Service life of 50,000+ hours**

Backed by Sun Nuclear support

**Compatibility**

Supports all major  
TPS/Simulation vendors



**Quick-release cover & tool-free access**

Facilitates easy mechanical adjustment and maintenance; glass window stays in place, eliminating potential for refraction



# MICRO+™ makes precision patient alignment more intuitive.

Everyday accuracy at the linac is everything – for your patients and your therapists. MICRO+ makes accuracy easier to achieve, with a smart design that builds clinical confidence.

## **Compact construction**

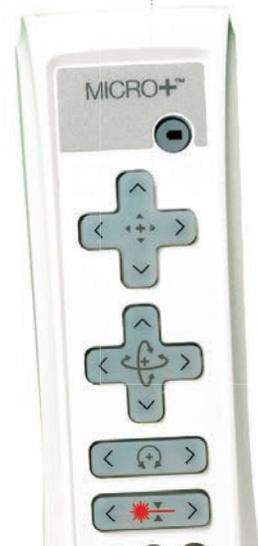
High-strength, light-weight covers and integrated wireless technology ensure durability

## **Fits on existing brackets**

An easy upgrade from current wall-mounted lasers

## **Remote control**

Quickly adjust multiple lasers to 0.15 mm accuracy, with single Bluetooth, backlit remote





**Best-in-class specifications**

For blue, green or red wavelengths:

- $\pm 0.5$  mm accuracy, at 3 m
- $\leq 0.5$  mm line width, at 4 m
- $\geq 4$  m line length, at 3 m

**Service life of 50,000+ hours**

Backed by Sun Nuclear support

**Compatibility**

Supports all major linac makes and models\*; available as an option directly from Varian Medical Systems®

\* MICRO+™ MR available for MRgRT systems



**Quick-release cover & tool-free access**

Facilitates easy installation, cleaning and maintenance





CT SIM+™

 SUN NUCLEAR  
corporation

# Clinically-focused, industry-leading support from the start.

Sun Nuclear offers much more than products. We deliver the industry's most comprehensive and responsive training, education and support program.

With deep experience across the continuum of independent Quality Management, our team knows the world in which you work – and the expectations you have for Patient Safety. We strive to meet these expectations, in everything we do.

From site preparation through installation and beyond, Sun Nuclear will be there for you and your lasers. Just as we are with all the solutions our global customer community relies upon.

Feature	CT SIM+	Other
DICOM and text file formats included	●	●
Stable WiFi connection to tablet	●	● Uses less powerful Bluetooth
Redundant systems to communicate with the lasers; Hard-wired touchscreen and tablet	●	● Offers only tablet as standard
Touchscreen inversion capability to prevent eye strain	●	●
Touchscreen size	● 24-inch	● 19-inch
Tool-free access for easy setup, service, and adjustments	●	●
Glass cover stays in place during adjustments	●	●
Laser diode life (for all colors)	● 50,000+ hours	● 30,000+ hours
Standard warranty	● 24 months	● 12 months
Hands-free data transfer from TPS to lasers, for all major CT manufacturers	● Included with RapidSIM™ software (IsoDRIVE™)	● Available as option for limited CT manufacturers
Laser line width @ 4 m distance	● ≤ 0.5 mm for all colors	● ≤ 1.0 mm red; ≤ 1.0 mm green; ≤ 0.5 mm blue
Laser line length @ 3 m distance	● ≥ 4 m	● ≥ 3 m
Remote pan, tilt, rotate, and focus	● Pan only	●
Manual pan, tilt, rotate, and focus	●	●
Mechanical resolution	● 0.02 mm	● 0.1 mm
Projected laser resolution	● 0.5 mm	● 0.5 mm
Interlocks to ensure lasers reach desired location	● Within 0.5 mm	● Within 0.5 mm
Bridge, post and wall installation options	●	●

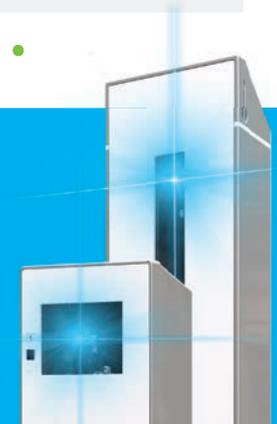
● = Yes | ● = No | ● = Limited functionality

Feature	MICRO+	Other
6 degrees of movement/freedom	●	●
Range: left - right	● ±15 mm	● ±15 mm
Range: up - down	● ±15 mm	● ±15 mm
Rotation	● ±5°	● ±2°
Horizontal tilt (yaw)	● ±5°	● ±2°
Vertical tilt (pitch)	● ±5°	● ±5°
Laser diode life (for all colors)	● 50,000+ hours	● 30,000+ hours
Laser line width @ 4 m distance	● ≤ 0.5 mm for all colors	● ≤ 1.0 mm red; ≤ 1.0 mm green; ≤ 0.5 mm blue
Laser line length @ 3 m distance	● ≥ 4 m	● ≥ 3 m
Laser line action during adjustments	● Solid	● Flashing
Ease of adjustment with remote	● Bluetooth, no line of sight required	● Infrared, requires line of sight
Intuitive remote control	● Application-specific, designed for workflow	● Contains unused controls
Post and wall installation options	●	●

**"Sun Nuclear obviously placed a focus on their design, reducing complexity, and providing high spatial accuracy with their lasers."**

**Sam Hancock, Ph.D.,**

Radiation Oncology Chief Physicist, Southeast Cancer Center, Missouri





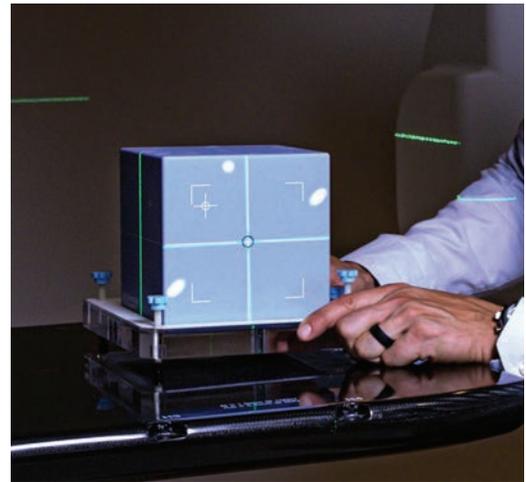
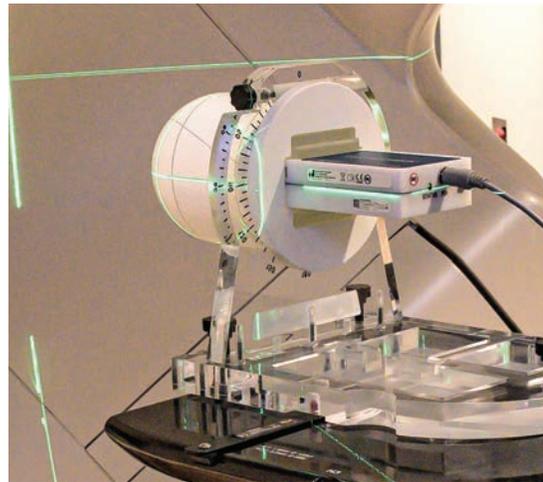
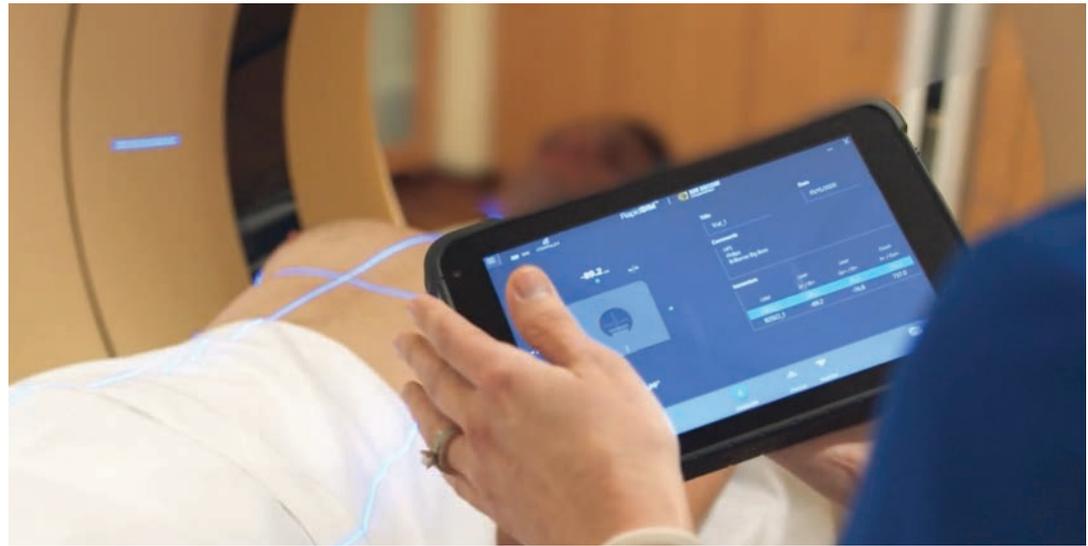
# Patient Safety is our sole focus.

Our mission is to enable healthier lives by improving the avoidance, detection and treatment of cancer.

We deliver Quality Management solutions for Diagnostic Imaging and Radiation Therapy centers globally. We ease clinical adoption of new technologies and techniques; assure safe, ongoing system performance; and verify intended therapeutic dose delivery for your patients.

With Sun Nuclear lasers, we optimize precision patient alignment workflows, too. We invite you to experience a personalized demonstration.

**[sunuclear.com/laserupgrade](https://sunuclear.com/laserupgrade)**





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