CT SIM+™

with Rapid**SIM**™ Software

Moveable Lasers for PET/CT Simulation

Patient Safety Starts Here

SUN NUCLEAR corporation

Simplified Patient Positioning & Marking

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

CT SIM+™

Accuracy at the Patient

The CT SIM+ moveable laser system is designed from the ground up to support your PET/CT simulation workflow. Unmatched precision and accuracy provide enhanced confidence for patient safety.

Simplified Positioning & Marking for PET/CT Simulation

- ±0.5 mm accuracy, at 3 m
- Line widths of ≤0.5 mm, at 4 m, for all colors
- Industry-leading line length of ≥4 m at 3 m

Customized to Your Needs

- Three color options – red, green, or blue
- 3-arm or 5-arm configurations are available for wall/ceiling and posts; 3-arm configuration for bridge

Tool-Free Access

- Quick-release cover enables tool-free entry for service and alignment adjustments

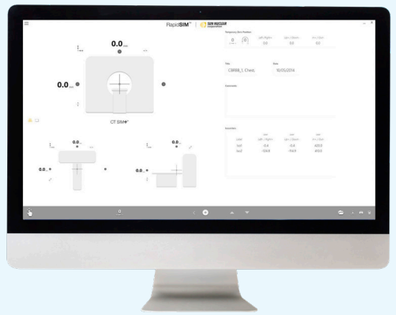
RapidSIM™ Software

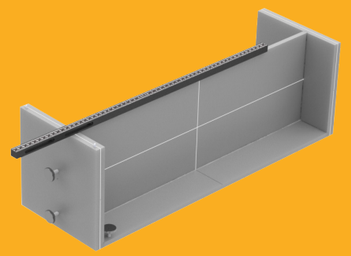
- Seamless laser connectivity to the CT simulation package or Treatment Planning System
- Compatible with all major third-party systems
- Reads coordinates and directs lasers to patient positioning or marking locations
- Flexible levels of automation

Workflow-Compatible RapidSIM Software

Flexible automation modes available:

- IsoDRIVE™ mode retrieves TPS coordinates and automatically moves the lasers into position. The IsoLOCK™ feature provides visual confirmation (within 0.5 mm) the lasers are in position.
- Autorun mode processes text or DICOM file transfer with single-point selection, driven by the user.
- Manual mode allows the user to manually enter coordinate information, toggle by increments, and jump to select presets.





Laser Alignment Phantom

Included phantom enables verification of the CT imaging plane and routine checks of laser alignments in support of TG-66 requirements.

Best-in-class specifications

For blue, green or red wavelengths:

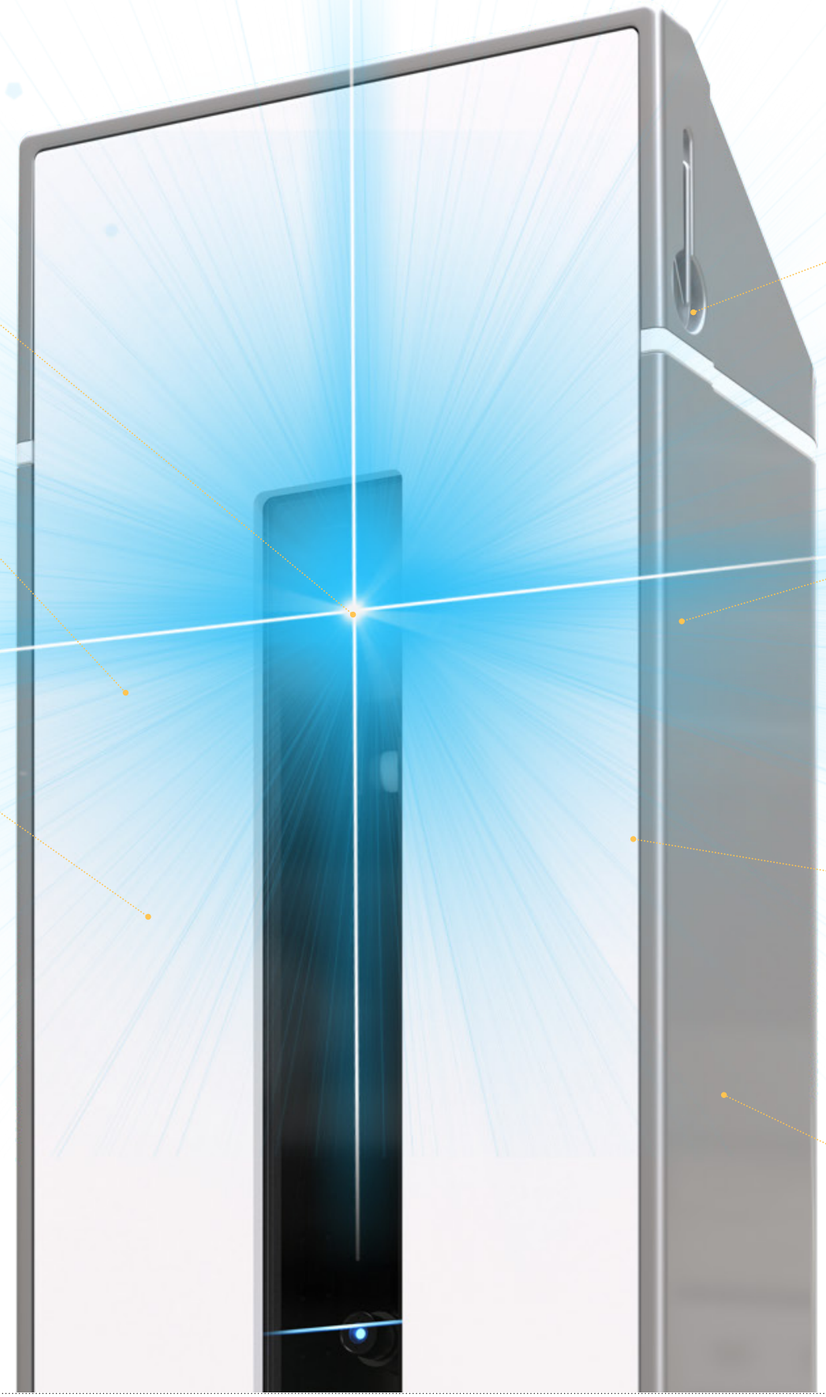
- ±0.5 mm accuracy, at 3 m
- ≤0.5 mm line width, at 4 m
- ≥4 m line length, at 3 m

Total system solution

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

Sturdy, modular design

Choose between bridge, post or wall mounting



Quick-release cover & tool-free access

Facilitates easy installation, cleaning and maintenance

Fits on existing brackets

An easy upgrade from current wall-mounted lasers

Service life of 50,000+ hours

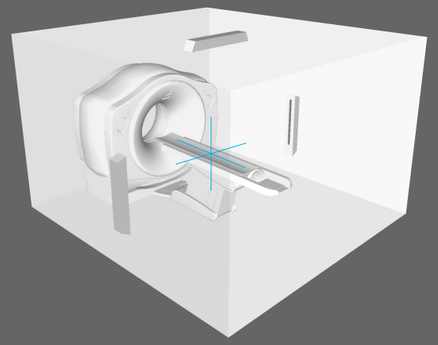
Backed by Sun Nuclear support

Compatibility

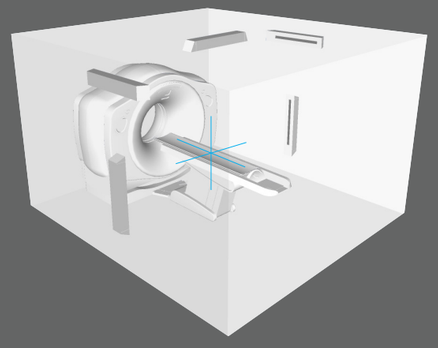
Supports all major TPS/Simulation vendors

Configurations

Wall/Ceiling
3-Arm

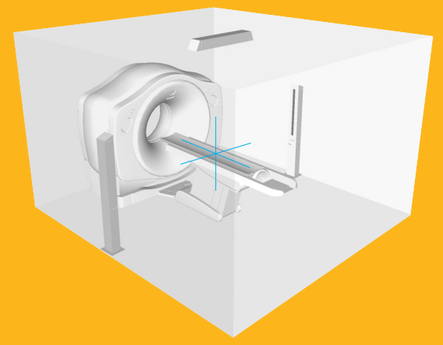


5-Arm

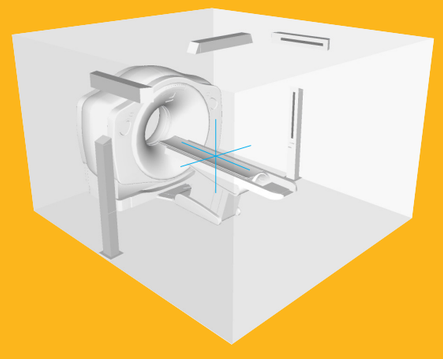


Benefits
- Maximizes space in scanner room
- Cleaner room design/layout
- Lasers tucked away safely from carts and stretchers

Posts/Ceiling
3-Arm

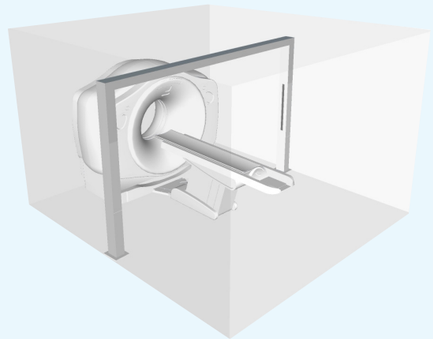


5-Arm



Benefits
- Constructed of extruded aluminum for strength and durability
- Floor-mounted lateral lasers replace wall installation
- Ceiling laser installed to uni-strut or other solid structure

Bridge
3-Arm



Benefits
- Constructed of extruded aluminum for strength and durability
- Install in new or existing rooms without need for expensive renovations
- Multiple cable entry points for easy management

Custom configurations available, depending on room size and layout

Laser Output

Power (mW):	<1.0
Range (m):	Up to 6
Line Width:	≤0.5 mm for all colors @ 4 m
Line Length:	≥4 meter @ 3 m
Available Colors:	Wavelength 635 nm Red Wavelength 515 nm Green Wavelength 450 nm Blue

Mechanical

Length of travel:	70 cm
Mechanical Resolution:	0.02 mm
Projected Laser Accuracy at the Patient:	±0.5 mm at 3.0 m

Dimensions

	Wall	Post	Bridge
Length (cm/in):	119.1/46.9	177.0/69.7	253.9/100.0
Width (cm/in):	20.1/7.9	20.1/7.9	26.7/10.5
Depth (cm/in):	11.9/4.7	11.9/4.7	11.9/4.7

Power Requirements

Voltage: 110/240 VAC (auto-select)

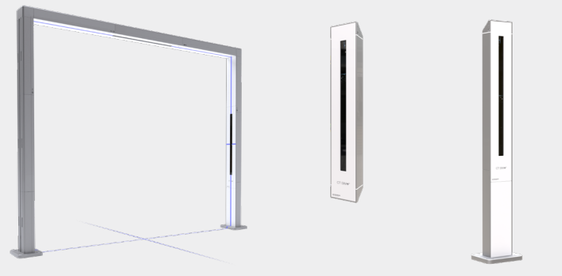
Wireless Connectivity

Wifi: 802.11 b/g/n

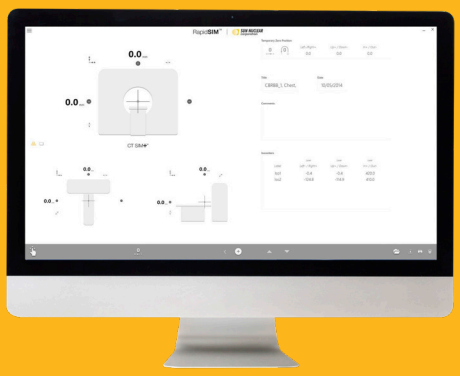
Certifications

Complies with Center for Devices and Radiological Health regulations 21 CFR 1040 for Class II lasers and all CE requirements Certified to: IEC 60601 (Safety); IEC 60825-1 (Laser). 510(k) clearance (K152303). ISO13485 certified medical device manufacturer.

Configuration Detail



Bridge configuration | Wall configuration | Post configuration



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