

MICRO**+**[™] MR Fixed Lasers

Enhance patient alignment workflow and accuracy for diagnostic imaging and radiotherapy.

- New design for serviceability and durability
- Remotely control laser positioning with ease to an accuracy of 0.15 mm
- Choose from red, green or blue wavelengths
- Includes MRI-compliant power supply kit

MICRO+[™] MR supports fixed patient alignment for diagnostic imaging and radiation therapy. Designed with clinical focus, MICRO+ MR increases clinical confidence in alignment accuracy and simplifies your workflow.

Patient-Centered

Laser line widths of ≤ 0.5 mm for all colors (blue, green, or red), and industry-leading lengths of ≥ 4 meters at 3 meters, offer precision and flexibility for your workflow.

Zero Interference[™] for MR-Simulation and MR-Guided Radiotherapy

The MICRO+ MR fixed laser system is the patient alignment solution for any MR environment, up to 3 Tesla. System design allows power to pass through a noise filter prior to connecting with each unit, retaining Zero Interference with MR image quality.

Workflow-Focused

- Reinforced housing offers reliability, and tool-less entry for easy serviceability
- Smart design remote increases efficiency with:
 - Backlighting to help visibility in darkly lit rooms



- Bluetooth technology for intuitive positioning adjustments
- Locator feature for fast finding in case of misplacement
- Service life of 50,000+ hours supports the life of your linac

Easy Implementation

MICRO+ MR lasers mount to the wall and ceiling keeping traditional MR rooms organized. A post-mounted option is available for Elekta Unity MR Linac rooms (field strengths of 3T or less).*



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Zero Interference System Offerings

MICRO+ MR systems are available as a 3-unit or 4-unit offering, each with three color options: red, green, or blue. All systems include a power supply designed to convert AC to DC outside of the Faraday cage, cable/connectors to run DC power through the Filter Panel before entering the MR environment, and a Junction Box to distribute DC power to each individual laser unit.

Filter Panel Interface - Planning

Power going into an MR suite is filtered for low frequency noise at the penetration panel. Each site should work with their RF shield designer to ensure a filtered 9-pin D-sub connection is available for lasers at the Penetration Panel. MICRO+ MR includes D-sub connectors to field terminate cables that will pass power through the Panel. Contact your RF shield designer to ensure lasers are included in the site plan.

Specifications

| Adjustment Type: | Hand held remote control | Line Width (All Colors): | \leq 0.5 mm for all colors @ 4 m |
|----------------------------------|---|---|---|
| Degrees of Movement/ Freedom: | 6 | Line Length: | ≥ 4 meter @ 3 m |
| Left - Right: | > + 15 mm | Laser Type: | Diode |
| - | ≥ ± 15 mm | Laser Output: | < 1 mW |
| Rotation: | | Power Supply: | 100 - 240 volt (auto select) |
| Horizontal Tilt (yaw): | | Dimensions: | 216 mm × 134 mm × 80 mm (H×W×D) |
| Vertical Tilt (pitch): | ≥±5° | Weight: | < 1 kg |
| Focus Range: | 1.5 m - 4 m | Available Colors: | Wavelength 635 nm Red Wavelength 515 nm Green Wavelength 450 nm Blue |
| Adjustment Accuracy: | 0.15 mm | | |
| Adjustments Speeds: | Slow – Ultra accurate steps (0.15 mm) for each touch of the control Medium - Hold the control for continuous motion Fast – Continue to hold the control for faster speeds and larger movements | Installation Options: | Wall mount ± 45° bracket Floor-mounted post Free-standing post kit for Elekta Unity® rooms |
| | | Certifications | |
| Remote Technology: | Bluetooth & infrared | 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). Sun Nuclear is an ISO13485 certified medical device manufacturer. | |
| Remote Receiver: | Integrated | | |
| Remote Operational Range: | > 10 m | | |
| Remote Locator: | "Find remote" option on each laser | | |
| Number of Lasers per Remote: | 6 | | |
| Laser Selection: | OneTouch™ automatic laser and remote pairing | | |

*Elekta Unity is a trade name by Elekta AB. Sun Nuclear Corporation is not affiliated with or sponsored by Elekta AB.



and remote pairing