



SRS PROFILER™

Redefining Radiosurgery QA

Sophisticated beam QA for stereotactic radiosurgery fields measuring output, flatness, symmetry and field size with a single exposure.

Long term reputation in the medical industry.

Assurance we will offer competitive pricing.

Customer service #1 priority.

One Stop.

LACO Inc.

can do it all!

The SRS Profiler Advantage

- * The first QA device designed for cone based SRS
- * Quick to setup and easy to use
- * Attaches to the Accuray® Cyberknife® birdcage for measurements at any angle
- * Streamlines acceptance testing, commissioning, and routine QA tests
- * Operation using PROFILER analysis software

Specifications

- * Detector type: Sun Nuclear Diode Detectors
- * Detector quantity: 125 total on four axes
- * Axes length (mm): 143 (X), 127 (Y), 124 (Diagonals)
- * Detector spacing (mm): 4.0, 2.0 with radial offset
- * Radial field size (mm): 10, 20, 40, 60, 80, 100 and 120
- * Active detector area (mm²): 0.64
- * Detector volume (cm³): 0.000019
- * Detector sensitivity (nC/Gy): 32.0
- * Detector stability: 0.5%/kGy at 6MV
- * Dose rate dependence: ±1%, 75 - 250cm SSD
- * Energies: >1MV, ≥4 MeV
- * Dose rate limit (gy/min): >20
- * Sampling rate (ms): 50
- * Operating system: Windows 2000, XP 32-bit, or Vista 32-bit
- * Dimensions (cm)/ Weight (kg): 4.3 x 15.0 x 33.5 / 1.5
- * Number of connection cables: Single power/data cable



Hardware

- * 125 of Sun Nuclear's proven precision diode detectors
- * Highest sensitivity (32.0 nC/Gy), smallest size (0.64mm²)
- * 50ms update interval
- * Four Axis measurement
 - > Central axis detector
 - > X, Y and Diagonal axes
 - > 4mm spacing with 2mm offset for effective 2mm radial detector spacing
- * Single cable connection using Sun Nuclear's standard power/data cable

Software:

- * Real Time Analysis
- * Output, symmetry, flatness, field size, penumbra, beam center, and more....
- * Analyze and compare up to 15 profiles at once
- * Movie modes with real time playback
 - > Profile/beam tuning
 - > Beam data versus time: Total dose, dose rate, dose/pulse, pulse/second, and point symmetry
- * Import water tank measurements
- * True accessibility to raw data - no "black box"
- * User Calibration
 - > No need to send back to manufacturer
 - > Calibration only takes 15 minutes annually

