

# SRS PROFILER™

## Redefining Radiosurgery QA

U.S. Patent No. 6,125,335

Sophisticated beam QA for stereotactic radiosurgery fields measuring multiple beam parameters in a single exposure.



### Benefits

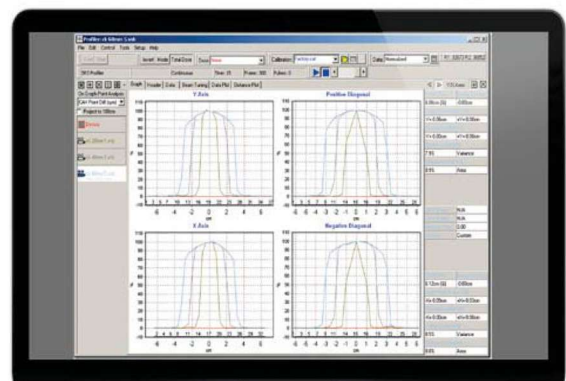
- Sets up in minutes and easy to use
- Attaches to the Accuray® CyberKnife® birdcage:
  - Measure at any node position
- Streamlines acceptance testing and routine QA tests
- Operation using PROFILER™ analysis software
- User calibration:
  - No need to send back to manufacturer
- Accepted and proven for clinical and factory settings
- On Accuray® Recommended Equipment List

### Hardware Features

- 125 SunPoint® Diode Detectors:
  - Highest sensitivity (32.0 nC/Gy), smallest size (0.64 mm<sup>2</sup>)
- 50 ms update interval
- Four axis geometry:
  - Central axis detector
  - X, Y and diagonal axes
  - 4 mm detector spacing with 2 mm radial spacing
- Single power/data cable

### Software Features

- Real time analysis
- 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
- One measurement checks multiple parameters:
  - Output, flatness, symmetry, field size, beam center, penumbra width
- Advanced applications:
  - Includes beam constancy, steering, diagnostics, collimator and rotational sag QA





## Features and Specifications



### On Accuray® Recommended Equipment List



CyberKnife Birdcage



CyberKnife M6 Birdcage



Detector Type:	SunPoint® Diode Detectors
Detector Quantity:	125 total on four axes
Axes Length:	143 mm (X), 127 mm (Y), 124 mm (Diagonals)
Detector Spacing:	4.0 mm
Active Detector Area:	0.64 mm <sup>2</sup>
Active Detector Volume:	0.019 cm <sup>3</sup>
Detector Sensitivity:	32.0 nC/Gy
Sampling Rate:	50 ms
Detector Stability:	0.5%/kGy at 6MV

Radiation Measured:	Electrons: 4 MeV to 25 MeV Photons: Co-60 to 25 MV
Dose Rate Limit:	>20 Gy/min
Radial Field Size:	10, 20, 40, 60, 80, 100, and 120 mm
Inherent Buildup:	0.5 g/cm <sup>2</sup>
Operating System:	Windows 2000, XP, Vista or 7
Dimensions / Weight:	4.3 cm x 15.0 cm x 33.5 cm / 1.5 kg
Number of Connection Cables:	Single power/data cable

