

Long term reputation in the medical industry.

Assurance we will offer competitive pricing.

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LACO Inc.

can do it all!



## IC PROFILER™

LINAC Servicing for the 21st century

A scanning system for LINAC factory testing, field installation and service, and routine dosimetry.

The IC PROFILER is a faster, more compact version of a 3D water scanner. Ionization chambers on X, Y, and diagonal profiles measure all beam energy profiles in only one measurement. Comparable to a 3D water scanner in performance, but much faster, use the IC PROFILER for LINAC factory testing, field installation and service, and routine trending of LINAC beam characteristics.

### IC PROFILER Fast Setup

- \* Single cable carries power, data and is common to other Sun Nuclear instruments
- \* Connect to computer via USB or serial connection

### IC PROFILER Applications

- \* Linac Servicing, commissioning, annual and monthly QA
- \* Situations where a 3D scanner may normally be required (i.e. after service or component replacement)
- \* Non-routine Beam QA & trouble shooting
- \* Comparison to known standards
- \* Beam start up conditions

### IC PROFILER Hardware

- \* 251 ionization chambers
- \* Measures each accelerator pulse
- \* Real time measurement
- \* X, Y, and diagonal arrays on a 5mm grid
- \* No dose limit
- \* Automatic k(t,p) corrections
- \* 32 x 32 cm measurement range on X and Y axes, 45 x 45 cm on the diagonals
- \* 40 x 40 cm measurement range on X and Y axes; when at 75 cm SPD
- \* 0.5% agreement with water tank scans
- \* User calibrated every 1-2 years using a patented calibration method

### IC PROFILER Specifications

Field Size	32 x 32 cm
Detector Spacing	5 mm
Number of Detectors	251 Total on X, Y, -Diagonal, +Diagonal
Energies	>1MV, >=4MeV
Update frequency	150ms
Detector Volume	46.5 ^3
Detector width	2.9mm
Noise/Signal ratio at 150ms	0.15%