

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!



MapCHECK™

The Worldwide Leader in IMRT QA

Two dimensional detector array for quick and precise verification of radiotherapy dose distributions.

MapCHECK™ is the worldwide leader in film-less IMRT QA. This is due to precision detectors which measure absolute pinpoint dose in steep gradients more accurately than ionization chambers, and with more reproducibility than film. Combines with software known for ease of use and powerful analysis options, MapCHECK is the original gold standard for IMRT QA.

Hardware:

- * Active Detector Area: 0.8 mm x 0.8 mm (0.64 mm²)
- * Inner Array: 10 x 10 cm array: 7.07 mm diagonal, 1.0 cm horizontal/vertical
- * Outer Array: 6 cm wide: 14.14 mm diagonal, 2.0cm horizontal/vertical
- * Axial and Transverse (X,Y) linear array length: 22 cm, 1.0 cm detector spacing
- * Diagonals linear array length: 25.4 cm, 7.07 mm detector spacing
- * User calibrated every 1-2 years using a patented calibration method

Product Options:

The MapCHECK can be used on the treatment couch or at the prescription angle using the **Isocentric Mount Fixture (IMF™)**.



MapPHAN is a water equivalent phantom that holds MapCHECK at isocenter for rotational dosimetry for both sagittal and coronal measurements..



Application:

- * Dose plan verification (field by field, composite or rational/arc)
- * MLC QA: Small detectors identify MLC misalignments as fine as 0.2 mm
- * Beam QA (routine flatness, symmetry, output measurements)
- * Dose based EPID IMRT QA (with EPIDose option)

Setup:

- * Simple, quick setup makes getting started easy
- * Single cable carries power, data and is common to other Sun Nuclear instruments
- * Add buildup if desire, not required
- * CT Scan if desired, not required
- * Option of using Isocentric Mounting Fixture (IMF™) for measurement at prescription angle
- * Select calibration file
- * QA takes just slightly longer than the time needed to deliver the plan

Product Options:

EPIDose is an upgrade option that is a completely independent method of converting any EPID image to dose for analysis in the MapCHECK software.

MapCALC is an upgrade option that is an independent 2D dose and MU calculation solution that operates directly in the MapCHECK software.

The **MotionSim XY/4D** mimics patient specific respiratory traces for accurate and realistic gating QA and target motion QA.

