

MEDICAL DEVICES INC



Vista™ Cone Beam Optical CT Scanner for Research in 3D Dosimetry



Vista™ Cone Beam Optical CT Scanner for Education

## Vista™ Cone Beam Optical CT Scanner

### Designed for 3D dosimetry in advanced radiotherapy

The radiotherapy QA community has brought to light the importance of 3D dosimetry.

"Comprehensive verification of the intricate dose distributions associated with advanced radiation treatments is now an immediate and substantial problem. ...the rapid advances in the technology to deliver radiation treatments have not been paralleled by corresponding advances in the ability to verify these treatments." Oldham et. al. (1)

Existing laser scanners are slow, complicated and not clinically practical. Sparsely sampled 2D detector arrays do not provide enough points for confidence in 3D. Physicists need a simple, reliable, geometrically accurate and dosimetrically accurate measurement solution.

Vista™ is a clinically viable solution currently used for research into 3D dosimeters, including radiochromic gels and solids. When 3D dosimeters become clinically viable and commercially available, physicists will have a full 3D dosimetry solution.

1. M. Oldham, J. H. Siewerdsen, S. Kumar, J. Wong and D. A. Jaffray; Optical-CT gel-dosimetry I: Basic investigations, *Med. Phys.* 30, 623-634, 2003