

KEY FEATURES

- Acquisition, reconstruction, and display of dose distributions in less than an hour
- Compatible with Windows XP and Vista operating systems
- Simple on-screen controls and straightforward workflow



CONE BEAM OPTICAL SCANNER

The VISTA™ scanners reconstruct a 3D map of optical attenuation coefficients within an object suspended in the scanner's region of interest. This is done by capturing a series of 2D optical projections through the region of interest while the object is being rotated and then using Feldkamp filtered back projection to reconstruct the 3D map. The base system is designed to work with radiochromic dosimeters such as Fricke gels which have an absorption peak at 590 nm. Different wavelengths are available on request for different dosimeters and for different applications.



VISTA is capable of scanning objects up to 15 cm diameter by 12 cm long. Objects are suspended in a liquid filled aquarium to provide index of refraction matching. Software is included for scanning, reconstruction and display. Data is fully accessible for research applications.

3D DOSIMETRY

There is consensus within the radiotherapy QA community that 3D dosimetry is required.

"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)



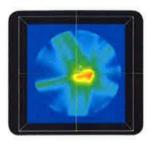






Profile of reconstructed bulls-eye of a unique TomoTherapy[®] dose distribution for evaluation





Surface and "color rendering of a multi-beam dose distribution,

an disvelopment

RESEARCH



Clinically viable 3D dosimeter research solution



ORDERING INFORMATION

100-2015

Vista 15 - Package Includes:

- Scanner
- Software
- User's Guide
- Aguarium 15cm
- Wavelength (590 nm and 633 nm)
- Rotary Stage with clamp for 15 cm jars
- 5 Polyethylene terephthalate jars (15 cm)

Accessories

Accessories	
500-1015	Additional Aquarium 15 cm
500-1060	Additional R15-15 cm Rotary Stage
500-1062	R15-10 cm Rotary Stage
500-1064	R15-8 cm Rotary Stage
500-1280	8 cm PET Jar with Lid box of 32
500-1282	10 cm PET Jar with Lid box of 60
500-1284	15 cm PET Jar with Lid box of 18

MINIMUM TECHNICAL REQUIREMENTS

 2 gHz Pentium 4, Windows XP, 2GB RAM, 16 MB Video card with Texture mapping and Open GL support, firewire (6 pin IEEE 1394) and serial port (RS 232)

SPECIFICATIONS

- Enclosure 35 cm wide x 110 cm long x 35 cm high
- Aquarium glass/acrylic
- Region of interest dimensions up to 15 cm diameter,12 cm long
- Electrical 24V DC; 120 240 V AC switching power supply provided

CONTACT INFORMATION

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