STANDARD IMAGING®

RAY™ SOFTWARE

POWERFUL, EASY TO USE

RAy™ Software provides analyses necessary for detailed IMRT QA, patient-specific CyberKnife QA, and other frequent QA tasks.

3D MULTI-SLICE VOLUMETRIC FILM/PLAN ANALYSIS

Import all available slices of the treatment plan, or select as many as needed to perform plan validation. Change from one slice to the next with one click of a button.

3D RENDERED VOLUMETRIC FILM/PLAN ANALYSIS

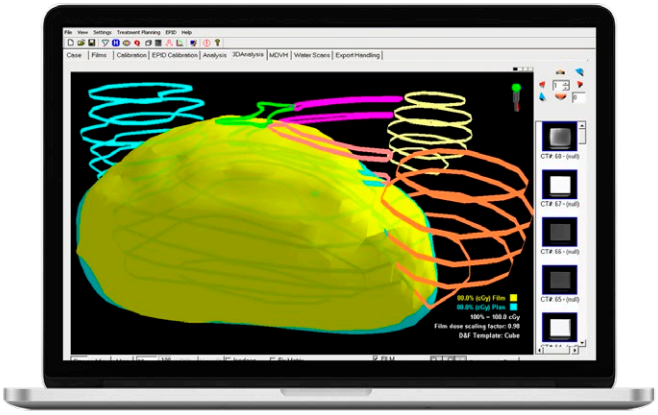
Import the 3D dose matrix from the treatment planning system and compare directly to 3D measured data acquired with a stacked film set.

MEASURED DVH/PLANNED DVH COMPARISON

Using 3D volumetric information perform a comprehensive quantitative analysis by generating and comparing measured DVH vs. planned DVH.

CYBER-KNIFE PATIENT-SPECIFIC QA

Compare both 2D or 3D film measurements to Cyberknife planning data. Cyberknife specific tools allow for fast registration based on tracking fiducials.



MORE MEANINGFUL ANALYSIS

Add another dimension to your analysis by overlaying qualitative threshold isodose lines over quantitative information such as gamma, distance-to-agreement, percent dose difference, or DTA + % Dose Difference maps.

SAVE AND SHARE YOUR WORK

For each case, save data into one integrated .ray file so you can easily archive, retrieve, and share the complete case information with local or remote co-workers.

RAY™ SOFTWARE

DOSE MAPPING

- Isodose
- Dose Wash
- Threshold Dose
- % Dose Difference
- Distance to Agreement
- DTA+%Dose Difference
- Gamma Analysis
- Qualitative and Quantitative analyses overlay
- BMP or JPG export of any analysis picture

SMALL FIELD DOSIMETRY

- SRS Collimator Profile
- SRS Collimator Output Factors
- Small Electron Profile
- Small Electron Cutout Factors

OTHER TESTS

- MLC Calibration Report for calibrating and maintaining calibrated leaf positions based on radiological leaf edge
- Dynamic Wedge QA
- Complementary Water Scans Module compares film results to benchmarked stored water scans.
- Light vs. Radiation
- Star Shot for radiation isocenter identification

PROFILES AND GRADIENTS

- Profile and Gradient
- Symmetry and Flatness
- Energy Check (PDD)
- ASCII export of all 1-D analysis data

DATA INPUT

Film digitization is possible through all TWAIN compliant film digitizers including VIDAR® and Flat-Bed scanners; in 8, 12 and 16 bit. In addition grayscale TIF, BMP, and JPG file types can be imported. Color images may be imported in 24 bit and 48 bit TIF format for individual or combined color channel analysis.

Treatment planning data import is validated for the following planning systems:

- Varian® Eclipse™
- CMS® XiO®
- Nucletron® TMS, THERAPLAN®, and Oncentra®
- Philips® Pinnacle3®
- Corvus®
- BrainLAB®
- Accuray® CyberKnife®

RAY SOFTWARE/COMPUTER REQUIREMENTS

Operating System — Windows 10 Professional, 64 bit.NET 4.5.2

Processor — Dual Core, 1 GHz; Quad Core, 2 GHz Recommended

Memory — 32-bit OS: 2 GB, 4 GB Recommended 64-bit OS: 4 GB, 8 GB Recommended

Hard Drive — 32 GB or greater. Enough free space to store the input structures, and image files as required. 25% free space recommended

Screen Resolution — 1024 x 768 or greater, not recommended for laptops with high resolution or tablets

Optical Drive — Compact Disc (CD) or Digital Versatile Disc (DVD)

Connectivity — IPv4 1Gbit/s(for imaging panel) and IPv4 LAN, 100 Mbit/s or greater

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