

MONTHLY QA

COMPREHENSIVE BEAM VERIFICATION
AND ANALYSIS



QA CROSSCHECKER™

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BEAM AND MACHINE VERIFICATION

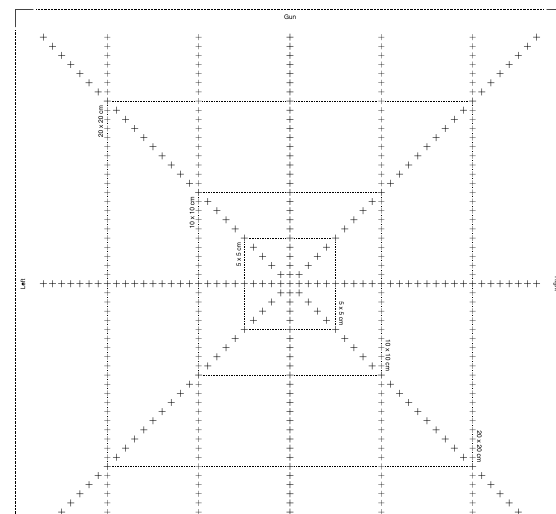
THE QA CROSSCHECKER IS ACCURATE TO WITHIN 1% OF A TRADITIONAL WATER PHANTOM, MAKING IT THE EASIEST WAY TO VERIFY BEAM OUTPUT.

WATER PHANTOM FREE

Compare results to water phantom baselines and achieve accuracy within 1%, and detect beam energy shifts of 0.5%. Perform accurate monthly machine QA without the hassle of a water phantom.

ONLY ONE DELIVERY REQUIRED

Capture and analyze all parameters with just a single beam delivery, allowing for quick and detailed measurements of constancy, as well as flatness and symmetry along all four axes (in-plane, cross-plane, and diagonals). QA CrossChecker is designed to achieve fast and efficient workflow. Set up and record your measurement geometry, queues and analysis protocols once. A fast and efficient design ensures only one-time setup of measurement geometry, queues, and analysis protocols.

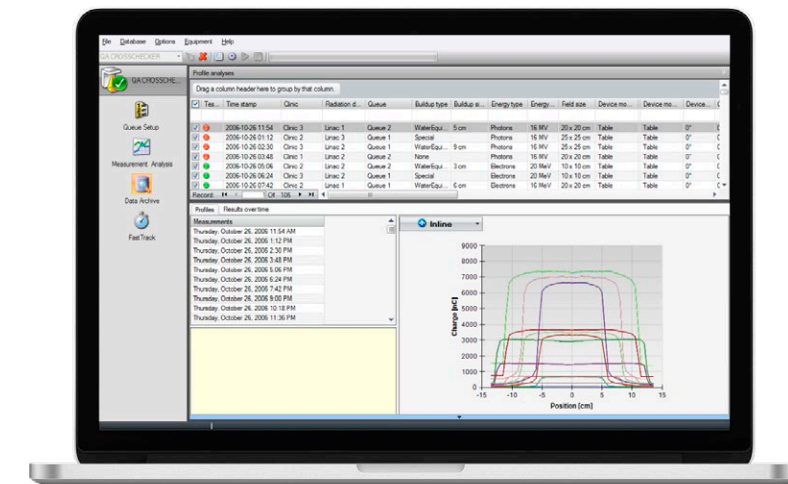


OPTIMIZED DETECTOR POSITIONING FOR KEY LINAC QA ROUTINE

453 air-vented pixel ionization chambers with optimized 5 mm spacing allows for accurate machine QA including dosimetric, mechanical, gating and MLC performance testing. Parallel readout from independent electrometers allows for fast measurements.

DON'T JUST CHECK, CROSSCHECK

QUICKLY PERFORM ALL OF YOUR DAILY, WEEKLY OR MONTHLY CHECKS VIA SEAMLESS, PRE-DEFINED QUEUES AND PROTOCOLS.



REAL-TIME MEASUREMENTS AND ANALYSIS

Execute pre-defined queues with consecutive measurement and analysis of:

- CAX field width and penumbra
- Symmetry, flatness and wedge check
- Dose output and energy verification
- Inline, crossline, and diagonal profiles
- Light-field vs. radiation-field check

Tolerances can be set by manual input or reference measurements.

SEAMLESS ENERGY CONSTANCY VERIFICATION PLATES

Accompanying software automatically compares measurement sets of each energy with the corresponding set of reference values. A test report is created to track chosen pass/fail criteria and reference values.

- Electron beams from 4 to 22 MeV
- Photon beams of any energy from 4 to 25 MV

OPTIONAL GANTRY HOLDERS

Mount detector and build-up plates to the gantry head.



QA CROSSCHECKER SPECIFICATIONS

PHOTONS — 4 to 25 MV // **ELECTRONS** — 4 to 22 MeV

ION CHAMBER

DIAMETER — 3 mm // **HEIGHT** — 4 mm // **VOLUME** — 0.035 cm³

IN-PLANE RESOLUTION — 5 mm // **CROSS-PLANE RESOLUTION** — 5 mm // **DIAGONAL RESOLUTION** — 7 mm

SOFTWARE/COMPUTER REQUIREMENTS

OPERATING SYSTEM — Windows® Vista® or Windows® 7 // **PROCESSOR** — Pentium® (or equivalent), 1.8 GHz or better

MEMORY — 2 GB RAM or greater // **HARD DRIVE** — 6 MB available, 40 GB for data archiving

SCREEN RESOLUTION — 1024 x 768 or higher // **PORTS** — Available Ethernet required

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