

Dosimetry and QA Solutions for MR-Guided Radiotherapy Product Overview



Beam Commissioning and Annual QA

BEAMSCANIMR

Motorized 3D Water Scanning System

Highlights

- ▶ Integrated, fully equipped solution from measurement to documentation
- ▶ All-in-one system for fast, hassle-free setup
- Vendor-specific water tanks with optimized scanning ranges: 568 mm x 145 mm x 355 mm (Elekta), 408 mm x 248 mm x 355 mm (ViewRay®)
- Maximum speed of 30 mm/s
- ▶ Patented TRUFIX® system for quick axial and radial detector setup
- Consistent detector orientation for all scans, including off-axis scans
- > Straightforward, largely automated operation with predefined task lists
- ▶ Fully integrated with Track-it for automated reporting

Options

- ▶ Radiation Detectors
- ▶ Track-it QA Data Management Software





System and Patient QA

RUBY

Modular Solution for System and Patient QA

Highlights

- Perform integrated tests of the entire treatment chain with one basic phantom by adding and expanding QA capabilities as when you need them
- Technologically advanced, new modular phantom platform with powerful, ready-to-use application-specific inserts

System QA

- ▶ The System QA insert features MR visibility in T1 and T2 at 1.5 T
- ▶ The System QA insert allows the positioning of a MR compatible detector in the center of RUBY
- Allows End2End QA using the adapt-to-position workflow or the adapt-to-shape workflow

Patient QA

- ▶ The Patient QA detector insert allows plan verification at a single point in a homogeneous phantom
- ▶ The Patient QA film insert allows plan verification in a plane in a homogeneous phantom
- Tissue-equivalent materials that follow ICRU-44/-46 standards





Machine QA

STARCHECK MAXI® MR

Advanced LINAC QA

Highlights

- Complete LINAC QA with one single device from measurement to documentation
- Fast acquisition of all relevant beam data in one single shot: in-plane, cross-plane, diagonal beam profiles, beam parameters, dose
- ▶ Highest spatial resolution (3 mm)
- ▶ Optimal detector layout and density 707 air-vented ionization chambers
- ▶ 40 cm x 40 cm field measurements at clinically relevant 100 cm SSD
- ▶ Fully integrated with Track-it for automated reporting

Options

- ▶ Build-up plates (40 cm x 40 cm)
- ▶ Track-it QA Data Management Software



UMDOS® Tango

Reference Class Electrometer

Highlights

- ▶ Premium electrometer exceeding IPEM and IEC 60731 standards
- New usability features like Intelligent Detector Recognition (IDR) and remote control
- Measurements with high precision and a resolution of 100 aA
- ► High-resolution 5" touchscreen with excellent readability from different angles
- ▶ Intuitive GUI in 9 languages
- ▶ Interface to Track-it via BeamDose
- Individual and password protected profiles with all device settings and detector parameters

Options

- Manual MP1 MR 1D Water Phantom
- ▶ BeamDose 2.0
- ▶ Track-it QA Data Management Software





Radiation Detectors



PTW Farmer (30010*, 30013) Volume: 0.6 cm³ Field size: (5 x 5) cm² ... (40 x 40) cm²



Advanced Markus® Chamber (34045)
Volume: 0.02 cm³
Field size:
(3 x 3) cm² ... (40 x 40) cm²



Semiflex Chamber (31010) Volume: 0.125 cm³ Field size: (3 x 3) cm² ... (40 x 40) cm²



microSilicon (60023) Volume: 0.03 mm³ Field size: (1 x 1) cm² ... (10 x 10) cm² for photons



Semiflex 3D Chamber (31021) Volume: 0.07 cm³ Field size: (2.5 x 2.5) cm² ... (40 x 40) cm²



microDiamond® (60019) Volume: 0.004 mm³ Field size: (1 x 1) cm² ... (40 x 40) cm²



PinPoint® 3D Chamber (31022) Volume: 0.016 cm³ Field size: (2 x 2) cm² ... (40 x 40) cm²

MR safety certificates available.

*non-waterproof

For more information on PTW dosimetry and QA solutions, visit ptwdosimetry.com or contact your local PTW representative.

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