

Beam Commissioning and Annual QA

BEAMSCAN® MR

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

Machine and Patient QA

STARCHECK® and OCTAVIUS®

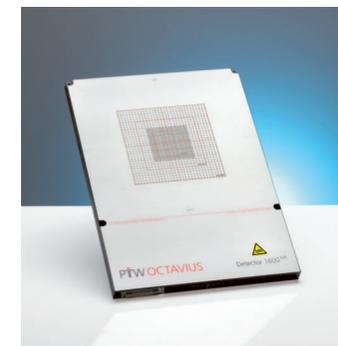
Ionization Chamber Arrays

Highlights

- ▶ Complete LINAC and patient QA
- ▶ High resolution STARCHECK^{maxi MR} for full field measurements
- ▶ OCTAVIUS Detector 1500^{MR} and OCTAVIUS Detector 1600^{MR} for patient dosimetry
- ▶ Fully integrated with Track-it for automated reporting

Options

- ▶ OCTAVIUS Phantom
- ▶ 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



Radiation Detectors



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



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



PinPoint® 3D MR Chamber (31025)
Volume: 0.016 cm³
Field size:
(2 x 2) 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 MR Chamber (31024)
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