MultiMet-WL Cube
Targeting Accuracy Check for MultiMet SRS

As clinics move toward single-isocenter multiple-met SRS treatments, more stringent off-axis QA is needed. The MultiMet-WL Cube efficiently measures targets up to 7 cm off-axis within 0.1 mm accuracy.

Features and Benefits

- Precise phantom with 6 spherical targets (5 mm in diameter) set at precise locations
  - Quantifiable accuracy up to 7 cm off isocenter
  - Reduced likelihood of phantom placement errors
- Surface-level cross-hair markings visible in CT imaging, easing phantom orientation and alignment to delivery system
- Compatibility with Cone, MLC or Jaw deliveries
- User-friendly software workflow
  - Extended Winston-Lutz (WL) analysis to calculate 3D locations of off-axis targets in patient frame of reference, helping identify and reduce positioning errors
  - Ability to identify source of error — Gantry, Couch or Collimator — in 6 degrees of freedom
  - Software included to automate analysis

Use the MultiMet-WL Cube with StereoPHAN, or as a standalone phantom

sunnuclear.com // +1 321 259 6862

Corporate Headquarters: 3275 Suntree Boulevard, Melbourne, FL 32940 USA
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Specifications

- **Dimensions:** (cm$^3$) 8.5 x 8.5 x 12.75
- **Targets:** 6 (5 mm diameter) tungsten targets in specified locations
- **Target to Cross-hair tolerance:** ± 0.1 mm
- **Target Material:** Tungsten Carbide
- **Quantifiable Off-Axis Accuracy Range:** Up to 7 cm

Compatibility

- **StereoPHAN™** Yes
- **Cone, MLC, & Jaw Deliveries:** Yes
- **Varian Medical Systems® Trilogy™, TrueBeam®, and Edge® Systems:** Yes
- **Elekta Versa HD™ and Synergy® Systems:** Yes

Six targets enable quantifying the margin of error up to 7 cm off-axis.

“This phantom... provides a simple method to verify targeting accuracy for multiple lesions with single isocenter. Its integration with the SteroPHAN™ makes it an effective supplemental tool for end-to-end testing for SRS.”

Development of a Phantom to Verify Targeting Accuracy of Single-Isocenter Multiple Lesion Stereotactic Radiosurgery, AAPM 2019

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