

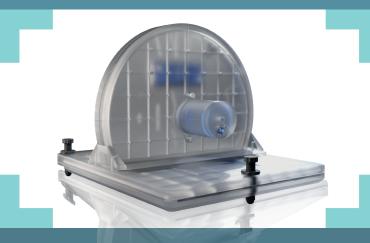
PRODUCT CATALOG















Our Story

A TEAM YOU CAN COUNT ON

For 20 years, Modus QA has been at the forefront of quality assurance in the field of advanced radiotherapy and medical imaging. With continued innovation we have earned the trust of the world's leading medical physicists, creating phantoms and software that help fulfill their responsibilities with the utmost confidence. In 2022 we joined the IBA family enabling us to expand the future possibilities for our customers. Our team's combined knowledge and passion delivers critical QA tools and software needed to ensure the best care and the best outcomes.

GREATER ACCURACY, GREATER CONFIDENCE

Our quality assurance tools are built to the highest standards to achieve the greatest accuracy. Trusted by medical physicists since 2000 and with more than 5,000 QUASAR™ phantoms used in leading treatment centers across the world, we help medical physicists and our partners fulfill their responsibilities with the utmost confidence.

Pictured: First QUASAR™ Phantom



Jean-Marc Bothy, President of IBA Dosimetry says:
"Modus QA are renowned experts in the dosimetry space and this highly complementary axquisition further enhances our world leading dosimetry offering. We are very pleased to welcome the Modus QA team's expertise to the Dosimetry team, and are looking forward to working together to deliver IBA Dosimetry's mission to treat even more patients safely."

Why Modus

FOR MEDICAL PHYSICISTS

Designed by Medical Physicists, our products are built with a deep understanding of your clinical needs. This results in QA equipment that is built to improve workflow every time.

FOR OEMS

Collaborative development approach with physicists and OEM partners results in products created and manufactured to the highest standards for QA solutions. Our focus on comprehensive after-sale service and support also means we're delivering confidence to you and your customers, every step of the way.

Modus QA celebrated our 20th year in 2020. Our numbers and influence in the field of advanced radiotherapy and medical imaging reflect over 2 decades of growth:

20+6K+3K+

YEARS OF QA
EXPERIENCE

QUASARTM
PHANTOMS

USING QUASARTM
USING QUASARTM
DIMANTOMS

DIMANTOMS

PHANTOMS

IN USF

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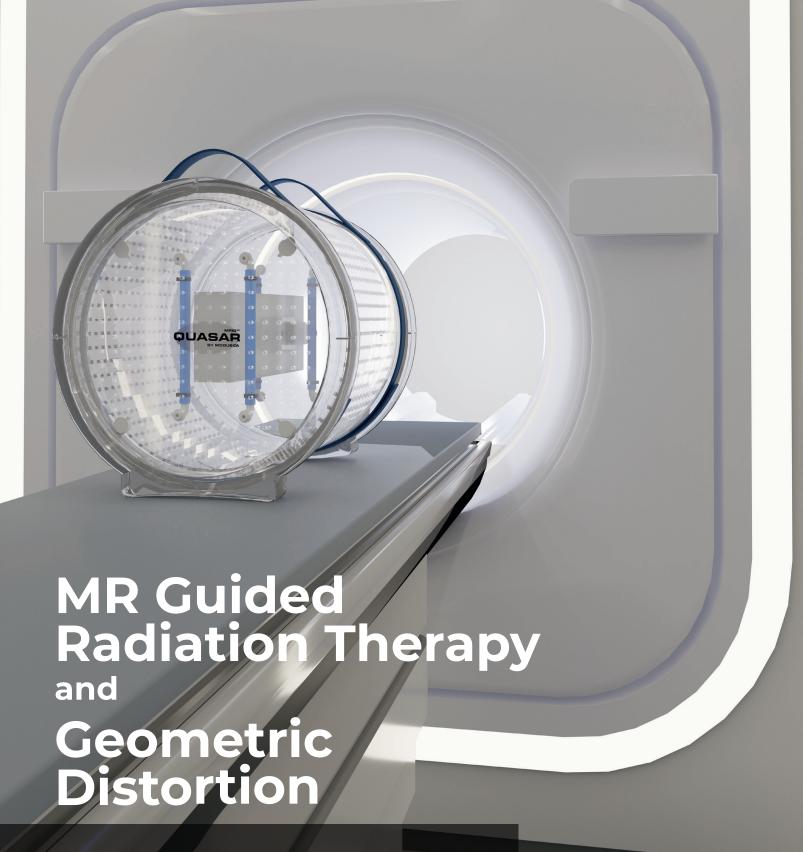
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OUASAR™ Winston-Lutz Wand Phantom



Collaborating with the world's leaders in MR technology, Modus QA is well-positioned to provide you with the best MR solutions available today.

GRID^{3D}

QUASAR™ GRID^{3D} Image Distortion Analysis System 100-1017





The QUASAR™ GRID³D Image Distortion Analysis System is designed to evaluate MR and CT imaging data on Leksell Gamma Knife® platforms, including PERFEXION™ and ICON™.



APPLICATION(S): MR Guided Radiation Therapy, Geometric Distortion



Phantom Highlights

- Dense 1 cm³ grid, manufactured to 0.1 mm tolerance, analyzes 2002 signal-producing control points.
- Designed for simple insertion and positioning within the Leksell G-Frame®.
- Automated image analysis with an advanced user interface provides efficient image distortion analysis.

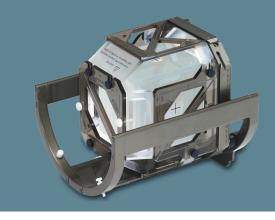
Software Highlights

- Advanced, automated control point detection algorithm.
- Evaluate distortion values and detection uncertainty for each control point.
- Evaluate results directly within the GammaPlan™ reference space for increased confidence.
- Increased support for frameless distortion analysis.

Simplified Workflow

"What I like about the QUASAR™ GRID³D system is the simplicity of its design and operation. In a matter of minutes I can obtain a full 3D distribution of geometric distortion. Fine-tuning an MR sequence is now an efficient undertaking, as opposed to a nearly endless chore of phantom preparation and image analysis."

Ian Paddick, Consultant Physicist,
 Medical Physics Limited



MRgRT Insight

QUASAR™ MRgRT Insight Phantom 100-1023







QUASAR™ MRgRT Insight is designed using the testing recommendations from AAPM TG284 and the Elekta MR Consortium. This enables you to capture a deeper understanding of your MRgRT system with only **one comprehensive and efficient scan**



COMPATIBLE MACHINE(S): MR-SIM, MR-Linacs, Conventional diagnostic MRI **APPLICATION(S):** MR Guided Radiation Therapy, Image Quality, Machine targeting

Phantom Highlights

- ▶ Efficient large FOV: The large field of view (400 mm) design, as prescribed by AAPM TG284, improves workflow efficiency by providing image quality and geometric distortion metrics within a single comprehensive 5-minute scan
- Comprehensive testing: Sophisticated phantom design allows physicists to perform a wide range of QA tests from daily QA to annual QC procedures across axial, sagittal, and coronal configurations with repeatability and confidence. Unique testing features include:
 - Laser landmark targets
 - Large uniform flood field
 - Geometric distortion grid
 - · Phantom alignment channels
 - Spatial resolution structures
 - · Slice thickness ramps
 - · Adjustable upright and base orientations.
- Versatility: RT accessories, such as Ion chamber holders, MR/MV targets and large film cassette inserts expand the phantom use to provide an end-to-end dosimetry solution

Tests recommended by AAPM TG284 and the Elekta MR Consortium

Uniformity
Spatial resolution
Slice thickness
Geometric distortion
Phased-array SNR
Large FOV B0 assessment
Laser and patient table positioning
accuracy
Imaging/laser isocenter agreement

Imaging/laser isocenter agreement MV/MR coincidence QA End-to-end dosimetry.

Can be done using the QUASAR™ MRgRT Insight phantom

Expand your Insight with a range of interchangeable accessories to give you an end-to-end solution

Elekta



Indexing Accessory Aid Alianment for MR-SIM

and Elekta Unity.



Phased Array Coil Bridge

For use with ViewRay MRIdian to avoid stress on the coils or connectors



Film Cassette Insert

Insert accommodates a single 70mm x 175 mm EBT3 film



Single ion Chamber Holder

Enables point dosimetry testing at isocentre or offset positions. The acrylic material provides a negative MR signal target within a mineral oil cylinder and can be customized for your preferred ion chamber.



Dual ion chamber holder

Insert holds multiple ion chambers for vertical and horizontal beam measurements. Customized for your preferred ion chamber.



Laser alignment target

Check laser alignment calibration in relation to the DICOM isocenter. Offset registrations can be performed on any area of the Insight's upright portion.





MR/MV Targets

3 ceramic ball bearing targets with multiple positioning options for 3D MR/ MV registration and MLC positioning accuracy QA using EPID verification.

Software Highlights

- Pass/warn/fail mode: This intuitive mode enables you to instantly triage the MR performance with a simple pass, warn and fail interface. The additional customizable tolerances allow you to evaluate and understand the MR system's metrics quickly and efficiently.
- Image quality analysis and trending: Automated Software is used to rapidly calculate image quality metrics and monitor the performance of your MR system in less than 1 minute. User adjustable ROI trending features, allow you to monitor your system performance over time and trigger investigations when required.
- Geometric distortion: You can automatically quantify and report distortions and evaluate and visualize 2D DVF's of the 400mm FOV with high resolution and accuracy. Distortion can be evaluated in all 3 planes by rotating the upright section or using the baseplate distortion features.

- Interactive Visualization tool: Advanced 2D/3D viewer provides users a visual representation of system performance. Multiple real-time analysis tools offer a variety of ways to investigate the results, including the ability to create line profiles and histograms of user-specified ROIs
- Reporting feature: The Insight software improves clinical workflow by creating custom reports of your QA procedures and results. Metrics can be easily communicated to your Physics QA Team and/or backed-up and stored for auditing purposes



MRID^{3D}

QUASARTM MRID^{3D} Geometric Distortion Analysis System

100-1018

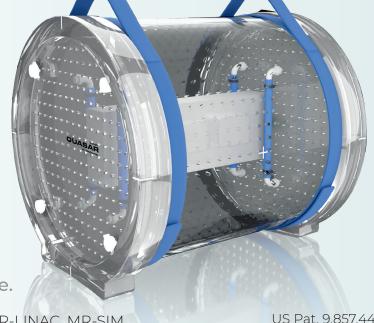




QUASAR™ MRID³D is a lighter, larger, and more efficient way to quantify MRI geometric distortion in 3D. This industry-leading distortion analysis system provides submillimeter accuracy and is trusted globally by medical physicists for third party MR-SIM and MR-LINAC commissioning and quality assurance.

COMPATIBLE MACHINE(S): SRS Systems, MR-LINAC, MR-SIM

APPLICATION(S): MR Guided Radiation Therapy, Geometric Distortion



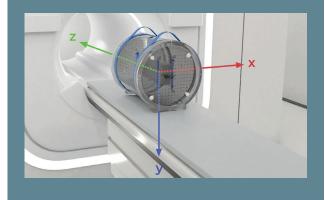
US Pat. 9,857,443 10,082,550

Phantom Highlights

- Workflow Efficiency: Quick setup, scanning and analysis of geometric distortion measurements. Auto-detection and auto-registration features support quick and accurate data analysis.
- ➤ Geometric Accuracy/Stability: NEMA/MITA MS-12 and IEC 62464-1 standard-setting design ensures geometric integrity over the lifetime of the phantom, creating a superior geometric distortion solution.
- ➤ Spherical Harmonic Analysis Detection Method: Quantifies MR Geometric Distortion by adaptation of algorithms used in B0 shimming and gradient coil design. Allows for a highly accurate, precise, and significantly lighter geometric distortion phantom.
- Automatic Phantom Registration: Accuracy is further improved by the automatic detection of alignment features: correct laser alignment or positioning error.
- Large FOV Without the Weight: At 21 kg, the pre-filled 37 cm x 32 cm imaging FOV contains 1496 5 mm fiducials designed to evaluate 11,253 data points.

Accuracy and Precision

The standard-setting MRID^{3D} phantom provides superior geometric distortion analysis in an easy-to-use and efficient package. From the precision CNC machined fiducials, superior contrast media and the temperature/pressure compensation system, the MRID^{3D} phantom is designed to achieve true sub-millimeter accuracy for years to come.



The Best Way to QUANTIFY MRI GEOMETRIC DISTORTION IN 3D

The world's experts in MRgRT are also our partners. MR OEMS rely on the MRID^{3D} for the commissioning and continuous QA of MRgRT systems. Evaluate distortion on all systems ranging from 0.35T – 3T.

pictured: QUASAR™ MRID^{3D} used with Elekta Unity

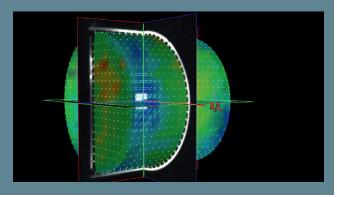
Software Highlights

- Efficient and Secure: Fast data transfer using a built-in DICOM receiver on a locally stored software platform.
- Unlimited Scan License: Test freely without concerns of a time-limited license or depleting a quota of eligible scans. MRID^{3D} is provided with an unlimited scan license on 1 system with no expiry. Additional system licenses available.
- Real-time Visualization Tools: Interactive 3D DVF Viewer with ROI selector enables users to update displayed data in real-time.
- Trending Analysis: Monitor your MR hardware using periodic scans to evaluate DVF changes over time.
- ▶ **B0 and GL Differentiation:** Evaluate system distortion with the ability to automatically separate B0 and GNL distortions. Valuable for a deeper understanding of your system distortion as well as advanced imaging techniques such as DWI.

Speed and Automation

T1W analysis is completed in under 10 minutes, including setup, scan and data transfer. A full 3D DVF is obtained using 1 single acquisition, saving physicists valuable scan time.

Through intensive design and engineering, the MRID^{3D} phantom provides quick and accurate analysis of 11,253 data points over a large 37 cm x 32 cm F.O.V.



MRI^{4D}

QUASAR™ MRI^{4D} Motion Phantom 100-1022







QUASAR™ MRI^{4D} is the world's first MR-safe programmable motion phantom. The MRI^{4D} enables you to develop, test, and validate advanced 4D treatment delivery protocols on MR-SIM and MR-LINACS.



COMPATIBLE MACHINE(S): LINAC, Ring-Gantry System, SRS Systems, MR-LINAC, MR-SIM, PET **APPLICATION(S):** Motion Management, MR Guided Radiation Therapy, Machine Targeting

Phantom Highlights

- System Compatibility: Utility within MR, CT, and PET-based systems. MRI^{4D} can perform motion QA across all platforms, providing a comprehensive end-to-end validation of treatment protocols.
- Workflow Efficiency: Integrated phantom design and easy-to-use motion software saves time and increases operational efficiency by reducing or eliminating the need for complex assembly before operation.
- Testing Versatility: Fillable components allow customization of contrast media, enabling improved visualization of desired structures.
- Latency Tools: Provides analog input and output connectivity for real-time latency statistics without an external oscilloscope. Users can select beam on/off triggering points within the software to quantify the treatment system's total latency values.
- Ultra-Low Latency Motion: Features an ultralow latency controller (<500µs), which does not contribute significant phantom latency to the motion management system analysis.
- ► Complex Motion: Programmable 3D target motion provides in-depth QA of MRgRT gating and tracking systems. Users have the choice to set the complexity of motion with our intuitive software.

The World's Experts in MRgRT are also our partners

We are proud to be part of the ViewRay partner program and the STARLIT Elekta / Philips consortium (System Technologies for Adaptive Real-time MR image-guided therapies) to provide necessary capabilities related to 4D MRgRT quality assurance and dosimetry.



MR SAFE 4D Motion QA

for Adaptive MRgRT

The programmable QUASAR™ MRI^{4D} Motion Phantom is designed to move liquid or gel-filled cylindrical inserts within a contrast media filled body shaped oval at varying speeds and amplitudes. Optional ion chamber holders, film cassettes and interchangeable targets provide end-to-end testing flexibility.

pictured: QUASAR™ MRI^{4D} used with Elekta Unity



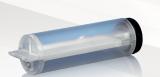


Center Ion Chamber Holder with spherical target installed in Hollow Insert



Offset ICH

Offset Ion Chamber Holder with cuboidal target installed in Hollow Insert



Film Cassette Insert

Insert accommodates one layer of EBT3 film



Spherical Targets

Additional Spherical Targets

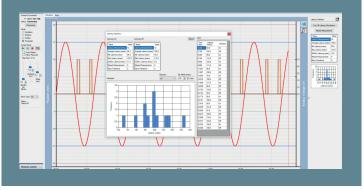
Software Highlights

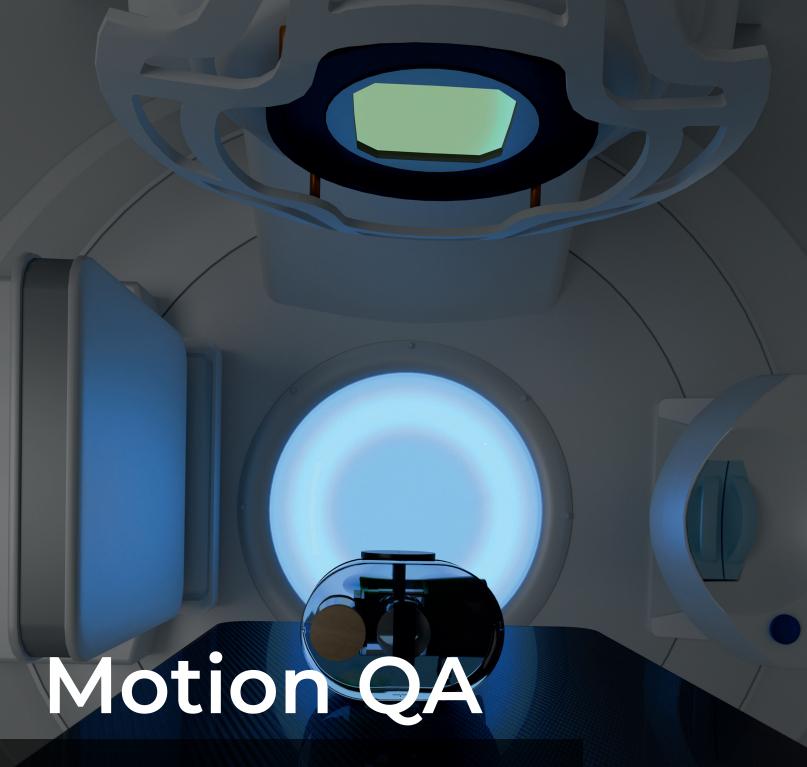
- Complex Motion Control Options: Our Respiratory Motion QA Software offers multiple operation modes to increase utility. From adjustable sinusoidal motion and simple test patterns to accurate playback of complex 3D waveforms.
- Customizable Waveforms: Enables import of acquired waveforms from a number of respiratory gating and motion tracking systems. Waveforms are customizable, improving the user experience when modifying waveform patterns to achieve the desired testing protocol.
- Latency Data Reporting: Using the detailed latency reporting capabilities, physicists can improve the accuracy and confidence of their MRgRT delivery.

This product manufactured under license from CIRS, Inc., Norfolk, Virginia, USA, Pat. 7,151,253.

Ready for the Future

The MRI^{4D} includes advanced latency measurement capabilities without need of an external oscilloscope. A new generation of MR-guided radiotherapy systems require detailed reporting of their system latency. The MRI^{4D} is equipped for current and future testing capabilities needed for gating and tracking techniques.





Modus QA specializes in motion quality assurance devices that enhance the management of patient and tumor motion in clinical practice. These systems allow you to verify treatment planning procedures and provide the best care for your patients.

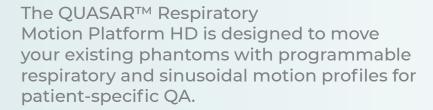
Platform HD

QUASAR™ Respiratory Motion Platform HD 100-1010-200









COMPATIBLE MACHINE(S): LINAC, Ring-Gantry System, SGRT **APPLICATION(S):** Motion Management, Machine Targeting

Phantom Highlights

- Versatility: Accommodates any phantoms weighing up to 45 kg on a 33.2 × 35 cm platform.
- Motion Control Options: Easy operation with local, manual control at the motor, or advanced, software-programmable control.
- ▶ Motion Precision: Highly responsive motor repositions translation stage every 10 ms providing real breathing replication. A wide range of waveforms, operating at 0-60 BPM are easily replicated.
- Quick Alignment: Includes specialized features for rapid in-line or offset phantom alignment, including rapid 30° offset alignment wedge.

Software Highlights

- Complex Motion Control: Play back captured or created waveforms to increase motion complexity. Waveforms can be tested for capability of playback with a given load prior to operation.
- Customizable Waveforms: Easily edit and save provided or captured waveforms to achieve the desired motion pattern.
- **DIBH Mode:** Initiate a Deep Inspiration Breath Hold on demand for increased efficiency during testing.

Integrate Motion QA into your Leading Systems

The QUASAR™ Platform HD is compatible with limitless applications such as the myQA SRS and various SGRT systems including Vision RT, C-RAD, Brainlab, and Varian. Easily import patient-specific waveforms from various motion capture sources. Compatible with .VXP, .CSV, .TXT, .DCM, .LOG, .DAF, .IMA file formats.



pRESP

QUASAR™ Respiratory Motion Phantom (pRESP) 100-1011







The QUASAR™ Respiratory Motion
Phantom (pRESP) is a programmable
breathing and tumor motion simulator
for end-to-end quality assurance on
motion-guided radiation therapy systems
including CT, LINAC, and PET.



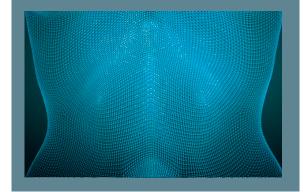
COMPATIBLE MACHINE(S): LINAC, Ring-Gantry System, SGRT **APPLICATION(S):** Motion Management, Machine Targeting

Phantom Highlights

- ➤ **Simplicity:** Easy to operate motion phantom with advanced tools for intuitive motion management QA.
- Versatility: Comprehensive collection of interchangeable inserts provides end-to-end testing on multiple treatment and imaging platforms. Additional functionality for SGRT systems – capture motion waveforms and confirm the chest wall and tumor motion effects on treatment delivery.
- ▶ Motion Control Options: Local, manual control at the motor or advanced, programmable control with included software. Add increased 3D motion capabilities with the optional 3D Rotation stage (500-3330).
- ▶ Motion Precision: A highly responsive motor repositions the translation stage every 10 ms (100× per second), providing real-life breathing replication. Waveforms from 0-60 BPM are replicated with ease, testing a large range of clinical protocols.
- Latency Tools (for v1.5 only): Provides analog input and output connectivity for real-time latency statistics without an external oscilloscope. Users can select beam on/off triggering points within the software to quantify the treatment system's total latency values.

Integrate Your Motion QA with Leaders in SGRT

Features a vertical chest-wall platform that is compatible with SGRT systems, such as: Vision RT, C-RAD, Brainlab, and Varian. Import patient-specific waveforms from various motion capture sources. Compatible with: .VXP, .CSV, .TXT, .DCM, .LOG, .DAF, .IMA file formats.



Phantom Inserts



Cedar Lung Tumor Inserts

2D Dose Distribution in and around a tumour within Lung Density Material (for Gafchromic film)



Acrylic Insert

Ion Chamber Measurements in Neutral Density Material



PET CT Imaging Insert

Acquisition, Reconstruction, Display and Registration 30 mm Sphere



Hollow Insert with Screw Cap

Fill with liquid or gel for user-specific



4D CT Imaging Insert

Verify the geometry and density in each phase of a 4D CT image

Cedar Solid Tumour Inserts

Imaging and Chamber Dosimetry with or without a tumour within Lung Density Material

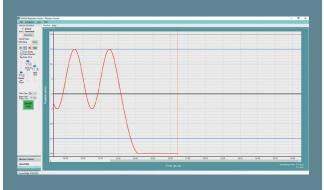
Software Highlights

- ► Complex Motion Control: Playback captured or created waveforms to increase motion complexity. Our Respiratory Motion QA Software offers multiple operation modes to increase utility. From adjustable sinusoidal motion and simple test patterns to accurate playback of complex 3D waveforms.
- Customizable Waveforms: Easily edit and save provided or imported waveforms to achieve the desired motion pattern using a wide range of functions:
 - Adjust the amplitude and frequency
 - Stretch or compress the timeline
 - Filter out high-frequency noise, low-frequency drift, and cardiac signals
- **Utility:** Software license allows for unlimited usage and installation on unlimited computers. Software architecture enables remote access over a network or direct connection to a PC.
- ► Latency Data Reporting (for v1.5 only): Using the detailed latency reporting capabilities, physicists can improve the accuracy and confidence of their beam delivery system.

This product manufactured under license from CIRS, Inc., Norfolk, Virginia, USA, Pat. 7151253.

Deep Inspiration Breath Hold Mode

pRESP software incorporates a Deep Inspiration Breath Hold Function that automatically initiates a simulated breath hold of the phantom. This feature promotes workload efficiency by initiating a breath hold on demand and testing your system's treatment delivery accuracy.



Machine Targeting Our collection of beam geometry phantoms is used globally to validate the accuracy of countless treatment targeting systems. Modus QA devices support accurate therapy delivery systems, strengthening the foundation for improved outcomes in today's radiation therapy clinics QUASAR™ PentaGuide used with Elekta Versa HD

MP Body

QUASAR™ Multi-Purpose Body Phantom 100-1004





The QUASAR™ Multi-Purpose Body Phantom is a flexible tool designed to perform both dosimetric and nondosimetric tests on radiotherapy systems. It incorporates a wide variety of test objects in a solid acrylic housing.





Phantom Highlights

- Comprehensive Testing: Designed to fulfill treatment planning and delivery testing requirements as prescribed by the following guidelines: AAPM TG 53/66, IAEA TRS-430, TECDOC-1540/1583/1588, IEC 62083.
- Flexibility: Designed for simple interchangeability of inserts which enables measurements in various locations of the phantom. Validate a broad range of applications including TPS accuracy and end-to-end testing of SBRT delivery.
- ➤ Compatibility: Perform cross-system verification on all x-ray-based systems designed to deliver IMRT, IGRT, VMAT, SRS and Tomotherapy.



Ready for Motion

Easily converts to an IGRT motion phantom with the addition of the QUASAR™ Respiratory Motion Assembly. Add motion capabilities with the addition of a QUASAR™ Respiratory Motion Platform (see page 13 for Platform HD details).

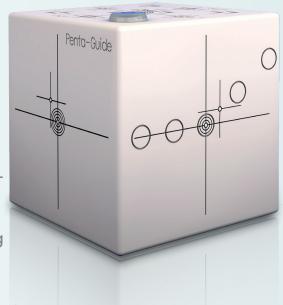


Penta-Guide

QUASAR™ Penta-Guide Phantom 100-1009



The QUASAR™ Penta-Guide Phantom is recognized globally as the preferred tool for commissioning and daily testing of Image-Guided Radiotherapy (IGRT) systems. This daily phantom ensures the accuracy of LINAC OBI guidance systems, including KV, MV, and X-ray Volumetric Imaging (XVI) using Cone Beam CT (CBCT).



COMPATIBLE MACHINE(S): LINAC, Ring-Gantry System, SRS Systems, SGRT

APPLICATION(S): Machine Targeting

Phantom Highlights

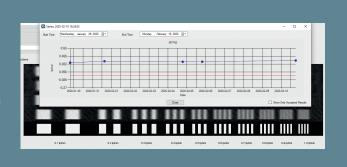
- Intuitive Design: Unique system of 5 low-density rings and hollow spheres enables intuitive quality assurance while eliminating high-density imaging artifacts.
- Workflow Efficiency: Use in routine QA/ geometric accuracy tests. Confirm room laser, SGRT, IGRT and MV targeting alignment while capturing valuable CBCT image quality data.
- Precision: 0.25 mm accuracy. Perform multiple alignment tests with repeatability and confidence. Visual tolerance features provide intuitive pass/fail criteria.

Software Highlights

- Alignment Consistency: Use trending tools for early detection of alignment problems.
- Daily QA Checklist: Store and track daily QA procedures with sign-off authorization.
- Reporting Feature: Custom reports of daily QA procedures for improved communication within the physics group.
- **Visualization Tools:** 3D viewer for enhanced analysis of imported data.

CBCT Image Quality Trending

Use Penta-Guide's automated analysis software to evaluate image quality (IQ) metrics and monitor the performance of your LINAC OBI systems. Stats including spatial resolution (MTF), Hounsfield unit constancy and noise/contrast ratio reduce the need for additional IQ phantom scanning, saving valuable time.



Tilt Plate

QUASAR™ Penta-Guide Tilt Plate 500-3503



The QUASAR™ Penta-Guide Tilt Plate is an accessory to the QUASAR™ Penta-Guide Phantom to facilitate daily QA of linear accelerators equipped with 6 degree of freedom couches.



COMPATIBLE MACHINE(S): LINAC, Ring-Gantry System, SGRT

APPLICATION(S): Machine Targeting

Phantom Highlights

- Tests basic rotation corrections, combined translation, and complex rotation corrections on a 6DoF couch.
- Use the Tilt Plate and Penta-Guide as part of the daily QA of your SGRT system's alignment correction and isocenter correlation.
- Tilt angles are: 0.75°, 1.25°, and 1.0°.
- Turning the tilt plate in 90° increments varies the direction of the rotation corrections.
- Compatible with new and existing QUASAR™ Penta-Guide Phantoms.
- Features a precision cut out to accommodate most localization bars.

DAILY 6DoF

The Tilt Plate positions the Penta-Guide Phantom at known rotation angles and displacements relative to the isocenter. Users can test rotation corrections and translations on a 6DoF couch. Setup lines are provided at strategic locations to test the ability to correct alignment in different directions.

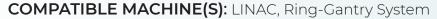


IsoCenter Cube

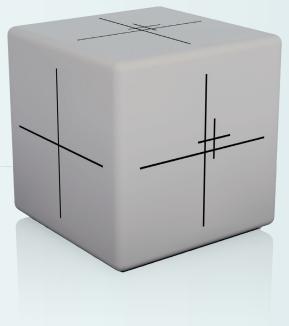
QUASAR™ IsoCenter Cube Phantom 100-1016



The QUASAR™ IsoCenter Cube is designed to implement a modified Winston-Lutz test for IGRT accuracy required for optimal treatment delivery. This system is also used for TG-142 quality assurance compliance for isocenter and laser alignment tests.



APPLICATION(S): Machine Targeting



Phantom Highlights

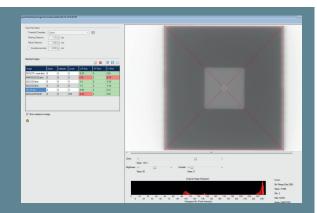
- Workflow Efficiency: Quick, simple Winston Lutz test and isocenter alignment tests for IGRT systems.
- ➤ **Simple Design:** Seamless 5 cm³ acrylic enclosure housing a 6 mm radio-opaque tungsten sphere at the isocenter.
- Image Match Verification: Offset alignment marks enable quick couch adjustment QA.
- TG142 Compliance: Perform required IGRT isocenter QA with 0.1 mm precision.

Software Highlights

- Intuitive Analysis: Import images for an automated report of directional errors vs selectable pass/fail criteria.
- Exposure Evaluation: Analyze EPID exposures with automated software including the verification of various beam shaping devices.

Accurate IGRT Setup in < 5 Minutes

Test end-to-end IGRT accuracy with **0.1 mm** precision in less than 5 minutes. Align the phantom at the offset position with room lasers and capture kV/MV exposures with EPID. Use the radio-opaque sphere at isocenter to apply couch translations and verify the alignment. Results used to determine targeting accuracy for SRS, SBRT, and IGRT treatments.



Winston-Lutz Wand

QUASAR™ Winston-Lutz Wand Phantom 500-5005



The QUASAR™ Winston-Lutz Wand Phantom Identifies the LINAC's true Isocenter. Precisely adjust all three axes using the XYZ micrometer assembly. Used in conjunction with the MV/KV Beam and portal imager, the QUASAR™ Winston-Lutz Wand is used to identify the true radiation isocenter of the linear accelerator with submillimeter accuracy.

COMPATIBLE MACHINE(S): LINAC, Ring-Gantry System, SRS Systems

APPLICATION(S): Machine Targeting

Phantom Highlights

- Accuracy and Precision: 7/16" (11.1125 mm) Steel BB embedded in acrylic wand with XYZ micrometer adjustment.
- Alignment Confidence: Achieve submillimeter agreement of radiological isocenter and room lasers.
- Compatible Design: Intuitive design enables MV and KV alignment for LINACs from all vendors.
- Value: Economical alternative to purchasing an additional SRS alignment package.
- The QUASAR™ Winston-Lutz Wand is the ideal tool to confirm a linear accelerator's true isocenter. It is quick and easy to set-up, and has micrometer adjustment for all three axes (x, y, and z planes). This facilitates the Alignment with the true isocenter and the sharp laser marks on the wand are clear and definitive.

- Peter A. Goyer, MS, DABR Lewistown Hospital

XYZ Micrometer Assembly

All 3 axes of the QUASAR™ Winston-Lutz Wand can be micro adjusted using built-in micrometers. This allows placing the wand precisely at the radiological isocenter. From this position users simply bring the lasers into alignment with the marks on the wand, thus tuning the lasers to the true radiation isocenter.



Notes	
	MODUS QA an IBA Dosimetry Company L
	an IBA Dosimetry Company

Notes	
	MODUEOA

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