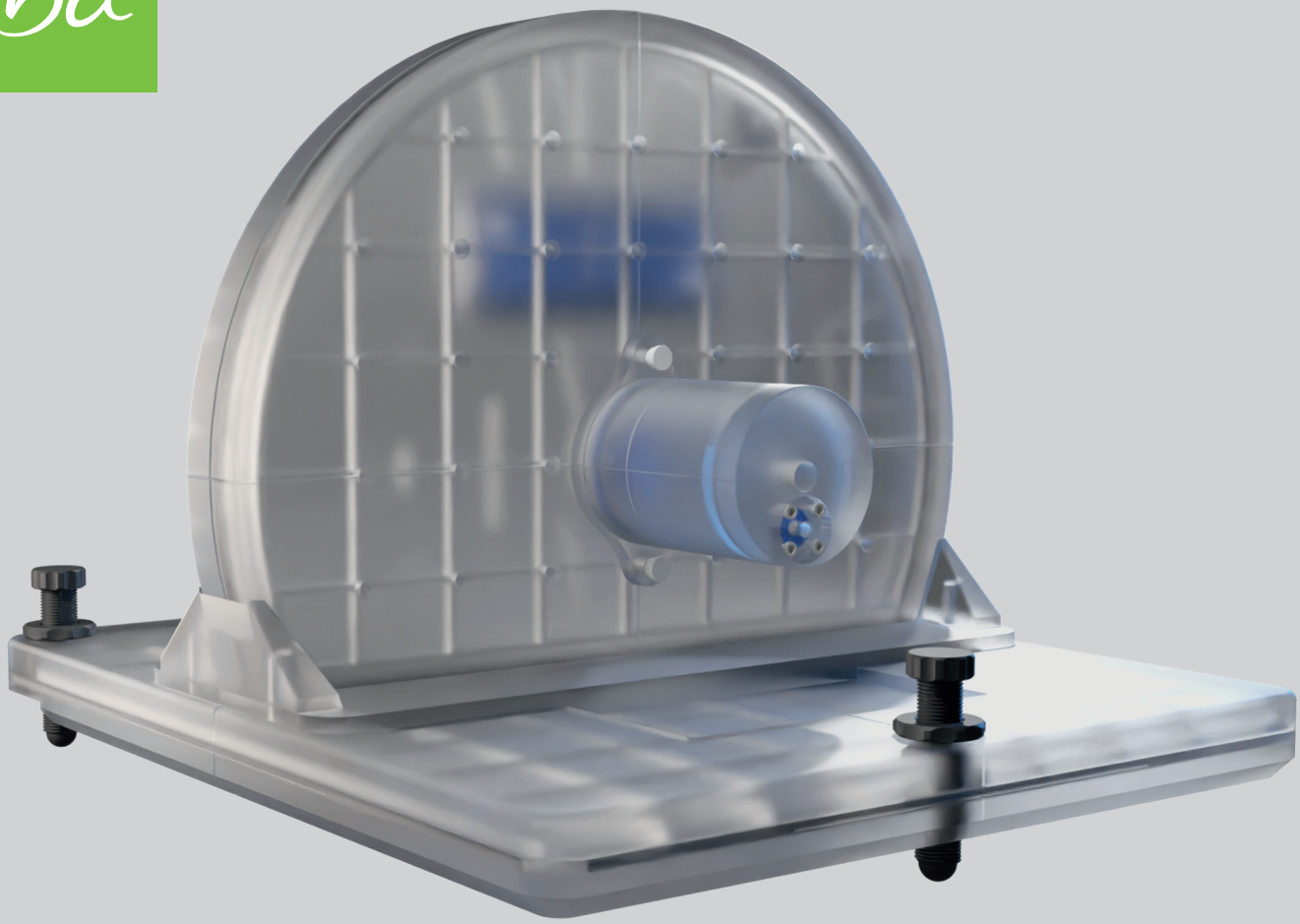


QUASAR

MRgRT Insight Phantom

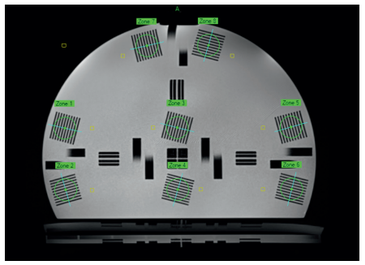
One phantom. One acquisition.
Complete insight into MR-guided radiotherapy performance.

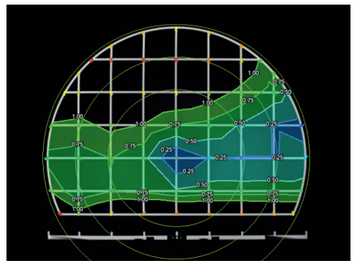
MRgRT Insight Phantom

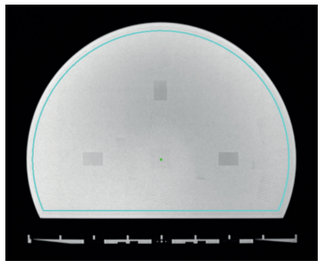
Key Features

The QUASAR®* MRgRT Insight Phantom is a comprehensive QA solution for MR-SIM and MR-Linac systems that combines geometric distortion, image quality, targeting, and end-to-end testing into a single platform. Its large field of view and automated analysis software enable efficient evaluation of MRI performance across the entire treatment volume. Designed to support MR-guided radiotherapy QA recommendations (AAPM TG284), it streamlines daily through annual QA workflows while reducing reliance on multiple ad-hoc, small FOV phantoms.

- Large FOV: 400mm imaging FOV enables efficient QA of entire treatment field without need for repeated repositioning or scanning
- Comprehensive: Perform a variety of targeting, geometric distortion, image quality, and E2E dosimetry tests for thorough MRgRT system QA
- Efficient: Complete all major daily or periodic QA with one acquisition
- Automated: Automated analysis of image quality metrics such as uniformity, spatial resolution, slice thickness, SNR, and geometric distortion.
- Intuitive: Pass/fail interface with customizable tolerances for quick triage of MR metrics







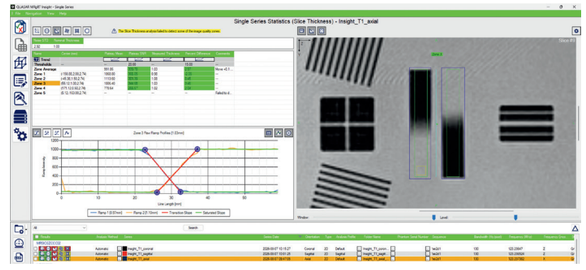
The intuitive design supports quick-scan Daily QA and more time-intensive periodic tests, including:

- laser and patient table positioning accuracy
- imaging/laser isocenter alignment
- MR/MV isocenter coincidence
- Spatial resolution
- Uniformity
- Large FOV B0 geometric distortion assessment in sagittal, coronal, and axial planes
- Phased-array coil SNR
- Ferrous content detection
- End-to-end dosimetry

Automated Image Analysis Software

The QUASAR MRgRT Insight software application is designed to match with the specific needs of MR medical physicists to optimize their routine QA.

MRgRT Insight software provides automated, quantitative evaluation of MR image quality and system performance, enabling efficient verification of imaging integrity, geometric accuracy, and workflow readiness from a single acquisition. Automated analysis of distortion, uniformity, B0 homogeneity, slice thickness, spatial resolution, ghosting, and phased-array SNR delivers objective performance metrics, while customizable pass/fail criteria facilitate rapid identification of clinically relevant deviations and support consistent routine QA.

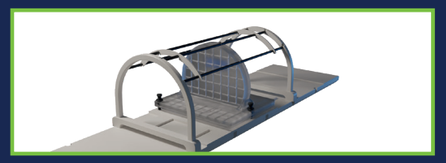


Insight Accessory Guide



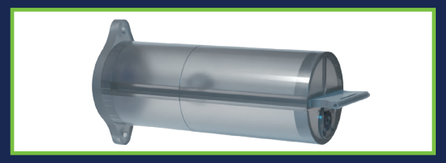
Indexing Accessory

The optional Indexing Fixture enhances alignment on MR-SIM and MR-Linac couches and attaches to a standard indexing bar. It provides indexed positions for two Insight phantom levelling feet. Not compatible with ViewRay MRIdian Posterior Phased-Array coils.



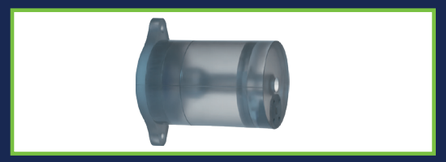
Phased Array Coil Bridge

The ViewRay MRIdian coil bridge supports the phased-array coils without stressing connectors and positions the anterior coil for optimal phantom imaging. Elevated end supports allow cable management.



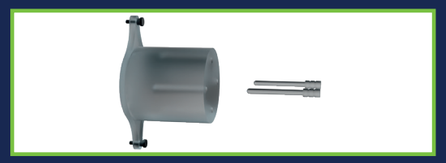
Film Cassette Insert

This film cassette holds a 70 × 175 mm EBT3 film sheet for targeting and dosimetry tests. The insert contains mineral oil for MR contrast, while a sealed compartment keeps the film dry. A 3 mm acrylic sphere at the film plane creates a negative MR target, and three piercing pins in the upper cover register film position.



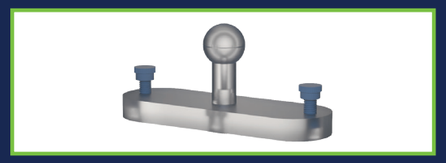
Single Ion Chamber Holder

Daily dosimetry output and end-to-end QA use an ion chamber insert placed at isocenter or offset positions. The mineral-oil-filled holder includes an acrylic sphere for a negative MR signal target, and is custom-drilled for your farmer-style ion chamber.



Dual Ion Chamber Holder

The Dual Ion Chamber Holder supports vertical or horizontal beam uniformity checks, with custom-drilled acrylic profiles for your IC model and blanks for unused spots. Note: It has no MR-visible contrast; positioning uses MR-imageable structures in the phantom's upright section.



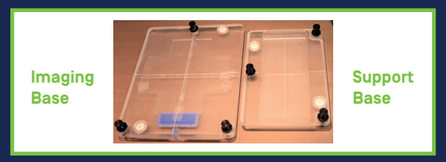
Laser Alignment Target

The 10 mm laser alignment target checks laser calibration to the DICOM isocenter when centered on the phantom. Offset tests use 50 mm A/P and R/L steps, with S/I shifts achieved by placing targets on opposite upright faces. Its mineral-oil fill provides MR-visible signal.



MR/MV Targets (3)

Three MR/MV targets, each a 10 mm zirconium oxide ball bearing in mineral oil, can be used for 3D MR/MV registration with multiple positioning options. They also support MLC positioning checks via EPID verification.



Imaging base

- Contains Imaging structures to perform image quality measurements in the coronal imaging plane.
- Provides Axial and Sagittal positioning and levelling of the upright.

Support base

- Does not contain imaging structures and is only used to support and level the Upright in an axial orientation.

MINIMUM TECHNICAL REQUIREMENTS

Operating System:	Windows 7 SP1 or higher
Processor:	Intel Core™ i7 or better
Hard Disk Space:	10 GB minimum [64-bit
RAM:	8 gigabyte [GB] or more
Screen Resolution:	1920 x 1080 pixels
Graphics Card:	Intel HD Integrated Graphics or Nvidia GeForce GTX 750 or betters

SPECIFICATIONS

Physical Dimensions:	■ Upright Plate: 426mm [r] x 58mm [d] ■ Base Plate: 510mm x 380mm
Imaging Dimensions:	■ Upright Plate: 400mm [r] x 18mm [d] ■ Base Plate: 400mm [RL] x 500mm [SI] x12mm [AP]
Height Adjustment Range:	38mm [base]
Mass:	7.4kg [upright], 9.1kg [base]
Phantom Material:	Acrylic
Contrast Media:	high T1 contrast Paraffinic Mineral Oil
	T1~=300ms @ 1.5T

PRODUCT INFORMATION

QUASAR MRgRT Insight Platform:	■ 1 - Software License ■ 1 - Phantom ■ 1 - User's Guide
Included Accessories:	■ Laser Alignment Target [500-3710]
Optional Accessories:	■ Indexing Accessory [500-3730] ■ Phased Array Coil Bridge [500-3750] ■ Film Cassette Insert [500-3705] ■ Single Ion Chamber Holder [500-3720] ■ MR/MV Targets - 3 Targets [500-3712]

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IBA Dosimetry
Bahnhofstrasse 5 | 90592 Schwarzenbruck, Germany
Independent & Integrated Quality Assurance
sales-therapy@iba-group.com | iba-dosimetry.com
@ibadosimetry