



QUASAR

IBA QUASAR™ Lineup Overview

At IBA QUASAR™, we are unwavering in the pursuit of absolute quality assurance because pinpoint precision means life-saving treatment.

Through meaningful innovation, flexible solutions and a customer-first approach, our focus on MR-Guided Radiation Therapy, Geometric Distortion, Motion Management, Surface-Guided Radiation Therapy (SGRT) and Machine Targeting allow us to deliver unparalleled accuracy with confidence beyond measure.

Trusted by world-class OEMs and thousands of medical physicists worldwide, our comprehensive and independent QA solutions protect, enhance and save lives.

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Modus Medical Devices



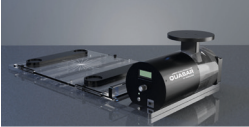
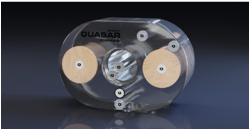

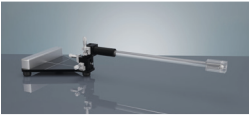
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APPLICABLE MACHINES TO IBA QUASAR™ PRODUCTS

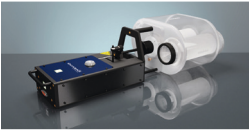
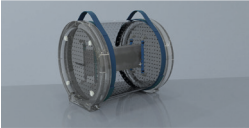
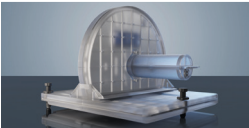
Type	Example Systems*	Suggested IBA QUASAR™ Phantom
Tomotherapy	Accuray Radixact/ TomoTherapy System	Penta-Guide, Platform HD + MP Body
CT-SIM	<ul style="list-style-type: none">_ Siemens Somatom_ Philips Brilliance_ GE Discovery RT CT Scanner_ Toshiba Large Bore	Penta-Guide, MP Body, pRESP, Platform HD
MR-SIM	<ul style="list-style-type: none">_ Philips Ingenia and Achieva_ Canon Vantage Galan, Orian_ Siemens Aera, Skyra, Prisma, Sola, Verio_ GE Signa	MRID ^{3D} , MRI ^{4D} , MRgRT Insight, GRID ^{3D}
Gamma Knife	<ul style="list-style-type: none">_ Elekta Leksell Gamma Knife Perfexion & Icon	GRID ^{3D} Note: phantom is not compatible with the Vantage headframe
Conventional LINAC	<ul style="list-style-type: none">_ Varian TrueBeam, Halcyon, Ethos, Edge_ Elekta Versa HD, Infinite, Harmony	Penta-Guide & Tilt-plate (if includes 6DoF couch), pRESP, Platform HD, MP Body, Winston-Lutz Wand, Isocentre Cube
MR-LINAC	<ul style="list-style-type: none">_ Elekta Unity_ ViewRay MRIdian	MRID ^{3D} , MRI ^{4D} , MRgRT Insight
PET/CT	Reflexion	Penta-Guide, pRESP, MRI ^{4D} , Platform HD

*Modus QA phantoms are also compatible with several other vendor systems not listed in the table above. Please contact your regional representative for questions regarding specific systems' compatibility.

Conventional LINAC

Phantom	Area of Utility	How does it fit	
Penta-Guide	Machine Targeting	Physicists perform Daily QA and image quality performance metrics, main testing capabilities include: laser alignment, 6DoF Couch correction QA (with tilt-plate), 2D/3D image matching, isocenter coincidence,	
pRESP (Programmable Respiratory Motion Phantom)	Machine Targeting Motion Management & SGRT (compatible with PET/CT)	It is suggested that cancer centers have motion management protocols in place to ensure they're performing accurate radiation treatments. Motion QA phantoms are used to commission systems, check CT imaging accuracy, facilitate point or 2D dosimetry measurements, simulate tumor motion; all of which allows physicists to check their TP and delivery protocols. pRESP – simulates tumor motion within a body oval Platform HD – applies motion to large-scale phantoms	 
Platform HD (Heavy Duty Respiratory Motion Platform)	Machine Targeting Motion Management & SGRT (compatible with PET/CT)		
MP Body (Multi-Purpose Body Phantom)	Machine Targeting Motion Management & SGRT (compatible with PET/CT)*	Physicists can use the Multi-Purpose Body Phantom as a versatile tool to perform end-to-end QA on simulation, treatment planning and treatment delivery systems for emerging markets. * Utility is accessible with addition of QUASAR™ Respiratory Motion Assembly or Platform HD	
Isocenter Cube	Machine Targeting	A cost-effective phantom to perform Winston-Lutz tests in order to validate the LINAC's isocenter accuracy	
Winston-Lutz Wand	Machine Targeting	A precise wand designed for true Winston-Lutz tests. Each axis can be precisely adjusted to the submillimeter to verify the true radiation isocenter of the LINAC.	

MR-LINAC

Phantom	Area of Utility	How does it fit	
MRI^{4D}	Motion Management & SGRT (compatible with MR/CT/PET) MR Guided Radiation Therapy Machine Targeting	The MRI ^{4D} is the world's first 100 % MR-safe programmable motion phantom used to test motion management protocols on: MR-LINACs (ViewRay & Elekta), MR-SIMs, and PET/CT. Used to commission MR or MR-LINAC systems, facilitate dosimetric measurements, simulate tumor motion; all of which allows physicists to check their planning and delivery protocols. ViewRay-specific: evaluate total system gating latency	
MRID^{3D}	MR Guided Radiation Therapy Geometric Distortion	Geometric distortion is an undesirable image artifact that affects the accuracy of MR-guided RT. The MRID ^{3D} automatically quantifies geometric distortion for large field-of-view MRI systems, allowing physicists to adjust system parameters to minimize GD.	
MRgRT Insight	MR Guided Radiation Therapy Geometric Distortion Machine Targeting	A comprehensive all-in-one image quality phantom designed for end-to-end QA on any MR-LINAC and MR-SIM. Used for time-saving automated Daily or Periodic tests including: uniformity, spatial resolution, GD, laser & table positioning accuracy, slice thickness.	
Phantom	Area of Utility	How does it fit	
GRID^{3D}	Geometric Distortion	The GRID ^{3D} is designed to evaluate both MR and CT geometric distortion on Elekta Leksell Gamma Knife systems – PERFEXION and ICON. Use to assess the system's spatial accuracy for SRS, and optimize imaging sequences on planning systems.	