

Catphan® Shaker

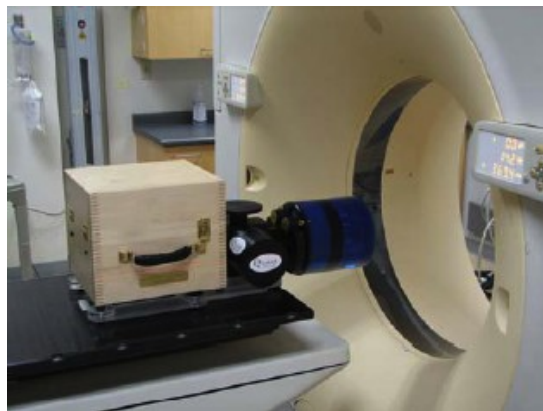
Add Motion to 3D CT Image QA

The QUASAR™ Catphan® Shaker is designed to enable 4D CT image quality assurance by moving a Catphan® phantom with sinusoidal and programmable respiratory motion profiles.



The Catphan® phantoms are the industry standard for 3D CT image quality assurance. They are used for comprehensive performance evaluation of axial, spiral and multislice CT scanners. Adding motion to a Catphan® phantom allows testing and measurement of image quality at each reconstructed phase of a 4D CT cycle.

The Shaker moves a Catphan® phantom in the superior/inferior direction with programmable motion and amplitude up to 30 mm. Sinusoidal motion is also available with variable speed from 4 to 60 breaths per minute at a fixed 40 mm amplitude.



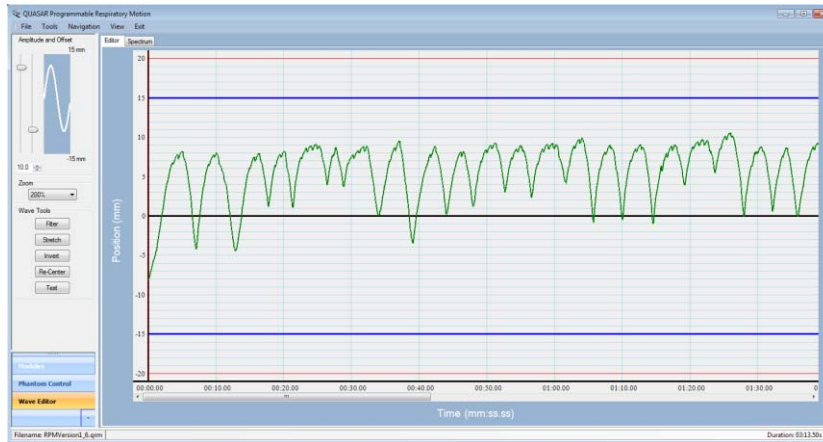
In addition, the Shaker has a chest wall platform moving in the anterior/posterior direction. This platform is compatible with motion tracking systems from multiple vendors.

Key Features

- Enables testing and measurement of image quality at each reconstructed phase of a 4D CT cycle
- Moves the Catphan® with programmable respiratory and sinusoidal motion profiles
- Compatible with motion tracking systems from multiple vendors
- Run and control the phantom directly from your desktop or laptop computer
- Communicate with the phantom through local area network (LAN)

Respiratory Motion Software

The Shaker comes with the QUASAR Respiratory Motion Software Application that allows you to display, edit, and run motion waveforms. Waveforms are created in the application or imported from respiratory tracking systems from multiple vendors, including the Varian RPM system, or from tab delimited spreadsheet files. Edit functions include cut, copy and paste, adjusting the amplitude, stretching or compressing the timeline, and filtering out noise, drift and cardiac signals. The Software Application is compatible with Windows XP, Vista, and 7, and runs on desktop or laptop computers.



Ordering Information

100-1014 QUASAR
Catphan® Shaker

The Quality Assurance System for Advanced Radiotherapy (QUASAR™) supports the testing of a wide variety of dosimetric and nondosimetric functions of planning systems, CT simulators and delivery systems.

QUASAR is a valuable part of any quality assurance program. From respiratory motion and MLC beam geometry to daily on-board imaging QA, QUASAR phantoms and software are ready to be incorporated into your QA protocols for regularly scheduled testing. They are also effective for commissioning new systems and upgrades, and testing repairs.

Designed by and for medical physicists, QUASAR quality assurance tools provide you with confidence that every patient is getting the best possible treatment.

The QUASAR™ Catphan® Shaker is just one of the many quality assurance tools available from Modus Medical Devices Inc. To find out more, please contact Modus.

Catphan® is a registered trademark of The Phantom Laboratory.

Modus reserves the right to make changes without notice. Product may not be exactly as shown.

July, 2010