Above: Phantom Control Module

Interchangeable inserts are available for multiple testing applications including film and ion chamber dosimetry. Inserts can be rotated as they are translated to provide a more complex 3D path.

Motion profiles are programmable and operate in the superior / inferior direction. A chest wall platform is provided which is compatible with motion tracking systems from several different vendors.

PATIENT-SPECIFIC SOFTWARE
Included with the phantom assembly is the QUASAR™ Respiratory Motion QA Software application which allows you to import, create, edit and save respiratory waveforms. Easily import patient-specific waveforms from a number of respiratory gating machines including Varian Real-time Position Management™ (RPM), Anzai, Cyberknife, Philips, Respisen, and Siemens. Quickly create custom waveforms or import unique waveforms produced using tab delimited spreadsheet files.

Above: Phantom Control Module
Conveniently edit waveforms using a wide range of functions include adjusting the amplitude, stretching or compressing the timeline and filtering out high frequency noise, low frequency drift and cardiac signals.

MODES OF OPERATION

- **Oscillation**: Programmable Motion profiles under software control
- **Rotation**: Sinusoidal Motion profiles under software or local control
- **Position**: Translation Stage position is under software or local control

PRODUCT SPECIFICATIONS

- 5 kg Acrylic Fixed Sleeve (15 cm dia x 25 cm long)
- 4 kg Acrylic Motion Sleeve (10 cm dia x 30 cm long)
- 1 kg Acrylic Gafchromic Film Cassette (10 cm wide x 25 cm long)
- Acrylic Ion Chamber Holder (adjust positions in 1.0 mm increments over 10 cm span)
- 1.0 cm Vertical Motion Chest Wall Platform (carries up to 250 g)
- Power Supply: Input, 100–240VAC, 47–63 Hz, International power cords available on request. Output: 24VDC, 2.1 A, 50 W.

MINIMUM TECHNICAL REQUIREMENTS

- **Operating System**: Windows 7 SP1, 8.1 or 10
- **Ports**: 1 Ethernet

**INTERCHANGEABLE INSERTS**

Modus offers a series of acrylic and cedar (lung density) inserts for ion chamber and film (Gafchromic) dosimetry. Options are available for MOSFETs, nanoDot™, gel dosimeters and other radiation detectors. Cedar inserts with polystyrene tumour targets are split for film or drilled for ion chambers.

ORDERING INFORMATION

100-1021  QUASAR™ Cylindrical Respiratory Motion Phantom
- 1-Phantom Assembly
- 1-Software License
- 1-10 cm Motion Sleeve
- Fittings for Chamber and Film Dosimetry
- 1-Heavy Duty Case

OPTIONAL ACCESSORIES

- 10 cm Diameter Dosimetry Inserts
- 8 cm Diameter Adapter for smaller Dosimetry Inserts

©2019 Modus Medical Devices Inc. All Rights Reserved. Specifications subject to change without notice. Modus QA is not responsible for errors or omissions.

This product manufactured under license from CIRS, Inc., Norfolk, Virginia, US Pat. 7151253. PDS#100-1021, REV#02/06