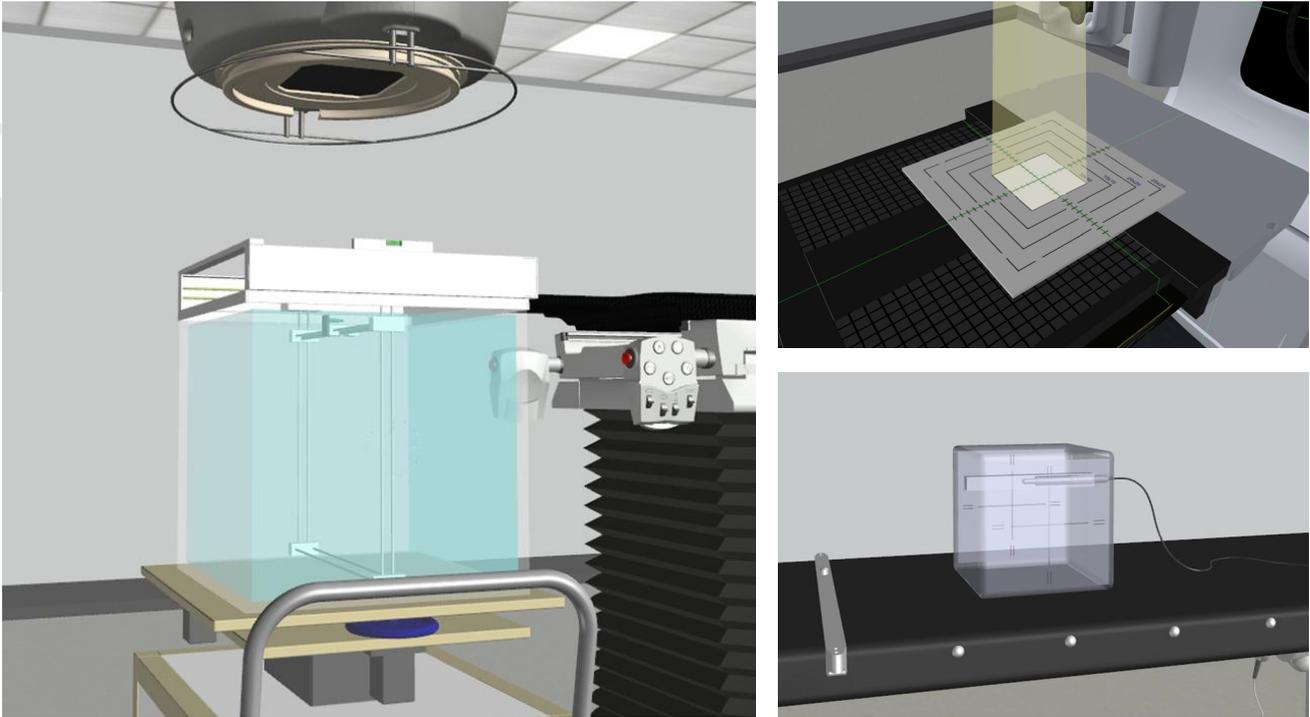


# VERT™ Physics

Extends the capabilities of VERT™ to provide a comprehensive package for teaching physics and quality assurance principles, procedures and equipment



*The virtual plotting tank, one of the 5 components of the VERT™ Physics Module*

## VERT™ Physics at a glance

- VERT™ Physics extends the training capabilities of VERT™ to provide a comprehensive approach to teach physics and quality assurance principles, procedures and typical equipment
- An effective, versatile and engaging simulation package of physics equipment and educational content to enhance student learning
- Quality assurance models include a plotting tank, QA plate, calibration tank, ion chamber phantom and laser alignment
- Demonstrate real world procedures and equipment
- Teach away from the busy Linac initially, make the actual time on the Linac count
- Introduce simulated errors and see their effect on measurements, without presenting risk to equipment
- Compatible with the Apple iPad™ for portability and ease of use

Detailed and faithful representation of real world equipment and processes.  
Interactively set up realistic measurement equipment in the treatment room.

## Features of the VERT™ Physics Module include:

### PLOTTING TANK

Fully functional plotting tank, with the ability to take realistic measurements

Includes animation of the measurement process (moving probe)

Tank position can be adjusted

Simulated spirit levels and lasers clearly illustrate incorrect alignment

Measure depth dose profiles and produce a graph

Measure and graph cross-sectional profiles of the treatment beam for a range of different field sizes

Overlay multiple graphs for comparison

### QA PLATE

Light and radiation field coincidence

Glow where irradiated

Demonstrate beam divergence, using a calibrated plate

### CALIBRATION PHANTOM

Ion chamber can be placed within a phantom and used to measure dose output of the virtual linac

Ion chamber depth can be altered within the phantom

Field size and distance can be changed interactively

Select energy: 6MV and 15MV

### CALIBRATION TANK

Comparison and calibration against a standard chamber

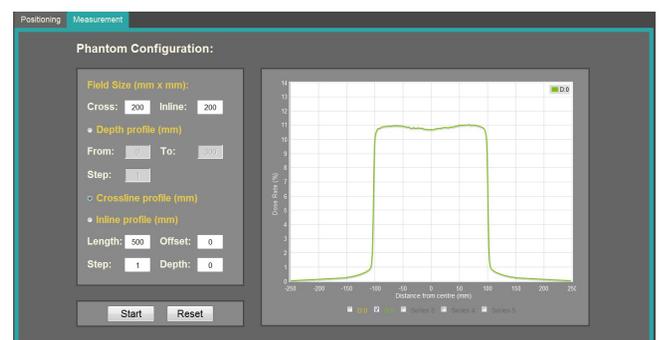
Temperature and pressure compensation

### LASER ALIGNMENT

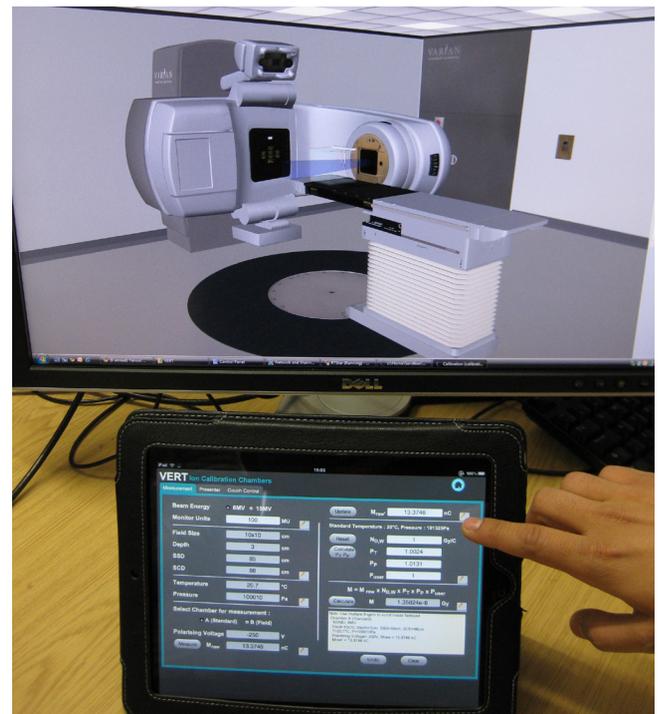
Simulate laser mis-alignment

### PRESENTER CONTROLS

Compatible with Apple iPad™ for portability and ease of use



Simulated measurements with the plotting tank



Ion chamber model showing Apple iPad™ controls of measurement and calibration parameters

To request a quotation email [sales@vertual.co.uk](mailto:sales@vertual.co.uk)  
For a demo email [webex@vertual.co.uk](mailto:webex@vertual.co.uk) or call +44 (0) 1482 347572