

„The new Blue Phantom<sup>2</sup> is the next generation high-precision position accuracy water phantom from IBA, designed for use in contemporary Radiotherapy.

In combination with the new software version of OmniPro-Accept (V 7.1), this system has been used for commissioning the stereotactic treatment machines in our institution (e.g. Varian Novalis Tx, high dose rate 6 MV SRS mode), and to perform small field dosimetry. With its easy-to-use hardware, new hand pendant and totally redesigned controller, the Blue Phantom<sup>2</sup> significantly speeds up the set-up procedure of the water phantom, still ensuring most accurate and reliable measurement results.

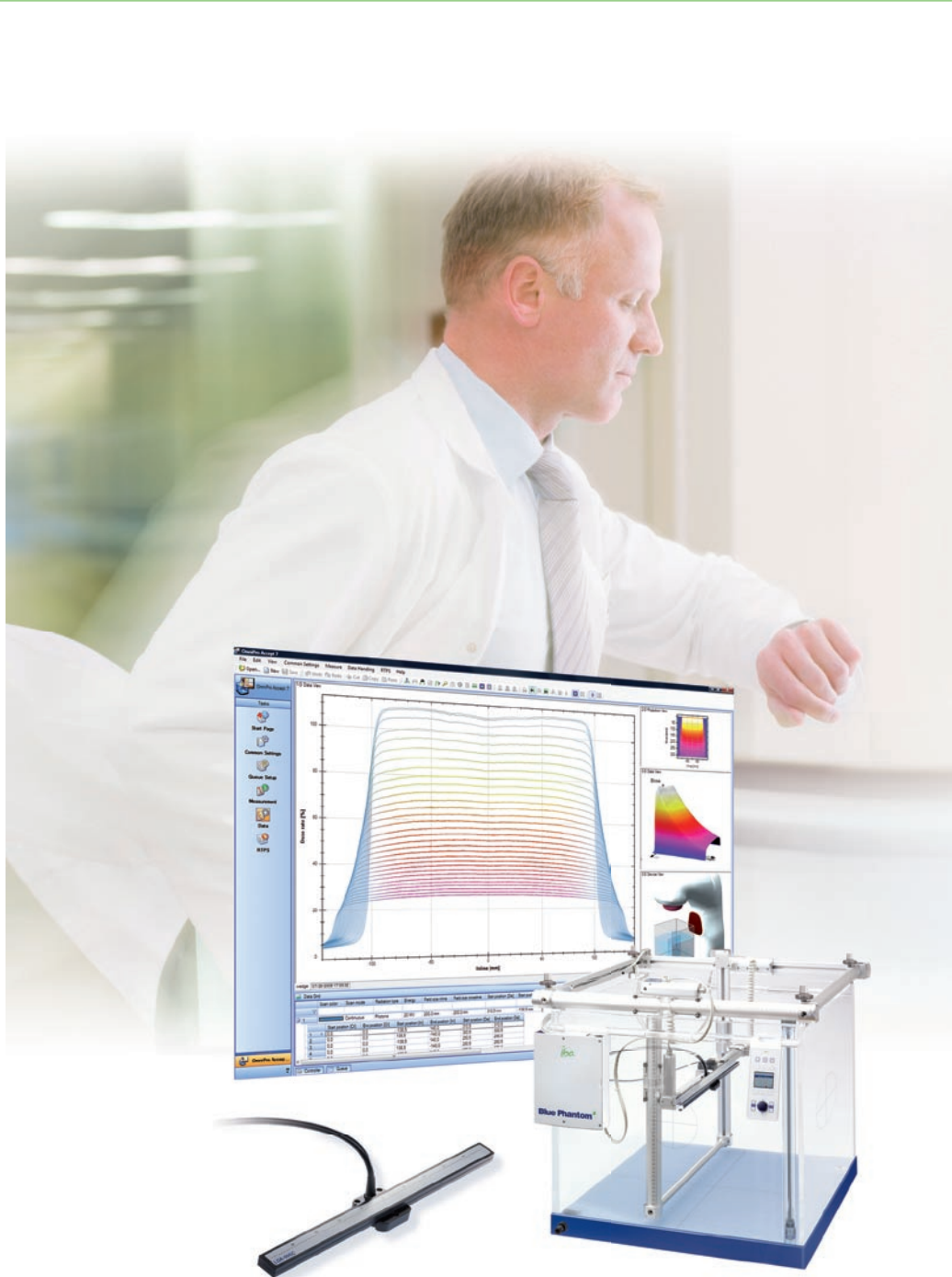
The possibility to combine various detectors as field detector and reference detector increases flexibility, the new region definition in depth dose and profile measurements is very useful and enhances accuracy. The workflow oriented software offers a high number of setting options that enables users to optimize their measurements, permitting them to execute a wide range of functionalities from simple one-step scans to highly advanced queue measurements that may require some training.

As soon as the Blue Phantom<sup>2</sup> system supports LDA-99 SC, dynamic treatments such as dynamic wedge or virtual wedge, and even IMRT fields can be measured in a noticeable shorter time frame compared to single detector use.

As we have successfully applied most features of the new Blue Phantom<sup>2</sup> and OmniPro-Accept V 7.1 system and we are satisfied with this new concept we will continue using IBA Dosimetry's water phantom equipment in our Radiotherapy department.“



Leo van Battum, B.Sc.  
Medical Physicist  
Department of Physics and  
Medical Technology



**Fastest.** most **Accurate.** most **Reliable.**

„I knew I had something special when I started using my new "Blue Phantom". The main things I look for in a scanning system are positional accuracy, reproducibility, and stability. The folks at IBA Dosimetry definitely got it right with this one. The typical potentiometers and stepper-motors of other systems are replaced with magnetostrictive sensors. This ingenious piece of engineering provides 0.1 mm accuracy, +/- 0.1 mm reproducibility, and unsurpassed long-term stability.

Magnetostriction is a fascinating topic. A current pulse is sent out as a wave inside a ferromagnetic bar. Magnetostriction is reflecting this wave back from the detector location to the sensor system. By measuring the time for the wave travel to occur, the location of the detector is determined. The high inherent stability of the ferromagnetic materials results in a high inherent stability of the entire process. There is no contact between the magnet and the sensor bar which results in a frictionless positional monitoring system little affected by external motions and vibrations.

Over 20+ years, I've used many systems from many vendors. This is by far the best!"



Scott R. Conley, MS, DABR  
CarolinaEast Health System  
New Bern, North Carolina  
USA



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„I have been using IBA Dosimetry equipment in my RT center for the past 6 years. The innovations of the new Blue Phantom<sup>2</sup> and the related acceptance software OmniPro-Accept are definitely cutting edge. With my new equipment I have full trust in the reliability of my measurements.

Particularly I was really pleased and impressed with the new Blue Phantom<sup>2</sup>'s electrometer CCU. My Linac commissioning measurements were absolutely stable and reliable.

In addition, the detector positioning motors and new frictionless sensor technology were accurate to within 0.1 mm, giving me the confidence to center and measure stereotactic dose profiles as small as 0.5 cm x 0.5 cm.“

Joe Presser  
Director of Physics of the Radiation Oncology Department  
Long Island Gamma Knife<sup>®</sup> Center and New York Prostate Institute



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