Proton and X-ray Digital Camera Phantoms

3D and 2D Beam Metrology - Logos Systems International

Fast and Accurate End-to-End Quality Assurance

FOR IMMEDIATE RELEASE

New Proton Camera from Logos Systems Int'l Provides Fast Beam QA over Entire Treatment Area

Scotts Valley, CA – June 30, 2016 – Logos Systems Int'l, a pioneer in beam metrology, announced the release of the XRV-4000 proton camera, their newest scintillator-based phantom.

The XRV-4000 captures individual beam spots and Pencil Beam Scanning (PBS) energy layer patterns over a 42 x 32 cm area.

"The results are delivered in real-time," said Brett Nelson, President and Director of Engineering at Logos Systems, "and the effective resolution is 0.3 mm."

Large proton treatment areas can cover as much as 40 x 30 cm. Smaller testing equipment must be manually shifted from place to place to measure the complete area.

"Physicists were asking us for a QA tool with a surface that was large enough to capture beam fluence data over the entire treatment area in just one pass," said Nelson. "The XRV-4000 meets that need, and significantly speeds up the testing process."

The phantom is placed on the patient couch, aligned using its built-in fiducials, then immediately analyzes the incoming beams as the test treatment plan is administered.

Beams from any gantry angle can be captured with the optional mounting disks and cradle. The LCW-200 wedge accessory allows quick Bragg Peak penetration depth measurements.

"With its ideal size, remarkable precision, and unsurpassed speed, the XRV-4000 is designed for facilities that have the highest standards of excellence," Nelson said.

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About Logos Systems Int'l

Logos Systems Int'l, based in Scotts Valley, California, specializes in developing and manufacturing proton and x-ray beam calibration systems using its innovative scintillator technology. Their products deliver results in real-time and without film, providing the benefits of high speed and low cost. With its heritage in Silicon Valley, it is known worldwide as a leader in computer vision and precision metrology.

For more information, visit www.logosvisonsystem.com, or email info@logosvisionsystem.com

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