



Logos Systems Int'l

Press Release

LOGOS SYSTEMS INTRODUCES XRV-2020 BEAM METROLOGY SYSTEM

Scotts Valley, CA – July 5, 2012 -- Logos Systems Int'l, the developer of x-ray camera radiosurgery imaging solutions, today announced the release of its new XRV-2020 Beam Metrology System for Image-Guided Radiation Therapy (IGRT) quality assurance.

The XRV-2020 measures the XY location and profile of x-ray or proton radiation beams in real-time with unmatched speed and accuracy. Beams up to 10x10 cm in size may be directed at the camera from user configurable orientations.

Quality assurance is essential for stereotactic radiosurgery systems such as the Accuray Cyberknife™ or the Varian TrueBeam™ that must deliver precisely dosed amounts of radiation to targeted regions in 3D space.

The unit is placed directly on the treatment couch as a patient head phantom. It contains fiducials that are used by the IGRT system for beam direction control while administering the treatment plan.

Collimator, robot gantry, and linear accelerator performance measurements are all done simultaneously during a facility's morning Winston-Lutz QA, resulting in a savings of time and film costs.

"The XRV-2020 combines precision metrology with high-energy radiation detection to form a completely electronic alternative to film-based measurements," said Brett Nelson, Managing Director of Logos Systems.

Beam diameter measurements are accurate to .1 mm. The position of beam spot centroids are accurate to .2 mm with measurement repeatability typically being .02 mm. Beam viewing software enables real-time any-angle viewing of the captured profile data.

"Because the XRV-2020 decreases film and personnel costs of daily beam QA, while increasing system uptime," he said, "many busy clinics can see a return on investment in under 20 months."

About Logos Systems Int'l

Logos Systems Int'l, based in Scotts Valley, California, provides advanced machine vision and electronic imaging customized hardware and software solutions for companies worldwide. Logos specializes in developing and manufacturing x-ray and proton beam calibration systems using its innovative scintillator technology. www.logosvisionsystem.com

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