

## **PRESS RELEASE**

### **LOGOS SYSTEMS INTRODUCES NEW BEAMWORKS SOFTWARE**

**Scotts Valley, CA -- March 8, 2011 --** Logos Systems Int'l today announced the release of its new BeamWorks software for its X-ray Beam Metrology System for quality assurance in Image-Guided Radiation Therapy (IGRT) systems.

The XRV-100 system complements the use of film-based phantoms by performing end-to-end 3D measurements with superior precision and speed. The XRV-100 measures beam placement and vector accuracy, flatness, symmetry, field size, and divergence in real-time.

The new BeamWorks software provides a user-friendly 3D graphical interface that displays the captured beam shape data and vectors. Beam measurements can also be output in a spreadsheet format for integration into reports or treatment planning systems.

American Association of Physicists in Medicine (AAPM) Task Group 142 recommends a complete end-to-end test of both imaging guidance and therapy radiation on a daily basis to ensure that patients are being given a maximum therapeutic dose at the tumor and that nearby organs at risk are not being damaged in the process.

Traditional end-to-end testing done with film is time consuming. Sheets of X-ray film must be mounted within phantoms, and then exposed to the beam. Subsequent handling and measurement of the exposed film using scanners is subject to human error. In addition, the area of the treatment beam is typically not measured directly, but inferred by assuming that the beam penumbra is symmetrical. Testing is usually done at intervals of a week or more.

The XRV-100 system can be used daily, during the intervals between the testing done by film.

For its real-time QA testing, the XRV-100 uses a cone shaped scintillator that converts the X-ray beam into two visible spots of light. These spots are precisely measured using a sensitive digital camera, the controlling PC, and the BeamWorks software.

“Filmless end-to-end stereotactic treatment quality assurance is now a reality,” said Brett Nelson, Managing Director of Logos Systems. “XRV technology provides the capability to fine tune and precisely align radiation sources in real-time before, after, and even during treatment sessions.”

#### **About Logos Systems Int'l**

Logos Systems Int'l is a privately owned company headquartered in Scotts Valley, California. Logos provides advanced machine vision and electronic imaging customized hardware and software solutions for companies worldwide. For more information, please visit [www.logosvisionsystem.com](http://www.logosvisionsystem.com).

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