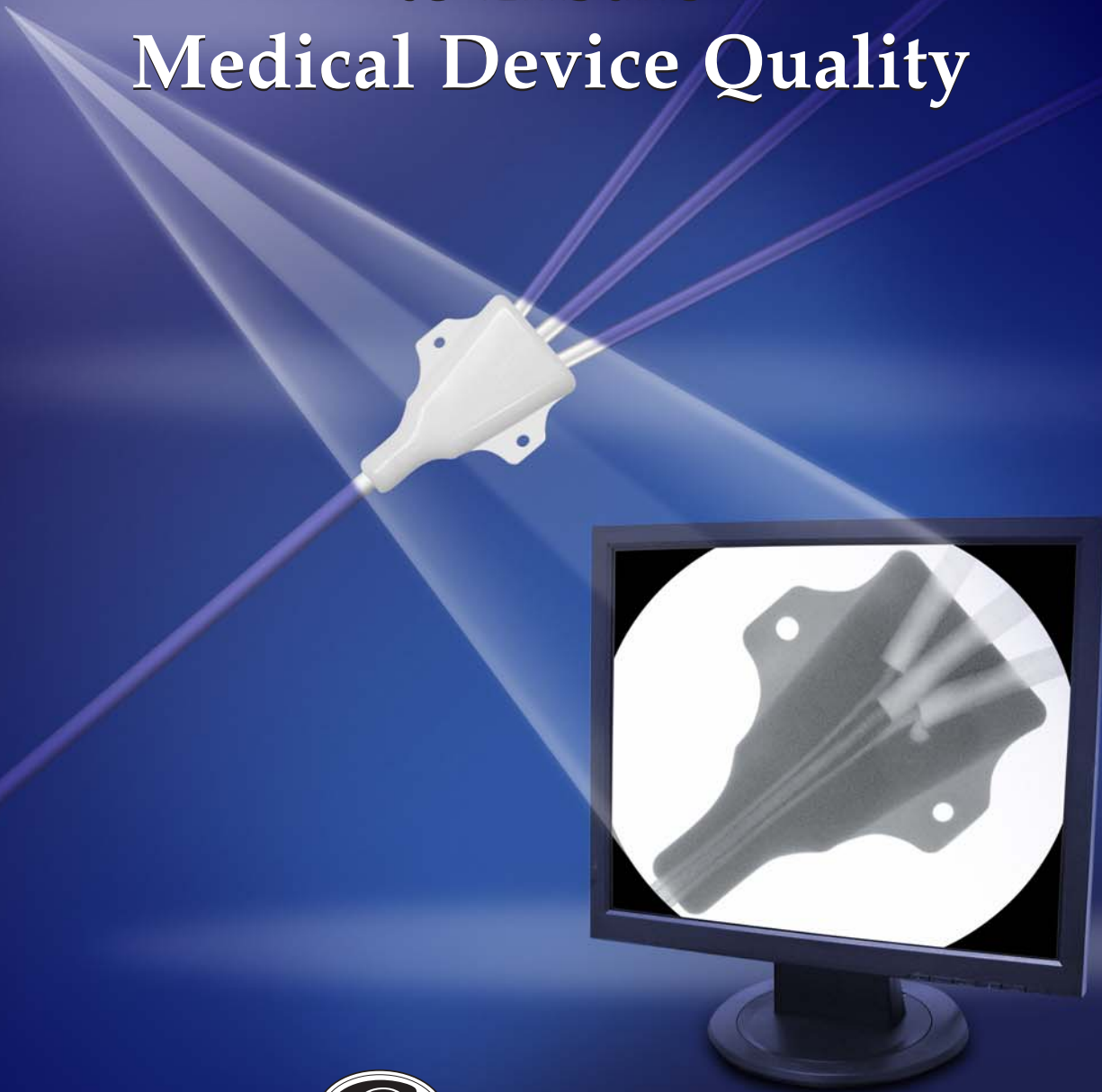


MedaScope™

**X-ray Microscope Technology
to Ensure
Medical Device Quality**



**Glenbrook
Technologies Inc.**
X-RAY TECHNOLOGY LIKE NO OTHER

MedaScope™

REAL-TIME X-RAY MICROSCOPE TECHNOLOGY

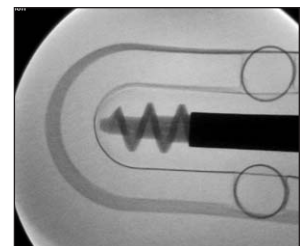
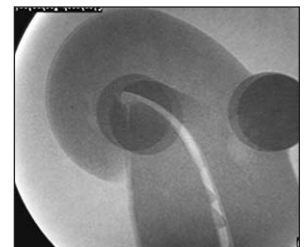
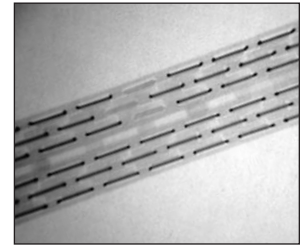
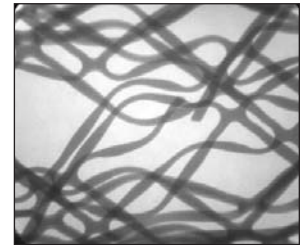
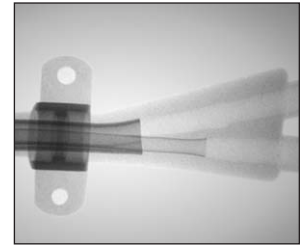
For the first time, Glenbrook's patented x-ray microscope inspection technology combines both the high resolution and the high sensitivity required to image, in real-time, low density materials used in medical devices. Materials as polymers, rubbers and ceramics. With MedaScope technology, users can perform x-ray inspection at 10 times or more the resolution of conventional systems and, at the same time, magnify a particular area of an object up to 20 times.



The MedaScope X-Ray Camera

The core of Glenbrook's advanced x-ray microscope technology is a patented x-ray image detector with unparalleled resolution and sensitivity, capable of producing magnified real-time x-ray images of unequalled detail.

The broad x-ray sensitivity of the camera permits imaging of low-density polymers as well as high-density metals.



MedaScope™

REAL-TIME X-RAY INSPECTION SYSTEMS



The MedaScope Medical Device X-ray Scanner

Developed for the Medical Device Industry, the MedaScope is the most sensitive real-time x-ray inspection system in the world, yet is powerful enough to inspect even metal devices. The MedaScope is equipped with an X/Y motorized positioner.

The MedaScope Desktop

Glenbrook's MedaScope Desktop is a portable, compact manual system for real-time, magnified x-ray screening of single medical devices. Weighing only 55 pounds and requiring virtually no user training, the MedaScope Desktop is easy to carry and can be set up rapidly.



The Jewel Box 70-T High Magnification X-ray Inspection System

The Jewel Box 70-T provides high resolution and high sensitivity with magnification up to 500X for x-ray inspection of Critical Medical Devices. This laboratory instrument features a five-axis positioner for x-ray imaging of the device from any angle.

MedaScope™

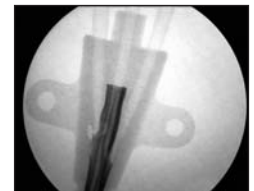
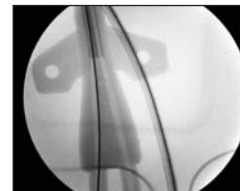
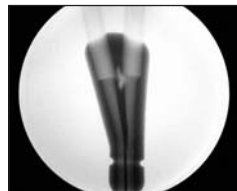
MEDICAL DEVICE X-RAY SCANNER

Developed for medical device manufacturers, the MedaScope Medical Device X-Ray Scanner is the most sensitive real-time x-ray inspection system in the world. The MedaScope Scanner is equipped with an X/Y motorized positioner.



SPECIFICATIONS

Nominal dimensions	60" W x 33" D x 50" H (can be customized)
X-Y positioner scan travel	18.5" x 8.3"
Imaging field of view	50 mm
Magnification	4 to 20 times, continuous zoom
Operating voltage	110 or 220 VAC, 50-60 Hz
Anode voltage	variable up to 70 kV
Anode current	variable up to 100 microamps
Image resolution	With no geometric magnification, 14 line-pairs per millimeter. Can resolve a 0.001 inch wire.
Image processor	GTI-1000 available with standard CPU or Notebook Computer. Images can be enhanced, stored to memory and sent by e-mail.



Glenbrook Technologies, Inc.
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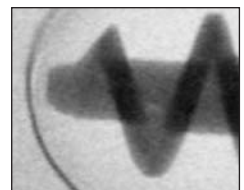
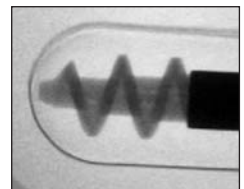
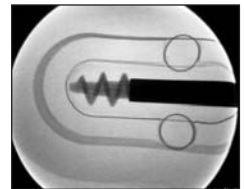
MedaScope™ Desktop



Glenbrook's MedaScope Desktop is a portable, compact manual system for real-time, magnified x-ray screening of single medical devices. Weighing only 55 pounds, the MedaScope Desktop is easy to carry and can be set up rapidly.

SPECIFICATIONS

Operating voltage	100 to 220 VAC, 50 Hz, 60 Hz
Anode voltage	Variable up to 50 kV
Anode current	30 microamps
Field of view	50 mm
Magnification range	4 to 20 times (continuously variable)
Resolution	14 line-pairs per millimeter
Image processor	GTI-1000 supplied with standard computer and monitor, or notebook computer
Approximate dimensions	20" H x 8.5" W x 18.5" D
Weight of x-ray unit	55 lbs



*Continuously variable
magnification from
4X to 20X*



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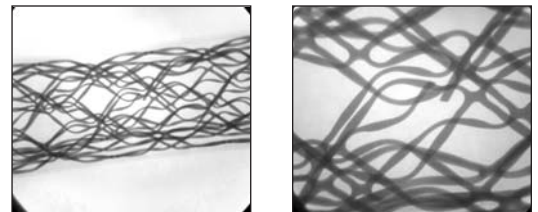
JEWEL BOX 70-T HIGH MAGNIFICATION X-RAY INSPECTION SYSTEM



The Jewel-Box 70-T with patented X-ray Microscope Technology is the high magnification x-ray inspection instrument for the quality assurance of critical medical devices, including those made of materials such as silicon, rubber, polymers, collagen as well as steel, platinum and titanium. This technology is unique in its ability to image at a very broad range of voltages including those required to inspect low density materials.

SPECIFICATIONS

Operating voltage	120 to 220 VAC, 50 - 60 Hz
Anode voltage	variable up to 70 kV
Anode current	variable up to 100 microamps
Field of view	50 mm
Magnification range	4 to 500 times (continuously variable)
Resolution	100 line-pairs per millimeter
Image processor	GTI-1000 supplied with standard computer and monitor, or notebook computer
Approximate dimensions	69" H x 32" W x 33" D
Shipping weight	1200 lbs



*Continuously variable magnification
from 4X to 500X*



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Glenbrook Technologies

A tradition of X-ray innovation

Glenbrook Technologies, Inc. was founded in 1983 to answer the needs of the electronics industry for real-time X-ray systems to inspect printed circuit boards, components and assemblies. In the 1990s, our expertise led us to develop X-ray inspection systems for medical device fabrication and packaging as well as for mail security.

Our in-depth knowledge of X-ray imaging technology has led us to develop many innovations in real-time X-ray technology covered by numerous basic patents. Today, customers in 40 countries realize the benefits of Glenbrook's superior X-ray imaging technology.



Glenbrook's Advanced Technology Center, opened in 1998, includes the company's world headquarters, manufacturing facilities and applications laboratory. Here we pursue our ongoing commitment to advancing X-ray inspection technology through continuing research and regularly scheduled application seminars.



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