

SmartSP07[®]

High-Resolution Digital Photospot System



CMT



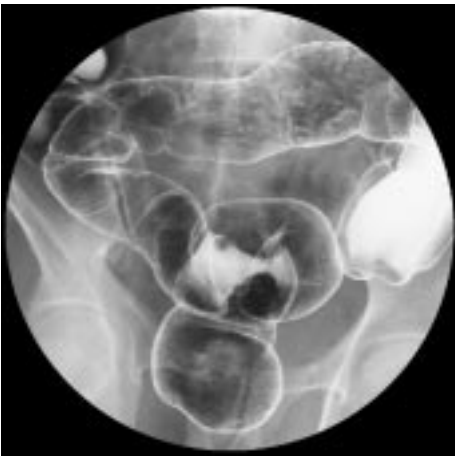
SmartSPOT

The next generation in digital imaging

Setting new standards in digital imaging, the SmartSPOT is the most advanced digital photospot system with R&F and general angiography capabilities. The synergy of state-of-the-art data acquisition and image processing technology ensures consistently high image quality and lower patient and operator doses. Designed in close consultation with the medical profession, the SmartSPOT delivers optimum results in ERCP, Urology, GI and angiography examinations.

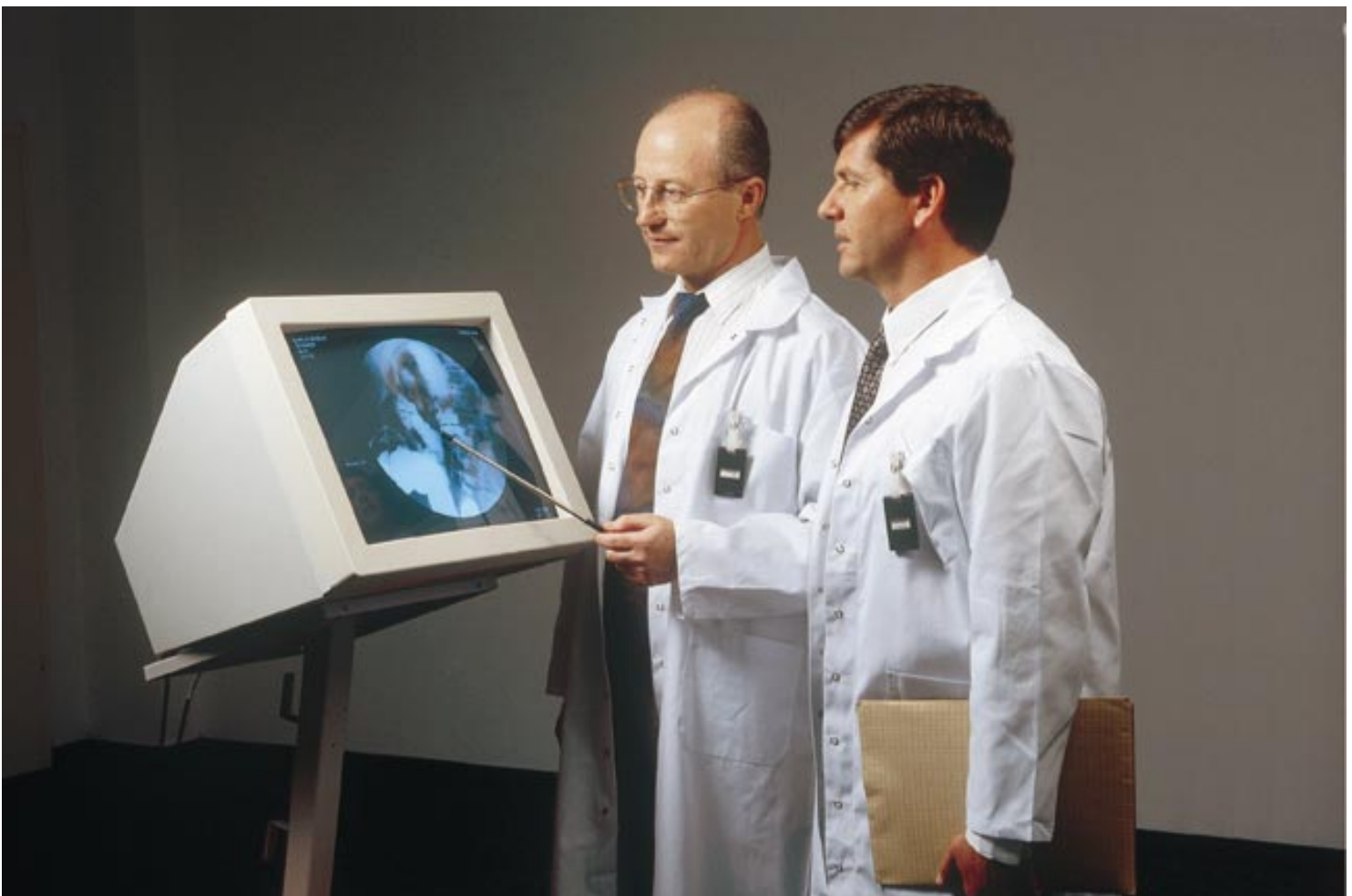
SmartSPOT system features include:

- Advanced CCD-based TV camera with 1,024 x 1,024 resolution
- Comprehensive fluoroscopy package
- High-speed data acquisition
- True simultaneous acquisition and processing
- Windows-based mouse-driven intuitive user-interface
- Imaging protocols optimized for different anatomical regions
- Comprehensive angiography acquisition and post-processing package
- Digital laser interface
- Full compliance with DICOM 3.0 standard



Based on a powerful PCI-based workstation running under the Windows NT operating system, SmartSPOT's object oriented software and mouse-driven interface ensures easy operation. And SmartSPOT's advanced connectivity enables optimal use of departmental resources.

COM



U n m a t c h e d p e r f o r m a n c e

With SmartSPOT, unprecedented speed and reliability are only the beginning. The system's visionary architecture, streamlined intuitive user interface and a wide range of clinical functions offer unprecedented levels of performance.

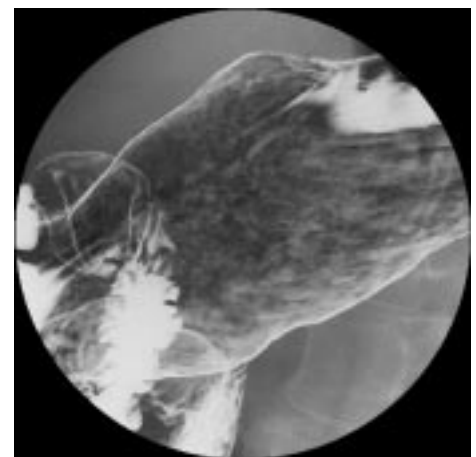
SmartSPOT is designed for superb image quality. Every aspect of the system - from TV camera to final documentation on film - was optimized by the designers to yield the best clinical results.

The SmartSPOT is totally user-oriented. All controls are intuitive and the learning curve minimal; an important factor for operators frequently changing rooms.



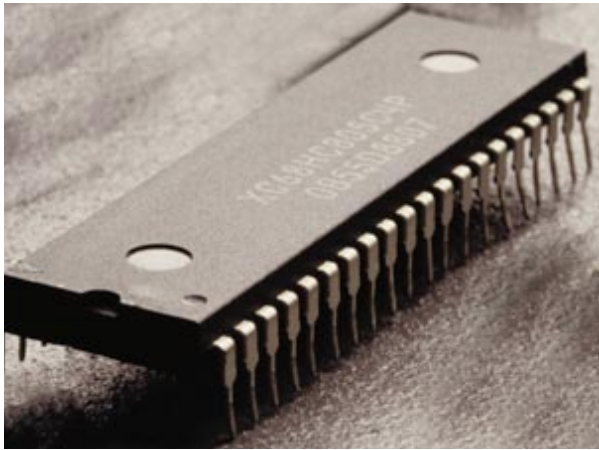
R e d u c e d c o s t s

Increased patient throughput and reduced costs are facilitated by the reduction in examination time achievable with the system. Considerable savings in the cost of film and film processing deliver an excellent return on investment, covering the cost of a SmartSPOT installation in a remarkably short time.



Advanced CCD based TV camera

Advanced CCD-based TV camera



At the heart of any digital R&F system is its TV camera, and it is here where the SmartSPOT leads the field.

Employing the most advanced camera technology available today, CCD (charged-coupled-devices) sensors, SmartSPOT offers significant performance advantages over conventional pick-up tubes, including:

- Improved resolution
- Reduced shading and image distortion
- High signal-to-noise ratio
- Less image blur
- Reduced maintenance costs



THE NEXT GENERATION



Enhanced computing capabilities

High-tech platform

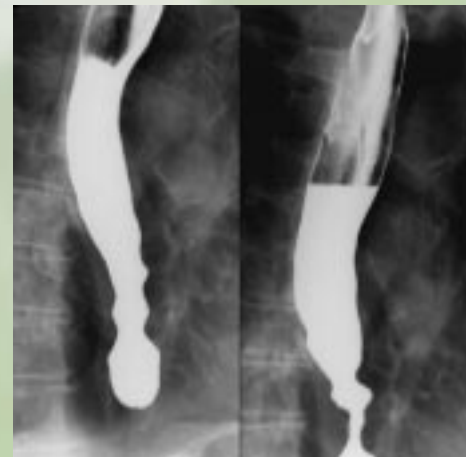
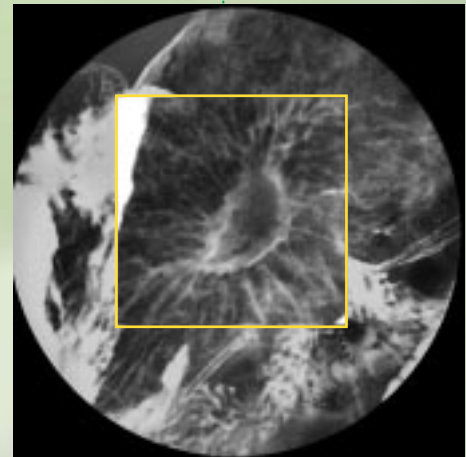
Based on its wide experience, extensive technological expertise and dedication to quality, CMT has developed a family of products which is optimized to meet today's requirements, yet provides the flexibility to handle tomorrow's emerging applications.

Powerful operating system

The SmartSPOT's unique computer architecture, in conjunction with the powerful Windows NT operating system assures maximum diagnostic flexibility and increased patient throughput.

Improved video display

High-resolution flicker-free monitor display systems facilitate table-side and control-room review of acquired images.



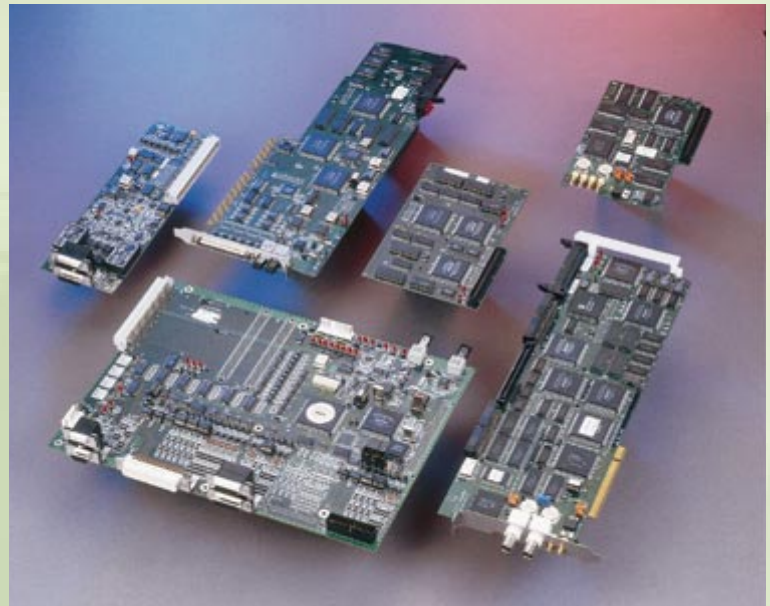
SmartSPOT

Acquisition

Processing

Filming

Storage



True simultaneity

Considerable flexibility and significant time-savings are enabled by the SmartSPOT's state-of-the-art software/hardware combination. The SmartSPOT can be shared simultaneously by two users - one in-room, the other at the console, for image review, post-processing or documentation purposes.

The in-room user may also review the images of the current patient while an examination is underway.

Previous studies can be reviewed on the viewing console without interrupting the current examination.

Digital archiving and documentation is performed in the background during acquisition and can be tracked at any time.

The merger of speed with simple handling, and the ability to share the system, significantly enhances the SmartSPOT's - and your - productivity.

Anatomically-programmed protocols

Anatomically programmed protocols allow efficient usage of equipment and personnel, maximizing accuracy and control while ensuring full reproducibility of control settings.

With the SmartSPOT, all adjustments for a given examination are preset to appropriate values for examinations of different parts of the body, thus optimizing the imaging technique and visualization of specific anatomy.

Different imaging parameters such as operating mode, edge enhancement filtering, display polarity, noise-reduction technique, sequence type, autowindowing, etc. may be selected.

Automatic programs are easily preset through a simple point-and-click technique. These programs can be easily modified to suit user requirements.



SmartSPOT

Anatomically-programmed protocols



easy operation

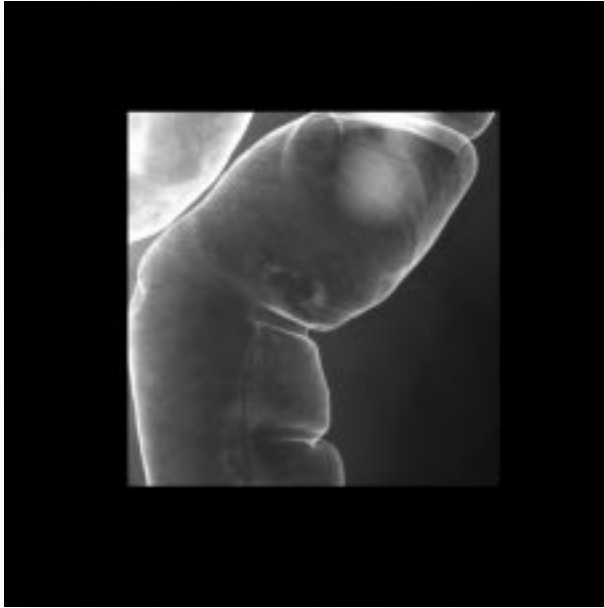
Easy operation

The SmartSPOT's advanced man-machine interface is based on the industry standard Windows Graphical-User-Interface, tailored to the operating conditions of the medical imaging environment.

There are no cumbersome menus or protocols to learn. Just "point and click" to access frequently-used functions. The SmartSPOT's intuitive user-interface eliminates the need for memorizing complicated menu structures, boosting response time. This increases operator comfort, while freeing the user to concentrate on the patient, not the equipment.

Simplicity, power, speed - SmartSPOT has them all, delivering maximum comfort, efficiency and productivity.

Simplicity, power & speed



Full spectrum of functions

With the SmartSPOT, conventional cassette filming and 100/105 mm camera filming are virtually eliminated. SmartSPOT's all-in-one capabilities meet all your imaging needs -- smoothly, efficiently and fully in-line with your clinical needs.

SmartSPOT provides acquisition and processing capabilities to meet the requirements of the entire range of R&F applications:

Acquisition modes

- continuous fluoroscopy
- noise reduction techniques
- last image hold
- single pulse
- frame rates of up to 8 fps
- programmable sequences
- roadmapping

Image Processing

- windowing & text
- continuously variable magnification up to X4
- multiformat display
- automatic laser imager filming
- support of removable media devices
- DICOM 3 compatibility (by Merge Technologies)
- angiography post-processing package



Angiography package



The SmartSPOT offers an unsurpassed, easy-to-use angiography acquisition and processing package. A typical study is processed in a matter of seconds using either logarithmic or linear transformations. Featuring zoom, pan and windowing capabilities, as well as interactive mask averaging and group subtraction, all as simple as standard imaging with the SmartSPOT.

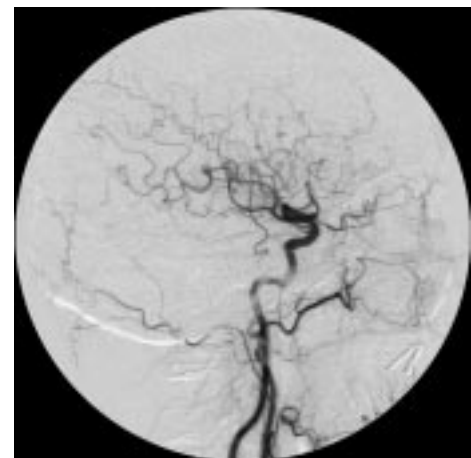
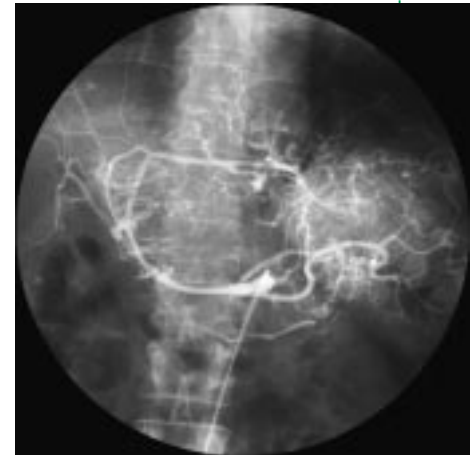
Taking full advantage of the Windows NT operating system, the SmartSPOT offers a remarkable environment for diagnostic reading and reviewing. Numerous processing tools are available at your finger tips. Hard-copies are easily attainable through laser imagers or printers.

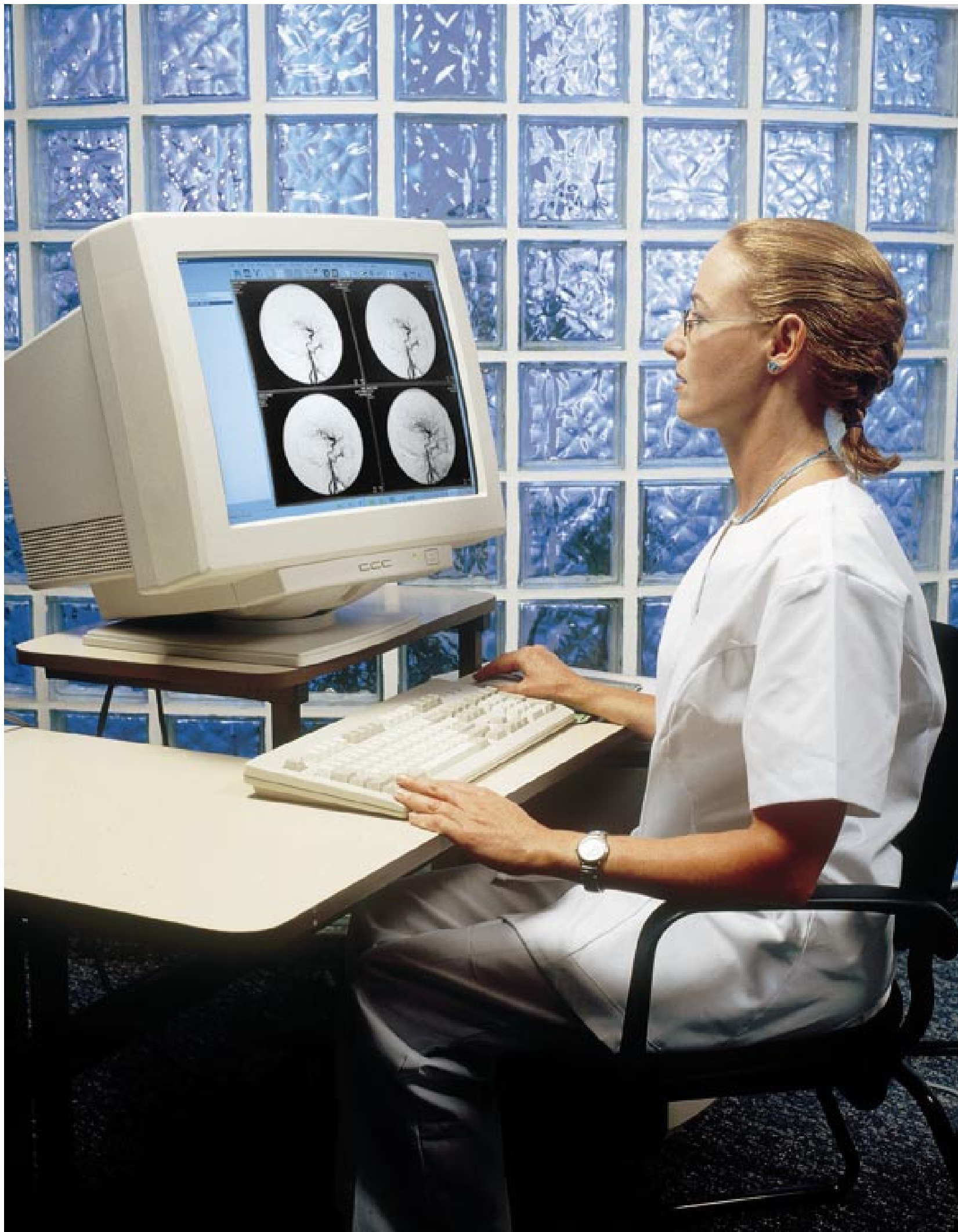
Acquisition features

- On-line subtraction with selectable mask
- Roadmapping protocol
- Programmable sequences with up to 8 phases
- Automatic cine loop

Postprocessing capabilities

- Simultaneity
- Mask averaging
- Logarithmic/linear subtraction
- Variable weighing factor
- Sub-pixel registration
- Automatic re-registration
- Maximum/minimum opacification techniques
- Cine display of subtracted images with variable refresh rate
- Electronic shutters
- Edge enhancement





CMT: Innovative Research and Development

For more than 14 years, the name CMT has been synonymous with technological innovation. Since its inception, CMT has pioneered many original solutions that later became industry standards. CMT brings its full experience, technological know-how and forward-thinking to full realization in the SmartSPOT, setting a new industry standard once again.

The key to this innovation is CMT's human infrastructure. Today, close to 20% of all CMT employees work in interdisciplinary research and development. Research at CMT means designing modern, advanced products at the forefront of medical technology, responding to customer needs and patient comfort; and providing state-of-the-art, cost effective medical imaging equipment aimed at positive clinical outcomes.

SmartSPOT is a trademark of CMT Ltd.
Windows NT is a trademark of Microsoft Corp

Please call for more information about the SmartSPOT Digital Imaging System.



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