



# Kodak 2000RT CR System

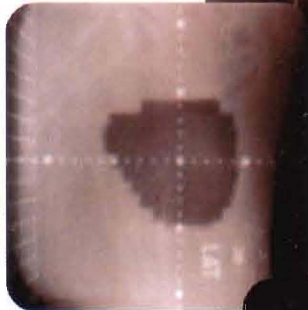
KODAK RADIATION ONCOLOGY

SOFTWARE



## Truly Filmless with one Complete Digital Solution

*The pixel size ranging from 0.117 to 0.255 mm provides excellent image resolution and high-quality IMRT Images.*



*The wide dynamic range of the Kodak 2000RT CR System acquires all types of therapy images including Cobalt and IMRT.*



- Acquire portal localization, verification, simulation, and QA images on reusable Phosphor Plates.
- Provides seamless digital back-up for existing EPID systems.
- Offers the excellent resolution necessary for proper IMRT QA imaging.
- Improve efficiency with convenient scanner placement and 25 Second scan times while eliminating film processing darkroom and chemicals.

*"We needed a high-quality imaging system that was affordable, supported multiple linear accelerators and simulation devices, and integrated smoothly with our practice management system. We achieved all of our goals with the KODAK 2000RT CR System."*

Ken Weeks, Ph.D.  
Chief Physicist for Rex Cancer  
Center, Raleigh, NC



A reusable storage phosphor plate replaces film in a therapy or simulation cassette. Using standard techniques, the plate is exposed just like film.



Remove the exposed storage plate from the cassette and place it in the plate reader.



The reader scans a 2.5 MB image in 25 seconds and produces a high-quality digital image on the display. The plate is automatically erased and placed back in the cassette for reuse.

### Connectivity

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|--|---|
| <b>A Proven History of Connectivity</b>          | <ul style="list-style-type: none"> <li>➤ Share images seamlessly with existing DICOM compliant Oncology Systems.</li> <li>➤ Choose DICOM 3.0 or DICOM RT output.</li> </ul>   |
| <b>Import and Review DRR Images Side-by-Side</b> | <ul style="list-style-type: none"> <li>➤ Import DRRs from Treatment Planning Systems for easy side-by-side review with weekly port or daily <b>IGRT</b> Images.</li> </ul>  |
| <b>Do it all from your office PC</b>             | <ul style="list-style-type: none"> <li>➤ Allows users to annotate, edit and approve images without the need for an expensive image management system.</li> <li>➤ Oncologists can approve or reject images and comment on necessary adjustments from their office providing immediate feedback to therapists.</li> </ul> |

### Imaging

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|-------------------------------|--|
| <b>KV Imaging</b>             | <ul style="list-style-type: none"> <li>➤ Traditional Simulation Images – Use high resolution mode to better visualize seeds and fiducials.</li> <li>➤ Brachytherapy Imaging – Window/Leveling enables better visualization of key structures and implant devices.</li> </ul>   |
| <b>MV Imaging</b>             | <ul style="list-style-type: none"> <li>➤ Portal Localization – weekly ports, IGRT, IMRT Orthogonal, etc.</li> <li>➤ Portal Verification – Leave plates in place during treatment to save time and additional dose to patient.</li> <li>➤ TBI and Long-Bone – capture extra large images impossible to capture on EPIDs.</li> <li>➤ Cobalt Imaging</li> </ul> |
| <b>Image-based QA Imaging</b> | <ul style="list-style-type: none"> <li>➤ Capture important QA images without the need for film, such as; <b>Star Shots, Field Light, HDR Dwell, Laser Checks, Stereotactic Alignment, and MLC Checks</b></li> </ul>  |
| <b>Dose-based QA Imaging</b>  | <ul style="list-style-type: none"> <li>➤ With the addition of our Beam Dosimetry Imaging Package, IMRT QA Coronal or Axial, Flatness and Symmetry, and Electron Beam imaging can also be accomplished.</li> <li>➤ Read doses from 1 to 800 cGy with consistent Log Linear predictability.</li> <li>➤ Easy export to QA Analysis Software</li> </ul>          |

### Plates

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|--------------------------------|--|
| <b>Reusable Phosphor Plate</b> | <ul style="list-style-type: none"> <li>➤ Phosphor plates are used in place of film to create a digital image, which is automatically erased. The reusable plate range in sizes 14 X 17 inches to 24 X 30 cm.</li> <li>➤ The pixel size as small as 0.117mm provides excellent image resolution.</li> </ul> |
|--------------------------------|--|

### All Inclusive

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|---|---|
| <b>No Additional Cost</b>                       | <ul style="list-style-type: none"> <li>➤ Licenses include DICOM Print, Archive, Query/Retrieve, Patient CD (burn portable images with built-in DICOM viewer.)</li> <li>➤ Unlimited DICOM connections.</li> <li>➤ Utilize existing Film and Portal cassettes.</li> </ul> |
| <b>Mini PACS</b>                                | <ul style="list-style-type: none"> <li>➤ Multiple levels of image status are now available: Unread, Approved, Rejected, or Corrected.</li> </ul>  |
| <b>Installation, Training, 1-year warranty.</b> | <ul style="list-style-type: none"> <li>➤ On-site system installation with training of Therapists, Physicists, and Bio-Med personnel included.</li> <li>➤ System also includes a 1-year warranty with Tech Support and Website access.</li> </ul>                        |

## 2000RT CR System Specifications

General									
HARDWARE COMPONENTS		RECOMMENDED SPACE REQUIREMENT (excluding pull-out tray for keyboard and			TOTAL WEIGHT	POWER REQUIREMENTS			
Reader/Eraser, Computer, Monitor, Keyboard, Mouse		53 in. width x 30 in. depth			150 lb	4 separate 110-volt outlets, less than 20 amps total (uninterruptable power supply highly recommended)			
Reader / Eraser									
TYPE	WIDTH	DEPTH	HEIGHT	WEIGHT	POWER REQUIREMENTS		SCAN TIME		
					READER	ERASER	1K SCAN	2K SCAN	
Desktop	21 in.	27 in.	21 in.	135	1.5 amps	4 amps	25	50	
• For use in dimmed lighting									
Computer Configuration									
Memory		POWER REQUIREMENTS	OPERATING SYSTEM		INTEGRATED NETWORK ADAPTER (NIC)	PROCESSOR			
2Gig		305 watts	WINDOWS XP Professional		IntBroadcom Gigabit	INTEL Pro Pentium			
Archive									
Serial ATADVD ± RW									
Monitor / Video Card									
Weight	POWER REQUIREMENTS		DISPLAY SIZE	PIXEL DISPLAY	BIT/PIXEL RESOLUTION	LUMINANCE			
16.9	58 watts		20.1 in. Portrait viewable screen	1600 x 1200	16.8 mil Color	300 cd/m <sup>2</sup> max luminance stabilization			
KODAK Radiation Oncology Software									
<ul style="list-style-type: none"> <li>• DICOM image acquisition, review, and archiving software</li> <li>• Support full 12-bit data</li> <li>• Image annotation</li> <li>• Automatic window and level control</li> </ul>					<ul style="list-style-type: none"> <li>• Group send to multiple destinations</li> <li>• DICOM 3.0 (CR or RT) storage and printing</li> <li>• WINDOWS Print</li> <li>• TCP/IP communications</li> </ul>				

### We also offer:



Radiological Imaging Technology, Inc.

In the rapidly improving field of radiation therapy, medical physicists are called upon to master many different technologies, and provide precise QA analysis for images from many different sources. A mix of conventional therapy, advanced therapies, IMRT, IGRT, and RapidArc from digital and film images is becoming commonplace in cancer centers, and today's medical physicist needs a single QA package that can provide solutions for every imaging option and every challenge faced.

#### RIT113 does it all for you.

RIT113 Radiation Therapy QA- A single QA software package for medical physicist's needs to provide precision software solutions for treatment machine commissioning, IMRT, IGRT, Tomotherapy and VMAT QA.

#### For enquiries contact:



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