



## Radiation Oncology Beam Dosimetry Package

# Eliminate costly film, chemicals and processors with this "all-in-one" solution

Maximize the productivity of the KODAK 2000RT CR Plus System by adding the KODAK Radiation Oncology Beam Dosimetry Package. Kodak understands that Radiation Oncology Physicists require flexibility and precision when conducting dosimetric and Physics QA tests. As a result, we have worked with Arthur Olch, Ph.D., Radiation Oncology Physicist and a focused Kodak development team to architect a CR-based solution with your needs in mind.

The World's First and Only CR-based Dosimetry and Physics QA Offering	
<p><b>Designed to measure a dose range of up to 800 cGy with consistent predictability.</b></p>	<ul style="list-style-type: none"> <li>No other dosimetry application can accomplish this today.</li> <li>Unlike film that has a somewhat curved dose-response, the CR scanner has a log linear curve up to at least 150 cGy. Above this dose, the curve changes slope but remains log linear toward doses approaching 800cGy.</li> </ul>
<p><b>Perform relative dosimetric tests</b></p>	<ul style="list-style-type: none"> <li>Accuracy is similar to film-based tests.</li> </ul>
Now Perform These Applications Using CR	
<p><b>Excellent dose response constancy</b></p>	<ul style="list-style-type: none"> <li>Dose-response relationship for a particular CR plate and scanner is constant within 3% of dose over a two-week period.</li> </ul>
<p><b>Image-based Physics QA tests</b></p>	<ul style="list-style-type: none"> <li>Light vs. radiation</li> <li>Star Shots (testing gantry, couch or collimator isocentricity)</li> <li>HDR dwell position, and other quality assurance tests</li> </ul>
<p><b>Dose-related QA tests (Relative)</b></p>	<ul style="list-style-type: none"> <li>IMRT QA</li> <li>Beam Profiles</li> <li>Percent Depth Doses/Isodoses</li> <li>Electron Beam QA</li> <li>Provides a large number of dose points for increased range of potential dose checks</li> </ul>



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IMRT QA	
Improve IMRT QA productivity	<ul style="list-style-type: none"> <li>Achieve composite, relative IMRT QA results in the parallel fashion and beam-by-beam relative dose results in the perpendicular fashion within a 4% margin.</li> </ul>
Once the CR plates go through a 25-second scan, the information can be saved and available for use by QC analysis software, such as RIT113.	<ul style="list-style-type: none"> <li>Save time, as film will not need to be run through the processor or digitized before the data is available.</li> </ul>

Dosimetry Package and Software	
A comprehensive suite of tools designed with physicists' convenience in mind	<ul style="list-style-type: none"> <li>Package contains the following:               <ul style="list-style-type: none"> <li>1—Unique water phantom</li> <li>1—24 x 30 cm screen</li> <li>5—Light-tight plastic envelopes</li> <li>Side scatter blocks</li> <li>Template for spatial accuracy</li> </ul> </li> <li>Software application</li> <li>User reference guide</li> <li>2 hours installation</li> <li>4 hours of training</li> <li>1-year warranty</li> </ul>
Enables streamlined workflow	<ul style="list-style-type: none"> <li>Runs on Microsoft Windows 2000 Professional® or XP Professional® operating system.</li> <li>View the acquired image in full-screen.</li> <li>Save the acquired images in DICOM 3.0 format.</li> <li>Perform diagnostic self-test and scanner-unit tolerance test functions.</li> <li>Create and save Calibration Profiles for CR plates.</li> <li>Apply Calibration Profiles to acquired images in order to remove anomalies associated with the plate and scanner.</li> <li>Apply Window Leveling to the current image.</li> </ul>

CR—Your "All-In-One" Solution	
CR provides added flexibility and redundancy	<ul style="list-style-type: none"> <li>Can be used as a scanner for simulation and portal images.</li> <li>One unit can be used to support multiple linear accelerators and a simulator for primary image acquisition.</li> <li>Can support multiple EPIDs as a "back up" for maximum efficiency and uptime.</li> <li>Enables capture of larger portal images with greater angle flexibility than EPID.</li> </ul>



Licensed Product

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### More information

To learn more about KODAK Radiation Oncology Beam Dosimetry Package contact your Carestream Health representative, or call 1-877-865-6325, ext. XXX.

→ [www.carestreamhealth.com](http://www.carestreamhealth.com)



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