The RIT Family of Products offer an impressive range of convenient packages that span from basic testing to the most complex analyses in Medical Physics.

- **RIT Complete**: All of RIT’s therapy products in one convenient and comprehensive package.
- **RIT Classic**: The original RIT product, combining patient and machine QA.
- **RIT G142**: All of the machine and imaging tests for TG-142, in a ‘just-what-you-need’ package.
- **RIT G148+**: A comprehensive test suite for helical TomoTherapy® machines.
- **RIT G135**: A comprehensive test suite for all CyberKnife® machine QA.
- **RIT Film**: Full suite of film dosimetry routines, including patient and basic machine QA.
- **Radia therapy**
- **Radia diagnostic**: Automated phantom analysis for QC of Therapeutic and Diagnostic imagers (Not detailed within this brochure.)

Features not available in all software configurations are noted.

TomoTherapy® and CyberKnife® are registered trademarks of Accuray, Inc.
### The RIT Family of Products

MEDICAL PHYSICS’ LEADING QA SOFTWARE FOR OVER 25 YEARS

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#### MACHINE QA

**3D Winston-Lutz (Isocenter Optimization)**

Automatically process a set of EPID Winston-Lutz images to give a fast, accurate measurement of isocenter position. RIT’s version of this classic test allows you to use 3-16 images. It not only gives you an accurate measurement of isocenter displacement, but also an error estimate to determine the wobble around the isocenter and the ball setup error. The accuracy of this test surpasses half of a pixel.

(Patents: US 9192784, CA 2918045, and JP 6009705)

<table>
<thead>
<tr>
<th>RIT Complete</th>
<th>RIT Classic</th>
<th>RITG-142</th>
<th>RITG-135</th>
<th>RIT Film</th>
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<tr>
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</table>

**Stereotactic Cone Profiles**

**Stereotactic Alignment**

Stereotactic images may be analyzed without applying a calibration file. Winston-Lutz images are supported.

**Field Alignment**

This routine features improved alignment routine for low contrast cones.

**Gibbs Cone Analysis**

Measures the cone wobble when using a single cone (repeated), or cone center shift when using multiple cones. This routine provides an accurate test of either the cone wobble, collimator walkout (if the collimator is rotated during the test), or both.

---

#### BEAM MEASUREMENTS

**Star Shot Analysis**

RIT’s film Star Shot beam detection routine features a fully-automated interface with robust and highly accurate detection artificial intelligence algorithms. Polarity, ROI, number of spokes, and spoke center are automatically extracted from the image, then applied in the analysis.

**Radiation/Light Field Coincidence**

Radiation/Light Field EPID images may be analyzed without applying a calibration file. You can also have custom field sizes, not just 5, 10, 15, and 20 cm, and use a BB or pinprick for center location or use RIT’s L-Rad Phantom.

**Asymmetric Field/Matchline**

**Depth Dose Profiles**

Measure DMAX, D$_{10}$, D$_{20}$, and other statistics.

**Cross Profiles**

Measure FWHM, Penumbra, Flatness, Symmetry and other statistics.

**Orthogonal Profiles**

<table>
<thead>
<tr>
<th>RIT Complete</th>
<th>RIT Classic</th>
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<tr>
<td>Feature</td>
<td>RIT Complete</td>
<td>RIT Classic</td>
<td>RIT TG142</td>
<td>RIT TG148+</td>
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<td>---------------------------------</td>
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<tr>
<td>Electron Energy</td>
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<tr>
<td>Use this routine for TG25 and other measurements.</td>
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<tr>
<td>Quick Flatness and Symmetry</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Perform a fully-automated routine for monthly QA.</td>
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<tr>
<td>Isodose Contours</td>
<td>✔️</td>
<td>✔️</td>
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</tr>
<tr>
<td>Import Tomo “DICOM” Film Files</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Water Tank Beam Measurement Analysis</td>
<td>✔️</td>
<td>✔️</td>
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<td>✔️</td>
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<tr>
<td>Image Histogram</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>3D Dose Profile</td>
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<td>✔️</td>
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<tr>
<td><strong>TOMOTHERAPY®</strong></td>
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<tr>
<td>Beam Planarity and Jaw Twist</td>
<td>✔️</td>
<td>✔️</td>
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<td>✔️</td>
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<tr>
<td>Overhead Laser Position Tool</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Import TomoTherapy® Calibration Files</td>
<td>✔️</td>
<td>✔️</td>
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<td>Static Gantry Angle Tool</td>
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<tr>
<td>Helical Gantry Angle Tool</td>
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<tr>
<td>Field Center vs. Jaw Setting Tool</td>
<td>✔️</td>
<td>✔️</td>
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<td>✔️</td>
</tr>
<tr>
<td>Couch Translation/Gantry Rotation</td>
<td>✔️</td>
<td>✔️</td>
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<td>✔️</td>
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<tr>
<td>Interrupted Treatment</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>MLC Center of Rotation Tool</td>
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<td>✔️</td>
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<tr>
<td>IGRT Alignment</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
<td>✔️</td>
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<tr>
<td>Vidar TIFF Export</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
<td>✔️</td>
</tr>
</tbody>
</table>
# The RIT Family of Products

**CYBERKNIFE® & ALL ROBOTIC RADIOSURGERY**

- End-to-End Test
- AQA Test
- Laser Coincidence Test
- Iris Test
- Fully-Automated M6 MLC Test

## PATIENT QA

**Automated Batch Analysis**

Automate your patient QA by setting up scripts for your repetitive Patient QA workflows. Perform automated matching and sorting of Reference and Target images simultaneously. Easily export the results to a customizable PDF report to display your most significant data.

## IMRT, IGRT & RAPIDARC®/VMAT ANALYSIS

- Gamma Function
  - Choose from several available gamma calculation algorithms.
- Distance to Agreement
- Profiles
- Van Dyk’s Analysis
- Subtraction
- Composite Analysis
- Isodose Curves

---

**THE RIT FAMILY OF PRODUCTS:
MEDICAL PHYSICS’ LEADING QA SOFTWARE FOR OVER 25 YEARS**
Addition

Centroid Measurement
Compare two images and measure any shift within the centroids.

IGRT Alignment
Measure the spatial misalignment between the IGRT imaging system and the treatment beam.

Register Template

IMRT Automatic Fine-Tune Registration

Bilinear Interpolation and Non-Cropping Rotation

Automated Registration
Simultaneously perform fully-automated registration control point positioning in both traditional and RunQueueA IMRT.

TomoTherapy® Registration
Easily perform exact dose comparisons for TomoTherapy® patient QA. The analysis uses a TomoTherapy® plan, a dose map, and a film to determine position and dose accuracy, using the red or green lasers. Coronal or Sagittal slices may be analyzed. Compatible with the following Accuracy treatment planning systems: TomoTherapy® 5.1.3, Precision® 1.1.0, Precision® 2.0.0, and Precision® 3.0.0.

Proportion Passing Plot
Plot the proportion passing for a range of subtraction tolerances.

Save Case Files from IMRT Analysis Toolbars
Archive image sets and send IMRT results to other RIT users or Technical Support.

Save and Restore IMRT Analysis Layouts

Plan-Based Calibration
Make quick relative comparisons between any dose map and your EPID, Film, and CR images.

The RIT Family
OF PRODUCTS

2D DETECTOR ARRAY ANALYSIS

Import from 2D Arrays
Ion Chamber arrays from IBA and PTW and MapCHECK® diode arrays are supported. IMRT analysis routines have been revised to handle sparse data. Results can be saved as a RIT Array Case file.

ANTHROPOMORPHIC PHANTOM QA

Automated Image Fill
Use this function, located in the ‘Edit’ menu, to automatically correct and fill any holes or cutouts in the image file. Perform patient QA with an anthropomorphic phantom for both calibrated and uncalibrated images. A wide variety of anthropomorphic phantoms are supported, including those used for CyberKnife® patient QA.

CALIBRATION

<table>
<thead>
<tr>
<th>Function</th>
<th>RIT Complete</th>
<th>RIT Classic</th>
<th>RIT G142</th>
<th>RIT G148+</th>
<th>RIT G135</th>
<th>RIT Film</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Output Factor Adjustment for Calibration Curves</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>MLC Calibration Technique</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tbody>
</table>


2D Scanner Spatial Calibration for Both Vidar and Flatbed Scanners

<table>
<thead>
<tr>
<th>Function</th>
<th>RIT Complete</th>
<th>RIT Classic</th>
<th>RIT G142</th>
<th>RIT G148+</th>
<th>RIT G135</th>
<th>RIT Film</th>
</tr>
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<tbody>
<tr>
<td>Perpendicular Dose Calibration</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>iView™ Calibration</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>Parallel Dose Calibration</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Optical Density (OD) Calibration</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
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<tr>
<td>Kodak CR Perpendicular Calibration</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Kodak CR Spatial Calibration</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<td>PDD Table Editor</td>
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<td>✔</td>
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<tr>
<td>Calibration File Merge</td>
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<td>✔</td>
<td>✔</td>
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</table>
**MLC QA**

<table>
<thead>
<tr>
<th>Test</th>
<th>RIT Complete</th>
<th>RIT Classic</th>
<th>RITG142</th>
<th>RITG148⁺</th>
<th>RITG135</th>
<th>RIT Film</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RIT EPID Picket Fence</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>This routine is completely automated version of the classic picket fence test.</td>
<td></td>
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</tr>
<tr>
<td><strong>Hancock Tests for Elekta</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>The Hancock tests (2 Image Hancock Test, 4 Image Hancock Test, and Hancock Test with Backup Jaws) are designed to use the Elekta iView™ imager to produce a series of images to automatically measure leaf position against a measured isocenter position. For MLC’s with backup jaws, the test also measures the jaw position in relation to isocenter and the jaw leaf setback measurement. The RIT system can use JPEG or HIS images from the iViewGT™ system.</td>
<td></td>
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</tr>
<tr>
<td><strong>Elekta Leaf Speed Test</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>The Elekta EPID Leaf Speed Test aligns two images to analyze the consistency of the leaf speed. This routine is also available for the Agility™ MLC. The test images are loaded by default as type Elekta iView™ EPID (<em>.dcm,</em>.jpg,*.his).</td>
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</tr>
<tr>
<td><strong>Varian Leaf Speed Test</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>The Varian MLC EPID Leaf Speed Test measures the consistency and accuracy of the MLC leaf speeds as they move across an imager without the use of log files.</td>
<td></td>
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<tr>
<td><strong>Automated Analysis of Varian RapidArc® Tests</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Images may be taken at any distance from EPID, Film, or CR images.</td>
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</tr>
<tr>
<td><strong>Bayouth MLC Analysis</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Analyze MLCs that require leaf gaps between banks.</td>
<td></td>
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</tr>
<tr>
<td><strong>Memorial Sloan Kettering Test Pattern</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>MLC Transmission Analysis (TG50 Recommended)</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>TG50 Picket Fence</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><strong>Varian DMLC Test Pattern Analysis</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>CyberKnife® MLC QA</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Perform a fully-automated “Garden Fence” MLC test for the M6 multi-leaf collimator. The software will (1) automatically crop the image; (2) automatically align the image; (3) perform automatic orientation of any images that are rotated or flipped; (4) automatically detect any leaves, eliminating any need for template files; and (5) perform the analysis.</td>
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</tbody>
</table>
**The RIT Family of Products**

**IMAGING QA**

**Cerberus** Hands-Free Phantom Analysis

Cerberus constantly operates in the background of your workstation, automatically monitoring folders and pin-pointing specific files to process and analyze. It can match any set criteria, such as file naming patterns, DICOM tag matches, or file types. Cerberus automatically performs analyses, generates reports, and shares data to RITrend™, using specific parameters set in your customized preference profiles (including tolerances) to analyze the images for all of your machines.

**RITCognition®** Fully-Automated Image Classification

RITCognition® performs true, independent, and automatic image classification. Using neural net algorithms, the software determines the correct phantom associated with each image, enabling true automation in RIT’s image analysis routines. The RITCognition® system continuously updates itself to improve the discrimination accuracy of its classification models. (US Patent 9466012)

**Custom Tolerance Management**

Use the Tolerance Manager to set tolerance values and pass/fail criteria for every measurement used in all automated phantom analyses. This tool provides the flexibility necessary to customize tolerances on a wide array of LINACs and imaging systems.

**Planar kV Imaging Module**

- DISC Plus
- IBA Primus® L
- PTW NORM®-4
- Leeds TOR-18 FG
- QC-kV1

**MV (EPID) Imager**

- RIT EPID
- PTW EPID QC
- Las Vegas
- QC-3

**CBCT/MVCT Module**

- Catphan® 504 - Varian
- Catphan® 604 - Varian
- Catphan® 503 - Elekta XVI
- Siemens MVCT

**Electron Density / Tissue Characterization Module**

- CIRS 062M
- CIRS 062MA
- Gammex 467

**Tomotherapy Cheese**

**IGRT kV/MV Coincidence Routines**

- ISOCube™ kV-MV Isocenter Coincidence
- ISOCube™ CBCT Isocenter Coincidence
- ISOCube™ kV Collimation
- ISOCube™ MV Collimation / Light Field
- ISOCube™ 6 Degree-of-Freedom Couch Test

**Penta-Guide Phantom**
### General Features

**Image Compositor**
Use this GUI interface for easily making composite images. Add together images for use in MLC QA, Stereotactic QA, and large field IMRT analysis. Primarily used for EPID images but can be used on all image types. Supports a number of other operations: Add, subtract, multiply, divide, and other operations including scaling.

**Pin Prick, Erase, and ROI Tools**

**PDF Reports for Every Analysis Routine**
Easily export any analysis routine as a PDF report with a single click. Reports can be customized to display only information that is desired.

**Easy, Cloud-Based Software License Management**
RIT uses a software license manager from Flexera, the leading manufacturer of license managers in the world. Choose from three convenient license models: floating (usable on any machine), node-locked (tied to a specific machine), or local license server (tied to a specific server, allowing floating license capability within the network). Easily manage licenses on the FlexNet License User Portal.

**Support of 3D Gels and Solids**

### EPID

**Importing EPID Images for QA**
Use your Elekta, Varian or Siemens EPID for QA with a seamless interface that does not require additional manufacturer hardware and software.

**EPID Calibration**
RIT’s patented Plan-Based Calibration routine gives you the ability to make quick relative comparisons between any dose map and your EPID, FILM or CR.

**Elekta iView™ Calibration**

**Scale DICOM Images from Varian EPIDs**
Some Varian EPID images may contain scaling information to restore dose information. If this feature is enabled (in Preferences), the Varian aS Portal Image Interface will detect these parameters and restore the EPID image. An optional scaling factor may also be applied.
## The RIT Family of Products

**Medical Physics’ Leading QA Software for Over 25 Years**

### Film Dosimetry for QA

Radiochromic and Radiographic Film with Vidar and Flatbed Scanners

Flatbed Non-Uniformity Correction
This feature corrects for flatness and uniformity variations in scanners, corrects for non-uniformities in EBT film to improve the film’s dosimetric accuracy, and provides you with the option to automatically-generate a calibration file. Utilizes RIT’s patented Plan-Based Calibration to develop optimized calibration curves.

Radiochromic Film Uniformity Correction

Automated 21-Point Film Processor Correction
(Patents: EP 1252550, CA 2396952, JP 3817176, and US 6528803)

Sensitometry
(Patents: EP 1252550, CA 2396952, JP 3817176, and US 6528803)

2D Scanner Spatial Calibration for Vidar and Flatbed Scanners

Generic Image File Import
Importing generic JPEG, TIFF and Bitmap image files from sources other than your Vidar Scanner gives you increased flexibility in your workflow to use RIT’s exclusive analysis routines. This feature is perfect for flatbed scanners.

Vidar Advantage Pro 180° Correction
For use on Advantage Pro RED units only: Corrects for sloping profile from left side to center; Works with film up to 10” wide and improves flatness by a factor of 2 to 4.

Vidar Scanner Interface (Vidar Scanner Control Center)
This feature allows for multiple film scanning, auto-naming, and auto-cropping, auto-flipping, and preview of scanned images

### CR

3D CR Flatness and Uniformity Correction

Kodak CR Perpendicular Calibration

Kodak CR Spatial Calibration
REPORTING & DATA MANAGEMENT

RIT trend™ Statistical Trend Database

Set your own specifications and RIT trend™ automatically analyzes process control limits on equipment analyzed with RIT software. The Multi-Source Data Manager gives you even more control for reporting on your entire Medical Physics program. It's customizable format allows you to add analysis data from any and all equipment used in your Medical Physics program, including data not originally analyzed with RIT software. RIT trend™ redefines database recording into a major tool for analysis and record-keeping in your department.

RIT Mirror Trend Comparison

Compare your results with other centers around the world with RIT Mirror. Anonymously upload your test results to RIT’s Mirror server to compare your data to that of other treatment centers using a wide variety of filtering tools.

Agility™ is a trademark of Elekta AB.
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Medical physicists that perform various types of QA and QC measurements on a variety of machines, including both linear accelerators and imaging devices.

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A comprehensive test suite for helical TomoTherapy® machines, in accordance with TG-148.

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**The ideal software package for:**
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The original RIT product package that combines Machine QA (including MLC QA) and Patient QA.

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Medical physicists that require a single QA software solution for their linear accelerator(s) and for intensity-modulated radiation therapy (IMRT) procedures.

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A comprehensive test suite for CyberKnife® and all robotic radiosurgery, in accordance with TG-135.

**Quality Assurance:**
Machine QA, MLC QA

**The ideal software package for:**
Medical physicists and/or centers that use a CyberKnife® machine, performing daily, weekly, monthly, and annual QA.

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**Product Description:**
A package specifically-designed to perform every imaging and machine QA test required in TG-142.

**Quality Assurance:**
Machine QA, MLC QA, Imaging QA

**The ideal software package for:**
Medical physicists that need to thoroughly and accurately complete daily, weekly, monthly, and annual QA on their linear accelerator(s).

**RIT Film**

**Product Description:**
RIT's basic film analysis package for patient QA and partial machine QA measurements.

**Quality Assurance:**
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