The RIT Film software package offers a full suite of film dosimetry routines, including Patient QA and basic Machine QA. Easily streamline your Patient QA with RunQueueA, RIT’s automated batch analysis feature, and easily export any analysis routine as a PDF report with a single click.

**PATIENT QA**

RIT Film’s Patient QA (IMRT) routines are designed for the comparison of a patient’s phantom plan from the user’s treatment planning system and the QA image captured by film exposed to that phantom plan. The software conveniently allows for comparing a plan and film, a plan to plan, and/or a film to film.

### Patient QA Routines

- **Patient QA Measurements**
  RIT Film includes the following Patient QA (IMRT) measurements: Gamma Analysis, Distance-to-Agreement (DTA), Profiles, Van Dyk’s Analysis, Subtraction, Composite Analysis, Isodose Curves, Addition, Centroid Measurement, and Proportion Passing Plot.

- **Plan-Based Calibration**
  Make quick, relative comparisons between any dose map and your film images.

- **Dose Calibrations**

- **Scanner Spatial Calibration**
  The spatial calibration is not a dose conversion, but rather a means to determine the exact pixel size for the Vidar film scanner or flatbed scanner.

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**RunQueueA**

Automated Batch Analysis

Perform fast, consistent batch analysis with an automated QA checklist. The automated script maximizes the efficiency of your Patient QA analysis. It increases consistency of entered values and of analyses between multiple users at the same or different sites. Reduce the amount of training required to run the analyses.

- **Patient QA Image Registration**
  Simultaneously perform fully-automated registration control point positioning in both traditional and RunQueueA IMRT. Template-based registration may also be performed.
MACHINE QA

- Stereotactic Alignment Test (2D Winston-Lutz)
- Stereotactic Cone Profiles
- Field Alignment Test
- Star Shot Analysis
- Electron Energy (TG-25)

- Radiation/Light Field Coincidence
  EPID images may be analyzed without a calibration file and with custom field sizes. Center location can be found by taking a BB, pinprick, or using RIT’s L-Rad Phantom.

- Quick Flatness and Symmetry
- Isodose Measurements

Profiles

- Cross Profiles
  This includes Flatness, Symmetry, Penumbra, FWHM, Integrated Dose, and more.

- Depth Dose Profiles
  This includes Electron Energy, PDD, D_{MAX}', D_{10}', D_{20}' and other statistics.

FILM DOSIMETRY FOR QA

- EBTX and Flatbed Scanner Correction
  This advanced feature corrects for flatness and uniformity variations in scanners, corrects for non-uniformities in EBT2 and EBT3 film to improve the film’s dosimetric accuracy, and provides you with the option to automatically-generate a calibration file.

- Vidar Scan

- Vidar Scanner Interface
  (Vidar Scanner Control Center)

- Radiochromic Film Non-Uniformity Correction

- Vidar Advantage Pro 180° Correction

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

- 2D Scanner Spatial Calibration for Vidar and Flatbed Scanners

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

- Generic Image File Import
  Import generic JPEG, TIFF, and bitmap image files from sources other than a Vidar Scanner, giving you increased flexibility in your workflow.

Request a personal demo of RIT Film:
www2.radimage.com/demo