



# SMART QA: XACTLY

Accuray is pleased to offer quality assurance (QA) packages for the Radixact® Treatment Delivery System to support commissioning and routine procedures required for maintaining proper system functionality. For more information, or to purchase one of these QA packages, please contact your Accuray sales representative.

### Standard Quality Assurance Package

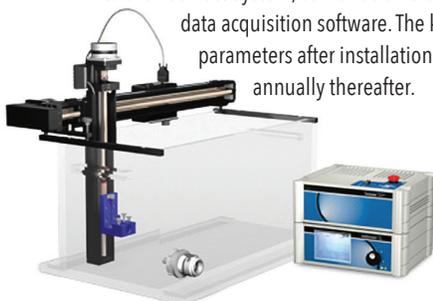
(included with new Radixact Systems) This kit includes phantoms and ion chambers that can be used for routine machine and patient-specific QA tests specified by AAPM Task Group TG-148, as well as to create density models for planning and for assessments of MVCT image quality.



*Tomo-Phantom HE with Density and Resolution Plugs*

### Beam Measurement & QA Package

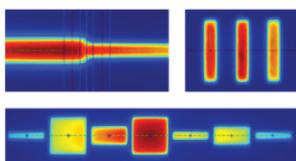
(Water Tank Kit) This package includes a water phantom compatible with the Radixact System, as well as an electrometer and beam data acquisition software. The kit is used to verify beam parameters after installation of a new machine and annually thereafter.



**Note:** If the site has another water tank that is compatible with the Radixact System, they may still need to purchase the TomoElectrometer with data acquisition software separately to perform routine QA tests, and to take full advantage of all Advanced TQA™ modules (see table on next page).

### RITg148+ or RIT Complete Film Analysis Software

RITg148+ includes all film alignment QA tests required by AAPM TG-148, as well as the ability to produce reports and trends.



RIT Complete includes all of the features of RITg148+, as well as analysis tools for patient-specific QA.

**Note:** Available with or without film digitizer (see table on next page).

### Advanced TQA™

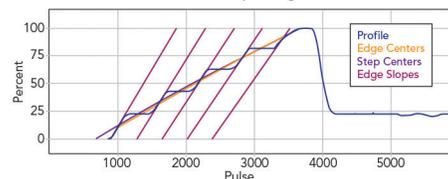
(included with new Radixact Systems) TQA is a smart calendar-based productivity tool that simplifies collection and analysis of machine quality assurance tests. It leverages on-board detectors and automatically analyzes the data to provide quantitative comparisons between expected and measured system performance characteristics.

TQA results are available via Web browser, and multiple Radixact Systems are supported.

Pass

Item Name	Status	Value	Unit	Low Pass	High Pass	Tolerances
Exit Detector Flatness (RMS)	●	0.21281	Percent	-1	1	0
Exit Detector Output Constancy	●	100.1	Percent	99	101	0
Monitor Chamber Output Constancy	●	100.07	Percent	99	101	0
Pulse By Pulse Cone Variation	●	0.095742	Percent	-2	2	0
Pulse By Pulse Dose1	●	0.53653	Percent	-2	2	0
Pulse By Pulse Exit Detector Average	●	0.30263	Percent	-2	2	0

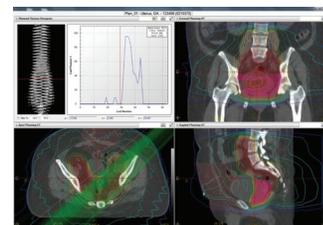
Normalized Step Wedge Results



### Delivery Analysis™

#### Software

(included with Radixact X9 Systems) Delivery Analysis is a standalone tool that uses MVCT exit detector data to offer powerful visualization tools for verifying consistency in treatment delivery, fraction by fraction. One Delivery Analysis workstation can support multiple Radixact Systems.



Item	Description	Part Number	Manufacturer
<p><b>Standard Quality Assurance Package</b></p> <p>Ion chambers and phantoms are needed for routine machine and patient QA measurements.</p> <p>Note: This kit is included with new orders for Radixact® Systems.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> <li>• Ion chambers with ADCL calibration <ul style="list-style-type: none"> <li>- Two Exradin A1SL thimble ion chambers</li> <li>- One Exradin A17 CT ion chamber</li> </ul> </li> <li>• Solid Water® HE Phantom (10 blocks total) <ul style="list-style-type: none"> <li>- 55x15x5 cm, no holes (1 block)</li> <li>- 55x15x5 cm, drilled cavity at 1 cm depth for A1SL ion chamber (2 blocks)</li> <li>- 55x15x2 cm, no holes (2 blocks)</li> <li>- 55x15x2 cm, two drilled cavities at 1 cm depth for A1SL ion chamber (1 block)</li> <li>- 55x15x1 cm, no holes (2 blocks)</li> <li>- 55x15x0.5 cm, no holes (2 blocks)</li> </ul> </li> <li>• Tomo-Phantom HE</li> <li>• Density Plugs</li> </ul>	<p><b>N/A</b></p> <p><i>Included with new Radixact Treatment Systems.</i></p>	<p>Standard Imaging</p> <p>Gammex</p> <p>Gammex</p> <p>Gammex</p>
<p><b>Beam Measurement &amp; QA Package</b> (Water Tank Kit)</p> <p>A water tank is required for commissioning and annual QA.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> <li>• TomoScanner Water Tank (two-dimensional)</li> <li>• TomoElectrometer (8 channels), with ADCL calibration</li> <li>• TEMS software</li> </ul> <p><b>Note:</b> A PC is not included; the software may be installed on a PC with a Microsoft® Windows® 7 or 10 operating system. For additional PC requirements contact an Accuray representative.</p>	<p><b>H-1006-0000-000</b></p> <p><i>All sites need a water tank that is compatible with the Radixact System.</i></p>	<p>Standard Imaging</p>
<p><b>TomoElectrometer with Beam Data Measurement Software</b></p> <p>Included in the Water Tank kit above. If that water tank is not ordered, this item is required for routine machine QA and for some TQA modules.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> <li>• TomoElectrometer (8 channels), with ADCL calibration</li> <li>• TEMS software</li> </ul> <p><b>Note:</b> A PC is not included; the software may be installed on a PC with a Microsoft® Windows® 7 or 10 operating system. For additional PC requirements contact an Accuray representative.</p>	<p><b>104940-000</b></p> <p><i>Any site that does not purchase the above water tank should purchase this item.</i></p>	<p>Standard Imaging</p>
<p><b>RITg148+ or RIT Complete Software License</b></p> <p>RITg148+ is intended for machine QA. RIT Complete also includes analysis tools for film-based patient-specific QA.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> <li>• RITg148+ or RIT Complete software license</li> <li>• One-year Product Maintenance Program agreement from RIT (renewal may be purchased from RIT by customer, at customer discretion)</li> </ul> <p><b>Note:</b> A PC is not included; the software license may be installed on any PC meeting the minimum system requirements (see www.radimage.com).</p>	<p><b>1047524-000 or 1051614-000</b></p> <p><i>Strongly recommend purchase of one of the RIT software packages for each clinical site.</i></p>	<p>RIT</p>
<p><b>RITg148+ or RIT Complete Software License with Vidar DosimetryPro® Advantage Digitizer</b></p> <p>This kit adds a film digitizer, for customers that do not already have a digitizer compatible with RIT software.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> <li>• RITg148+ or RIT Complete software license</li> <li>• Vidar DosimetryPro® Advantage Digitizer</li> <li>• One-year Product Maintenance Program agreement from RIT (renewal may be purchased from RIT by customer, at customer discretion)</li> </ul> <p><b>Note:</b> A PC is not included; the software license may be installed on any PC meeting the minimum system requirements (see www.radimage.com).</p>	<p><b>1047523-000 or 1052995-000</b></p> <p><i>Strongly recommend purchase of one of the RIT software packages for each clinical site.</i></p>	<p>RIT</p>
<p><b>Advanced TQA™ Package</b></p> <p>Smart machine QA via a calendar-based tool. Automatically analyzes many performance specifications in minutes, with little or no additional equipment, including: Output, energy, beam profile shape, field width, laser position, and more.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> <li>• Advanced TQA software license</li> <li>• Aluminum Step Wedge Phantom</li> </ul> <p><b>Note:</b> Must have either H-1006-000-000 or 104940-000 in order to use all of the QA modules included with Advanced TQA Package.</p>	<p><b>1050353-000</b></p> <p><i>Included with new Radixact Treatment Systems.</i></p>	<p>Accuray</p>
<p><b>Delivery Analysis™</b></p> <p>Uses exit fluence data from onboard detectors and powerful visualization tools to verify delivery consistency for every treatment fraction delivered. For each patient treatment plan, can also calculate 3D dose in the patient planning CT to assess the impact of MLC performance on the delivery.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> <li>• Delivery Analysis Software</li> <li>• Delivery Analysis Workstation</li> </ul> <p><b>Note:</b> One Delivery Analysis workstation can support multiple Radixact Systems.</p>	<p><b>1033485-000</b></p> <p><i>Included with Radixact X9 Treatment Systems. Compatible with all Radixact Systems.</i></p>	<p>Accuray</p>

**For more information, please contact your Accuray sales representative.**

**Please note:** Accuray does not take responsibility for supporting products listed in the table above that are designed, tested, and manufactured by third-party vendors. All warranties related to such products are those offered by the original third-party vendors. Quality assurance packages should be ordered at least 10 weeks before system acceptance.

**Important Safety Information**

Most side effects of radiotherapy, including radiotherapy delivered with Accuray systems, are mild and temporary, often involving fatigue, nausea, and skin irritation. Side effects can be severe, however, leading to pain, alterations in normal body functions (for example, urinary or salivary function), deterioration of quality of life, permanent injury, and even death. Side effects can occur during or shortly after radiation treatment or in the months and years following radiation. The nature and severity of side effects depend on many factors, including the size and location of the treated tumor, the treatment technique (for example, the radiation dose), and the patient's general medical condition, to name a few. For more details about the side effects of your radiation therapy, and to see if treatment with an Accuray product is right for you, ask your doctor.

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**Radixact®**