

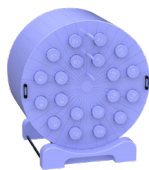


# SMART QA: XACTLY

Accuray is pleased to offer quality assurance (QA) packages for the Radixact® Treatment Delivery System to support installation 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

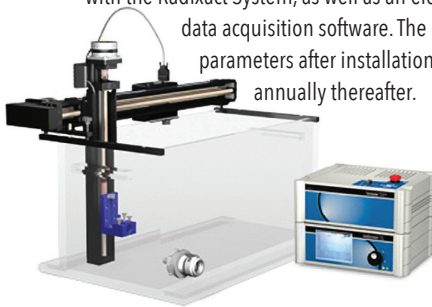
This kit includes phantoms and ion chambers that can be used for routine machine and patient-specific QA tests specified by AAPM Task Group TG-148, as well as to create density models for planning and for assessments of MVCT image quality. (included with new Radixact Systems)



*Tomo-Phantom HE with Density and Resolution Plugs*

### Beam Measurement & QA Package

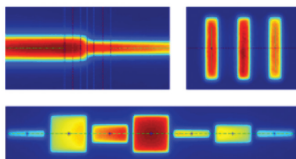
(Water Tank Kit) This package includes a water phantom compatible with the Radixact System, as well as an electrometer and beam data acquisition software. The kit is used to verify beam parameters after installation of a new machine and annually thereafter.



**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™ Software 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).

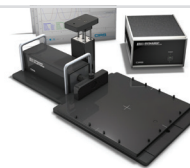
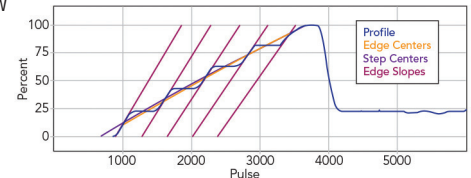
### Advanced TQA™ Software

The TQA Software 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 Software results are available via Web browser, and multiple Radixact Systems are supported. (included with new Radixact Systems)

Pass

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

Normalized Step Wedge Results

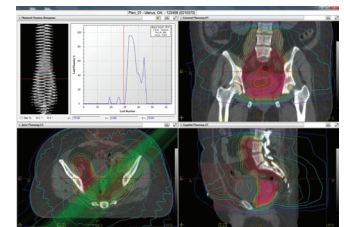


### CIRS Dynamic Platform for Synchrony®

This device, when paired with the Tomo-Phantom HE and fiducial plugs, is used to verify that the system can accurately deliver Synchrony plans. Using this device with the Tomo-Phantom HE enables full end-to-end QA for Synchrony.

### Delivery Analysis™ Software

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. (included with Radixact X9 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 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 installation 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 Beam Analysis 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 Beam Analysis 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 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 Systems. Compatible with all Radixact Systems.</i></p>	<p>Accuray</p>
<p><b>CIRS QA Platform for Synchrony®</b></p> <p>This device is used for QA of the Radixact System with Synchrony. It is intended to be used with the Tomo-Phantom HE.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> <li>• CIRS Dynamic Platform</li> </ul>	<p><b>1067179-000</b></p>	<p>CIRS</p>

Item	Use	Accuracy Purchaseable	I	D	M	Q	A	O	P
Water tank	Beam profiles (transverse, longitudinal, PDD)	Yes	✓				✓	✓	
Beam analysis software	Water tank beam data software	Yes	✓				✓	✓	
Ion chamber	Static output and PDD consistency Beam profiles Completion procedure check, MVCT dose TG-51 calibration	Yes	✓	✓	✓	✓	✓	✓	✓
Large volume ion chamber	y-jaw alignment TQA™ Jaw Sweep - Dynamic Jaws Water tank reference	Yes	✓				✓		
Electrometer	Absolute dose calibration Verifies dose	Yes	✓	✓	✓	✓	✓	✓	✓
Digital barometer	Absolute dose calibration (for ion chamber)	No	✓	✓	✓		✓	✓	
Thermometer	Absolute dose calibration (for ion chamber, diode)	No	✓	✓	✓		✓	✓	
Level	Couch alignment and laser alignment	No	✓		✓		✓		
Survey meter	Radiation surveys	No	✓						
Workstation/laptop	Operation of TEMS and RIT film software	No	✓	✓	✓	✓	✓	✓	✓
Tomo-Phantom HE (Cylindrical water-equivalent "Cheese Phantom")	Output calibration plans CT number calibration Image quality assessment (including average and SD HU in uniform regions) MVCT dose	Included	✓	✓	✓	✓	✓	✓	✓
Density and resolution plug set	CT number calibration Image quality assessment (including low contrast detectability)	Included	✓		✓				
Rectangular water-equivalent stack	Static output and PDD consistency longitudinal profiles build-up (e.g. for film alignment tests)	Included	✓	✓	✓	✓	✓	✓	
Advanced TQA™ Software and Step Wedge	iDMS® calendar-based management of QA activities across one or more systems. Water tank beam analysis (includes aluminum Step Wedge)	Included	✓	✓	✓	✓	✓	✓	
Film (requires RITg148+ or RIT Complete software)	Alignment and profile verification Synchronization films Alignment films	No	✓	✓	✓	✓	✓	✓	✓
Film analysis software (RITg148+)	Analyzing film	Yes	✓		✓	✓	✓	✓	
Film analysis software (RIT Complete)	Analyzing film	Yes	✓		✓	✓	✓	✓	✓

Item	Use	Accuray Purchaseable	I	D	M	Q	A	O	P
Film scanner	Scanning film	Yes	✓		✓	✓	✓	✓	✓
QA array device (Planar or 3D dosimetry)	Static output and PDD consistency Longitudinal and transverse profile consistency <i>Note: Can be done using rectangular water-equivalent stack</i>	No		✓	✓				
Film or QA array device (Planar or 3D dosimetry)	Completion procedure check	No			✓				✓
ScandiDos Delta <sup>4</sup> with HexaMotion Platform (Synchrony® QA)	Synchrony patient QA	No							✓
CIRS Dynamic Platform (Synchrony® QA)	Pair with Tomo-Phantom HE and fiducial plugs for end-to-end QA Synchrony plan verification	Yes	✓						✓
Image QA software	Image quality assessment	No			✓				
Delivery Analysis™ software	Patient plan delivery verification: MLC performance, delivery visualization, 3D dose calculation, results dashboard	Yes (Included with Radixact® X9 System)						✓	

**Please note:** Accuray recommends that quality assurance packages be ordered at least 10 weeks before system acceptance. Third Party Products: Accuray does not support or service products that are identified in the table above as being manufactured by third parties. Such products are designed, tested, and manufactured by such third-party vendors. Accuray makes no representations or warranties, express or implied, with respect to such products.

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

#### 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®**