



AVAILABLE PACKAGES FOR TOMOTHERAPY® SYSTEM QUALITY ASSURANCE

Accuray is pleased to offer quality assurance (QA) packages for the TomoTherapy® System, to support the 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 TomoTherapy Quality Assurance Kit

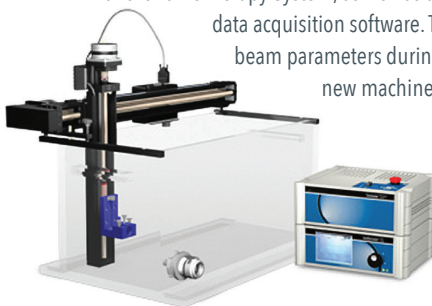
(included with new TomoTherapy Systems) This kit includes phantoms and ion chambers that can be used for routine machine and patient-specific QA tests specified by AAPM Task Group 148 (TG148¹), as well as to create image value-to-density tables for planning and for assessments of MVCT image quality.



TomoTherapy Phantom with Density Plugs (Cheese Phantom)

Beam Measurement & QA Package

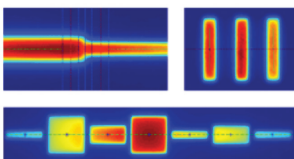
(Water Tank Kit) This package includes a water phantom compatible with the TomoTherapy System, as well as an electrometer and beam data acquisition software. The kit is used to verify beam parameters during commissioning of a new machine and annually thereafter.



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

RITg148+ Film Analysis Software

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

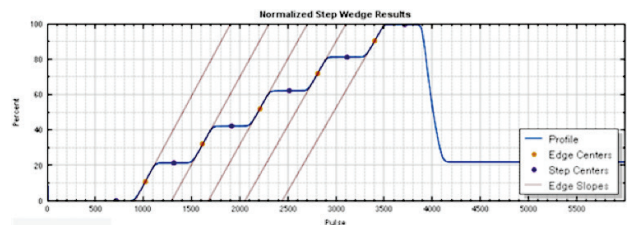


Note: Available with or without film digitizer (see table on next page).

TomoTherapy Quality Assurance (TQA) Total

(included with TomoHDA™ Systems) TQA is a calendar-based tool that streamlines machine QA by providing automated data collection, analysis and trending tools. TQA Total can save significant time; it leverages on-board detectors to allow clinicians to quickly and easily assess the day-to-day consistency of a wide variety of parameters.

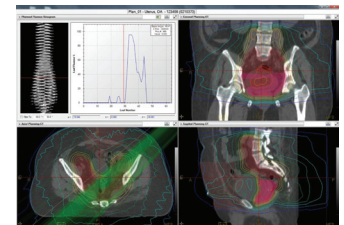
Results	Graphs	Stats	Data		
Alert 1					
Monitor Chamber Output Constancy	101.34	Percent		90	99
No Alert					
Exit Detector Output Constancy	99.049	Percent		90	99
Exit Detector Flatness	0.50172	Percent		-2	-1
Pulse By Pulse Dose1	0.39601	Percent		-2	-2
Pulse By Pulse Exit Detector Average	0.046492	Percent		-2	-2
Pulse By Pulse Cone Variation	0.37585	Percent		-2	-2



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 TomoTherapy Systems.



TomoTherapy®

ADVANCED RADIATION TREATMENTS

¹Langen et al., "QA for helical tomotherapy: Report of the AAPM Task Group 148," Med. Phys. 37(9), 4817-4953 (2010). Available online at http://www.aapm.org/pubs/reports/RPT_148.pdf.

Item	Description	Part Number	Vendor
<p>Standard TomoTherapy® Quality Assurance Kit</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 TomoTherapy Systems.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> • Ion chambers with ADCL calibration <ul style="list-style-type: none"> ◦ Two Exradin A1SL thimble ion chambers ◦ One Exradin A17 CT ion chamber • Virtual Water Phantom (10 blocks total) <ul style="list-style-type: none"> ◦ T55x15x5 cm, no holes (1 block) ◦ 55x15x5 cm, drilled cavity at 1 cm depth for A1SL ion chamber (2 blocks) ◦ 55x15x2 cm, no holes (2 blocks) ◦ 55x15x2 cm, two drilled cavities at 1 cm depth for A1SL ion chamber (1 block) ◦ 55x15x1 cm, no holes (2 blocks) ◦ 55x15x0.5 cm, no holes (2 blocks) • TomoTherapy Phantom (Cheese Phantom) • Density Plugs 	<p>104508-000</p> <p><i>Included with new TomoTherapy Treatment Systems.</i></p>	<p>Standard Imaging</p> <p>Med-Cal</p> <p>Med-Cal Gammex</p>
<p>Beam Measurement & QA Package (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"> • TomoScanner Water Tank (two-dimensional) • TomoElectrometer (8 channels), with ADCL calibration • PC and TEMS software 	<p>H-1006-0000-000</p> <p><i>All sites need a water tank that is compatible with the TomoTherapy System.</i></p>	Standard Imaging
<p>TomoElectrometer with Beam Data Measurement Software</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"> • TomoElectrometer (8 channels), with ADCL calibration • PC and TEMS software 	<p>104940-000</p> <p><i>Any site that does not purchase the above water tank should purchase this item.</i></p>	Standard Imaging
<p>RITg148+ Software License with Vidar DosimetryPro® Advantage Digitizer</p> <p>Routine machine QA requires the use of film. This kit includes both film analysis software and a digitizer.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> • RITg148+ software license • Vidar DosimetryPro® Advantage Digitizer <p><i>Note: A PC is not included; the software license may be installed on any PC meeting the minimum system requirements (see www.radimage.com).</i></p>	<p>1047523-000</p> <p><i>Strongly recommend purchase of either 1047523-000 or 1047524-000 for each clinical site.</i></p>	RIT
<p>RITg148+ Software License</p> <p>Routine machine QA requires the use of film. This kit includes only film analysis software; it is intended for sites that already have a film digitizer they plan to use.</p>	<p>Includes a RITg148+ software license that may be installed on any PC meeting the minimum system requirements (see www.radimage.com).</p> <p><i>Note: A PC is not included.</i></p>	<p>1047524-000</p>	RIT
<p>TQA™ Total Package</p> <p>Simplified machine QA via calendar-based tool. In addition to the modules standard with TQA Essentials, TQA Total includes: Daily QA, IEC-x & IEC-y Beam Alignment, Field Width, Dynamic Field Width, Static Step Wedge, Helical Step Wedge and Dynamic Jaw Sweep modules.</p>	<p>Includes the following:</p> <ul style="list-style-type: none"> • TQA Total software license • Aluminum Step Wedge Phantom <p><i>Note: Must have either H-1006-000-000 or 104940-000 in order to use all of the QA modules included with TQA Total Package.</i></p>	<p>102837-000</p> <p><i>Included with new TomoHDA™ Treatment Systems. Recommended for all TomoTherapy Systems.</i></p>	Accuray
<p>Delivery Analysis™</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"> • Delivery Analysis Software • Delivery Analysis Workstation <p><i>Note: Compatible with H™ Series software version 2.0.5 and higher (Hi-Art® 5.0.5 and higher).</i></p>	<p>1033485-000</p> <p><i>Compatible with all TomoTherapy Systems at an appropriate software version.</i></p>	Accuray

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 TomoTherapy System acceptance.

PRECISION MATTERS

For more information, please contact your Accuray sales representative.

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ADVANCED RADIATION TREATMENTS