ANNUAL QA

YOU NO LONGER HAVE TO CHOOSE BETWEEN QUALITY AND EASE OF USE

DOSEVIEW™ 3D
BETTER HARDWARE & SOFTWARE, BETTER DATA
Robust hardware with easy-to-use software for superior beam commissioning and quality assurance measurements.

Making sure your patients have great treatments begins with a fine tuned linac, and that starts with the DoseView 3D. It isn’t just another water phantom.

The foundation for reliable data is built upon precision manufacturing. The hardware achieves 0.1 mm accuracy in 3 axis, so fewer post-scan corrections need to be applied.

With a firm purchase on superb hardware, the software has been designed with speed in mind to get you set up and ready to scan within 15 minutes. The intuitive software has been optimized for commissioning, so you can get back to doing what you love.

“THE DoseView 3D is an outstanding scanning tank. Setup is simple and easy. Hopefully you are only using your scanning tank once a year. DV3D has made the set up so simple that after 12 months of not using the tank it still feels familiar.”

BEN ROBISON
MEDICAL PHYSICIST
PROVISION RADIATION THERAPY
ANNUAL QA

BETTER HARDWARE

STRENGTH IN SIMPLICITY
Manufactured with a rigid, one-piece cast aluminum frame and stainless steel leadscrews, the DoseView 3D provides a durable platform for repeated QA testing. This construction ensures consistent measurement accuracy within ±0.1 mm per axis.

THE EASIEST WAY TO LEVEL
The DoseView 3D’s three leveling screws are mounted above the phantom’s scanning volume, making it easy to fine-tune leveling even when the phantom is filled with water.

ONE CORD, FASTER SETUP, BETTER DATA
A fast-acquisition electrometer and motion controller are mounted on board the DoseView 3D, reducing the length of detector cables required for testing. This lessens settling time and opportunity for cable leakage, streamlining setup. Only one cord is needed to power the entire phantom.

CONVENIENT, WIRELESS PENDANT
The wireless pendant allows for easy operation. The pendant’s audible and visual cues and backlit display makes configuring and controlling the DoseView 3D a straightforward process for any user. Fine-tune positioning with 0.1 mm per-press step mode.

DURABLE, UNBELIEVABLY ACCURATE MOTORS
The DoseView 3D’s 5 stepper motors maintain superior precision over the phantom’s lifetime, minimizing degradation even after 30,000 repetitions.

REFERENCE DETECTOR HOLDER
This modular detector holder can be used in 3 length configurations to accommodate a wide range of field sizes. A carbon fiber support tube prevents reference detector vibration during scanning.

WWW.STANDARDIMAGING.COM // +1 608 831 0025
**HIGH-SPEED ELECTROMETER**

The DoseView 3D Electrometer is a dual-channel, fast-acquisition electrometer that continues Standard Imaging’s renowned reputation for precision and efficiency. Bias voltage can be enabled independently per channel for chamber/diode simultaneous operation. Low noise performance helps ensure post-processing operations are kept to a minimum.

**ACCURATE, RELIABLE EXRADIN ION CHAMBERS**

For over 35 years, Exradin’s quality has been recognized by the top research institutes and standard laboratories in the world. The DoseView 3D comes with two Exradin A28 Ion Chambers (0.125cc), producing sustained accuracy and confidence in your QA testing.

**EXPEDITED ACCURATE SET UP**

The Automatic Detector Alignment System places the center of all detectors at the same position relative to the water’s surface, allowing users to swap detectors without resetting isocenter/origins. Initial setup is performed with the crosshair alignment jig which provides ample surface area and fiducials to aid in matching to the ODI and/or room lasers. This bracket system is compatible with Exradin Ion Chambers and supports chambers and diodes from most other manufacturers. This system ensures faster setup time and provides confidence in accurate leveling and beam center positioning.

**VARIABLE STEP SIZE ACQUISITION**

The DoseView 3D can be programmed to move in varying step sizes throughout a scan. Implement tighter steps toward the penumbra to account for increased variability without significantly increasing overall scan time.

**AUTOMATICALLY FIND BEAM CENTER**

Once leveling is performed, the DoseView 3D determines the center of a radiation field by locating the field edges using an ion chamber or diode. This test can be performed at multiple depths to identify any issues with system leveling and/or gantry alignment.
INCREIBLE, ALL NEW SOFTWARE DESIGN
THE EASIEST, MOST INTUITIVE WATER PHANTOM SOFTWARE AVAILABLE

- Import scans from your previous water scanning systems for comparison & continuity.
- Accuracy of system setup is confirmed with automatic checks that ensure detector centering and gantry angle positioning.
- Scan queue setup and measurement is automated eliminating repetitive tasks and saving time.
- Scan speed and step size automatically optimized according to dose rate.
- Guided beam scanning performing next sequential group of measurements in queue.
- SmartSelect detects scans outside queue parameters and automatically deselects them.
- Simple, yet powerful scan queue creation and editing.
- Easy export to TPS and CSV

QUEUES
A queue creation wizard helps you choose your scanning modality (photons, electrons or flattening filter free photons), modifiers, energies, field sizes and scan types. All combinations of your choices are created. No copying and editing individual scan groups. Make your scan queues in a matter of minutes…or less. Continuous scanning and multiple scan zones are available at no extra cost.

SETUP
The Measure page has a setup wizard that takes you through the process of getting your tank ready to use. When all expander title bars have results in blue, you are ready to scan.

MEASURE
Scan queues are loaded into a queue runner. As scan data is acquired, it is immediately stored in a database for future access, analysis, and export. Raw scan data and the methods used to modify it are stored in the database, so you always know what your raw data looked like and always know how you processed it for your needs.

ANALYZE
Comprehensive scan processing and analysis tools include profile centering, mirroring, symmetric averaging, shifting & normalization of profiles & depth doses, smoothing with boxcar & gaussian filters, and dose conversion using TG-51 and TRS-398.
FULLY INTEGRATED WITH LIFT AND RESERVOIR IN ONE
The DoseView 3D’s cart contains both an electronic lift mechanism and 60 gallon (265 liter) water reservoir, resulting in hassle-free storage and setup. Additionally, a convenient storage area holds the power supply and other accessories. The lift and pump are powered by a single power cable, and a power pass-through cable allows convenient connection to the water phantom.

EXTENSIVE ADJUSTMENTS CAPABILITIES
The Precision Positioning Platform provides an ideal medium for maneuvering the DoseView 3D. This added flexibility allows subtle X and Y axis movements up to ±12.5mm, phantom rotation of ±1° and positive engagement at 10°, 45°, and 90° intervals. Achieve consistent detector orientation during in-plane, cross plane and diagonal scans.

EFFICIENCY LIFT CART
An alternate, portable lift cart is also available. The electric lift table has a capacity of 900 pounds and is capable of over 15 inches of vertical travel.

24/7 SUPPORT
Standard Imaging’s acclaimed customer service and support ensures an easy transition of the DoseView 3D into your QA workflow and will guide you through any issues that may arise in the future. Standard Imaging also provides 24/7 phone support for DoseView 3D in USA.

DOSEVIEW 3D SPECIFICATIONS

<table>
<thead>
<tr>
<th>Motion Control System</th>
<th>Travel Speed — 50 mm/s // Positioning Accuracy — ± 0.1 mm per axis // Positioning Repeatability — ± 0.1 mm per axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Communication — Wireless or wired via RS-232 // Control Method — Onboard controls, PC or via wireless pendant</td>
<td></td>
</tr>
<tr>
<td>Water Phantom (acrylic tank only)</td>
<td>Outer Dimensions — [ length × width × height ] 704 mm x 693 mm x 570 mm</td>
</tr>
<tr>
<td>Scanning Dimensions — [ length × width × height ] 500 mm x 500 mm x 410 mm</td>
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<tr>
<td>Wall Thickness — 12 mm // Replaceable Fill/Drain Port</td>
<td></td>
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<tr>
<td>Lift Cart and Reservoir</td>
<td>Outer Dimensions — [ length × width ] 1247 mm x 762 mm // Vertical Range — 685 mm – 1185 mm (tank base to floor)</td>
</tr>
<tr>
<td>Water Pump — Electric fill, gravity drain // Water Capacity — 60 gal (227 liters)</td>
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<tr>
<td>Fill Speed — 6-7 min // Drain Speed — 16-20 min</td>
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</tbody>
</table>

DOSEVIEW 3D ELECTROMETER

| Channels — 2 // Bias Voltage — 0, ±150 to 450 (VDC) in 50 volt increments // Range — 2 pC – 999,999 nC |
| Resolution — 10 fC // Connector Type — Triaxial BNC or TNC (BNC unless specified) |

DOSEVIEW 3D SOFTWARE: SYSTEM REQUIREMENTS

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Windows® 7 Professional (SP1), 64-bit Recommended Windows 10 Professional, 64-bit Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Runtime Environment — NET 4.5.2 // Processor — Dual Core, 1 GHz; Quad Core, 2 GHz Recommended</td>
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<tr>
<td>Memory — 32-bit OS: 2 GB, 4 GB Recommended 64-bit OS: 4 GB, 8 GB Recommended</td>
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<tr>
<td>Hard Drive — 1 GB free space for initial software installation. Typically 2.5 MB/year/linac disk space growth. 35% free space Recommended</td>
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</tr>
<tr>
<td>Screen Resolution — 1440 x 900 or greater // CD-ROM Drive — 2x speed or greater</td>
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</tr>
<tr>
<td>Connectivity — 9-pin serial RS-232 port or USB port with USB to RS-232 adapter</td>
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</tr>
</tbody>
</table>

Specifications subject to change without notice.
DoseView 3D REF 92260, DoseView 3D Lift and Reservoir Cart REF 72260