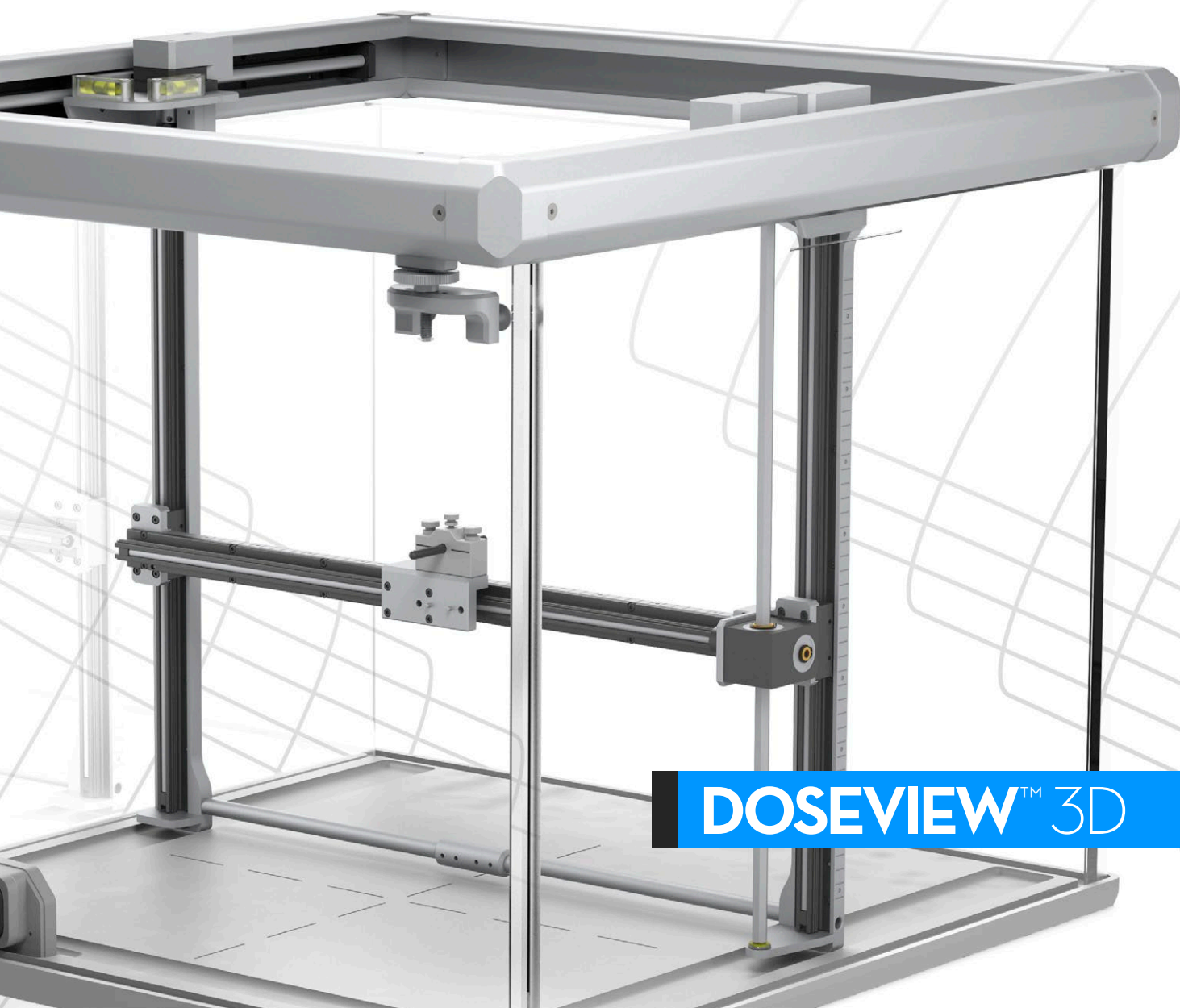


STANDARD IMAGING®



ANNUAL QA

PRECISE, EFFICIENT AND
BUILT FOR THE FUTURE



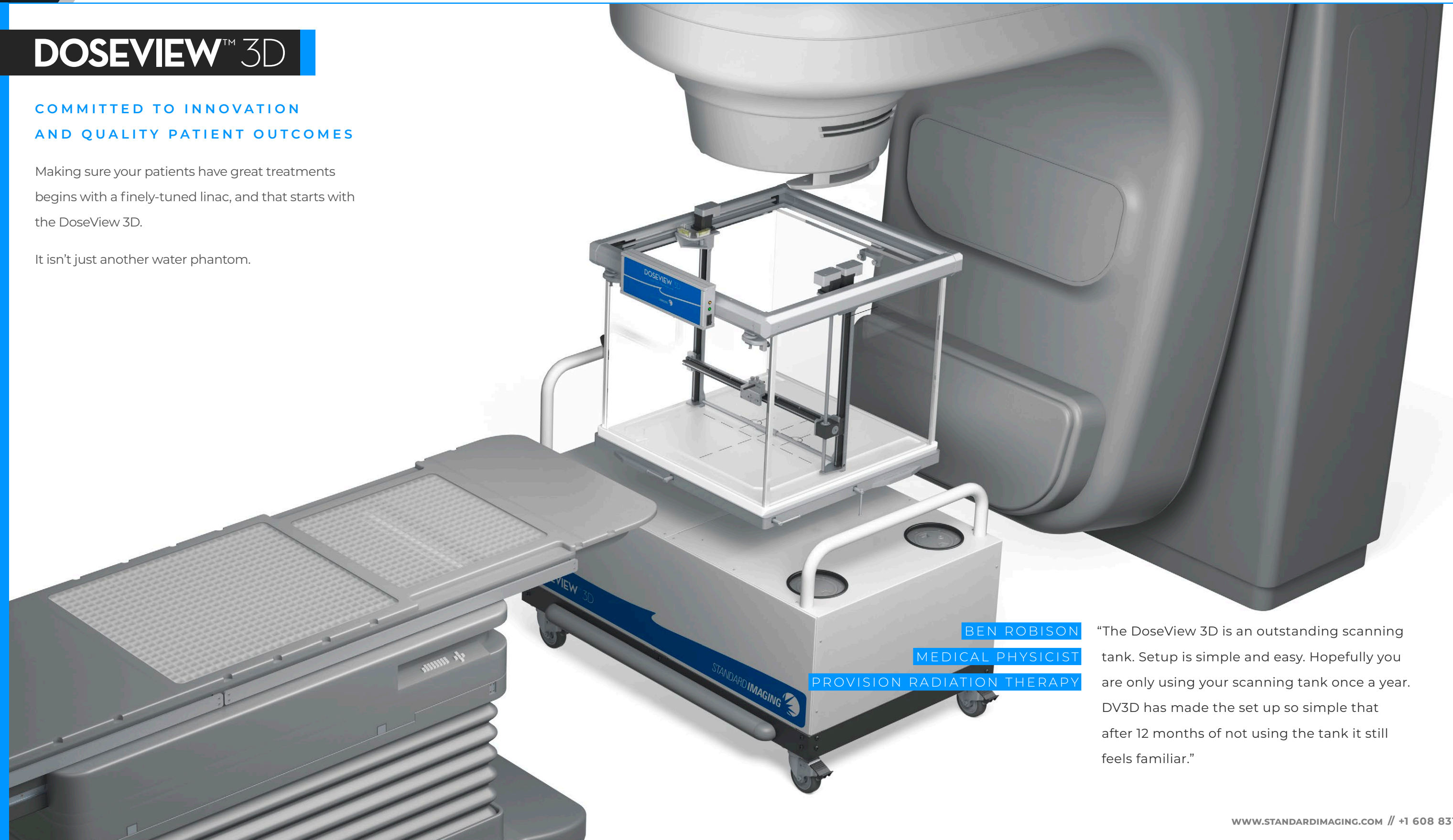
DOSEVIEW™ 3D

DOSEVIEW™ 3D

COMMITTED TO INNOVATION
AND QUALITY PATIENT OUTCOMES

Making sure your patients have great treatments begins with a finely-tuned linac, and that starts with the DoseView 3D.

It isn't just another water phantom.



BEN ROBISON
MEDICAL PHYSICIST
PROVISION RADIATION THERAPY

“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.”

BETTER HARDWARE

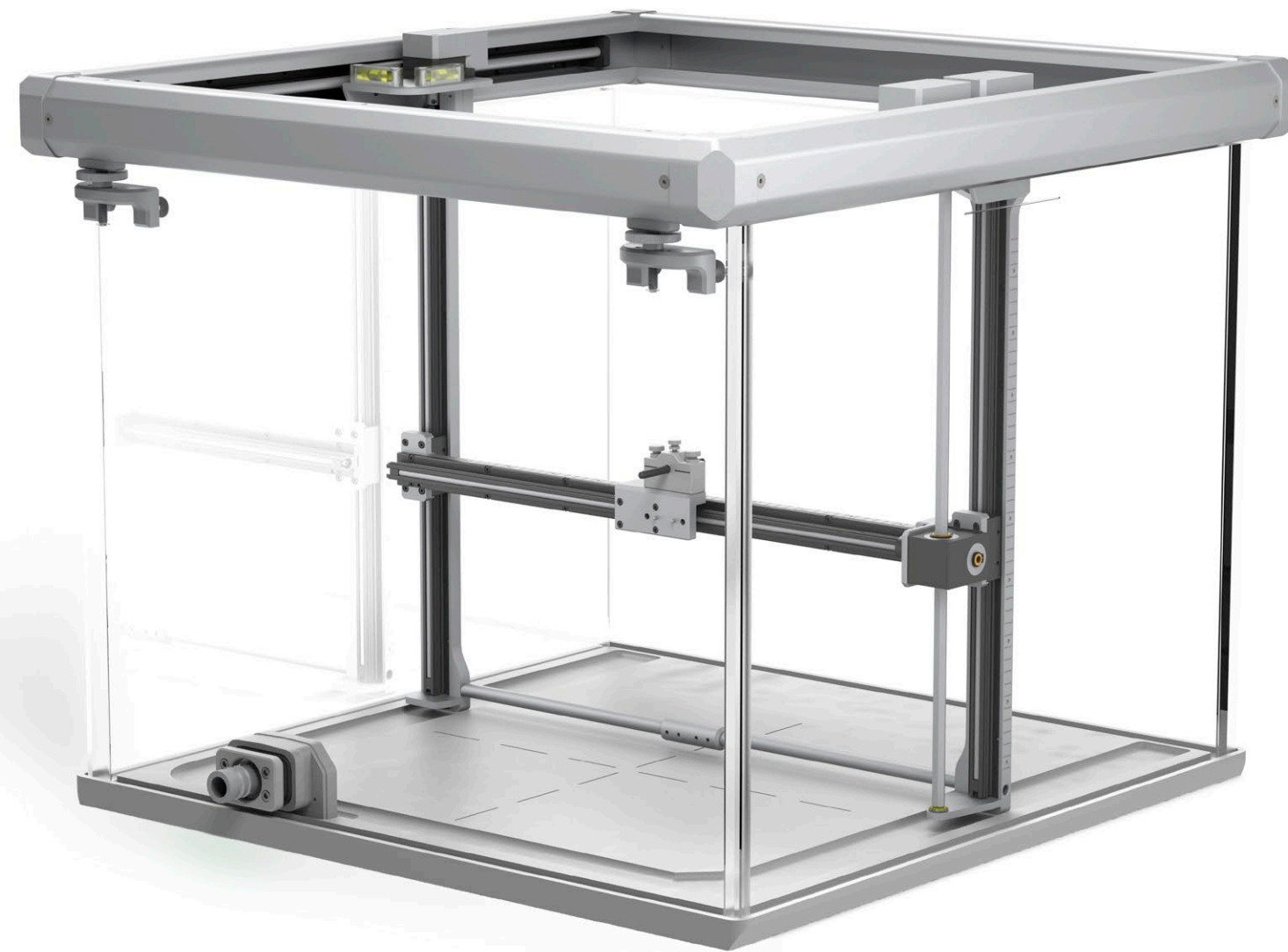
ROBUST CONSTRUCTION PROVIDES THE FOUNDATION FOR BETTER DATA

STRONG

Manufactured with a rigid, aluminum frame and stainless steel leadscrews, the DoseView 3D provides a consistent platform for repeated QA testing. Meticulous construction ensures consistent measurement accuracy within ± 0.1 mm per axis.

ACCURATE

The Cartesian coordinate system and ability to set isocenter to any point within the tank avoids rotational errors possible with cylindrical tanks.



CONVENIENT

The wireless pendant with audible and visual cues and a backlit display make configuring and controlling the DoseView 3D easy to perform and remember.

EASY

Three leveling screws are mounted above the phantom's scanning volume, making it easy to fine-tune even when the phantom is filled with water.

AUTOMATIC DETECTOR ALIGNMENT SYSTEM

Swap detectors without resetting isocenter/origin with the Detector Alignment System. The system aligns the center of each detector.

BUILT FOR ACCURACY

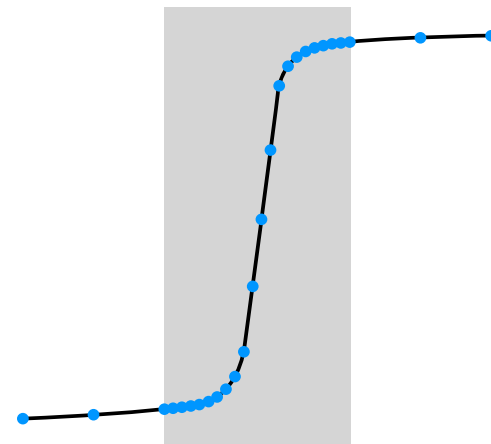


HIGH-SPEED ELECTROMETER

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

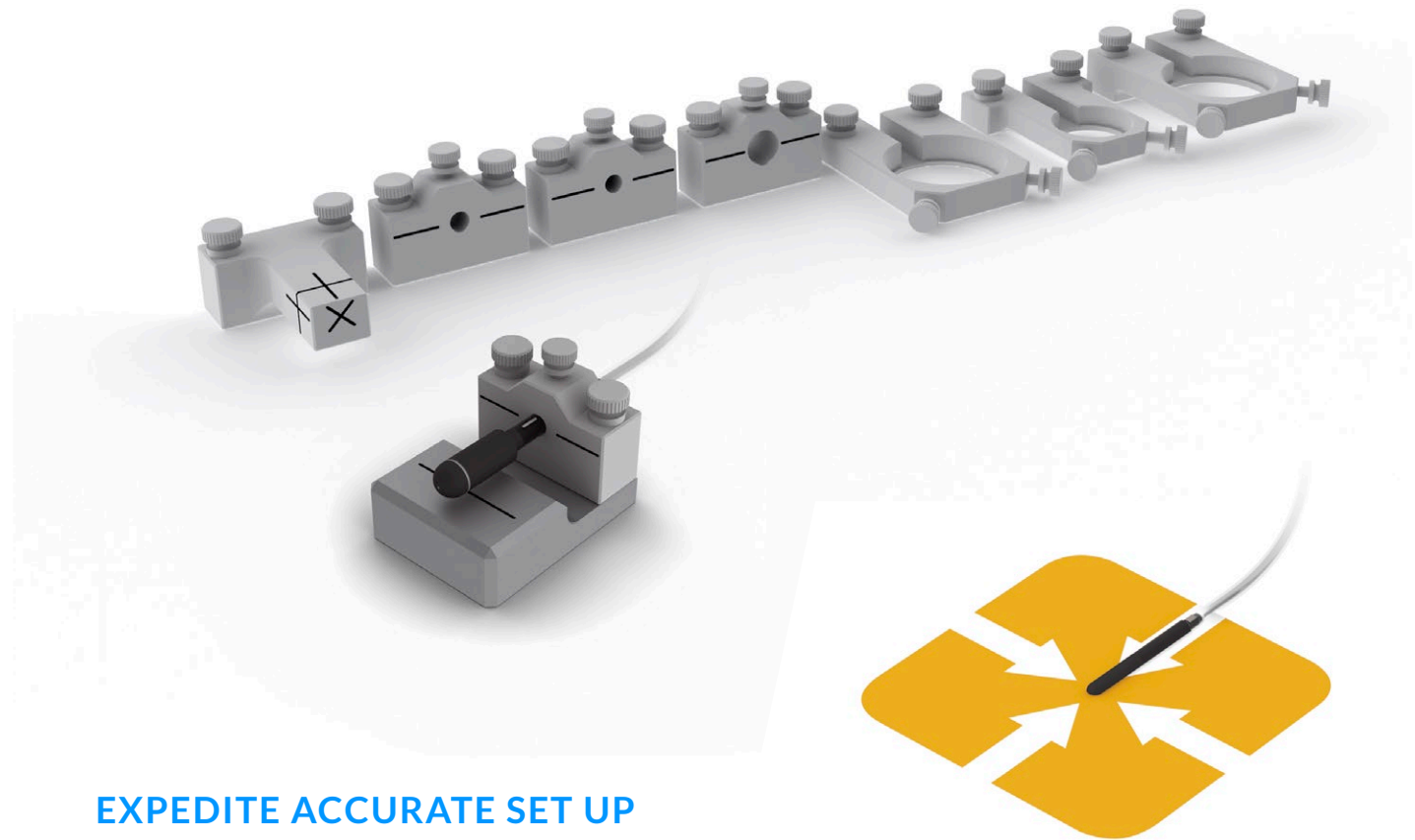
For over 40 years, Exradin's quality has been recognized by the top research institutes and standards laboratories around the world. The DoseView 3D comes with two Exradin A28 Ion Chambers (0.125cc), producing sustained accuracy and confidence in your QA testing.



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.

TIME SAVING FEATURES



EXPEDITE 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. 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.

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.

INCREDIBLE, ALL NEW SOFTWARE DESIGN

THE EASIEST, MOST INTUITIVE WATER PHANTOM SOFTWARE AVAILABLE

- A wireless connection to the hardware provides easy & convenient control
- 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.

Add Queue

General 6x Annual Scans, Scans, Water, Jaws	Complete
Energies 6 MV	Complete
Field Sizes 20 x 20, 10 x 10, 5 x 5	Complete
Scan Types CrossPlane, InPlane, Depth	Complete
Depths	Not Set
CAX Offsets	Not Set
Scan Mode	Complete

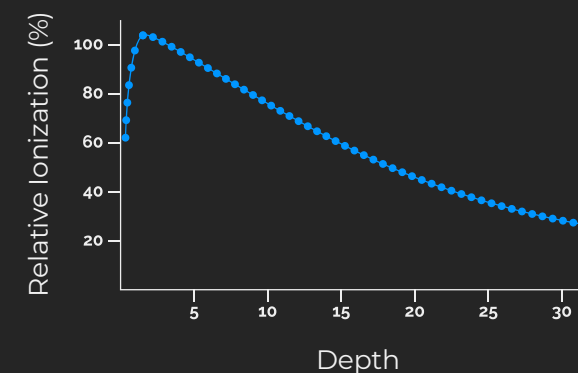
SETUP

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.

Hardware	Queue
Machine	SI Irradiator, 80, 80
Dose Rates	Configured
Water Phantom	Ready
<input type="button" value="DEMO"/> <input type="button" value="Connect"/> <input type="button" value="Initialize"/>	
Detectors	Exradin A28, Exradin A4
Field:	Exradin A28
Reference:	Exradin A4
<input type="checkbox"/> Do not use a reference detector	
Electrometer	Field: --, Ref: --
Position	CP: 0.00 cm, IP: 0.00 cm, Depth: 0.00 cm
Phantom Orientation	Controller Right

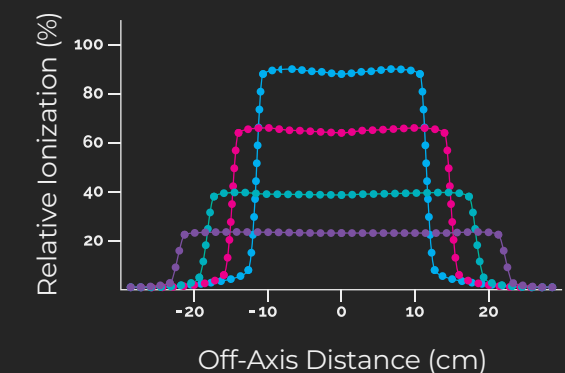
MEASURE

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.



LIFT AND RESERVOIR CARTS

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 $\pm 12.5\text{mm}$, phantom rotation of $\pm 1^\circ$ 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.

For more information on warranties and additional maintenance and support packages please contact your Standard Imaging Account Manager or regional distributor.

DOSEVIEW 3D SPECIFICATIONS

MOTION CONTROL SYSTEM

TRAVEL SPEED — 50 mm/s // **POSITIONING ACCURACY** — ± 0.1 mm per axis // **POSITIONING REPEATABILITY** — ± 0.1 mm per axis
PC COMMUNICATION — Wireless or wired via RS-232 // **CONTROL METHOD** — PC or via wireless pendant

WATER PHANTOM (ACRYLIC TANK ONLY)

OUTER DIMENSIONS — [length x width x height] 683 mm x 692 mm x 542 mm
SCANNING DIMENSIONS — [length x width x height] 480 mm x 480 mm x 410 mm
WALL THICKNESS — 19 mm // Replaceable Fill/Drain Port

LIFT CART AND RESERVOIR

OUTER DIMENSIONS — [length x width] 1247 mm x 762 mm // **VERTICAL RANGE** — 685 mm – 1185 mm (tank base to floor)
WATER PUMP — Electric fill, gravity drain // **WATER CAPACITY** — 60 gal (227 liters)
FILL SPEED — 6-7 min // **DRAIN SPEED** — 16-20 min

PRECISION POSITIONING PLATFORM

X / Y FINE ADJUSTMENT — ± 12.5 mm // **FINE ROTATIONAL ADJUSTMENT** — $\pm 1^\circ$
DISCREET ENGAGEMENT — 10° , 45° , and 90° intervals

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)

SOFTWARE/COMPUTER REQUIREMENTS

OPERATING SYSTEM — Windows® 10 Professional, 64-bit Recommended
RUNTIME ENVIRONMENT — .NET 4.5.2 // **PROCESSOR** — Dual Core, 1 GHz; Quad Core, 2 GHz Recommended
MEMORY — 32-bit OS: 2 GB, 4 GB Recommended 64-bit OS: 4 GB, 8 GB Recommended
HARD DRIVE — 1 GB free space for initial software installation. Typically 2.5 MB/Year/Linac disk space growth. 25% free space Recommended.
SCREEN RESOLUTION — 1440 x 900 or greater // **CD-ROM DRIVE** — 2X speed or greater
CONNECTIVITY — 9-pin serial RS-232 port or USB port with USB to RS-232 adapter

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Specifications subject to change without notice.

DoseView 3D REF 92260, DoseView 3D Lift and Reservoir Cart REF 72260

ANNUAL QA

STANDARD IMAGING



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