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At Standard Imaging we strive to produce the most precise and practical quality assurance tools available to medical physicists. Our previous ventures into dosimetry equipment, Exradin Ion Chambers, the MAX 4000 and SuperMAX electrometers and 1D Water Scanning System, have built upon this ideal by integrating convenient, automated features into 3D water scanning to save you time and improve data quality.

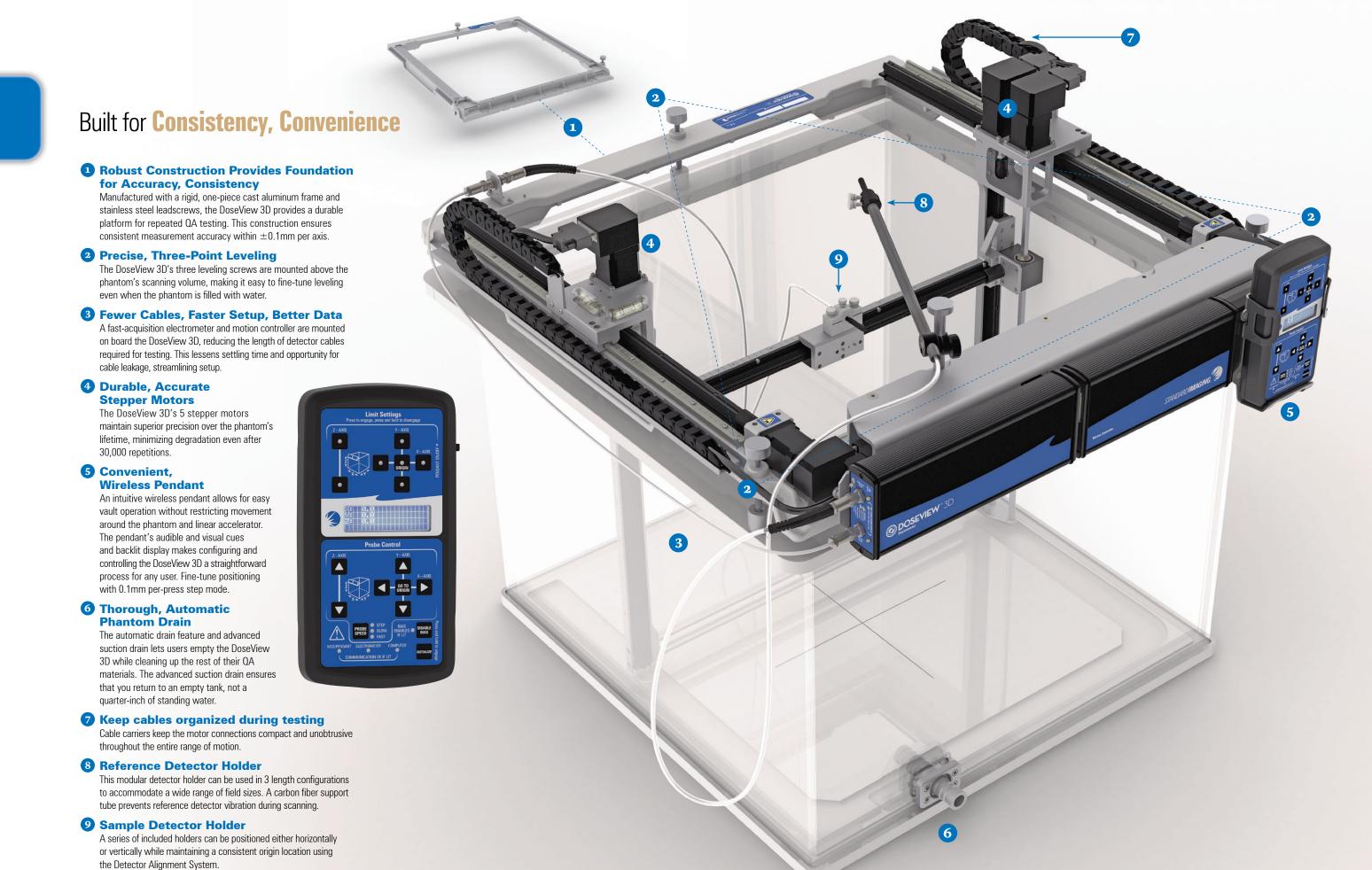
The DoseView 3D continues this legacy, providing customers with the quality and integrity they demand, at a price that won't strain their budget. Built for sustained durability, the DoseView 3D's single piece robust frame and reliable components maintain accuracy even after thousands of repetitions. The Lift and Reservoir Cart, with automatic fill and drain functionality and a variety of precision positioning features, aids in hassle-free setup, use and storage of the phantom.

Further increasing efficiency, before and during scans, is the DoseView 3D's intuitive software. The ability to export data to a variety of treatment planning systems, programmable automatic acquisition scan queuing and a suite of data processing tools are just a few features that facilitate scanning for both novice and expert users.

When coupled with Standard Imaging's renowned customer service and support, the DoseView 3D enhances and expedites our customers' QA testing and commissioning processes.

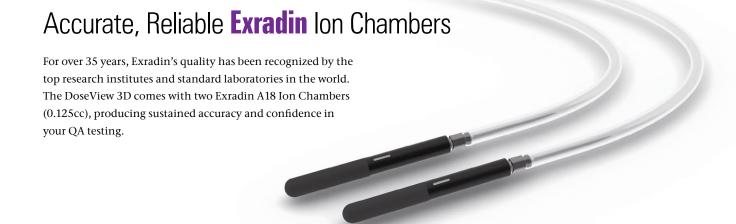
Wireless PC Communication

Communicate wirelessly with the DoseView 3D once a standard serial cable is run into the vault. **The only direct connection needed to the phantom is a power cable.**





and efficiency. Bias voltage can be enabled independently per channel for chamber/diode simultaneous operation. Mounted on board the phantom, this electrometer can also be positioned in a separate location per the user's convenience. Low noise performance helps ensure post-processing operations are kept to a minimum.



Time Saving Features

Expedite accurate set up with the Detector Alignment System

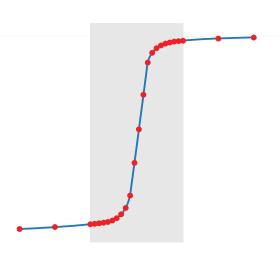
Innovative detector-holder system places the center of all detectors at the same position relative to the water's surface, allowing users to swap detectors without resetting isocenter/origins. Initial setup is performed with the crosshair alignment jig which provides ample surface area and fiducials 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.

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.

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.



More resolution in high gradient region

Prompt, precise measurements Intuitive setup and scan features

Easy to Use Software Modules



Scan Acquisition

- Setup wizard guides users through data acquisition in an easy to learn, step-by-step progression. Manual setup offers flexibility for more detailed control of scans
- 2 Prior to setup, create a set of scan routines in Auto Acquisition mode and save them for use in later testing. Scan sets can be implemented and organized on a TPS or custom basis to streamline commissioning and QA procedures.
- 3 Acquire depth dose and profile data in single setup operation
- 4 Resume scans and preserve data, even if the beam shuts off
- 4 Auto sampling and minimal range selection takes the guesswork out of electrometer setup

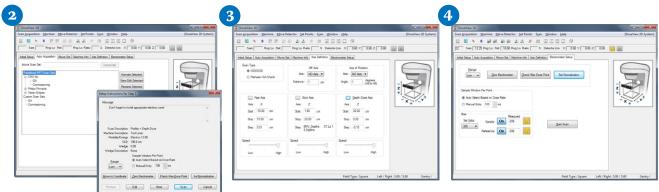
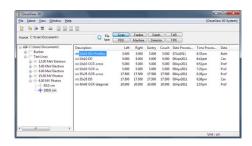




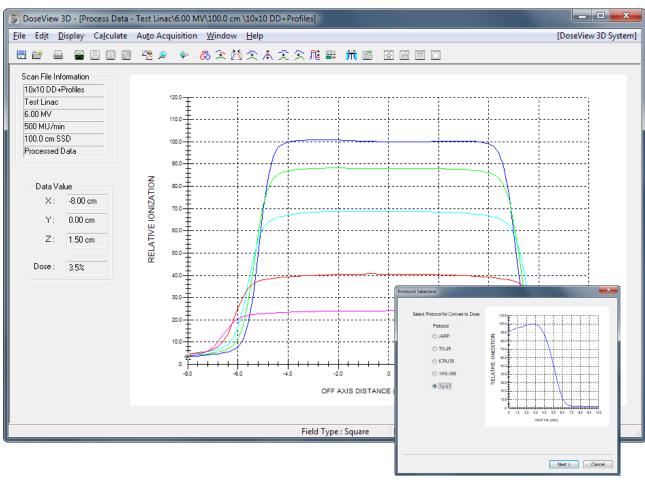
Table Generation

Quickly create PDD, TAR and TPR/TMR data tables for printing or exporting, using CAX data acquired from the DoseView 3D or manually entered values.



Database Management

Facilitates browsing, editing, re-organization and printing of existing scan files, making pertinent data readily available. Scan data is stored in a hierarchy of machine \rightarrow energy \rightarrow SSD so specific files are always easy to find.



The Convert to Dose module supports most current US and international dose conversion protocols including TG-51 and TRS-398

Scan Processing

The Scan Processing Module features a comprehensive suite of tools facilitating data manipulation, including:

- Mirror Data: Replace one half of a profile with a mirrored copy of the other half
- Average Data: Average scan points at equal distances from the central axis
- Concatenate Data: Combine two half scans together to form large profiles
- Smooth Data: A suite of algorithms allows removal of unwanted noise or anomalies from a scan file
- Point Edit: Edit the relative dose level of any point in a profile or CAX scan
- Profile Center: Re-center profile data based on the data on either side of the central axis
- Surface Shift: Shift the Z-axis of profile and/or CAX data ±3 cm for effective point of measurement corrections

- Normalize Data: Re-normalize data to a specific point or global maximum
- DoseView 3D always preserves raw measurements, ensuring no valuable data is accidentally overwritten

Treatment Planning System Export

Transition scan data to a variety of treatment planning systems, including:

- Varian Eclipse
- Philips Pinnacle
- CMS XiO

All supported TPS systems are included at no additional charge.

er-friendly software interface Simple data processing and export

Lift and Reservoir Cart, Precision Positioning Platform

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.



Automatic tank-fill and tank-drain functionality allows users to prep the DoseView 3D while taking care of other setup tasks. The water phantom's advanced suction drain ensures that the tank is thoroughly drained upon completion of testing.

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 ± 12.5 mm, phantom rotation of $\pm 1^{\circ}$ and positive engagement at 10° , 45° and

Achieve consistent detector orientation during in-plane, cross plane and diagonal scans.

90° intervals.





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.

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

Visit www.standardimaging.com or call 800-261-4446 for more details.

		DAGEVIEW CD	D F O I F I O A T	10 110	
		DOSEVIEW 3D S	SPECIFICAT	IONS	
MOTION CONTROL SYSTEM			DOSEVIEW 3D ELECTROMETER		
Measurement Speed	25 mm/s		Channels	2	
Positioning Accuracy ± 0.1 mm per axis		Bias Voltage	0, ± 150 to 450 (VDC) in 50 volt increments		
Positioning Repeatability ± 0.1 mm		m per axis	Range	2 pC – 999,999 nC	
PC Communication	Wireless	or wired via RS-232	Resolution	10 fC	
Control Method	Onboard controls, PC or via wireless pendant		Connector Type	Triaxial BNC or TNC	
WATER PHANTOM (ACRYLIC TANK ONLY)			EXRADIN A18 ION CHAMBER		
Outer Dimensions	[LENGTH × WIDTH × HEIGHT]	704 mm x 693 mm x 570 mm	Collecting Volume		0.125 cc
Scanning Dimensions	[LENGTH × WIDTH × HEIGHT]	500 mm x 500 mm x 410 mm	Centroid of Collecting	Volume	4.9 mm from tip of chamber
Wall Thickness	12 mm		Collector Diameter		1.0 mm
Other	Replaceable Fill/Drain Port		Outside Diameter of Sensitive Region 6.9 mm		
Uther			Nominal Inherent Leal	kage Currents	$< 10^{-15} A$
LIFT CART AND RESERVOIR		Shell, Collector, Guard	Material	Shonka air-equivalent plastic C552	
Outer Dimensions	[LENGTH × WIDTH] 1247 mm x 762 mm		Waterproof		Yes
Vertical Range	685 mm – 1185 mm (t	ank base to floor)	DOSEVIEW 3D SOFTW	EVIEW 3D SOFTWARE	
Water Pump	Electric fill, gravity drain		System Requirements		
Water Capacity	60 gal (227 liters)		Operating System	Microsoft® Windows® XP SP3 or greater, Microsoft Windows Vista® SP2 or greater, Microsoft Windows 7, 32 and 64 bit	
Fill Speed	6-7 min				
Drain Speed	16-20 min		Processor	Intel® or AMD®, 350 MHz or greater	
PRECISION POSITIONING PLATFORM			Memory	256 MB or greater	
X/Y Fine Adjustment ±12.5 mm		Hard Drive	30 MB or greater		
Fine rotational adjustment ±1°		Screen Resolution	1024 x 768 or greater		
· · · · · · · · · · · · · · · · · · ·		CD-ROM Drive	2X speed or greater		
Discreet engagement	10-, 45-,	, and 90 intervals	Connectivity		RS-232 port or th USB to RS-232 adapter

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DoseView 3D RFF 92260. DoseView 3D Lift and Reservoir Cart RFF 72260.