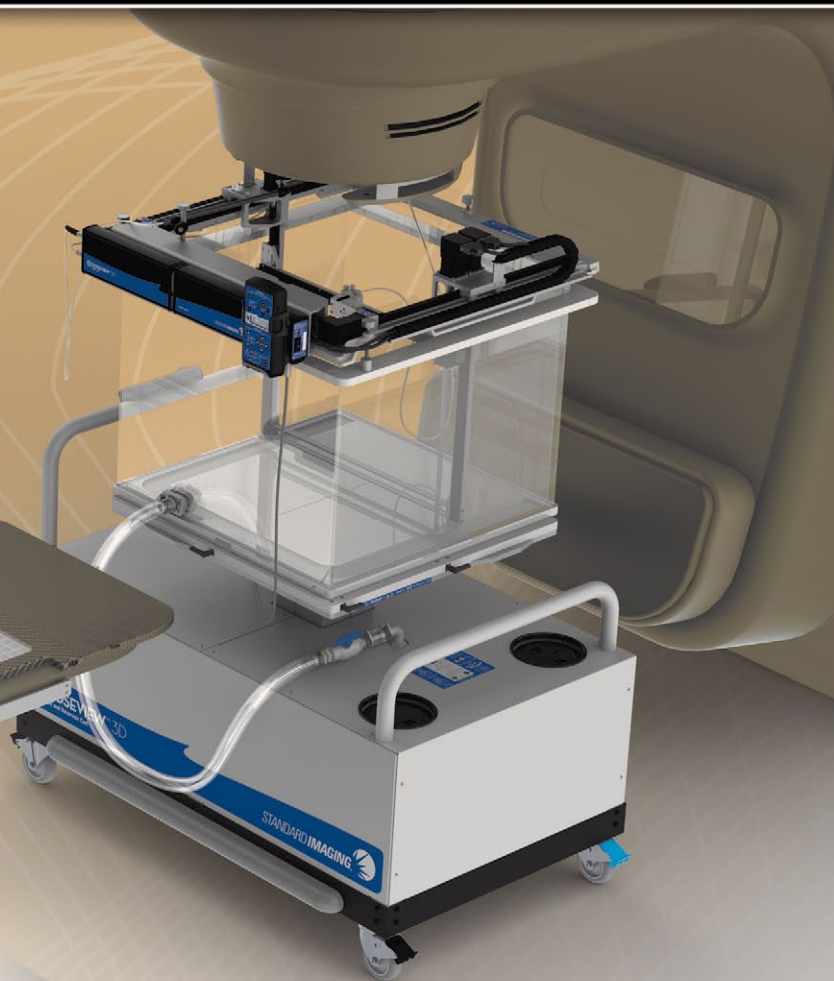




PROVEN TECHNOLOGY IMPROVED

The DoseView 3D is a new 3-axis water phantom for performing comprehensive linear accelerator beam commissioning and quality assurance measurements quickly, accurately and intuitively.



● WIRELESS, HASSLE-FREE SET-UP

A wireless control pendant, with audible and visual cues and backlit display, allows for straightforward vault operation without restricting movement around the phantom. Only one power cord is needed for operation.

● FULLY-INTEGRATED LIFT AND RESERVOIR CART

60 gallon (227 liter) reservoir with automatic fill and drain functionality and Precision Positioning Platform result in hassle-free storage, setup and superior fine adjustment capabilities.

● AUTOMATIC DETECTOR ALIGNMENT SYSTEM

Detector Alignment System places the center of detectors at the same position relative to the water's surface, letting users to swap detectors without resetting isocenter/origin.

● FAST, ACCURATE MEASUREMENT AND DATA ACQUISITION

On-board, high resolution electrometer allows for independent bias voltage per channel for simultaneous chamber/diode operation.

● POWERFUL & EASY SCAN ACQUISITION

Variable step-size acquisition, automatic location of beam center and step-by-step wizard operation makes the DoseView 3D a powerfully easy platform for any operator, novice or expert.

● SCAN PROCESSING AND TREATMENT PLANNING SYSTEM EXPORT

The Scan Processing Module features a comprehensive suite of tools facilitating data manipulation using a wide range of standard protocols. Transition scan data to a variety of treatment planning systems, including:

- Varian Eclipse
- Philips Pinnacle
- Elekta XiO
- Elekta Monaco
- Prowess Panther
- Elekta Oncentra

All supported TPS systems are included at no additional charge.



Features and Benefits

Water Tank and Motion Control System

- Dual motors on Y and Z axes ensure rigidity and prevent cantilever motion.
- A rigid, one-piece cast aluminum frame and stainless steel leadscrews provide a durable, consistent platform for repeated QA testing.
- Innovative Detector Alignment System allows chambers/diodes to be swapped without isocenter/origin realignment.

DoseView 3D Software

- Wizard offers step-by-step data acquisition, while manual setup provides flexibility for more detailed control of scans.
- Generate scan routines in Auto Acquisition mode and save them for later use.
- Automatically determine central axis using beam field edges.
- Fully manipulate scan data with a comprehensive toolset.
- Seamless export to treatment planning systems with all supported formats included.

DoseView 3D Dual Channel Electrometer

- Low noise electrometer designed for high speed acquisition.
- Simultaneous chamber/diode operation with independent bias voltage per channel.
- Optional detachment from frame.

Fully Integrated Lift and Reservoir Cart

- Precision Positioning Platform allows for fine adjustment in X and Y directions, ± 12.5 mm, rotational adjustments of $\pm 1^\circ$ and discreet engagement at 10° , 45° and 90° .
- Convenient storage area holds power supply and user manual.

Wireless Pendant

- Move probe at three speeds: fast, slow and 0.1 mm step per button press.
- Set "soft stops" to determine origin and scan volume limits.
- Backlit display shows precise X,Y,Z coordinates for probe position and status information.

DOSEVIEW 3D SPECIFICATIONS

MOTION CONTROL SYSTEM

Maximum 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	Onboard controls, PC or via wireless pendant

WATER PHANTOM (ACRYLIC TANK ONLY)

Outer Dimensions	[LENGTH \times WIDTH \times HEIGHT]	704 mm x 693 mm x 570 mm
Scanning Dimensions	[LENGTH \times WIDTH \times HEIGHT]	500 mm x 500 mm x 410 mm
Wall Thickness	12 mm	
Other	Replaceable Fill/Drain Port	

LIFT CART AND RESERVOIR

Outer Dimensions	[LENGTH \times 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)

EXRADIN A28 ION CHAMBER

Collecting Volume	0.125 cc
Centroid of Collecting Volume	4.47 mm from tip of chamber
Collector Diameter	1.0 mm
Outside Diameter of Sensitive Region	8.0 mm
Nominal Leakage Currents	$\pm 10 \times 10^{-15}$ A
Shell, Collector, Guard Material	Shonka air-equivalent plastic C552
Waterproof	Yes

DOSEVIEW 3D SOFTWARE

System Requirements

Operating System	Microsoft® Windows® XP SP3 or greater Microsoft Windows 7, 32 and 64 bit Microsoft Windows 8.1, 32 and 64 bit
Processor	Intel® or AMD®, 350 MHz or greater
Memory	256 MB or greater
Hard Drive	30 MB or greater
Screen Resolution	1024 x 768 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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