



Data Sheet

THALES 3D SCANNER

Motorized water phantom
for commissioning and QA
of bore-type LINACs



Features

- Optimized scanning dimensions and processes for beam model validation
- Compact and lightweight for an easy fit
- Compatible with most common detectors

Software

- Web-based technology
- Guided and intuitive workflows
- Dedicated analysis tool for FFF beam types

System

Power supply	100–240 V AC, 50/60 Hz, 700 VA
Approved	THALES 3D SCANNER has successfully passed the European CE conformity assessment procedure and is cleared in the USA under 510(k) K200907

Water phantom (water basin and 3-axis drive)

Weight (empty)	35 kg
Outside dimensions (L × W × H)	960 × 580 × 380 mm
Power supply	24 V DC
Water basin shape	Rectangular
Water basin wall thickness	10 mm ±5 %
Water basin wall material	PMMA
Measuring range (X × Y × Z)	370 × 373 × 237 mm
Field detector orientation	Horizontal and vertical
Measurement mode	Step-by-step, continuous mode
Step size	0.1 mm
Positioning accuracy	±0.25 mm
Water basin capacity	110 l

Software

Application software	THALES software based on web technology
Operating system (server/client approach)	Windows server 2016, Windows 10 (64 bit)
Multi-users organization	✓
Export data for external analysis	CSV format within bundled zip package
Setup	Automated CAX correction (EPID and/or beam-based), detector EPOM positioning vs. water surface
Guided measurement	Targeted measurement profiles and PDD line-shapes for different field sizes, variable scanning regions with different step sizes programmable
Analysis tools	PDD (Position at Dmax, D10, D20), transversal profiles (FWHM, penumbras, beam center, symmetry)

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NMPA registration in progress. Approval pending.