

Delta⁴ Phantom +



Safe and Accurate QA with Delta4 Phantom+

The new wireless Delta4 Phantom+ provides fast and accurate dose verification for your advanced treatment plans.



Quick set-up

- Leveling with 3 and 4 point adjustments
- The ergonomic Delta4 Trolley eliminates all manual lifting of the phantom

Wireless

- Fastest set-up time
- Wireless communication (Wi-Fi)
- Battery operated



Fast set-up. The phantom is easily transferred to the treatment couch with the smart design Delta4 Trolley; you never have to lift the phantom.

Alignment is very quick with easy to view markers on the phantom and easy to use leveling feet.

Instantly ready for measurement. The Delta4 Phantom+ transfers data via Wi-Fi and is powered with batteries. There are therefore no cable connections and the electrometers can be warmed up even before entering the room, saving valuable time.

Measure where it really matters. The patented detector configuration with two crossing detector planes provides real measurements in the isocentric target region.

Instant pass/fail analysis. Due to the fact that measurements are done in the target, the dose is instantly available when the radiation has been delivered. You get your pass/fail immediately without having to reprocess any data.

Independent Gantry angle verification. An inclinometer gives you additional verification that the beams are delivered from the right angles.

Machine QA. In addition to performing patient QA, the Delta4 Phantom+ can perform scheduled checks of the beam constancy and the MLC performance. It can also be used to run a quick machine check when you encounter a plan that fails, to find if it is a machine or a plan related error.

Unique detector configuration

- Isocentric measurements in two crossing detector planes
- Large fields up to 38 cm longitudinal, 20 cm (transversal/sagittal)
- High resolution down to 2.5 mm



Superior ScandiDos detector

- Long term stability: Extended calibration interval to 5 years!
- Isotropic response
- FFF compatible

Absolute measurement

- Insert for ion chamber measurement
- Quick and accurate absolute dose verification

Technical Specification

Cylinder phantom	
Material	PMMA; optional Plastic Water DT
Diameter	22 cm
Length	40 cm
Ion chamber insert in cylinder	Inserts for common cylindrical ion chambers available
Detectors	
Type	p-Si
Total number	1069
Layout	Distributed on coronal and sagittal plane
Max field size	20 x 38cm ² (with merger of two consecutive measurements, otherwise 20x20cm ²)
Distance between detectors	
Central area (6 x 6cm ²)	5 mm (or 2.5mm in longitudinal direction with merger of two consecutive measurements)
Outer area	10 mm
Size (radial x axial)	1 x 0.05 mm ³ = 0,00004cm ³
Detector stability (6MV beam)	Better than 0.1% per kGy, typically 0.04%/kGy
Size and weight	
Total length	71cm
Total weight	27kg
Compatibility	
Modalities	Photon beams, with and without flattening filter
Treatment Plan import	Any Treatment Planning system that can export DICOM RT Plan and RT Dose, Structure
Wireless Communication	
Wireless data communication protocol	Wi-Fi 802.11n
Battery operational capacity	>1.5 hours Rechargeable Li-ion battery – Power supply for charging included

Technical specifications are subject to change without notice



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