

## Customized solutions for quality assurance of IGRT/SGRT system verification in SRS applications



*Thermal to 3D Camera Calibration mapping*

### **True-to-life human's anatomy**

Specially designed anthropomorphic head and spine phantoms have been modified and equipped accordingly, to be used for the End-to-End verification of advanced IGRT/ SGRT systems. The combination of anthropomorphic anatomy and bone/soft tissue equivalency that these phantoms offer is a fact that makes them a must-have tool in every radiotherapy department. A powerful tool for the spatial verification of the precision and accuracy of dose delivery.

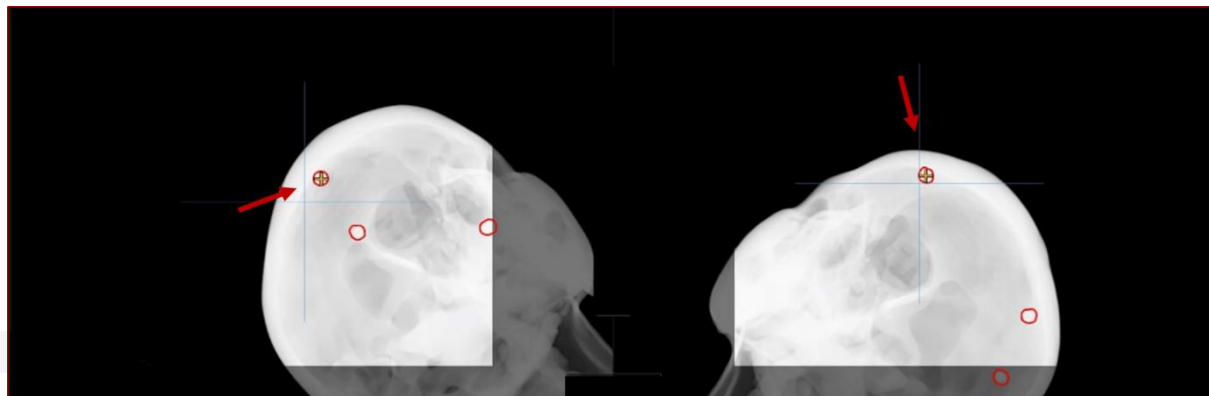
### **Thermal/Surface Imaging**

Having the already unique feature of the realistic contrast of bone and soft tissue in CT and MR imaging, the patient-like anatomy, but also the ability to be filled with warm water (internal human temperature, heated up to 45°C/113 °F), RTsafe phantoms comprise the best candidate for testing the patient positioning and monitoring systems.

### **Xray Imaging**

These customized solutions can also accommodate small metal spheres at any desired or predefined location acting as reference points visible in CT, CBCT, and x-ray imaging. The external surface of the phantoms can be modified to simulate realistic external morphological characteristics, with dull surfaces that minimize artifacts and unwanted reflections of optical imaging.

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*X ray Verification. The predefined location of the reference points is also highlighted*

## Specifications

### # MODEL INCLUDES

QTY	DESCRIPTION
1	Water filling 3D printed phantom
3	Pre defined metal spheres of Ø 5 mm
1	The real patient's anonymized CT images through link to a secured file sharing platform
1	60-month Warranty

### # OPTIONAL ACCESSORIES

QTY	DESCRIPTION
1	Ion chamber/diode/diamond detector Variable Position dosimetry insert:: plug of Ø12mm and user-defined depths, material PMMA
1	Film dosimetry cassette with 4 metal pins for registration purposes in 2 different orientations; sagittal or coronal: 80 mm x 145 mm (inner dimensions: 70 mm x 145 mm), material Real Water
1	3D polymer gel dosimetry insert combined with 3D dosimetry service: Cylinder of 160 mm height and Ø 80 mm (inner dimensions: 140 mm x Ø 74 mm), material PMMA or glas
1	OSL dosimetry cassette** with a 4 mm resolution cross design of 17 pockets for nanoDot™ OSL dosimeters in 2 different orientations; sagittal or coronal: 80 mm x 145 mm (inner dimensions: 70 mm x 145 mm) with 4 acrylic rods (5 mm diameter, 10 mm height) for registration purposes, material Real Water
1	TLD dosimetry cassette with a 5 mm x 5 mm 2D grid resolution of 99 cylindrical holes for TLD micro cubes dosimeters (hole: diameter 1.6 mm, height 1.1 mm) in 2 different orientations; sagittal or coronal: 80 mm x 145 mm (inner dimensions: 70 mm x 145 mm) with 4 acrylic rods (5 mm diameter, 10 mm height) for registration purposes, material Real Water