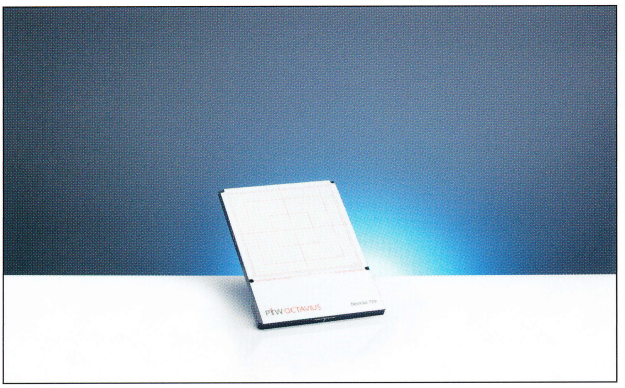
OCTAVIUS® I



IMRT patient plan verification and LINAC QA

Features

- 27 x 27 (729) vented cubic ionization chambers regularly arranged to MLC leafs across the complete field size of 27 cm x 27 cm
- Pioneering ionization chamber array, flat and lightweight (5.4 kg)
- Gold Standard ionization chamber technology
- Absolute dose calibration at ^{60}Co
- Complete field coverage with Merge *seven29*
- One detector – multiple applications

The OCTAVIUS Detector 729 is a new concept of an ion chamber matrix in a plane for IMRT verification and quality control in radiation therapy. Utilizing ion chambers avoids radiation defects, the major drawback of solid-state detectors. The vented plane-parallel ion chambers are 5 mm x 5 mm x 5 mm in size, and the center-to-center spacing is 10 mm. In total there are located 729 chambers in a matrix of 27 x 27, providing a maximum field size of 27 cm x 27 cm. The array is only 22 mm flat and 5.4 kg light. Due to the square chamber technology the array can be moved 5 mm to close the gaps between chambers. By shifting the array 3 times the whole area is covered. The number of measuring points can be increased to 2916.

The OCTAVIUS Detector 729 can be used for IMRT plan verification, LINAC QC (with optional MultiCheck software) and online LINAC adjustment (with optional BeamAdjust software). Using the Universal Gantry Mount the array can be mounted to the gantry and irradiated under various gantry angles.
OCTAVIUS I contains the OCTAVIUS Detector 729 and VeriSoft software. The option LINAC QA contains BQ-CHECK, MultiCheck and BeamAdjust.

Ordering Information

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