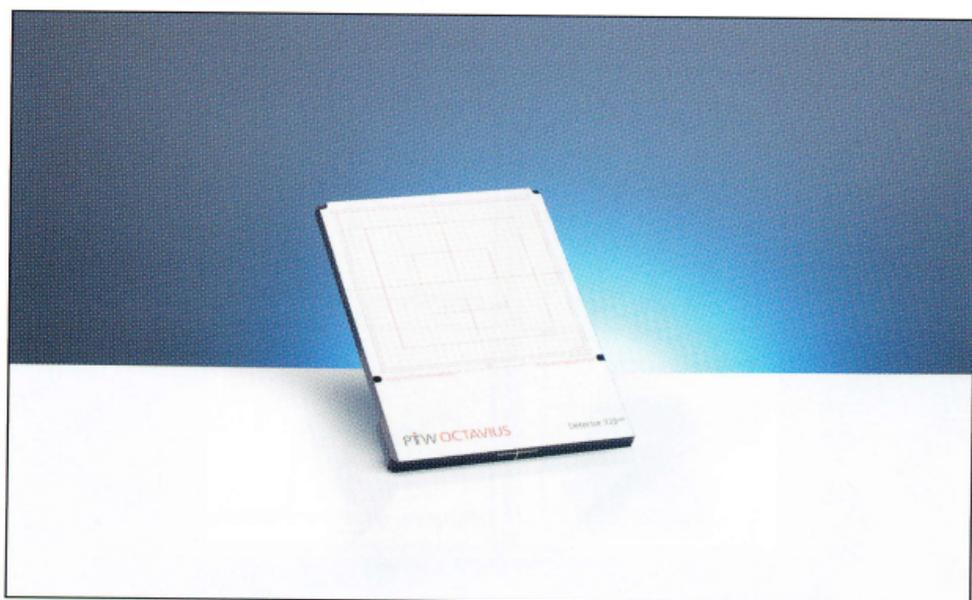


OCTAVIUS

Detector 729 ^{XDR}



Patient Plan Verification and Quality Assurance for proton and heavy ion beams

Features

- ▶ Outstanding detector and matrix design: 729 vented cubic ion chambers, uniformly arranged on a 27 cm x 27 cm matrix
- ▶ Largest field coverage with 2916 measurement points (VeriSoft Merge)
- ▶ Pioneering ionization chamber array, flat and light-weight (5.4 kg)
- ▶ Gold Standard ionization chamber technology
- ▶ Absolute dose calibration at ⁶⁰Co
- ▶ One detector – multiple applications
- ▶ Suitable for proton and heavy ion beams

The OCTAVIUS detector 729 ^{XDR} is a new concept of an ion chamber matrix in a plane for patient plan 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 3 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 ^{XDR} can be used in a flat phantom or in the octagonal phantom OCTAVIUS. OCTAVIUS detector 729 ^{XDR} is compatible with the PTW software.

Ordering Information

- L981998 OCTAVIUS Detector 729 ^{XDR}
- T40054 OCTAVIUS Phantom
- S070009 VeriSoft software
- S070011 MultiCheck software
- S080032 BeamAdjust software