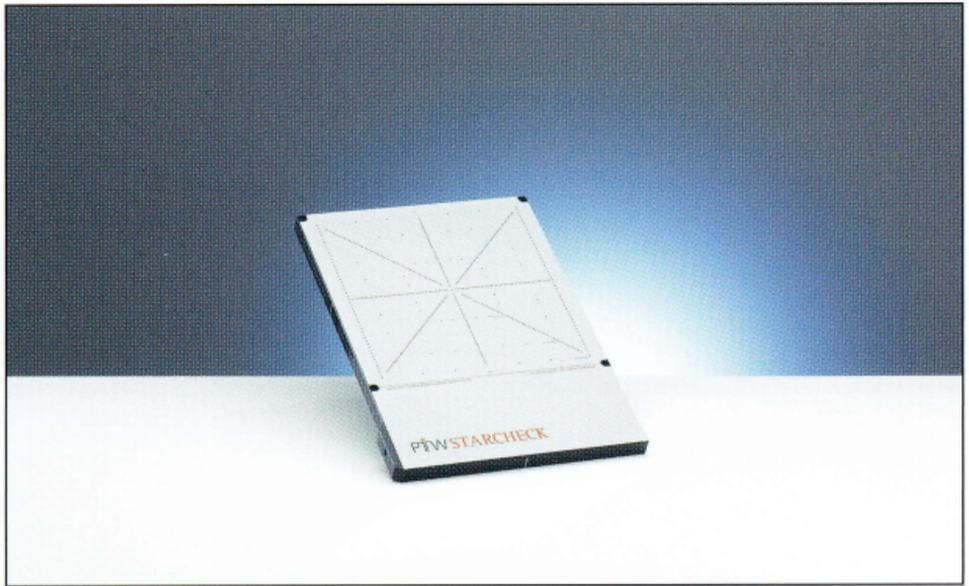


STARCHECK

2D Chamber Array



Chamber matrix system to measure high resolution star profiles of high-energy therapy beams in real-time

Features

- ▶ Measures high resolution profiles along the principal axes and along the diagonals with 3 mm spatial resolution
- ▶ Checks the start-up behaviour
- ▶ Checks positions of MLC leaves
- ▶ Checks congruence between light field and radiation field and beam quality with dedicated phantoms

STARCHECK is a precise and reliable tool for fast measurements in radiation therapy beams. Typical applications are quality control and LINAC beam adjustment measurements with the detector panel embedded in a solid state phantom. The ionization chambers feature an excellent relative response stability, avoiding the need of frequent recalibration. A full set of four profiles is measured every 200 ms, making the device useful for real-time measurements. The excellent spatial resolution of only 3 mm ensures precise measurements even in penumbra regions. The scanning lengths covered by the detectors are 25.2 cm along the principal axes and 34.5 cm along the diagonals.

Two rows of detectors allow MLC leaf positions to be verified. Up to 53 leaf pairs with a width of 5 mm can be checked in one run. Deviations of (0.5 ... 1) mm can be detected by STARCHECK. The delivery includes the detector panel, an interface box which connects to a PC via RS232 interface, real time analysis software (BeamAdjust), and a quality control software (MultiCheck).

Ordering Information

L981366 STARCHECK system with 527 ionization chambers, incl. interface software

Option

T41021 SC Gantry Holding Device

- ▶ Gantry Mount Holder *page 63*