ESSEN QC Cube Geometric Test Device

Cubic test object for checking the conformity of light and radiation fields and the gantry angle adjustment

Features

- Acrylic cube for quality control of geometric field parameters
- Enables the user to insert individually packed radiographic films for four directions of beam incidence
- Includes a needle for marking reference points on the test film
- Line marks serve for the adjustment to the LASER beams by a three-point bearing

The ESSEN QC cube is a helpful device for the comparison of the radiation field and the light field of linear accelerators and ^{60}Co therapy units. Cross lines and a height adjustable four-point bearing make it possible to adjust the cube to the LASER lines of the therapy unit. The cube has four double walls to insert individually packed radiographic test films of up to 18 cm x 24 cm size. It is designed for two horizontal and two vertical directions of beam incidence. Radiographs can be taken with the gantry positioned at 0°, 90°, 180° and 270°. Holes in the walls enable the user to mark reference points on the inserted films using a needle. The exposed film shows the light field (needle marks) in relation to the radiation field (exposed area). This makes it possible to check the conformity of the light field and the radiation field as well as the isocenter position.
The gantry angle adjustment is checked by irradiating two opposite films simultaneously.

Ordering Information

T2965 ESSEN QC Cube and needle