

StarTrack*

2D Comprehensive Daily Linac QA Device

Advanced pixel ionization chamber based linac QA device for periodic quality assurance of a variety of linac parameters.

By means of build-up plate, energy constancy checks for photon & electron beams are possible.

The StarTrack* is easy to set-up and align (treatment couch, or optionally, gantry mount). Data transfer to a PC or laptop goes via an Ethernet connection. All necessary cabling is included.



Package includes:

- Energy verification plates for photon and electron energies (Item Number BS71-300)
- Fast and easy StarTrack user uniformity calibration. In addition to the existing "Factory Co60 Uniformity Calibration", the StarTrack user can apply a user uniformity calibration on-site.
- 30m cabling (data transfer to PC or laptop is via Ethernet)
- Power supply: 100 - 240V, 50/60 Hz, one power cord included for either 230V power plug, USA, UK, Australia or China



Technical Specifications of StarTrack* detector:

Sensor dimensions: 27cm x 27cm
 Number of detectors: 453
 Distance between Detectors: 5 mm (7 mm along diagonals)
 Field Size Determination Accuracy: 0.5 mm
 Detector diameter: 3.0 mm
 Detector Volume: 0.035 ccm
 Key Applications: daily, weekly, monthly QA; symmetry, flatness, primary and diagonal axes beam output, energy constancy (option) of x-ray and electron beams
 Interfaces: Windows Excel via ASCII (ASCII in general)
 Intrinsic Buildup: 3 mm
 Approx. Weight: 10 kg

Energy Verification Plates:

For the verification of energy constancy of x-ray and electron beams. Consisting of two energy verification plates incorporating unique attenuating materials in 8 specific locations:

2cm diameter recesses filled with varying material and thickness attenuator, centered above the corresponding chambers of the StarTrack for fast energy constancy verification.

Material: RW3

Area: 30cm x 30cm

Thickness: 1 cm for electron beams;
 5 cm for x-ray beams, each with 8 recesses of 1cm depth.

Attenuators for energy check:
 8 cylinders of Ti or Cu or Pb for electron and x-ray beams located in the circular recesses of the energy verification plates.

Location of recesses/attenuators:
 approximately equidistant, symmetrically positioned approximately 8.5 cm from the center of the plates.

Ordering Information

BS80-100 **StarTrack*** including Energy Verification Plates, for my QA