



SENTINEL™

C-RAD

cPosition

By advanced surface registration algorithms the actual patient position is compared to a predefined reference position/image. With a click of a button the results are obtained and the need for manual markings on the patient and for manual handling to bring the patient into the defined position is eliminated. With interface to major accelerator vendors the suggested patient position is transferred to the respective couch control system and fast and accurate alignment is achieved.

cMotion

During the treatment delivery phase it is critical that the patient does not change position and that the treatment is delivered in accordance with the plan. cMotion monitors the movement of the patient during treatment delivery and automatically warns if the patient moves outside the allowed tolerances. This eliminates the need for visual monitoring by the staff, adding convenience as well as safety. (Works in progress).

Distributed in the USA by:



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Physical dimensions

Size (L * W * H): 700 * 200 * 200 mm
 Weight: 8 kg

Power

Input voltage: 100–240 VAC
 Frequency: 47–63 Hz
 Power consumption: 1.35 A

Laser

Power: < 1 mW according to IEC-60825-1
 Wavelength: 635–690 nm

Interfaces

DICOM: Import of patient data and reference surfaces
 Linac Interfaces: Synchronization of patient selection and couch control

Performance

Scan volume (X * Y * Z): 800 * 1300 * 700 mm.
 Maximum no. of 3D data points: 360 000
 Measurement resolution: 0.2 mm in Y- and Z-direction, 0.5 mm in X-direction
 Measurement repeatability: 0.05 mm
 Long term stability: Better than 0.5 mm
 Scan speed: > 30 contours per second. Typically 1–2 s for a 40 cm scan.
 Positioning accuracy (rigid body): Within 1 mm

Software requirements

Operating system: Windows XP SP2
 Computer for Sentinel c4D Server / Sentinel c4D Standalone installation: Minimum requirements: 2 GHz, 512 MB RAM, SXGA graphics, min 20G available space on the hard disk
 Computer for Sentinel c4D Client: Minimum requirements: 2 GHz, 512 MB RAM, SVGA graphics



LASER RADIATION
 DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS
CLASS 2M LASER PRODUCT
 Max. output: 5mW Typ: 0.35cm
 IEC 60825-1:1993

Complies with the IEC-60825-1 standard, Safety of Laser products.

Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.



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