



Daily Constancy Tool

GAMMEX 444D

The Gammex 444D Daily Constancy Tool (DCT) is the perfect single channel device to measure photon and electron beam constancy every day of the year.

Measuring relative beam output is quick, easy, and reliable with the 444D. The DCT has a single diode detector embedded in a uniform density plastic phantom for measuring radiation output. The device is battery operated and completely portable. It only requires an initial set up and then there is no need for preparation when doing routine radiation output tests on linear accelerators.

This DCT can store up to 10 exposures that show relative dose, relative dose rate, and irradiation time. Multiple exposures can be taken without having to reset the device. An indicator light will blink to let you know that the 444D is ready for the next exposure. By having this auto reset function, you only have to enter the treatment room a second time to retrieve the DCT and acquire the necessary data. With features like these, and automatic pressure correction, you can see why this Gammex product is one of the most time saving devices you'll ever use in the treatment room.

continued

Gammex



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SPECIFICATIONS

Dose Rate Range . 1 to 2000 cGy/min

Beam Energy

Photons 1.25 to 25 MV

Electrons 3 to 25 MeV

Field Size 10x10 cm

Temperature

Dependence 1% of reading per °C

Long Term

Stability. ±1.5% of reading over 60,000 Rads
(approximately 6 months of use)

Readings Relative Dose (machine output),
Relative Dose Rate, Time

Detector Diode

Power Supply . . . 4 AA alkaline batteries
(20 hours approx. lifetime)

Physical Dimensions

Weight. 1.05 kg (2 lbs 5 oz)

Dimensions

(H/W/D) 12x32x3 cm (4.7x12.6x1.1 in)

Miscellaneous

- RS-232 port
- Stores 10 complete readings
- No pressure corrections needed

Options

- Auxiliary tray holder for Varian (444-TRAY-V) or Siemens (444-TRAY-S) machines
- Solid Water 12x12 cm build-up plates (444-SLABS) with thickness of 0.2, 0.5, 1.0, 2.0, and 3.0 cm
- Laser alignment cap (444-CAP) to align DCT with sidewall lasers