



MIRION
TECHNOLOGIES



IR 2000

TLD-irradiator

The Rados Dosimeter Irradiator has been designed for calibration of the Rados TL-based dose control system. The instrument is used for sensitivity calibration of the system, for system linearity checking and for individual sensitivity calibration of the TL-material in use.

The Irradiator is microprocessor controlled and uses stepping motor for controlled irradiation of the dosimeter pellets. During the irradiation process the pellets are continuously moved past the source in order to provide precise and equal dose for each individual pellet. The drift of exposure of individual pellet in one dosimeter card is negligible.

A source of Sr90 is used to give standard doses of app. 1mSv. The irradiator may be programmed to give linearly increasing dose steps for checking the system linearity. The actual dose may be varied by repeated irradiations.



health physics

A Mirion Technologies Division

Featuring:

RADOS



TECHNICAL SPECIFICATIONS:

Speed:	500 dosimeter cards per hour (appr. 1mGy)
Dose range:	1 to 100mGy
Leakage radiation level:	<1 μ Gy/h at on the case surface
Radiation Source:	⁹⁰ Sr/ ⁹⁰ Y, 37 MBq (different activities on request)
Irradiation programs:	equal exposure for successive dosimeters Separate individual exposures for successive dosimeters Linearly increasing exposures for successive dosimeters
Capacity:	200 dosimeter cards with optional cassette feeder
Dose repeatability:	<0.5%
Display:	LCD dot matrix with backlight
Control:	Menu driven with 16 control keys
Temperature range:	0°C – 40°C operational, -10°C – 60°C storage
Power requirements:	100-250V AC 50/60Hz, 150VA at 50Hz
Dimensions:	(HxWxD) 400 x 570 x340mm
Weight:	30kg

Optional cassette feeder:

