The TLD-irradiator model IR-2000 offers a fast automatic way of irradiating Mirion TL-dosimeters. It’s suitable for irradiating dosimeter cards and single TL-elements. The use of the IR-2000 is very convenient when large number of dosimeters needs to be irradiated. As the IR-2000 utilizes the same dosimeter card magazine as RE-2000 reader for processing the TL-cards, the TL-cards can be easy processed in the reader after irradiation.

The use of IR-2000 is strongly recommend for system quality control and calibration including system stability and linearity checking, individual sensitivity coefficient definition and signal to dose.

**OVERVIEW**
- irradiation of single TL-elements or TL-dosimeter cards
- programmable delivered dose by repeated irradiations
- irradiation of 500 dosimeter cards per hour with $^{90}$Sr/$^{90}$Y source
- used for TLD-system QC and calibration
- standalone use (no PC needed)
- loading capacity up to 200 cards with optional cassette feeder

**KEY FEATURES**
PHYSICAL CHARACTERISTICS

• Speed: 500 four element cards per hour (1 mGy)
• Dose range: 1 to 100 mGy
• Leakage radiation level: < 1 µGy/h at 10 cm distance on the case surface
• Radiation source: $^{90}$Sr/$^{90}$Y, 37 MBq (different activities on request)
• Irradiation programs:
  - equal exposures 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%
• Control: Menu driven with 16 control keys
• Option: automatic cassette feeder, capacity of 10 cassettes

ELECTRICAL CHARACTERISTICS

• Power requirements: 100 - 250 VAC 50/60Hz, 150VA at 50Hz

MECHANICAL CHARACTERISTICS

• Dimensions: (HxWxD) 400 x 570 x 340 mm
• Weight: 28 kg
• Display: LCD dot matrix with backlight

ENVIRONMENTAL CHARACTERISTICS

• operating temperature: from 0°C to +40 °C
• storage temperature: from -10°C to +60 °C

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