

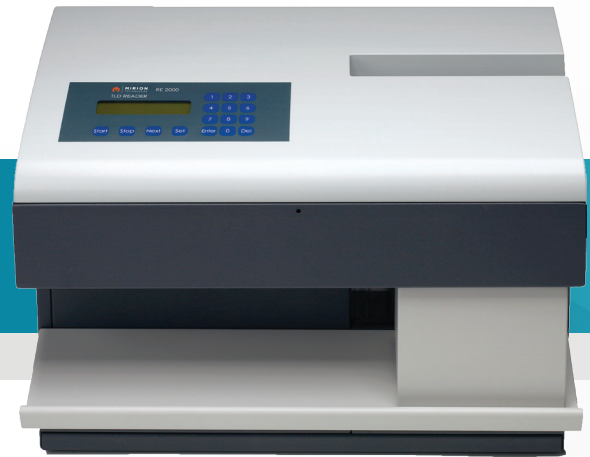


MIRION
TECHNOLOGIES

Radiation. **Safety.**

RE 2000A

TLD Dosimeter Reader



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

RE-2000A is a universal, low cost and high precision TLD-reader for automatic processing of dosimeter cards and single TLD chips.

The photon counting method used over the whole measurement range provides an excellent signal to noise ratio for the measurement.

This makes the reader suitable for all forms of personal dosimetry, and for the full range of dose levels from the low ones of environmental monitoring to the high ones of clinical dosimetry.

KEY FEATURES

- Modern all in one TLD Dosimetry solution for personal dosimetry, clinical dosimetry and environmental monitoring.
- Automatic processing of up to 200 dosimeter cards or 800 single TL-elements at one load.
- The maximum processing speed is 132 single elements or 82 two element cards per hour.
- High measurement reproducibility with standard industrial N₂ -heating
- Cooled PMT and built in self diagnostics guarantee high measurement stability
- Automatic calibration capabilities with user friendly software
- Simple operation and easy maintenance –No highly trained service personnel needed

Health Physics

SPECIFICATIONS

Capacity	200 personnel dosimeters or 800 single elements per loading	Pellet heating Options	Contactless hot nitrogen, flow rate 5 l/min, up to 400°C
Processing speed	- 82 two element cards per hour - 128 single elements per hour	Environment conditions	Operating : +10°C to +40°C Storage : -10°C to +50°C
Element types	- round pellets 4.5 mm ø - square chips 3.2 x 3.2 x 0.9 mm	Voltage & consumption	100 - 250 VDC 50/60 Hz 150 VA at 50 Hz
Dynamic range	7 decades (9 decades with neutral filter)	Data interface	RS-232 (9pin D-connector) or LAN (RJ-45 optional)
Signal measurement	Photon counting with max. count rate of 100 MHz	Dimensions (DxWxH)	40 x 57 x 34 cm
System stability	Controlled by high stability temperature controlled reference light source	Weight	33 kg
Detector stability	Photocathode stabilized by peltier cooling	User interface	WinTLD Light Software running on a separate PC
Dark current	Negligible - variation in the background count rate <1 µSv 137Cs equivalent dose	Options	WinTLD Pro Management Software for RE-2000

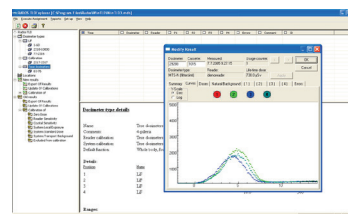
FUNCTIONAL CHARACTERISTICS

- All-in-one dosimeter reader, only one instrument needed for the evaluation of whole body, extremity, beta, gamma, x-ray and neutron doses in single or mixed fields
- Simple maintenance program provides savings in down time and labor cost
- Sophisticated self-diagnostics and high MTBF
- Barcode and hole code identification of dosimeter cards
- Fulfills IEC performance requirements
- Programmable pre-heat, measurement and anneal cycles

USER FRIENDLY APPLICATION SOFTWARE

- WinTLD Light application software running on a separate PC provides the easy-to-learn and -operate reader control and user interface for the reader
- Automatic element-sensitivity correction, background subtraction and pre- and post- calibration capability with WinTLD Pro application software

RELATED PRODUCTS



WinTLD Pro SW



TLD Dosimeter



IR2000
TLD irradiator

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