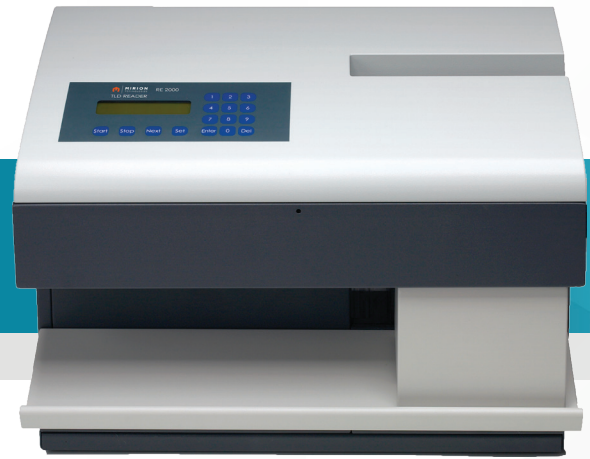




# RE 2000S

Semi-automatic TLD Reader



Nuclear  
Power



Homeland  
Security  
& Defense



Industrial and  
Manufacturing



Healthcare



Labs and  
Education

## OVERVIEW

RE-2000S 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 20 dosimeter cards or 80 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 N<sub>2</sub> -heating
- Cooled PMT and built in self diagnostics guarantee high measurement stability
- Automatic calibration capabilities with user friendly software
- User-friendly operation and easy maintenance –No highly trained service personnel needed

Health Physics

## SPECIFICATIONS

<b>Capacity</b>	20 personnel dosimeters or 80 single elements per loading	<b>Pellet heating Options</b>	Contactless hot nitrogen, flow rate 5 l/min, up to 400°C
<b>Processing speed</b>	- 82 two element cards per hour - 128 single elements per hour	<b>Environment conditions</b>	Operating : +10°C to +40°C Storage : -10°C to +50°C
<b>Element types</b>	- round pellets 4.5 mm ø - square chips 3.2 x 3.2 x 0.9 mm	<b>Voltage &amp; consumption</b>	100 - 250 VDC 50/60 Hz 150 VA at 50 Hz
<b>Dynamic range</b>	7 decades (9 decades with neutral filter)	<b>Data interface</b>	RS-232 (9pin D-connector) or LAN (RJ-45 optional)
<b>Signal measurement</b>	Photon counting with max. count rate of 100 MHz	<b>Dimensions (DxWxH)</b>	40 x 57 x 34 cm
<b>System stability</b>	Controlled by high stability temperature controlled reference light source	<b>Weight</b>	33 kg
<b>Detector stability</b>	Photocathode stabilized by peltier cooling	<b>User interface</b>	WinTLD Light Software running on a separate PC
<b>Dark current</b>	Negligible - variation in the background count rate <1 µSv 137Cs equivalent dose	<b>Options</b>	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



IR2000  
TLD irradiator



TLD Dosimeter



WinTLD Pro SW

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