



## FEATURES

- evaluation of whole body, extremity, beta, gamma, x-ray and neutron doses in single or mixed fields
- hole code or bar code identification of the dosimeter card
- high measurement reproducibility with standard industrial N<sub>2</sub> heating
- fully programmable pre-heat, measurement and anneal cycles

## RE-2000A

Multi-purpose TLD Reader

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

WinTLD Light application software running on a separate PC provides the easy-to-learn and -operate reader control and user interface for the reader.

The reader can automatically process up to 200 dosimeter cards or 800 single TL-elements at one load. The maximum processing speed is 180 single elements or 100 two element cards per hour. The photon counting method used over the whole measurement range provides an excellent signal to noise ratio for the measurement. Cooled PMT and built in self diagnostics guarantee high measurement stability and an error free operation.

Automatic element-sensitivity correction, background subtraction and pre- and postcalibration capability with WinTLD Pro application software.



## health physics A Mirion Technologies Division Featuring:

RADOS

**TECHNICAL SPECIFICATIONS:** 

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Physical Characteristics	Dimensions: (HxWxD) 40 x 57 x 34 cm Weight: 33 kg		
Functional Characteristics	<ul> <li>Weight: 33 kg</li> <li>Capacity: 200 personnel dosimeters or 800 single elements per loading</li> <li>Processing speed: <ul> <li>100 ea. two element cards per hour</li> <li>50 ea. four element cards per hour</li> <li>180 ea. single elements per hour</li> </ul> </li> <li>Element types: <ul> <li>round pellets 4.5 mm ø</li> <li>square chips 3.2 x 3.2 x 0.9 mm</li> </ul> </li> <li>Dynamic range: <ul> <li>7 decades (9 decades with neutral filter)</li> </ul> </li> <li>Signal measurement: <ul> <li>photon counting with max. count rate of 100 MHz</li> </ul> </li> <li>Linearity: &lt;1% deviation</li> <li>System stability: <ul> <li>dose: &lt;1 µSV (standard deviation)</li> <li>hight voltage: negligible while using photon counting</li> </ul> </li> <li>Reference light: high stability temperature controlled reference light source, short term stability &lt;0.5%</li> <li>Heating method: contactless hot nitrogen, typically 5 l/min</li> <li>Time temperature profile: <ul> <li>hot blast gas heating</li> <li>temperature range 60 - 400 °C; stability ±1 °C</li> <li>pre heat, readout and post heat time: adjustable up to 140 seconds</li> </ul> </li> <li>Dark current: negligible while using photon counting - variation in the bgr. count rate</li> <li>&lt;1 µSV 1<sup>37</sup>Cs equivalent dose</li> </ul>		
Environmental Characterstics	<ul> <li>operating temperature: from +10 to +40 °C</li> <li>storage temperature: from -10 to +50 °C</li> </ul>		
Electrical Characterstics	<ul> <li>voltage: 100 - 250 VDC 50/60 Hz</li> <li>consumption: 150 VA at 50 Hz</li> <li>data interface: RS-232 (9pin D-connector) or LAN (RJ-45 optional)</li> </ul>		
Options	WinTLD Pro Management Software for RE-2000		



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