

# TLD Cube

## Manual TLD reader for loose TL material

Versatile and user friendly

TLD Cube is a small, lightweight and portable TLD Reader for measuring, analyzing and evaluating of thermoluminescent materials. Modern design and software combine easy operation and excellent performance in this newly developed reader. The ceramic heater with defined nitrogen purging in the rotating drawer accepts all standard TLD shapes.

TLD Cube is available in two versions as TLD Cube 400 with heating capability up to 400°C and as TLD Cube 700 which provides heating capabilities up to 700°C.

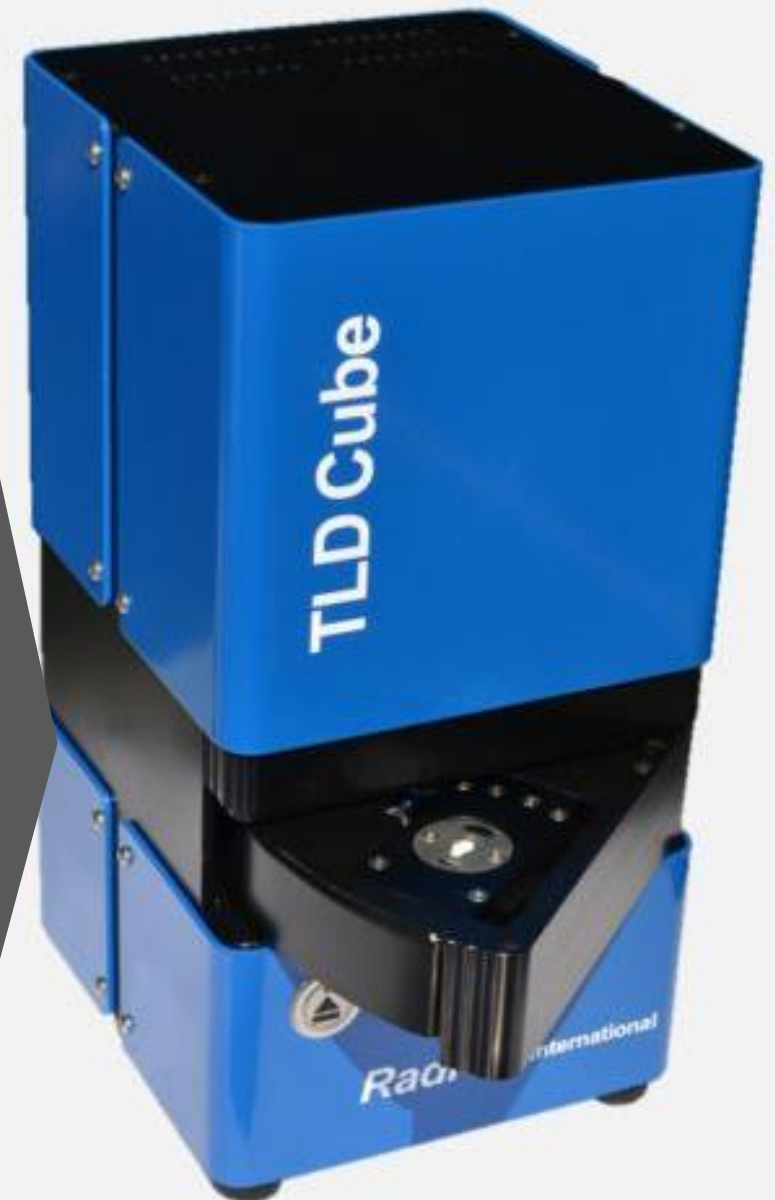
The software includes calibration and QA features, data storage and export options as xml file or Excel file to meet all typical requirements.

### Applications

- Radiation protection
- QC of radiation therapy devices
- Experimental physics
- Environmental research
- Personnel Dosimetry
- Checking irradiated food

# RadPro

*...Radiation Protection for the Radiation Professionals...*



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### Specifications

<b>Heater</b>	State-of-the-art ceramic contact heater with thermocouple
<b>Measuring Chamber</b>	Sealed chamber with circulation pump and cooling function
<b>Base Plate</b>	Stainless steel, exchangeable
<b>Base Plate types</b>	Chip 3.2 mm x 3.2 mm, Rod 1 mm x 6 mm, Disc Ø 4.5 mm, Multi-Purpose Ø 10 mm
<b>Powder Dish</b>	Inner Ø 8 mm, outer Ø 10 mm
<b>Capacity</b>	1 sample per loading
<b>Linear heating ramps</b>	0.1 K/s to 20 K/s (higher heating rate on request)
<b>Heating program</b>	Multi-step program, adjustable temperatures +/- 1 K
<b>Max. heater temperature</b>	400°C (TLD Cube 400) 700°C (TLD Cube 700)
<b>Readout time</b>	Freely adjustable
<b>Accuracy</b>	1 % S.D. (for multiple readout)
<b>Stability</b>	Better than 1 % during 8 h operation
<b>Test light</b>	Stabilized LED, stability 1 %, colour blue
<b>Detector</b>	PMT 230-700 nm with thermoelectric temperature stabilization
<b>Data output</b>	LAN to PC
<b>Measurement range</b>	7 decades
<b>Signal processing</b>	24 bit, full digital evaluation system
<b>Optical filters</b>	KG3 + BG 25, exchangeable, optional neutral density filter addable
<b>Power supply voltage</b>	100 – 240 V, 50 - 60 Hz
<b>Power consumption</b>	200 VA
<b>Shielding and cooling gas</b>	Nitrogen, approx. 300 ml / measurement
<b>Software</b>	State-of-the-art Windows software with full calibration and export functions
<b>Dimension approx.</b>	15 cm x 15 cm x 29 cm (W x D x H)
<b>Weight approx.</b>	6.7 kg
<b>Carrying Case approx.</b>	48 cm x 24 cm x 22 cm, 12 kg (incl. reader)

### Related products

#### TLD Heat



#### Vacuum tweezers



All information in this brochure is subject to technical changes without notice.