

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.

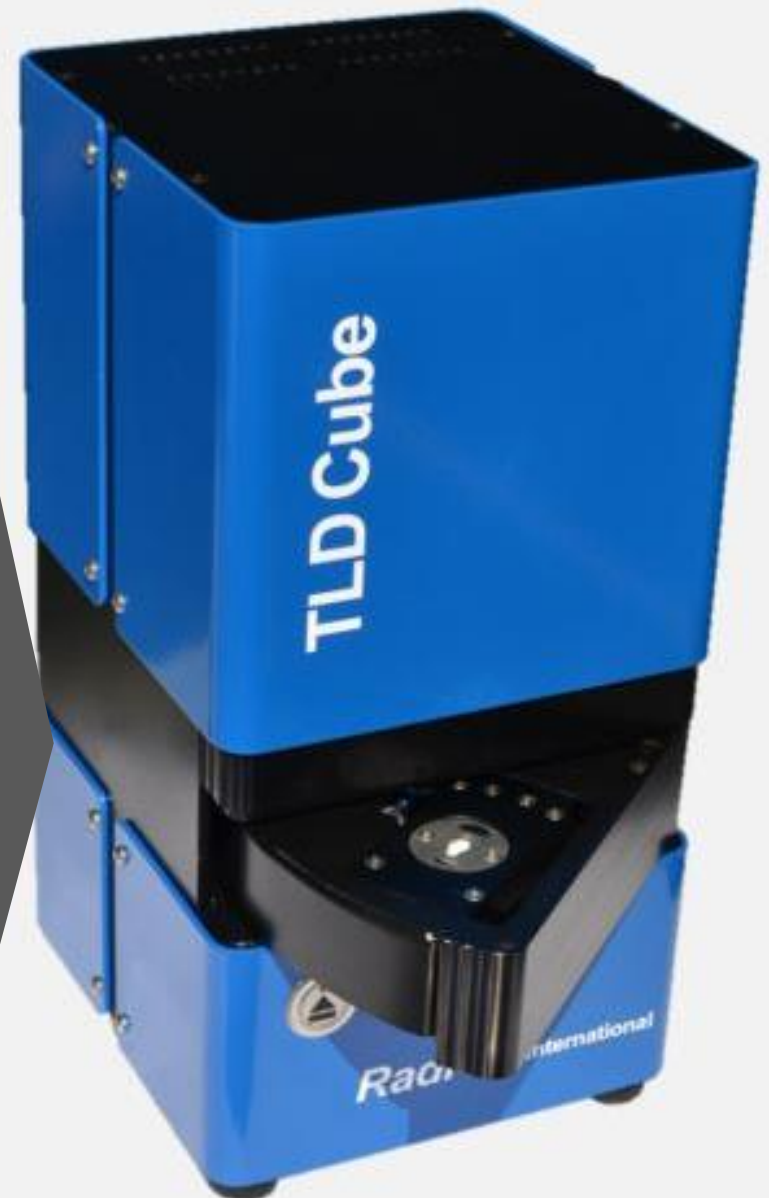
The software includes calibration and QA features, data storage and export options as xml file or Excel file to meet all typical requirements.

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

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