

## Manual TLD Reader TLD Cube



### 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 cooling 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 600 which provides heating capabilities up to 600°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
- Medical dosimetry
- Experimental physics
- Environmental research
- Personnel Dosimetry
- Checking irradiated food

## Technical Specifications

Heater	State-of-the-art ceramic contact heater with thermocouple
Measuring Chamber	Sealed chamber with nitrogen 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 load
Linear heating ramps	Standard 0.1 K/s - 20 K/s (up to 40K/s possible)
Heating program	Multi-step program, adjustable temperatures +/- 1 K
Max. heater temperature	400°C (TLD Cube 400) 600°C (TLD Cube 600)
Readout time	Freely adjustable
Accuracy	± 1 % S.D. (for multiple readout)
Stability	Better than ± 1 % during 8 h operation
Test light	Stability < 0.5 %, colour blue
Detector	Thermoelectric temperature stabilization
Data output	LAN to PC
Measurement range	7 decades
Signal processing	24 bit, full digital evaluation system
Neutral Density Filter	Exchangeable
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 17 cm x 29 cm (W x D x H)
Weight approx.	5.5 kg
Carrying Case approx.	48 cm x 25 cm x 25 cm, 11 kg (incl. reader)

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

## Accessories



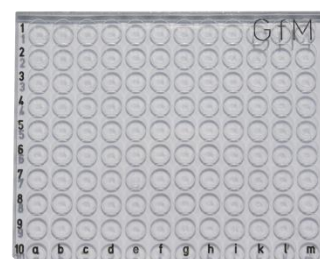
N<sub>2</sub> gas pressure reducer, metric



Programmable TLD Oven



Vacuum Tweezers  
incl. Vacuum Pump



Storage dish for 120 TLD  
elements

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