

Compact Type Automatic Reader with Glow Curve Display

UD-716AGL TLD Reader: automatically reads the “UD-800Series” of TLD badges.

The Panasonic compact automatic TLD reader provides a cost-effective solution for small to medium dosimetry services or serves as a backup to the larger UD-7900M reader.

Its advanced optical heating system and design means that it can be conveniently situated in most office or laboratory environments as gas supplies and annealing ovens are not required.

One-touch operation with advanced self-checking functions means minimal operational training is required.

Both the photon-counting method (pulse-counting) for small signals and the current integration method for large signals are employed to precisely detect the thermo luminescence throughout a wide range from low doses to high doses.

The reader is equipped with self-checking functions for the optical path, sensitivity of PM tube, heating stability, etc. It also performs automatic functions such as annealing of the TL badges for repeat use, optical reading of the ID code, and sensitivity adjustment correction by the built-in reference light source.



UD-736AB

UD-716AGL

FEATURES

UD-716

- **Optical Heating System:** Extremely fast non contact heating requiring no gas or annealing ovens. The heat is localized for high operational reliability.
- **Simplified Operation:** One-press automatic start. Minimal training for operators and technicians. Very easy to service and maintain.
- **Batch Measurement** With the reader connected to Magazine Changer UD-736AB (option), batch measurement of 200 badges is possible. This saves time as there is no need to manually feed badges into reader
- **Glow curve** display is available. Glow signal output terminals are included in the standard specification. No external monitor required.
- **Easy connections to host computer** using a RS-232C interface.
- **Calculations:** Capable of measuring data correction and performing average and standard deviation calculations, saving valuable time.
- **Compact and Light Weight** The unit can be easily transported for field applications.

SPECS

UD-716

Applicable TL Badge	UD-800 series (All Panasonic TLD Badges)
Heating Method	Optical Heating System (Non Contact)
Measuring Range	Li ₂ B ₄ O ₇ 10mR ~ 1000R (100μSv ~ 10 Sv) CaSO ₄ 1mR ~ 50R (10μSv ~ 500mSv)
Measuring Time	Approx. 35 sec. for 4-element badge (2 hours / 200 badges)
TL Badge Loading	Automatic loading with magazine 50 per magazine With Magazine Changer 50 per magazine x4 magazines =200
Weight and Dimensions	UD-716AGL: Approx. 42kg Approx. 622(W) x 322(H) x 418(D) mm UD-736AB: Approx. 18kg Approx. 400(W) x 180(H) x 490(D) mm

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