

Computerized Type Automatic Irradiator with Built-In Auto-changer

The Model UD-794 Thermoluminescent Dosimeter (TLD) Irradiator is a system designed to irradiate dosimeters. The irradiator consists of a Gamma radiation source, shielding material, a channel inside the shield in which to position and irradiate the dosimeter, a mechanism by which to move the dosimeter from its tray, an attenuator, a control panel, and safety interlocks. All components are inside a self-contained unit, constructed of sheet metal panels for safety.

The source used in the device meets special form encapsulation criteria and is permanently mounted inside a shield that completely surrounds the source. An attenuator allows for delivery of a low or high dose rate to the dosimeter. The dosimeter channel runs through the shield, allowing exposure to occur. A motor-driven lift mechanism moves the dosimeter into and out of the shield, up the channel. The control panel, integrated with the system computer, shows system status.

With the built in Auto-Changer which can accommodate 10 magazines of 50 TL Badges each, batch irradiation of 500 badges is possible.



FEATURES

UD-794

- **Simplified Operation** - Automatic irradiation can be started by just pressing one key. This simplifies training for operators/technicians.
- **Batch Irradiation** - With the Built In Auto-changer, batch irradiation of 500 badges is possible.
- **Radioactive Isotope** - ¹³⁷Cs (nominal 2.0 Curies). 74GBq Standard. Other activities are available.
- **Half Life** - 30 years
- **External Radiation Level** - Less than 0.5 mR/hr (5μSv/hr) at a distance of 30 cm from surface of shield.
- **High Dose Rate** - Approx. 30mR/sec (300μSv/sec)
- **Cycle Time** - Dose dependent
- **Power Supply** (*Factory Preset*) 100/115/220/230/240V AC/50-60Hz
- **Windows based Control Software** - PC and Monitor are included
- **Communications** - to Host PC or Mainframe through built in RS232 Interface

SPECS

UD-794

Applicable TL Badge	UD-800 series (All Panasonic TLD Badges)
TL Badge Loading	Automatic loading with Built In Auto-changer for 10 magazines 50 badges per magazine x10 magazines =500 badge capacity
Weight and Dimensions	Approx. 300kg Approx. 1000(W) x 1120(H) x 550(D)mm

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