

InLight® Complete Dosimetry System Solution

Dosimeter Annealing—Model 3000T



LANDAUER's InLight product line of whole body, area monitor and environmental dosimeters is a dramatic breakthrough in radiation detection. Based on optically stimulated luminescence (OSL) technology, InLight dosimeters can be reanalyzed many times (at your discretion) because they retain dose information after analysis.

LANDAUER also makes available to you our exclusive automatic annealer, the Model 3000T. When **you** decide it's time to clear the dose data on the dosimeter, LANDAUER's automatic annealer resets the InLight dosimeters quickly, effectively and easily.

Overview

The Model 3000T automatic annealer employs 52 high-intensity LEDs tuned to the appropriate wavelength to completely clear the dose information. Full communication with Landauer's InLight Laboratory Software (ILS) maintains chain of custody for each and every dosimeter.

The InLight Dosimetry System is an example of LANDAUER Fleximetry, the industry's most flexible dosimetry program. This flexibility lets you choose from the options below that best meet your organizational requirements.



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waiting for hi-res photo

The 3000T uses a bowl-fed operation, allowing it to work seamlessly with the rest of your lab operations workflow, while the automatic “set and forget” operation minimizes labor time and quickly prepares dosimeters for reuse. To use the annealer, simply:

1. Load the dosimeters to be annealed into the bowl feeder
2. Select the annealing time (based on the provided graphs)
3. Press start and walk away

The 3000T annealer will then prepare your dosimeters for reuse. Confirmation of annealing can be obtained automatically with the on-board analysis assembly (PMT).

Features and benefits

- Appropriate for large laboratories (>100,000 participants; significant automation)
- Simple, automatic operation and process—you decide when to clear the dose data
- Operating sound levels do not exceed 80db
- The high-intensity LEDs provide rapid, complete annealing
- The variable annealing time handles a wide range of doses
- Fully compatible with Landauer’s InLight Laboratory Software (ILS)
- Automatically rejects dosimeters that have exceeded the user-defined maximum annealed dose value

Technical specifications—annealer

Operation:	Automatic processing of all dosimeters in the bowl feeder
Overall size:	89"x65"x64"
Weight:	3,000 lb.
Power requirements:	230 VAC, 50A, three-phase
Dosimeter capacity:	720 dosimeters/hour at 60-second annealing time
Annealing time:	Fully selectable, from 47–999 seconds per dosimeter
Annealing performance:	200 mRad to <5 mRad in 60 seconds for one dosimeter
Certifications/marks:	CSA, CE and TUV available

Technical specifications—InLight dosimeters

Recommended max dose removed:	100 Rad
Recommended max annealing cycles:	Unlimited

Operating environment

Min. operating temperature:	0° C
Min. storage temperature:	–10° C
Max. operating temperature:	35° C
Max. storage temperature:	60° C
Humidity range, operating:	30–70% (no condensation)
Humidity range, storage:	30–70% (no condensation)
Other:	No fine dust; no harmful gas

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