

InLight® Complete Dosimetry System Solution

Dosimeter Annealing—Model 50A

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 50A. 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.



**Model 50A Annealer
with Changer**



**Model 50A
Annealer**

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.



Overview

The Model 50A automatic annealer employs four (4) high-intensity LEDs tuned to the appropriate wavelength to completely clear the dose information. It uses standard reader magazines, allowing it to work seamlessly with the rest of your lab operations workflow, while the automatic “set and forget” operation minimizes labor time. To use the annealer, simply:

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

The automatic annealer will then prepare your dosimeters for reuse. Confirmation of annealing can be obtained by loading the dosimeter magazine into your InLight reader for rapid analysis.

Features and benefits

- Appropriate for medium-sized laboratories (10,000–100,000 participants; some automation)
- Simple, automatic operation and process—you decide when to clear the dose data
- The high-intensity LEDs provide rapid, complete annealing
- The variable annealing time handles a wide range of doses
- Standard reader magazines simplify handling and integrate seamlessly with your lab operation

Technical specifications—annealer

Operation:	Automatic processing of all dosimeters in the magazine
Overall size:	18.5"x15"x11.5"
Weight:	45 lb.
Power requirements:	100–230 VAC automatic switching
Dosimeter capacity:	50 dosimeters per standard magazine at one time
Annealing time:	Fully selectable, from 1–9,999 seconds per dosimeter
Annealing performance:	2,500 mRad to <10 mRad in 30 seconds for one dosimeter (anneal a full magazine in ~25 minutes at this example dose)
Certifications/marks:	CE and TUV available

Technical specifications—InLight dosimeters

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

LANDAUER®

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