

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

LANDAUER's InLight product line of whole body, area monitor and environmental dosimeters is based on optically stimulated luminescence (OSL) technology. InLight dosimeters can be reanalyzed multiple times (depending on your needs) because they retain dose information after analysis.



Model 50A Annealer
with Magazine



Model 50A Annealer

Overview

The Model 50A automatic annealer employs four 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

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.

Dosimeter Annealing—Model 50A

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	Conformité Européenne (CE); Technischer Überwachungs-Verein (TUV)

Technical specifications—InLight dosimeters

Recommended max dose removed	100 Rad
Recommended max annealing cycles	Unlimited

Learn More

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