



Portable dosimetry reader for immediate analysis

microStar is a portable reader designed for occupational dosimetry, including workstation studies and radiological emergencies, with LANDAUER InLight dosimeters. It can be used on site, in the field, or in an independent dosimetry laboratory to measure radiation doses quickly and easily.

The reader connects via USB cable to the included Windows laptop. The microStar software provides control over data recording, analysis, and the setup and management of the database.

Calibration is carried out by reading the included calibrated dosimeters, which are exposed to known dose levels. Quality control dosimeters, also included, ensure proper calibration prior to use.



microStar portable reader and included laptop computer (actual computer may vary)

Advantages

Portable reader

Its robust construction, light weight, and small form factor make it the ideal choice for facilities that need on site or in-the-field readings.

Plug-and-play

Easily configurable, microStar operates without the need for filters, fuel, or heating elements.

On-site calibration

The included calibration and quality control dosimeters allow you to ensure the unit is operating properly, conduct training, and run future diagnostics.

User-friendly interface

microStar software interprets results, allows you to set parameters for reader operation and advanced data management, import and export files, and use your own custom fields.

Immediate results

microStar provides a dose readout in 10 seconds, with just three simple steps.

1. Put the dosimeter in the drawer
2. Turn the knob
3. View your results!

Technical specifications

Dimensions	Height = 4.7" Length = 13" Width = 9.5"
Weight	18 lbs
Power supply	110-220 V, 1.5 A/50 - 60Hz
Gas	No
Load capacity Manual	(1 detector)
Reading time	100 dosimeters per hour
OSL dosimeter type	InLight dosimeter
Units of Measurement	gray, sievert, rem, rad and their multiples
Operating Temperature	15°C to 25°C
Humidity	80%

Multiple readings

OSL technology retains more than 99% of the absorbed radiological dose stored in the detector element, making multiple readings possible if needed.

Traceability of sensitivity

InLight dosimeters need no evaluation of their sensitivity before analysis. The sensitivity of each dosimeter is embedded within its serial number and 2D barcode. This information is automatically extracted when the serial number is entered into the microStar software prior to analysis.

Traceability of the reading

Using the bar code reader allows easy and automatic assignment. High throughput is possible.

InLight Dosimeter

InLight dosimeters use OSL (Optically Stimulated Luminescence) technology from LANDAUER, which utilizes an aluminium oxide powder doped with carbon (Al₂O₃:C). During analysis, the Al₂O₃:C is stimulated with LED and glows in proportion to the amount of radiation exposure and the intensity of stimulation light.

Kit Includes

- microStar unit
- Carrying case
- Laptop with preinstalled software
- USB and power cables
- InLight QC and Calibration Dosimeters

Sold Separately

- Optional barcode scanner
- InLight dosimeters



InLight dosimeter front and back

For more information visit landauer.com