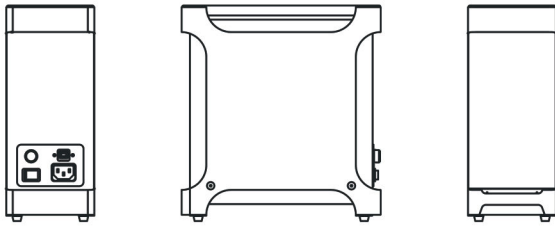


zero-rad helios

advanced simplicity

Product

The OSL Helios reader is a professional instrument for measuring Optically Stimulated Luminescence (OSL). The first prototype of Helios was constructed in 2009. In the next few years, several versions of the reader were built and tested. Results of the measurements were successfully presented at several international conferences and published in highly ranked scientific journals. This led to the development of the current commercial version of the reader.



Main features of the OSL Helios reader:

Stimulation provided by interchangeable modules consisting of LEDs (e.g. blue light, green light, infrared, etc.) and optical filters selected according to the needs of the user.

Different configurations of stimulation modules are available e.g. two types of LEDs with bichromatic or monochromatic operation.

Detection carried out by a modified integrated photon counting module with quartz window, counter electronics and computer interface.

Dedicated user-friendly software provides real-time luminescence readout capability under Microsoft Windows OS.

Typical and new advanced methods of optical stimulation including CW-OSL (continuous wave OSL), POSL (pulsed OSL), VD-OSL (variable delay OSL), HM-OSL (harmonically modulated OSL) and many others.

Online control of the stimulation light.

Built-in bichromatic illumination system (safe light) for easy sample change.

Fast time resolved measurements.



Applications:

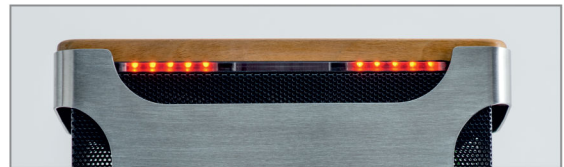
Dosimetry of ionizing radiation:	Optical dating:
personal,	archeology,
environmental,	geology.
medical,	
metrospective,	Basic luminescence
accidental.	research.



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