



lexsygresearch

the most advanced TL/OSL reader

Applications

Luminescence dating | Material research | Authenticity testing
Accident dosimetry | Radiation protection | Food irradiation
Solid state dosimetry | Bioluminescence and more



Features of lexsygresearch

Modular design

Interchangeable OSL stimulation units (up to 3 wavelengths per OSL), accommodates up to 4 detection units and up to 2 irradiation sources

No crosstalk

Independent operation of measurement chamber and sample reservoir ensures absence of both stimulation and radiation crosstalk

Nonstop operation

Ability to load and unload samples while another sample is undergoing analysis/treatment inside the measurement chamber

Flexibility

Software controlled switch of detection filters within a measurement sequence

Homogeneity

Highly homogeneous and stabilized optical stimulation provides identical measurement conditions

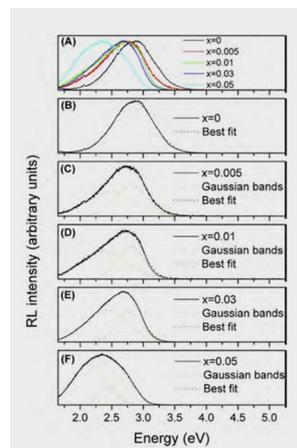
Accessibility

IP based system allows remote operation and technical support from anywhere in the world

Easy upgrade

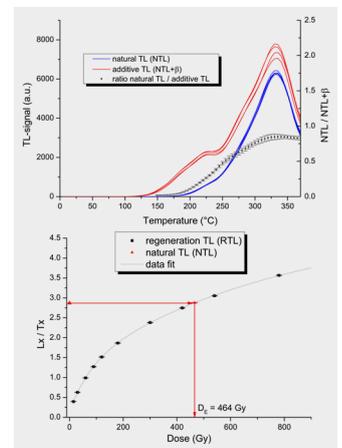
Modular design allows future expansion of device capabilities by easily adding components

Material research



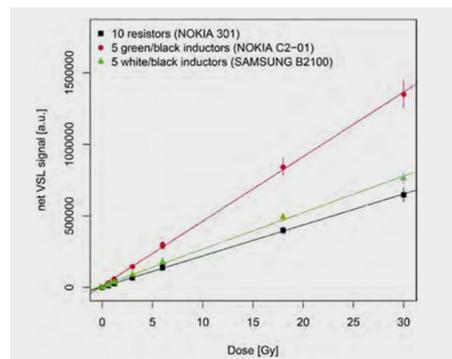
Radioluminescence investigation of Ce incorporation in LiLaZr (from Trofimov et al., 2017).

Luminescence dating



Thermoluminescence (orange-red TL) measurements of heated clay and SAR dose response curve measured with a red sensitive PMT (modified after Richter et al., 2017).

Dosimetry



Violet-OSL (VSL) dose response curves for resistors and inductors (from Bassinet et al., 2017).

