

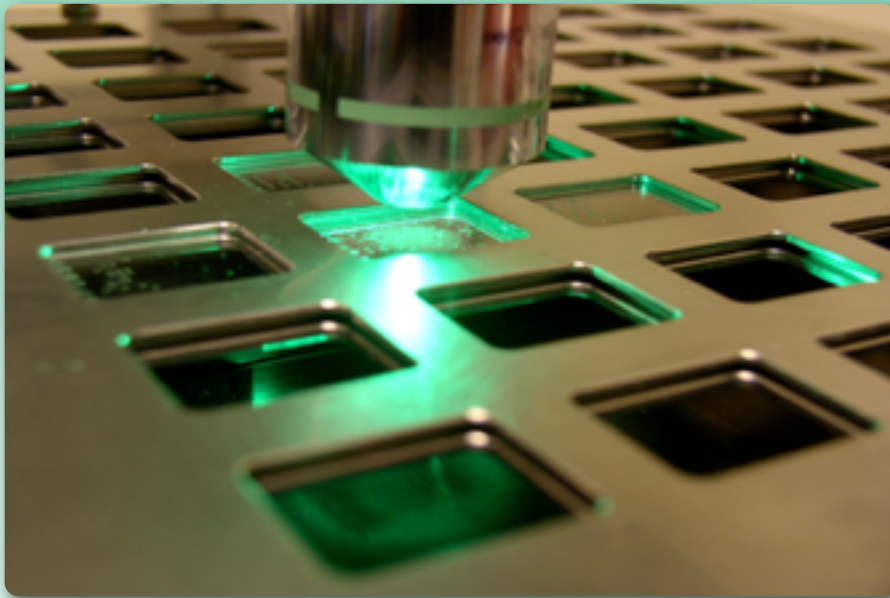
TASL

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Always on the right track with TASL



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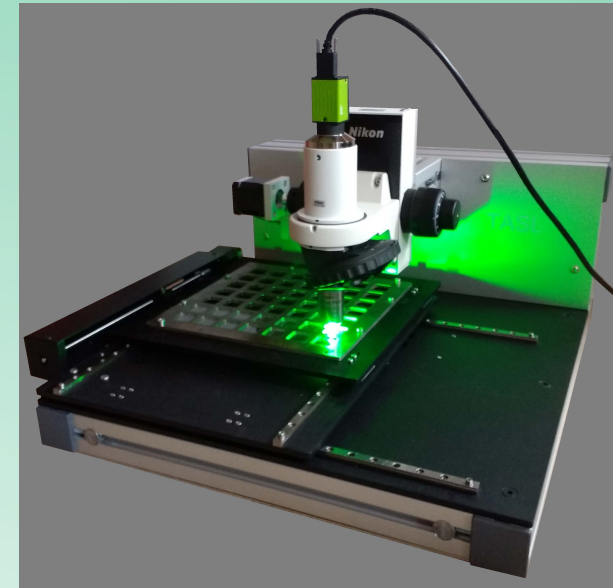
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## TASLIMAGE

### Radon dosimetry system

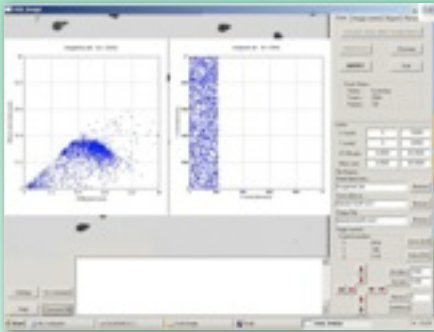
A complete system for etching, scanning and analysing  
TASTRAK plastic nuclear detectors



Track Analysis Systems Ltd. specialist in etchable plastic  
and laboratory systems for radiation research and dosimetry.

## We offer the following products and services:

The **TASL** system for **neutron and radon dosimetry** is a fully automated, high specification image analysis readout system. It is a microscope based system with high quality Nikon optics and ultra-fast 3-axis motorised control, allowing a high throughput, unparalleled accuracy and low background.



We manufacture our own high sensitivity, low background **TASTRAK PADC** plastic elements, cut and scribed to customer requirements.



We also offer a validated radon dosimetry service named **RADOSURE**.

The unique feature of the system is our **TASLIMAGE** software, developed by **TASL**. The software scans the plastic at a higher magnification than many other etched track readers, providing a better quality of track image for processing and better discrimination between tracks and background features.

### The key features of **TASLIMAGE** are:

- Fully automatic readout of batches of detectors.
- Automatic correction for response fading, allowing 12 months exposures.
- Low background, lower limit of detection 5 Bq/m<sup>3</sup>.
- High upper limit of detection 15 MBq/m<sup>3</sup>.
- Highly linear response, accuracy of 4% at 500 kBq/m<sup>3</sup>.
- Discrimination of radon/thoron.
- Automatic ID reading, both our own proprietary format and "Autoscan" format.
- Fast readout, typically between 10 and 20 seconds depending on user selectable options.
- Automatic background assessment (individual to each detector).
- Fully automatic autofocus, including live tracking of the plastic surface focus.
- Highly sophisticated image analysis techniques to discriminate between etched tracks and background features.
- The scan data is automatically converted to dose, and the results are displayed immediately in the record keeping database provided as part of the software. The data can also be exported to other programs such as Excel.