POLITRACK®

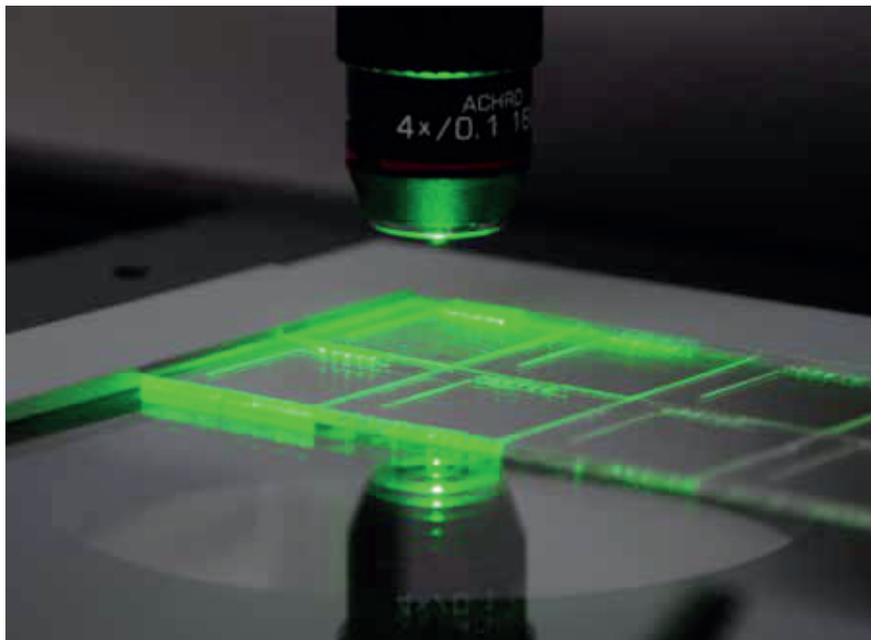## Applications

- Research
- Dosimetry service
- Radon CR-39
- Radon LR115
- Fast and thermal neutrons
- LET spectrometry

Features

- 200x200 mm^2 XY frame
- Any size of detector
- Automatic ID code reading
- Track morphological analysis
- Overlapping correction
- Ageing/fading correction (CR-39)
- Residual thickness correction (LR115)
- All parameters controlled by the operator

Description

Politrack® is a general-purpose reader for automatic scanning and track analysis in SSNTD. Main applications are research, radon and neutron dosimetry.

The user can set detector type (CR-39, LR115...), size and scan area. It is possible, as example, to read in sequence up to 64 CR-39 size 25x25 mm2.
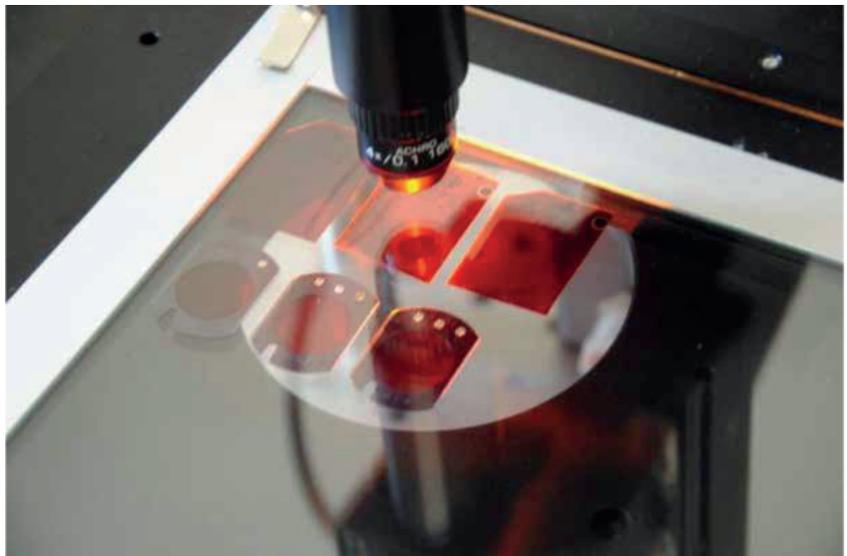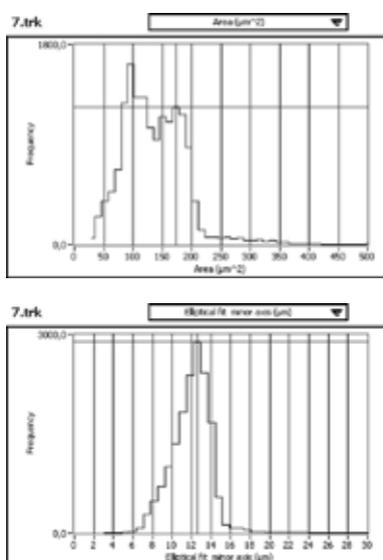
The morphological analysis allows to classify tracks coming from different particles or having different energies, and to remove noise signal.

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All the calculation algorithms are explained. The operator can apply and/or modify the morphological filters, and in real time, through a powerful graphic tool, visualise the results.

Output data files contain all data concerning the readings. If you change any parameter, a recalculation tool is available, no need to read again. The user can customize the output template.

Specifications

- 2550x750x40 mm honeycomb anti vibration breadboard
- 3 axes micro-step motor control board
- Microscope, 4x objective + pinhole
- 200x200 mm scanning frame
- Z axis precision linear stage, repeatability +/- 0.5 micron
- Camera 1/3" CCD USB3 1280 x 960 b/n, 30 frames/sec
- XY motorized scan table, 205x205mm, 90mm/sec, <1 micron resolution
- Led system for sample back-lighting
- Software packages: CR-39 radon, LR115 radon, CR-39 neutron/LET spectrometry.