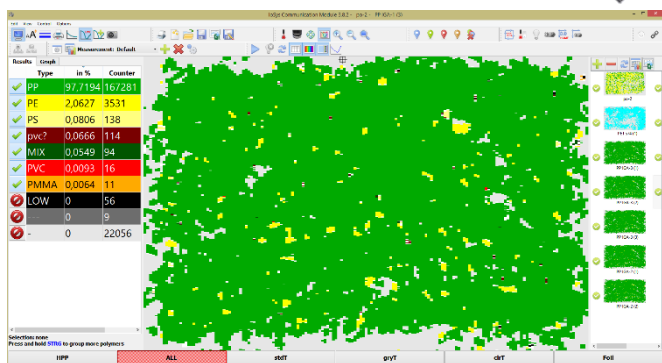


sIRoPAD

for fast analysis of plastic flakes, granules, pellets and crushed materials

With this fully automatic NIR-unit it is possible to identify up to 200 g non-carbonblack colored plastic parts directly as flakes, pellets, granulates or crushed material in an easy sampling way, being able to determine the quality, purity and the composition of the material very fast almost in ppm levels within 16 min!



The sIRoPAD system is the ideal low-cost solution for the quick check for impurities/contamination of PET flakes or for the detection of any other composition of thermo-plastic mixtures.



Operational Area:

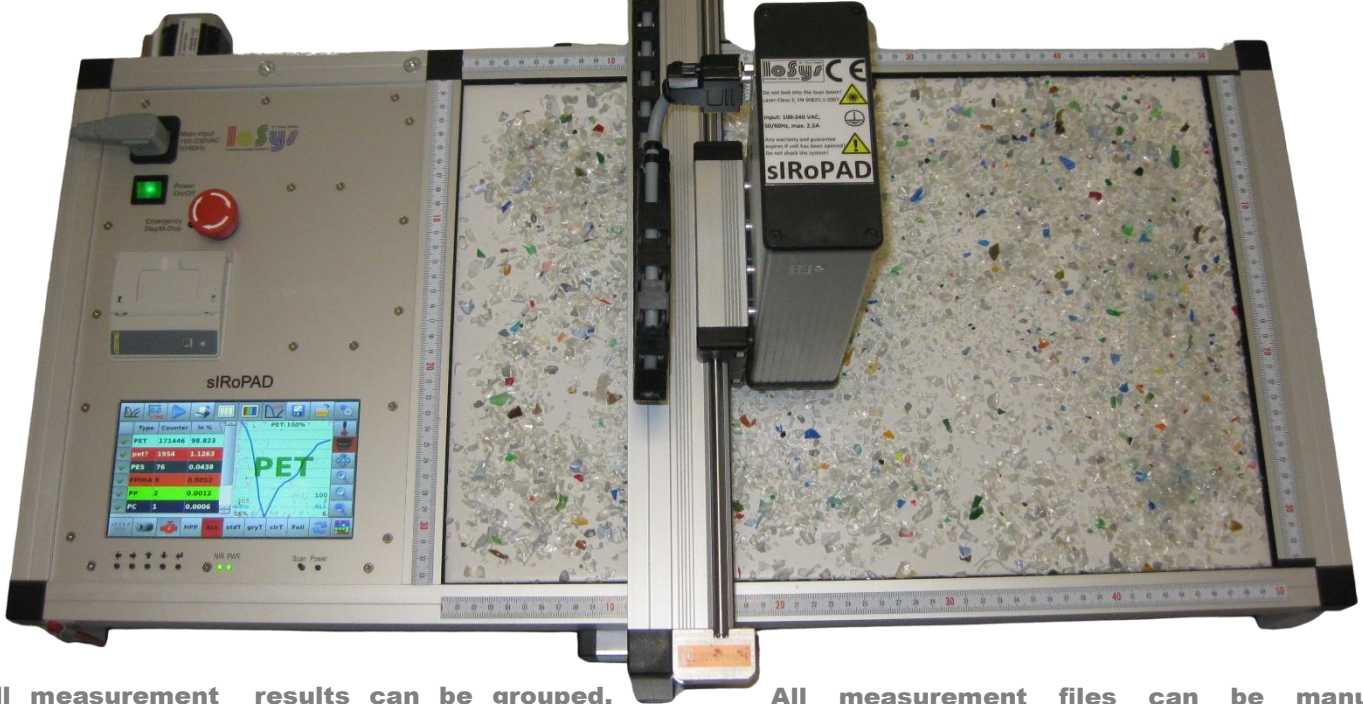
- * Plastics from household, packing and electric/electronics sections
- * Purity control of granulates, foils, pellets, flakes & grinded materials
- * Replacement of the PET-roasting test in an oven
- * Adjustable scanning area, plastic sizes smaller than 1 mm detectable
- * Scanning steps of 1-10 mm
- * Analysis and documentation
- * Pointing out the contamination

Technical Data:

- * Power Supply: 100-230 VAC, 50/60 Hz
- * 815 x 595 x 260 mm (height without NIR-camera)
- * 815 x 595 x 384 mm (height with NIR-camera)
- * Weight: 12 kg

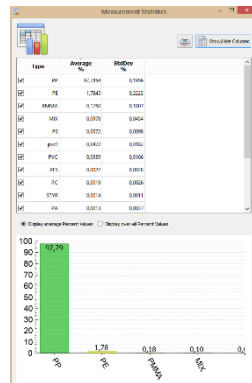
sIRoPAD scans the equally distributed samples on the ceramic reflection plate (50x33 cm) in an X/Y-pass way, measures and saves the analysis results with all information via USB-connection.

The sizes of the measuring area and the scanning parameters can be individually set depending on the material. Either as a single scan or as an automated batch with several scans with an individual area setting and parameters. Results can be saved manually or automatically.



All measurement results can be grouped, listed and arranged as desired and printed out on the mini-plotter and/or at the connected PC-printer as a complete analysis report.

All measurement files can be manually combined into analysis statistics which can be viewed in tabular or graphical form or exported as Excel-files. It enables quality controls over time periods, production processes or supplier qualities. Differences in the specific weight, thickness, etc. can also be corrected in the Template settings.

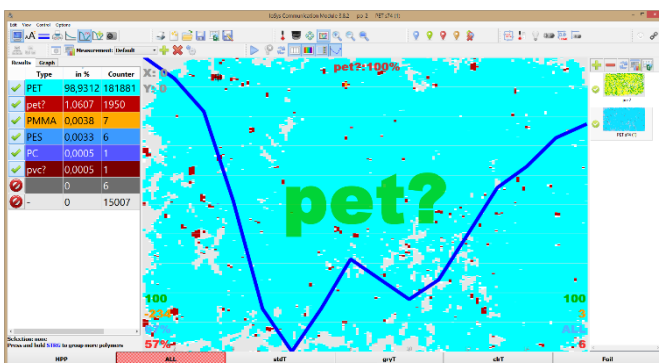


The ICM-evaluation-software for the external PC can be installed at any Windows-OS computer. The software allows detailed spectra viewing, loading, saving and editing. This possibility helps to develop own applications.

The analysis can be displayed graphically on the sIRoPAD-touchscreen and external PC-display. Several measurement statistics can be done. With Zoom-functions, it is possible to do manual crosschecks in the map during and/or after the measurement at material places under interest.

Following polymer types are in the database:

- PET * PE * PP * PVC * PS * ABS * PA * PC *
- PBT * SAN * PMMA * POM * PPO * PC+ABS
- * PVC+ABS * PC+PET * Cellulose * PE+PET *
- PE+PA * PP+PET * PLA * pet? * pvc?



Individual Re-measurements can be carried out at any place. Questionable particles can be pointed out by a red-laser dot. This unique feature allows to review the detected contamination in detail.

