## sIRoGran

## Automatic granule scanner for all mixed granules and flakes with statistic functions



Technology by IoSys - Europe's Leading Specialist for Plastic Detection

With the near infrared spectrometry of the IoSys units it is possible to identify non-dark plastic parts like flakes, pellets, ground material or granulates directly in order to be able to determine the quality, purity and the composition of the material very quickly.



The measuring principle is the diffuse near infrared reflection spectroscopy where the characteristic absorption patterns of different polymer types in a typical spectral region are used. The polymer sample is radiated with infrared light and the reflected light of the measuring place is analyzed by a near infrared detector array.



The stationary device includes the optical NIR-system and the computer, which controls and evaluates the identification process as well as the power supply unit. Software operation can be made by an external keyboard or by the integrated VGA touchscreen. For control measurements in insecure cases a chosen position can be selected by pressing this square on the screen. The measuring head then is automatically driving to this certain position and checking this place again.

With the USB-Stick data exchanges can be made to external computers. A built-in Mini-Plotter prin-

ting out the results allows result documentation.





For manual plastic identification the measuring rod simply is pressed on to the analysis sample. The measurement begins by pressing the start button on the rod. Within a second the VGA-touchscreen shows the recognized polymer.

The software allows detailed spectra viewing, loading, saving and comparing. This possibility helps to develop own measuring applications besides the standard ranges.





With the **slRoGran** it is possible to identify the following relevant plastic types independent of surface texture and humidity content in their mixing proportions or purity qualities:

PA6/PA66 PA12 PE PP ABS	PS PPO SAN PC+PET PC	PC+ABS PBT PET PMMA POM	ABS+PVC PVC PE+PA PE+PET PP+PET	PLA Cellulose
Technical	Data:			12
- Dimensions:		480 x 290 x 390 mm		
- Weight:		8 kg		

- Power Supply: 100 - 230 VAC, 50/60 Hz

**Optional Accessories:** 

External VGA-Screen for a bigger display of the results

## Specifics of the unit:

- Operational Area: Plastics from the household, packing and electric/electronics range
- Purity control of bulk materials like e.g. granulates, ground materials, flakes and pellets
- Contact-free and non destructive measurement
- Measuring field size adjustable, grain sizes even less than 1 mm are measurable
- Measuring steps of 0.15 mm 1.5 mm
- Detection and documentation of mixing ratios
- Individual manual measurements possible

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