

STOE STADI P COMBI

high throughput and combinatorial measurements



Based on the well known STADI P, STOE has developed a new powder diffractometer for high throughput and combinatorial measurements in transmission geometry.

With its new designed sample stage providing a variable x,y grid for various slide-in sample holders, eg. for up to 96 different samples, the STADI P COMBI offers highest efficiency combined with all the advantages of the STADI P system.

An asymmetrical cut Ge(111) monochromator provides pure $K\alpha_1$ radiation focused on the detector for highest resolution. The STADI P COMBI can be operated with all STOE detectors.

A fully automated evaluation feature in the WinX^{POW} software enables the user to examine all samples in a row.

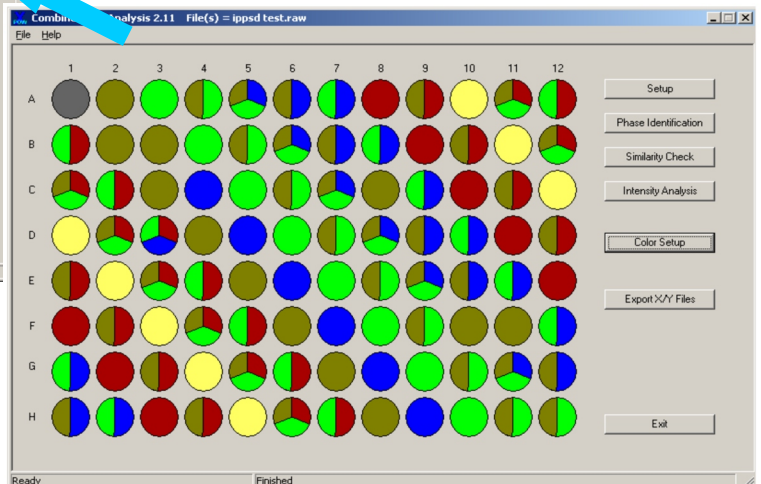
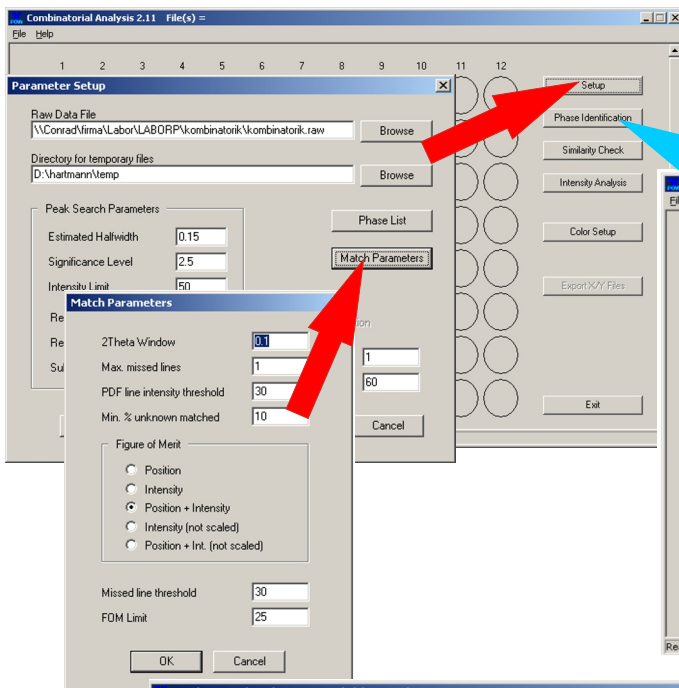
A list of all possibly existent phases is compared to the observed patterns and all matches are represented in a raster graphic. This individually generated phase list offers the highest flexibility in the choice of the used reference parameters.

All the other well known components of the STADI P series, such as the capillary- or the transmission sample holders or various temperature attachments can of course be used on the STADI P COMBI without any kind of realignment.

Software

The main menu and the "Setup" sheet of STOE's new combinatorial analysis software.

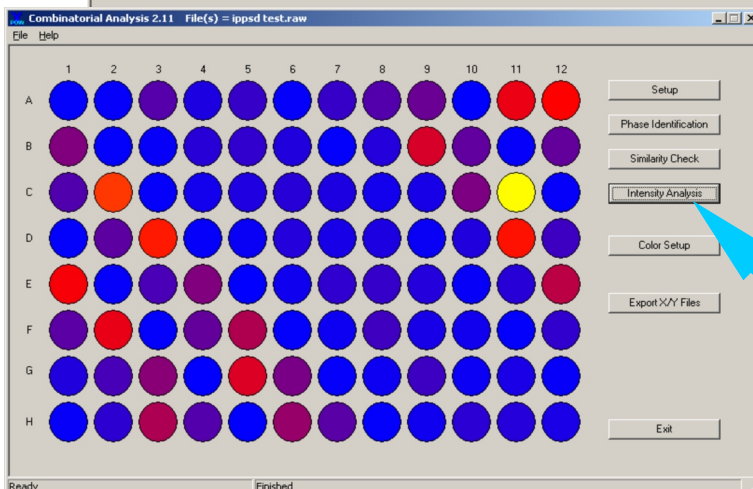
For each dataset peak search parameters concerning the peak shape and intensity versus the background can be defined. Search/match parameters are input using the pop-up window "Match Parameters".



Phase Identification:
 Grey: Unidentified sample
 Yellow: No peaks found
 Red: Citric acid
 Blue: Ascorbic acid
 Green: Uric acid
 Gold: Caffeine



Similarity Check:
 Same colour, same composition



Intensity Analysis:
 Detecting the main intensities of a possibly present phase, here the citric acid.