## Methods, IAAC, Hillebrecht

## Research Stereomicroscope

Microscopy

Model:

Unit and Room: Responsible: Further information: Oympus ZSX12 with SZX Illumination Base and ColorView8 CCD-camera Inorg. Chemistry, Basement, R. -134 Anita Becherer, 203-6125

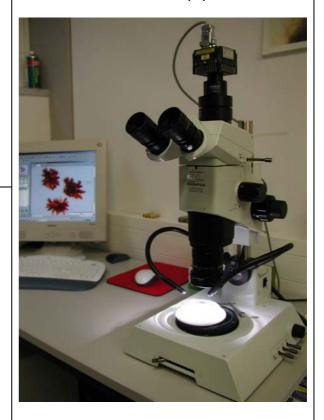
Short Description:

Stereomicroscope with transmitted and incident light and CCD-camera for liverecording pictures
Zoom ratio 12,8 (0,7X to 9X)
WD 74mm objective
SIS (Soft Imaging System) Software analySIS 3.0 for image processing

Available Experiments/Techniques:

Picture exposure of crystals, liquids and solid samples in transmitted or incident light Depth of field pictures with EFI (Extendet Focal Imaging) calculation MIA (Multiple Image Alignment) for big samples 3D-measurements Digital Image Processing for quantitative multiphase analysis

Picture of the Equipment



Specia	l Equi	pment:

Transmitted Brightfield/Darkfield Illumination Base Analyzer and simplyified transmitted light polarizer

Olympus Camedia 3040 digital camera

Measurements on the equipment are currently	
done by:	Students after Introduction
	Students after extensive training
	personal
Recent Publications, where this instrument	Chem. Eur. J. 2008, 14, 7331; Angew.
was	Chem. 2005, 118, 172.
important (optional): Give citation	
Typical problems that may be solved with this	microscopy of solid samples; digital image
instrument:	processing for particle size determination
	and quantitative multiphase analysis