



ZEISS Axio Observer

Your Inverted Microscope System for Metallography



Polarized image of zinc with deformation twins. Courtesy: University of Applied Sciences, Aalen, Germany.



Brightfield image of gray cast iron with GJL flake graphite. Courtesy: University of Applied Sciences, Aalen, Germany.

Choose between different stand versions of this inverted microscope: from manual encoded to motorized. The fully motorized stand expands the performance capability by motorized focusing (z-control) and automatic component recognition. Use the TFT touchscreen for convenient input and monitoring and for operating the entire microscope.

Make Axio Observer your platform for your automatized scanning and imaging of non-metallic inclusions (NMI) in steel.

The inverted microscope Axio Observer offers all relevant contrasting techniques in transmitted and reflected light: brightfield, darkfield, polarization and fluorescence in reflected light, as well as innovative contrast methods such as C-DIC (circular DIC), a polarization technique perfect for contrasting oriented structures.

Highlights

- Platform for your automated NMI investigations
- Automatic Component Recognition (ACR)
- Enhanced modularity for ever changing applications
- Inverted microscope that guarantees reproducibility and stability
- Three stand models available:
 - Axio Observer 3 materials
 - Axio Observer 5 materials
 - Axio Observer 7 materials



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Technical Data	Axio Observer 3 materials	Axio Observer 5 materials	Axio Observer 7 materials
Stand	Manual	Manual Motorized (optional)	Motorized
Encoding	✓	✓	✓
Power Supply	Internal	Internal	External
Display		Optional LCD display *	TFT with optional docking station
1x Tube Lens Mount	✓	Optional	Optional
Optovar Turret		Optional 3x, coded	Optional 3x, motorized
Light Manager	✓	✓	✓
Contrast Manager			✓
Revolving Objective Nosepiece	6x HD DIC coded	6x HD DIC coded	6x HD DIC motorized ACR
Reflector Turrets (optional)	6x manual	6x manual 6x coded 6x motorized 6x motorized ACR	6x manual 6x coded 6x motorized 6x motorized ACR
Documentation ports (optional)	Side port left	Side port left Side port right Side port left/right Front port/base port	Side port left Side port right Side port left/right Front port/base port
Switching Mirror for Two Lamps (optional)	Manual	Manual Motorized	Manual Motorized
Reflected Light			
Apochromatic Manual	✓	Optional	Optional
Apochromatic Motorized		Optional	Optional
Manual Diaphragm Slider	Optional	Optional	Optional
Motorized Diaphragm Slider		Optional	Optional
Transmitted Light			
Manual Condensor	Optional	Optional	Optional
Motorized Condensor		Optional	Optional

* Either holder with LCD display and light manager or carrier for transmitted-light illumination required

Three Stand Models:

- Axio Observer 3 materials – Thanks to the light manager and coded nose-piece, even the entry-level model will ensure convenient use and reliable results
- Axio Observer 5 materials – This stand version offers additional coded and motorized components that can be read via the PC, for greater certainty in measurements and greater operating convenience
- Axio Observer 7 materials – This fully motorized stand expands the performance capabilities by motorized focusing (z control), ACR, TFT display and docking station. Currently the ultimate in operating convenience, flexibility and reproducibility available to materials microscopy

Suitable Applications:

- Analyses of graphite in steel
- Phase analyses in casting processes
- Quality control in automotive applications
- Failure analyses in building materials
- Analyses of non-metallic inclusions
- General applications in materials research and industry

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