

Axioscope fluorescence microscope with cooling stage

<https://search.researchequipment.wur.nl/SearchDetail.aspx?deviceid=b28b17ac-d92e-4a64-b68b-98924c3692b9>

Brand

Carl Zeiss BV

Type

Axioscope A1



Contact

Anke Trilling (anke.trilling@surfix.nl)

Organisation

Agrotechnology & Food Sciences Group

Department

Shared Research Facilities

Description

The Zeiss Axio Scope is an upright light microscope which can be operated with transmitted and reflected light. It can be used for brightfield and fluorescence microscopy. The microscope can be equipped with a programmable temperature controlled stage, by which the temperature of the sample can be varied from -25 to 120°C. This equipment is located at Surfix (Plus Ultra, Bronland 12, Wageningen Campus).

Technical Details

Light sources

- transmitted light: halogen (50 W);
- reflected light: metal halide (75 W).

Reflector modules

- fluorescence filter set 38 (exc 470/40 nm, em 525/50 nm);
- fluorescence filter set 20 (exc 546/12 nm, em 575-640 nm);
- brightfield reflected light.

Objectives: 5x

10x
20x

Ocular: PL 10x/23

Camera: AxioCam 503 monochromatic

Software: Zen 2.3 lite (blue edition)

Temperature controlled stage (PE120, Linkam)

- temperature range: -25 – 120 °C (Peltier);
- control and stability: 0.1 °C;
- heating/cooling rate: 0.1 – 20 °C/min;
- sample area 35x32 mm², 5 mm aperture for transmitted light;
- programmable (standalone controller).

Applications

The Zeiss Axio Scope is a general purpose upright light microscope for materials research applications.