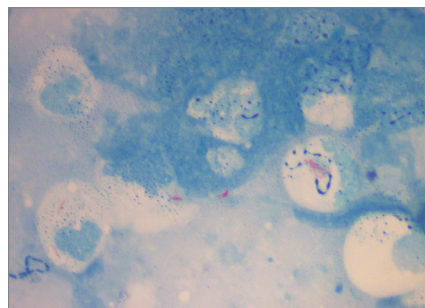


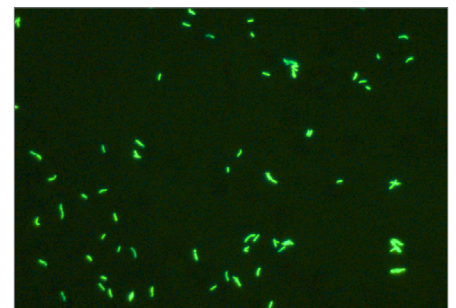


ZEISS Primo Star iLED

The Flexible, Complete Solution for Testing Tuberculosis



Conventional Ziehl-Neelsen staining of Mycobacterium tuberculosis, courtesy of Dr. med. Harald Hoffmann, WHO - Supranationales Referenzlabor IML, Gauting, Germany



Auramine staining of Mycobacterium tuberculosis, courtesy of Dr. med. Harald Hoffmann, WHO - Supranationales Referenzlabor IML, Gauting, Germany

Continue a tradition started by Robert Koch: research tuberculosis with a microscope from ZEISS.

In 1882, Robert Koch discovered *Mycobacterium tuberculosis*, the pathogen that causes tuberculosis. For today's researchers, ZEISS has developed a new technology in the battle against infectious diseases: Primo Star iLED, the new tuberculosis test microscope.

Primo Star iLED is the flexible solution for tuberculosis test applications with LED fluorescence excitation and transmitted-light brightfield illumination.

Highlights

- Reflected-light fluorescence
- Rapid switching from fluorescence excitation to brightfield illumination
- Economical LED concept
- Battery pack for operation without a main power supply
- Special eyecups eliminate the need for a dark room during a tuberculosis test.
- Simple to operate
- Durable and robust
- Tried-and-tested ZEISS optics made from high-quality glass
- Optics are antifungus treated

Ziehl-Neelsen or Auramine-O

Analyze tuberculosis with Ziehl-Neelsen staining or use fluorescence excitation, e.g. with Auramine-O dye. Primo Star iLED allows you to switch easily between the two modes.

Using Primo Star iLED, it is also possible to use all the applications and contrasting methods that are relevant to healthcare:

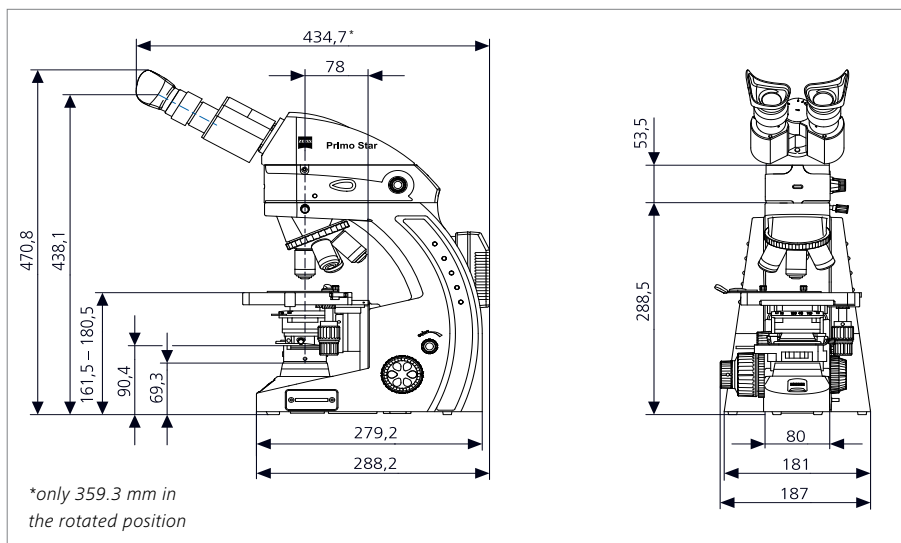
- Stained tissue sections in medicine
- Unstained cells in phase contrast in medicine and biology
- Examination and analysis of germs and bacteria in the lab and during field work





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Special Features:

- All optical components in Primo Star are anti-fungus treated.
- Intensity indicator panels in a 5-step LED-display on both sides of stand

Accessories:

- Eyepiece pointer
- Battery pack
- Binocular phototube 50%:50% (vis:doc)
- Phase contrast equipment (10x/Ph1; 20x/Ph2; 40x/Ph2; 100x/Ph3; HAL (30 W/6 V), with phase sliders)
- Darkfield equipment (DF slider 0.65)
- Camera adapters: C-mount adapter 1/2"; C-mount adapter 2/3"; digital camera adapter

Norms and Standards Met:

CE, IVD 98/79/EG, CSA, ISO 9001, ISO 13485, ISO 14001.

Technical Data

Optical system	Color-corrected infinity optics
Parfocal distance	45 mm
Tube length	180 mm
Magnifications	100x to 1000x for visual observation
Eyepiece tubes	Swiveling Siedentopf tube with upper and lower position: upper position offers approx. 40 mm extra viewing height; adjustable interpupillary distance: 48 mm to 75 mm; tube can be rotated 360°; 30° viewing angle (ergonomic angle); binocular tube
Eyepieces	WF 10x/18 Br. foc. with special eyecups
Objectives	Plan-ACHROMAT 10x/0.25 D=0 WD: 4.51 mm, Plan-ACHROMAT 20x/0.4 D=0 WD: 1.00 mm Plan-ACHROMAT 40x/0.65 D=0 WD: 0.45 mm, Plan-ACHROMAT 100x/1.25 D=0 WD: 0.30 mm
Condenser	Abbe condenser 0.9/1.25 (Fixed-Koehler)
Nosepiece	4x, inclined backwards
Illumination	Modular illumination concept with drawer for transmitted-light illumination; white-light LED (3 W/6 V); blue-light LED (455 nm; 3 W/6 V); LED class 3B; reflected-light fluorescence
Stage	Stage with right-hand operation, w x d: 140 mm x 135 mm, Travel range: w x d: 75 mm x 30 mm
Z-drives	Fine drive: 0.5 mm/rot.; Coarse drive: 45 mm/rot.; Total travel range: 15 mm
Weight	Approx. 9.6 kg



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