

CyScope® TB

Fluorescence Microscope for Tuberculosis Testing



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Portable and Battery-Operated Fluorescence Microscope for TB Diagnostics

The Partec CyScope® is a new uniquely innovative microscope for fluorescence light detection. It employs incident blue light and transmitted light detection, either simultaneously or separately. It also integrates the latest available generation of powerful high-efficiency LED light sources with an extremely long lifetime of several thousand of hours and highest efficiency as well as the most sophisticated optics. For the first time, a fluorescence microscope is being offered that is battery-operated and mobile, designed for several hours of use completely independent from any regular power supply. The Partec CyScope® TB features excitation by a high power royal blue LED (455nm) for Auramine based TB staining kits.

For the CyScope® TB, a CCD camera upgrade is offered (optionally available) for taking images of the slide for further investigation by image analysis software on a Windows™ based PC. The CyScope® is developed and produced in Germany following the long German tradition in manufacturing using the highest quality techniques in optics and microscopy. With this dedicated reliable and rapid diagnostic technique, Partec Essential Healthcare is supporting the global fight against TB.

Highlights

- _ **portable and battery-operated**
- _ **ultracompact robust microscope design**
- _ **light source alignment/optical adjustment not needed**
- _ **highly affordable**
- _ **Partec CyStain® TB test**

- _ reliable performance also in most difficult infrastructural conditions
- _ dimensions [mm]: W 90/150 x H 345 x D 195, weight: 3.5 kg (binocular)
- _ dimensions [mm]: W 90/150 x H 295 x D 175, weight: 2.7 kg (monocular)
- _ high power Royal Blue LED (455nm) for incident light fluorescence excitation
- _ white light LED for transmitted light
- _ achromatic objectives: 20x, 40x, 100x - oil immersion
- _ eye piece: 10x wide-field
- _ camera connector (for CCD camera upgrade with USB connection to PC)
- _ power supply: built-in rechargeable batteries
- _ microprocessor controlled battery charger
- _ highly suitable and affordable TB diagnostics for all settings

Application

High Sensitivity Tuberculosis Testing



Tuberculosis TB causes more than 1.7 million death cases every year (every 15 seconds one case). 9 million new TB cases are reported every year. 80% of the known TB cases occur in Sub-Saharan Africa and Asia. 30% of all HIV infected have developed a co-infection with TB. While the required drugs would be available, the

treatment strategies in the fight against TB are suffering from the bottleneck of dedicated and suitable diagnostic tools.
[Read more...](#)

Reagents

Partec CyStain® TB staining kit (240 tests)



Partec CyStain® TB:
Tuberculosis staining kit for the smear examination with fluorescence microscopy.

Order Information

Partec CyScope® TB - Instruments / Reagents / Options

CY-S-4005R	Partec CyScope® Plus TB, binocular, royal blue LED (455nm) excitation
CY-S-4004	Partec CyScope® TB, monocular, royal blue LED (455nm) excitation
CY-S-4018	USB CCD Colour Camera Upgrade for CyScope® Plus TB
CY-S-4011	USB CCD Colour Camera Upgrade for CyScope® TB
CY-S-4021	Upgrade Kit for 365nm UV LED Excitation (e.g. for Malaria Diagnosis)
05-8961	Partec CyStain® TB staining kit (240 Tests)