

See a New World with LED Fluorescence Microscopy

The ParaLens Advance, an innovative new microscope attachment from QBC Diagnostics, will open your eyes to the worlds of research and clinical applications possible only through LED fluorescence microscopy. Its unique, patent-pending design distinguishes it from conventional fluorescence microscopes with features that deliver unrivaled simplicity and convenience:

■ Upgrade Any Light Microscope

The ParaLens Advance can be used with any compound light microscope, with no need to invest in unnecessary new equipment. It easily attaches as an objective, with a detachable filter set arm that allows users to change between objectives whenever necessary.

■ Durable, Bright LED Light Source

The durable ParaLens Advance LED light source has an average life of 20,000 hours and a rugged design that can withstand any environment. The LED light is as bright as a 100 Watt mercury vapor bulb, providing clarity during sample review even in direct sunlight.

■ Multiple Power Options

The ParaLens Advance light source can be powered by any outlet with the included AC to DC power pack, or anywhere else with the addition of portable power options such as the ParaLens Advance Portability Pack or the QBC Mobile Power Station.

■ Custom Designed for User Needs

The ParaLens Advance is available in multiple configurations for users with specific clinical or research interests, including tuberculosis or malaria detection. Contact the experts at ParalensAdvance@gbcdiag.com to determine the ideal configuration for your needs.

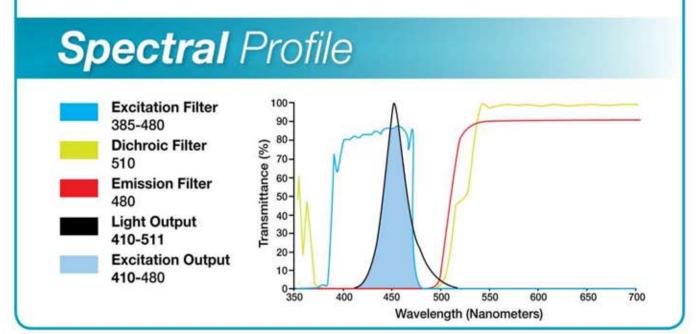
With all of these features and more, the ParaLens Advance makes it easier than ever to see the world of benefits possible with LED fluorescence microscopy.



How It Works



- Dichroic Beam Splitter: The beam splitter reflects blue light through the objective to the sample. It then allows emitted light from the sample to pass through directly to the viewer.
- Objective: The ParaLens Advance is currently available with four high-quality objective strengths: 20x (Dry), 40x (Dry), 60x (Oil), and 100x (Oil).
- 8. Emission Filter: This filter reduces background noise and optimizes the fluorescence signal.





Where Can It Be Used?

Fluorescence Microscopy can be used for numerous research, analytical, and clinical applications.

Of particular interest is its potential impact in the detection of diseases that plague many parts of the world, as discussed to the right:

Tuberculosis

The World Health Organization recommends the use of LED fluorescence microscopy for the detection of tuberculosis Acid Fast Bacilli (AFB) in sputum samples treated with Auramine O stain.¹

The ParaLens Advance with 20x and 40x Objectives works with QBC F.A.S.T. (Fluorescence And Staining Technologies) AFB Kits to meet this requirement, providing unmatched clarity and speed in AFB detection.



Parasitology

The ParaLens Advance with 60x Objective is designed to work with the QBC Malaria Test, a capillary blood tube coated with fluorescent acridine orange stain, for the detection of paras.

The QBC Test provides sensitivity 5.5 to 7 percent greater than Giemsa thick films in parasite detection, with just a fraction of the preparation and review time.^{2,3}



Other Diseases

In addition to tuberculosis and malaria, the ParaLens Advance can be used to screen for numerous other diseases, including: filariasis, babesiosis, trypanosomiasis, blastocystis, relapsing fever, Lyme disease, leptospirosis, Trichomonas vaginalis, girardiasis, cryptosporidiosis, viseral leishmaniasis, and pneumococcemia.⁴

Portable Power



The ParaLens Advance has been designed for easy portability, with power options that allow it to be used anywhere:

Portability Pack Accessories

ParaLens Advance Portability Pack accessories provide multiple alternative power options for the LED light source, including a solar battery, a USB cable, 12-volt battery clips, and a cigarette lighter adapter. These accessories are available separately, or packaged together in a durable plastic case.

QBC Mobile Power Station

The QBC Mobile Power Station can power the ParaLens Advance, the QBC Capillary Centrifuge, or any other products requiring a steady remote power source. The Mobile Power Station has a rechargeable 22 Amp-Hour battery and multiple AC and DC inputs, along with other convenient features.

ParaLens Advance Specifications

(ParaLens Advance with 20x/40x, 60x or 100x

Objectives, in case)

Dimensions W 12" x D 3.9" x H 8.3"

(30.5 cm x 9.9 cm x 21.1 cm)

Weight 3.1 lb (1.41 kg)

(ParaLens Advance Complete Fluorescence System

with Portability Pack, in case)

Dimensions W 18.5" x D 4.8" x H 15"

(47.0 cm x 12.2 cm x 38.1 cm)

Weight 7.7 lb (3.48 kg)

Ordering Information

QBC ParaLens Advance with 20x and 40x
Objectives

QBC ParaLens Advance with 60x Objective

QBC ParaLens Advance with 100x Objective

424331
QBC ParaLens Advance Complete
Fluorescence System with Portability Pack

QBC ParaLens Advance Microscope

424294

References

Accessory

- World Health Organization Website, 2010. Web. 1 Dec. 2010. (http://www.who. int/tb/laboratory/who_policy_led_microscopy_july10.pdf)
- Bentio, A.; Roche, J.; Molina, R.; Amela, C; Alavar, J. (1994): Application and Evaluation of QBC Malaria Diagnosis in a Holoendemic Area. Applied Parasitology. Vol. 35: 266-272.
- Oloo, A.; Ondijo, S.; Genga, I.; Boriga, D.; Owaga, M.; Ngare, D.; Gathecha,
 E. (1994): Evaluation of the QBC Method to Detect Malaria Infections in Field Surveys. East African Medical Journal. Vol. 71, No. 5.
- 4. References available upon request from QBC Diagnostics.



QBC ParaLens Advance

Old Station Park Buildings
St. John Street
Horwich
Bolton
Lancashire
BL6 7NY, UK
Tel: +44 (0) 1204 460446
sales@woodleylabdiagnostics.com
www.woodleylabdiagnostics.com