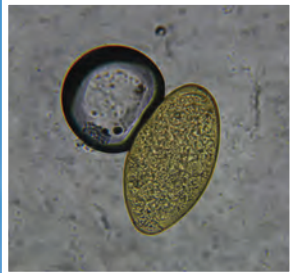




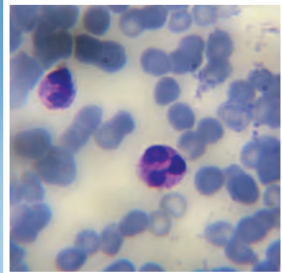
Nm¹ THE NEWTON MICROSCOPE

AFFORDABLE MICROSCOPY AT THE HEALTH PERIPHERY

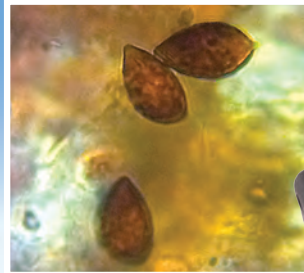
PRICES FROM
£349



Egg of fasciola gigantica



Malaria parasite



Cortinarius rufo-olivaceus spores.
1 phone x1000 oil. 10 microns



West Greenland ice sheet, examination
of photosynthetic microorganisms



Kenya - Veterinary and livestock monitoring

HAND-HELD OPTICAL BRIGHT FIELD MICROSCOPE
SUPERB IMAGE QUALITY
X10, X40, X60 X100-OIL IMMERSION
BATTERY POWERED INBUILT LED ILLUMINATION
SMART PHONE AND CAMERA COMPATIBLE
COMPACT, LIGHTWEIGHT AND ROBUST

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FIELD MICROSCOPE**

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WITH WORLDWIDE SHIPPING

Gambia - in the field Malaria screening





DESCRIPTION

The Newton Nm1 is the first in a range of highly affordable field microscopes developed in Cambridge.

The Nm1 is a compact, hand-held, bright field inverted monocular microscope with a range of magnifications from x100 to x1000. The built-in white LED illumination system can be driven by internal replaceable batteries providing up to 1000 hours of illumination, or connected to a USB power source.

Newton accessories facilitate quick and easy image capture with smart phones, DSLR and CSC cameras. The Newton can also be tripod mounted.

VALIDATION

The operability and diagnostic capabilities of Newton microscopes have been in tests against conventional laboratory microscopes at Liverpool School of Tropical Medicine. The Newton was further field tested at the Medical Research Council (MRC) Laboratories at Fajara in The Gambia, West Africa.

APPLICATIONS

The Newton Microscope is designed for applications outside the laboratory where portability is the main criteria. This is particularly useful to many aspects of medical and veterinary investigations:

- Blood and Water-borne human and veterinary disease diagnoses – *Malaria, Schistosomiasis, Trypanosomiasis, Hookworm and Leishmaniasis.*
- *In-situ* examination of microscopic organisms in freshwater and brackish samples, such as algae, aquatic parasites and crustacea.
- Field-based testing of seeds and pollen for germination rate, contamination and disease assessment.
- Mobile environmental research, examining indicator organisms and particulates.
- Portable Tele-pathology and Epidemiology studies using images and meta/positional data captured by mobile telephones attached to the microscope.
- Veterinary fertility sperm checks at remote locations.

GENERAL SPECIFICATION

Monocular inverted

3D folded optical path

RMS standard path length and eyepiece fitment

Miniature objectives design

0.17mm cover slip corrected

Objective carrier up to x3 mounts

Standard fitment x10 N/A 0.25, x40 N/A 0.65

Optional third objective x60 N/A 0.80, or x100 oil N/A 1.25 - factory fit only

Standard eyepiece fitment x10 wide field fn 18

Variable white light LED illumination system with battery saver time-out

USB power socket back-up

Internal power 3 x AAA battery pack

Battery life up to 1000 hours at x100 and x400

Standard mounting points

XY mechanical micrometer slide movement and slide clips attachable

Cavity (fluids) slide supplied as standard

Smart phone and DLSR camera attachable

Die-cast and machined optical chassis

Hardened bearing surfaces

Die-cast Aluminium stage

Injection moulded rubber coated PC/ABS case

Weight - Minimum 480grams (Nm1 400 with slide clips and USB power source connected)

Main body – Length 133mm, width 110mm, height 49mm

Size (max overall) – Length 154mm, width 122mm, height 66mm

Discount structures apply to NGO's and Ministries of Health in Tropical countries as part of our 'affordable microscopy' initiative. Please contact sales@newtonmicroscopes.com for further information

VAT - prices exclude VAT.

DUTY - import duty may apply depending on country