

**The ultimate in practical microscopy**

# All-In portable microscope

for observations in the laboratory and in the field



**Lightweight** (*only 1.1 kg*)

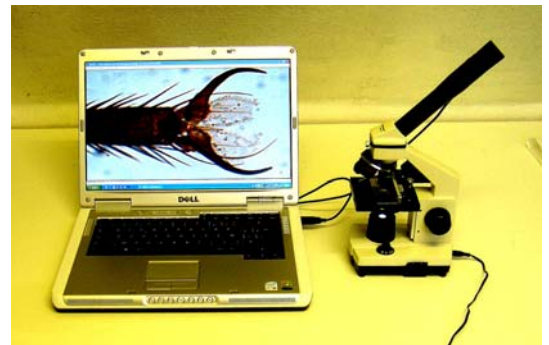
**Small size** (*only 28x16x10 cm*)

**Very low cost**



## UNIQUE

- **Webcam ocular and software** for direct observations on a computer screen
- **Battery illumination** for use of the microscope **anywhere, anytime**
- **Bottom illumination** as well as **top illumination** for analysis of transparent and non transparent objects



- Magnifications from 20x to >1000x
- Stage with cross-table
- Low voltage illumination with wall connector transfo or with battery

- Multiple accessories for preparation of specimens and slides
- Handy lightweight carrying case with handgrip and shoulder strap

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# **ALL-IN PORTABLE MICROSCOPE**

## **for observations in the laboratory and in the field**

The **All-in laboratory and field microscope** is a lightweight, small size, very practical and user-friendly microscope, which is suited for a variety of analyses of small objects in the laboratory as well as in the field. Despite its low cost, the All-In portable microscope has multiple assets which are normally only found in quite expensive laboratory microscopes.

### **Magnifications**

The All-In portable microscope is provided with a revolver with 3 objectives (4 x, 10 x and 40 x), and two eyepieces (5x and 16x), to obtain magnifications of 20x to 640x. It also has a special Barlow lens which allows to increase the magnifications at each combination of objective and eyepiece by a factor up to 2x.

### **Microscopic stage with cross-table**

The stage of the All-In portable microscope is equipped with a cross-table to clamp slides and freely move them on the stage in all horizontal directions, with the aid of 2 lateral screw knobs.

### **Illumination**

The All-In portable microscope has 2 separate lighting units with LED's, to make observations with illumination, "from the bottom" (transmitted light) for observation of transparent specimens, or "from the top" (incident illumination) for analysis of non transparent specimens. A combination of both types of illumination is also possible.

Illumination of the All-In portable microscope in the laboratory is obtained with a 240V/5V wall connector transfo with an extension cord and plug.

**Contrary to all laboratory microscopes, the All-In portable microscope can, however, be used "anywhere, anytime" (in the laboratory, in the field and at any site) independently of the electricity mains. The illumination is provided by a small battery holder containing three 1.5 V batteries, and which is connected to the microscope by an extension cord with plug.**

**The 3 batteries provide full light intensity for more than 2 weeks of continuous (24h) use which is equivalent to over 600 observations of half an hour each !**

### **Direct observations on a computer screen**

A further major asset of the All-In portable microscope is the "MicroOcular" camera housed in an ocular tube. This digital camera with the ocular tube is placed in the eyepiece holder of the microscope and connected to a USB port of a computer for direct microscopic observations on the computer screen. The accompanying CD-ROM has 2 specific software programmes for observation and video capture of living organisms, and for storage of microscopic views in a computer file.

### **Accessories**

The All-In portable microscope is stored in a handy lightweight carrying case with grip and shoulder strap. The case contains a panel provided on both sides with compartments for storage of the removable parts of the microscope and for various accessories for preparation of specimens and slides.

Unique microscope accessories are e.g.:

- nonbreakable (plastic) slides and coverglasses which bypass the classic "glass breakage" problems
- special nonbreakable coverglasses with grid, for countings and/or length measurements
- a mini-filtration unit for concentration of microscopic organisms (e.g. plankton) and/or materials in suspension. The mini-filtration unit consists of a 10 ml syringe and a small filter holder in which 10 µm nylon gauze filters are placed
- a transparent observation chamber with 4 compartments, which can be placed directly on the microscope stage
- a "microCut" device to prepare thin slices of (soft) biological materials.