Portable Micrograph Laboratory Microlab ML 3002

Portable laboratory to prepare crimp cross sections analysis

Microlab ML 3002 in operation

The handy case laboratory **Microlab ML 3002** facilitates the reliable processing of microsections anywhere in the production area without electricity or water connection. It can operate with a fully charged battery for about eight hours and is assembled and ready for use in about 90 seconds!

The proven optical unit with 4x zoom and colour digital camera delivers excellent microsections which can be analyzed comfortably with the innovative **analysis software X-Scan**. The scope of delivery includes all necessary accessories like terminal holder, test pins etc.

Performance features

- **Fully equipped micrograph laboratory** in a handy case
- In about **90 seconds** ready for operation
- **Superior digital colour camera** USB 3.0 with CMOS sensor and a resolution of 2592x1944 pixels
- Suitable for **small and medium contact sizes** from 0.1 to 4mm²
- Short processing time between 3 - 5 minutes per micrograph
- **Battery-powered**, no power connection required

Clamped microsection

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Polishing liquid free of hazardous substances

ML in rugged case made of HPX High Performance Resin

Further performance features

- **Fully equipped micrograph laboratory** in a handy case
- Flexible usage due to a powerful battery
- Proven zoom objective with **4x zoom**
- Long-life **LED illumination** at the microscope
- Sample holder Screwfix for **cross sections up to 4 mm²**
- Appropriate tool set for sample preparation
- Calibration base with measuring scale incl. calibration certificate
- Polishing of the cross section with **acid free electrolyte**
- **No deformation** of clamp and cable due to the cutting process
- With comfortable **analysis software X-Scan**

Analysis software X-Scan

Technical specification

Type	ML 3002
Power supply	230 V / 50 Hz (charging process)
Battery operation	12 V / 1.6 Ah
Smallest extension (15" monitor)	32x
Largest extension (15" monitor)	120x
Smallest crimp height for a full screen	1.8 mm
Largest crimp height for a full screen	7.0 mm
Measurement resolution µm per pixel	2.7 µm, 2.1 µm, 1.4 µm, 1.0 µm, 0.8µm, 0.7µm
Optical zoom grades	0.75 – 1.0 – 1.5 – 2.0 – 2.5 – 3.0
Camera resolution	2592x1944 pixels
Camera connection	USB 3.0 port
Object illumination	Long-life LED ring light for true to colour pictures
Fine polishing	Electrochemical
Cross section sizes	0,1mm² - 4mm²
Recommended temperature	22°C +/- 5°
Dimensions (W x D x H)	488 x 386 x 185 mm
Weight	14 kg (complete with case)