



"Your monitoring specialist"
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Crimping Line

Dual Optic Station OP 4003

Microlab dual optic station for large and small cross sections



Dual optic station OP 4003

The two different zoom optics of the **dual optics station OP 4003** offer great flexibility in terms of the cable cross-sections that can be examined. Thanks to the different measuring ranges of the microscopes, very small crimps as well as large objects up to 70mm can be inspected. The optics station is mounted on a stainless steel coated MDF board. It is supplied including the innovative and user-friendly evaluation software X-Scan, with which the micrograph can be analysed and measured, evaluated and documented according to relevant standards or specified customer requirements.

Performance features

- **Dual optics station** functionally and ergonomically integrated in an MDF board with stainless steel coating
- Suitable for both very small and very large crimp cross sections
- With convenient **X-Scan analysis software**
- Calibration base with measuring scale incl. calibration certificate

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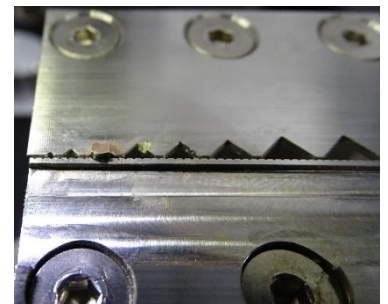
Equipment

Optics with 12x zoom

- First-class zoom optics with 12:1 image magnification
- Magnification 130-11x on 17" monitor
- Measuring resolution μm per pixel: 13 / 7.31 / 5.17 / 3.72 / 3.00 / 2.45 / 2.10 / 1.84 / 1.64 / 1.47 / 1.34 / 1.23 / 1.14 / 1.06
- Optical zoom levels: 0.58 - 1.0 - 1.5 - 2.0 - 2.5 - 3.0 - 3.5 - 4.0 - 4.5 - 5.0 - 5.5 - 6.0 - 6.5 - 7.0
- Reproducible detent function
- Microscope holder with coaxial coarse and fine drive for adjustment of image sharpness
- LED ring light with Fresnel lens AA100mm to illuminate the field of view
- Digital colour camera USB 3.0 with CMOS sensor and a resolution of 3072x2048 pixels
- Optional: accessory lens 0.25x or 0.5x for larger objects

Optics with 12x zoom for large cross sections

- Excellent zoom optics for large objects as well as for side measurement of contact parts
- Microscope holder with 2 adjustment knobs for focus adjustment (coaxial coarse adjustment)
- LED ring light white for illumination of the field of view
- Digital colour camera USB 3.0 with CMOS sensor and a resolution of 3072x2048 pixels
- High depth of field



Suitable for the analysis of very small crimp connections (up to AWG 30)

Overview sample sizes

	Minimum magnification		Maximum magnification	
	vertical	horizontal	vertical	horizontal
12x zoom	7.3 mm	9.7 mm	0.59 mm	0.8 mm
12x zoom with 0.5x lens	14.6 mm	19.4 mm	1.2 mm	1.6 mm
12x zoom mit 0,25x lens	29.0 mm	39.0 mm	2.4 mm	3.2 mm
6x zoom (Zoom 7000)	52.0 mm	70.0 mm	11.0 mm	16.0 mm

Technical specifications

- Type OP 4003
- Power supply 100 – 240 VAC 50/60 Hz
- Camera resolution 3072x2048 pixels
- Camera connection USB 3.0 port
- Object illumination Long-life LED ring light for true colour images
- Recommended temperature 22°C +/- 5°
- Dimensions (WxDxH) 650mm x 470mm x 680mm
- Weight 20.4 kg



Also suitable for the examination of components up to a size of 70x50mm