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Technical Microscope PCE-VM 21

The PCE-VM 21 consists of an optical microscope, CCD camera and monitor with LCD display. Due to the 75-fold magnification, it is possible to view very small parts very clearly. The PCE-VM 21 microscope is ideal for investigating solder joints on printed circuit boards, material defects on metal surfaces and more, making the PCE-VM 21 microscope a vital addition to your workshop.

- Continuous magnification from 10 ... 75 times
- Adjustable height for viewing of larger objects
- Transmitted light and incident light illumination
- Data transfer to PC via USB 2.0 connection
- User-friendly menu in 8 different languages
- Screen resolution of 800 x 600 pixels
- Fixed-increment, crossed-scale reticle for orientation purposes
- Direct viewing on the LCD display
- Digital video recording functionality
- Aluminum carrying case

Technical specifications

Total unit

Display 8" LCD

Resolution 800 x 600 pixels

10 ... 75 times, continuous

Magnification The magnification is the ratio between the object as observed on the screen and the actual size of the object. Relevant parameters are the enlargement of the lens / CCD eyepiece and size of the CCD lens / display.

Field of view 13.5 mm x 10 mm ~ 2.1 mm x 1.5 mm
0.5 in x 0.4 in ~ 0.08 in x 0.06 in

Power supply 100 ... 240 VAC, 50/60 Hz

Optical object lens of the microscope

Focus of the CCD eyepiece 0.5 times

Focus the main optical lens	0.7 times ... 4.5 times
Focus of the total optical lens	0.35 times ... 2.25 times
Working distance	95 mm / 3.7 in
CCD camera	
Display chip	Sony
Horizontal resolution	700 TVL
Light source	Reflected and transmitted light, lighting adjustable
Video output	1.0Vp-p, 75 Ω
Video mode	PAL
Operating voltage	12 VDC
Connections	USB 2.0, AV out
System requirements	Windows 2000
Working height	Min. 40 mm / max. 210 mm Min. 1.6 in / max. 8.3 in
Power supply	100 ... 240 V AC, 50/60 Hz
Dimensions	Baseplate: 235 mm x 155 mm x 64 mm 9.3 in x 6.1 in x 2.5 in
Height of the vertical axis	250 mm / 9.8 in
Weight	Approx. 4.8 kg / 10.6 lbs
Halogen lamp	
Operating voltage	100 ... 240 VAC, 50/60 Hz
Upper lamp	10 W / 12 V
Lower lamp	10 W / 12 V

Delivery contents

- 1 x PCE-VM 21 microscope
- 1 x USB interface cable
- 1 x video cable
- 1 x power cable
- 1 x dust cover
- 1 x aluminum carrying case with key
- 1 x object plate, glass
- 1 x contrast plate, black / white
- 1 x spare bulb for incident light illumination
- 1 x spare bulb for transmitted light illumination
- 1 x spare fuse
- 1 x cleaning cloth
- 1 x user manual