Hi-End Video Microscope Model LCDScopePRO20-Deluxe

Rotational Angled Lens (35°) for 3-D viewing • 8x~198x Magnification

LCDScopePRO20 Video Microscope incorporates state-of-art technology and offers crystal clear picture quality under high magnification. It makes observations comfortable and eliminates fatigue for long duration viewing. This Microscope incorporates high performance CCD imaging, high resolution LCD Screen, Zoom Lens and Fine Optics in an ergonomic design. It is a powerful and complete visual QC inspection system.

The 35° angled Rotational Lens provides depth viewing in complete 360° area. The built-in LED Ring Light provides clarity in viewing. The built-in Laser Pointer is used to focus the inspection area. Supplied various Adapter Lenses provide wide range of magnifications from 8x to 198x to meet different requirements of different QC inspections.

Features
• 10" LCD Screen, rotatable vertically by 150°
• Magnification : 8x - 198x (with various lenses)
• Hi-resolution 1024x768 pixel digital image
• Built-in LED Ring Light with intensity control
• Laser Pointer for locating observation point
• Video output for external LCD/Plasma TV
• Heavy Duty Stand with precise movement
• Precision rack & pinion steel gears for fine focus
• Zoom allows continuous magnification with clear images throughout the zoom range.
• Wide field of view, working distance upto 200 mm
• Ease of use: load the software, plug the cable of Microscope into USB Port of Computer - It is now ready to capture high quality images and videos.
• PC Interface for computer connection
• Live full motion digital video capturing
• Complete packaged solution: it is a complete system with all elements configured to work with each other, including Zoom Microscope, CCD Camera, Measurement Software, Illumination, Cables (user only needs to provide PC)
• Stores images in JPEG & Video in AVI formats

Scope of Supply
• 10" LCD Zoom Microscope Body
• X-Y Adjustable Stage
• Laser Pointer
• 35° Angled View Rotational Lens
• PC Interface Module with Software
• 76mm LED High Track Stand
• 0.5X, 1X, 1.5X, 2X Lenses
• Ultra Mag Digital Video Microscope
• Head Mount Magnifier
• Calibration and Measurement Software
(to use with Ultra mag Digital Microscope)
• 15 inch external LCD Monitor (Optional)

Warranty is 12 months from the date of invoice. It excludes all consumable parts and any physically damaged part.

While the information contained herein is, has been carefully compiled to the best of our knowledge, nothing is intended as representation and warranty on our part, and no statement shall be construed as recommendation or infringement of any existing patents. We accept no liability of whatsoever for any faults and errors in the information contained herein. Contents of this catalogue and specifications of the products, are subject to change without notice due to continuous improvements.

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Software for PC Interface
Software is provided for PC interface with Computer. User can save images and videos in external Computer for QC analysis. User can also email saved images by using this software.

Magnification, Working Distance & Field of View (FOV) Specifications

<table>
<thead>
<tr>
<th>Lens</th>
<th>Working Distance</th>
<th>Magnification</th>
<th>FOV</th>
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<tbody>
<tr>
<td>2x</td>
<td>50mm</td>
<td>30.8x ~ 198.1x</td>
<td>8.6 ~ 1.3 mm</td>
</tr>
<tr>
<td>1.5x</td>
<td>65mm</td>
<td>23.1x ~ 148.6x</td>
<td>11.4 ~ 1.8 mm</td>
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<tr>
<td>1x</td>
<td>95mm</td>
<td>15.4x ~ 99.1x</td>
<td>17.1 ~ 2.7mm</td>
</tr>
<tr>
<td>0.5x</td>
<td>200mm</td>
<td>7.7x ~ 49.5x</td>
<td>34.3 ~ 5.3mm</td>
</tr>
<tr>
<td>Rotational Lens</td>
<td>50mm</td>
<td>12x ~ 80x</td>
<td>18 ~ 2.75mm</td>
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Track Stand with lighting
• Track Length: 500mm
• Travel Distance: 460mm
• Coaxial Focus: 23mm/circle
• Fine Focus: 0.56mm/circle
• Base Size: 320×316×21mm
• With a 95×5mm Glass Plate
• Voltage Input: AC 90-240V, 50/60Hz

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Choice of different Models available

- LCDScopePro20-Deluxe (no Laptop & no monitor)
- LCDScopePro20-Deluxe-Lap (with Laptop, no monitor)
- LCDScopePro20-Deluxe-Mon (no Laptop, with monitor)
- LCDScopePro20-Deluxe-LapMon (with Laptop & monitor)

* Laptop Computer supplied will be of any reputed make, with minimum or higher configuration: Dual Core Processor, 500 GB HDD, 1GB RAM, Windows Operating System. We will not be responsible for any after-sales-services or support both for hardware and software. Customer will have to contact the respective Computer Vendor’s Service Centre directly.

Adjustable X-Y Stage for Object Positioning

- 75×56mm travel in X-Y
- 116×96mm back light window
- 95mm adapter is for stand base
- Easy to use knobs for X-Y adjustment

Various examples of QC inspection images for different objects with LCDScopePRO20

- Microwave Bare Chip Bonding Inspection
- SMD Pas Solder Lift-off Inspection
- Leadfree Solder Joint Inspection
- QFP SMD Pad Soldering Inspection
- Gear Inspection
- Metal Surface Inspection
- Rivet Inspection
- Metal Parts Inspection
- SMD Inductor Inspection
- SMD PCB Inspection
- PCB Inspection
- SMD Chip Inspection
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Technical Specifications for Hi-Performance & Hi-End Video Microscope for inspection

- **Display**: 10 inch LCD Monitor, 16ms High Definition Colour
- **Zoom Body**: 0.7x ~ 4.5x with reticle function
- **Zoom Ratio**: 1 : 6.5
- **Magnification Range**: 8x ~ 198x
- **Focusing Adjustment**: 90 mm (Max. Head Travel Distance)
- **Sensor**: CCD
- **Resolution**: 1024 x 768
- **Illumination Unit**: Built-in LED Ring Light
- **Brightness Control**: LED Array, can be controlled using Push Buttons
- **LCD Screen Rotation**: 150 degree
- **White Balance**: Adjustable from Control Panel
- **Laser Pointer**: 650nm Laser Pointer for locating the point of observation
- **Video Output**: BNC Connector and S-Video Connector for output to TV or LCD
- **Power Supply**: 230 VAC, 50Hz
- **Lenses types**: Included 0.5x, 0.75x, 1x, 1.5x, 2x
- **Rotational Lens**: Semi-Plan achromatic with special optics for rotational view
- **Bottom Lighting**: LED with intensity control
- **Track Length of Stand**: 500mm
- **Travel Distance of Stand**: 460mm
- **Coaxial Focus**: 23mm/circle
- **Fine Focus**: 0.56mm/circle
- **Focus Movement**: Using rack and pinion steel gears
- **Base Size**: 320×316×21mm
- **Glass Plate**: 95x5mm
- **X-Axis Travel of Stage**: 75mm
- **Y-Axis Travel of Stage**: 56mm
- **Backlight Window in XY Stage**: 116 x 96mm
- **Adaptor for Base**: 94mm
- **Software**: Software for image & video capture, save, recall
- **Image Storage Format**: JPG
- **Video Storage Format**: AVI
- **Camera Control**: Sharpness, Gamma, White Balance and Gain can be controlled
- **Camera Control**: Brightness, Contrast, Hue, Saturation can be controlled