

DIGITAL ZOOM STEREO MICROSCOPE

HD51H

EXCELLENT FOR SURFACE INSPECTION



Digital Zoom Inspection Microscope with 3D Lighting and Dual Focus

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Description

HD51H is a unique monocular inspection system, with 3D lighting, and the ability to focus at multiple distances. Using a moving focal-point, the imager can be focused independent of the mechanical optics. This allows the microscope to be focused from 1mm to 255mm at its lowest magnification. The ultra-sharp zoom objective provides a wide magnification range, from 0.7X to 5X. All of this adds up to a very flexible inspection microscope.

The 3D LED ring-light has two independently-controlled lighting zones: one for flat, diffuse lighting, and one for highlights. This allows you to add depth to difficult subjects, revealing extra detail. This system is ideal for repairing small electronics and mechanics, such as cel phones and watches.

The 3.5MP digital imaging system features USB and HDMI connectivity, for using with a computer or standalone. You can view realtime 1080p 30fps video across HDMI, and capture photos up to 3.5MP and video directly to a MicroSD card, or via USB using the included Windows software.



Features

- 0.7 to 5X objective magnification
- Variable working-distance
- 3D illumination with diffuse and specular lighting
- 3.5MP digital imaging system for PC or standalone
- Reversible black/white stage plate



Microscope Specifications:

- Objective: 0.7X to 5X continuous zoom
- Working Distance (without ring-light):
 - 105mm parfocal
 - 1mm to 255mm at 0.7X
- Field-of-View: 12.9mm x 17.1mm to 1.8mm x 2.4mm
- Lens Mount: C-mount
- Illumination: multi-zone LED with diffuse and specular lighting
- Pillar: 11" (280mm)
- Base: 10.8"x8.25" (275mm x 210mm)

Camera Specifications:

- Sensor: Aptina AR0330 color CMOS
- Sensor Size: 1/3" class (5.07mm x 3.38mm)
- Pixel Size: 2.2µm
- Still Image Resolutions: 2304x1536, 2304x1296, 1920x1080, 1280x720, 800x480
- Video Resolutions: 1920x1080 30fps, 1280x720 30fps, 800x480 30fps
- Live View: 1920x1080, 30fps
- Camera Connections: Micro-USB 2.0, Mini-HDMI
- Recording Media: MicroSD (up to 64GB)

