

BS-1080CUHD Digital Video Microscope with 4K Camera



BS-1080CUHD

Introduction

BS-1080CUHD Digital Monocular Zoom microscopes adopts apochromatic parallel optical imaging system and provide high resolution and sharp stereoscopic images, 4K HDMI digital camera with measurement function can work without PC. This microscope is designed for the applications of circuit board, electronics, semi-conductor and related industrial inspection and scientific research areas. Modularization product portfolio and excellent optical performance make it a better choice in these areas.

Features

1. Adopt apochromatic parallel optical imaging system, use advanced multi-layer coating technology, excellently correct the imaging on the edge of field of view. Get high-resolution and high contrast images, naturally restore the true colors of observed objects.
2. Compact design, it is very suitable for the small installation space in modern equipment.
3. Adopt 4K UHD digital camera, can take 4K high resolution uncompressed images and do measurement.
4. Zoom ratio 1:8.3, zoom range 0.6×-5×, standard working distance 88mm, can meet the requirement of conventional inspection.
5. There are a variety of auxiliary lens and C-mount eyepiece adapter for option, make the system's optical magnification range 0.054×-1500×, working distance 2mm-270mm, object field of view 0.004mm-20mm.
6. LED Ring light, Polarizing illumination, Coaxial illumination system are optional, Coaxial illumination adopts single high brightness 3W LED, color temperature 5500K, uniform lighting, suitable for high reflectivity surface precision detection and limited exterior lighting occasions.
7. Adopt modular design, various additional accessories are optional to make the microscope a powerful device for your jobs.

Application

BS-1080 series Monocular Zoom Microscope are widely used in educational demonstration, agriculture research, industrial material, semi-conductor, integrated circuit board inspection area and so on.

Specification

| Item | Specification | BS-1080 CUHD |
|--|--|-----------------|
| Optical System | Infinite apochromatic parallel optical system | ● |
| Zoom Lens | Optical zoom magnification: 0.6-5.0× | ● |
| Zoom ratio | 1:8.3 | ● |
| Viewing head | Monocular Viewing head with 10×/18mm, 15×/12mm, 20×/11mm eyepiece, Φ23.2mm | ○ |
| 90° Prism | Used to turn the angle of camera or objective, so as to short the size | ○ |
| Mounting Size | Φ40mm | ● |
| 4K UHD Digital Camera | HDS800C PLUS 4K UHD digital camera with HDMI output, built-in memory is 4G, images can be saved in USB flash drive(upto 32G). Can capture 4K(3840×2160) pictures and do measurement without PC, control with mouse | ● |
| C-mount Adapter | 0.3× C-mount adapter | ○ |
| | 0.4× C-mount adapter | ○ |
| | 0.5× C-mount adapter | ○ |
| | 0.67× C-mount adapter | ○ |
| | 1× C-mount adapter | ● |
| | 1.5× C-mount adapter | ○ |
| | 2× C-mount adapter | ○ |
| | 3× C-mount adapter | ○ |
| Auxiliary Lens | 0.3× /WD: 270mm | ○ |
| | 0.5× / WD: 160mm | ○ |
| | 0.6× / WD: 130mm | ○ |
| | 1× / WD: 88mm | ● |
| | 1.5× / WD: 52mm | ○ |
| | 2× / WD: 39mm | ○ |
| Infinite LWD Plan Achromatic Metallurgical Objective Lens | 5×, NA: 0.12, WD: 26.1mm | ○ |
| | 10×, NA: 0.25, WD: 20.2mm | ○ |
| | 20×, NA: 0.40, WD: 8.8mm | ○ |
| | 40×, NA: 0.6, WD: 3.98mm | ○ |
| | 50×, NA: 0.70, WD: 3.68mm | ○ |
| | 60×, NA: 0.75, WD: 1.22mm | ○ |
| | 80×, NA: 0.80, WD: 1.25mm | ○ |
| | 100×, NA: 0.85, WD: 0.4mm | ○ |
| Infinite LWD Plan Apochromatic Metallurgical Objective | 5×, NA: 0.13, WD: 44.5mm | ○ |
| | 10×, NA: 0.28, WD: 34mm | ○ |
| | 20×, NA: 0.29, WD: 31mm | ○ |
| | 50×, NA: 0.42, WD: 20.1mm | ○ |
| Coaxial light Device | Coaxial Device, light input port Φ11mm (does not include light source) | ● |
| | Coaxial point light source: 3W LED, 5500K, brightness adjustable | ● |
| | Polarized Coaxial Device, light input port Φ11mm (does not include light source) | ○ |

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|---------------------|---|---|
| Ring Light | BAL-48A LED Ring light, brightness adjustable | ○ |
| | Polarized LED Ring light, brightness adjustable | ○ |
| Other Accessories | Metallurgical objective adapter (used to connect metallurgical objectives onto the zoom body) | ○ |
| | Triple Nosepiece for metallurgical objectives | ○ |
| | BSL-3B LED light source with dual goose neck light guide, 6.5W | ○ |
| | BMS-302 X-Y moving stage | ○ |
| Stand and focus arm | BA1 Pillar type plain stand with coarse focus arm | ○ |
| | BA2 Pillar type plain stand with coarse and fine focus arm | ○ |
| | BA3 Square type plain stand with coarse and fine focus arm | ● |
| | BA4 Square type plain stand with coarse and fine focus arm, transmitted 10W LED illumination | ○ |

Note: ●Standard Outfit, ○Optional