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HCAM Series USB2.0 Microscope

USB-powered handheld digital microscope with 10x to 200x magnification

Built-in 0.35MP, 1.3MP or 2MP digital camera for capturing images and videos

8 LED ring illuminator

Use the included Windows software to capture images and video of your discoveries. Measure your specimens with built-in measurement tool.

Computer requirements: CD/DVD drive and USB 2.0 port. UVC plug-and-play with Windows 7/8, Vista, and XP/10 (32/64 bit).



Specification

HCAM Series USB2.0 Microscope(3)

Order Code	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
HCAM02000KPA HC502000A	M12010(C)	1/3.2"	2.8x2.8	30 @ 1920 x1080 30@1280x 720 34@640x 480	1x1	0.5ms~30ms
HCAM01300KPA HC501300A	MT9M112(C)	1/4"	2.8x2.8	15@1280x1024 30@640x480	1x1	0.5ms~30ms
HCAM00350KPA HC500350A	GC0308(C)	1/6.5"	3.4x3.4	30@640x480	1x1	0.5ms~30ms

HARDWARE CONFIGURATION	
Spectral Range	380-650nm (with IR-filter)
Video Format & Frame Rate	Max Frame Rate 30fps @1920 x 1080
Binning	1x1
Exposure	0.5ms~30ms, Auto & Manual
White balance	Auto & Manual
Color Rendering Technique	On Chip
Peak Quantum Efficiency	N/A
Readout Noise	N/A
Extinction Ratio	N/A
Smear	N/A
Illumination	LED Illumination
Magnification	10X~200X(with Specified Monitor)
Capture/Control SDK	Directshow, Twain, External Trigger for Snapshot
Recording System	Still Picture and Movie
Holding Frame	Optional
OPERATING ENVIRONMENT	
Operating Temperature	-10°C~ 50°C
Storage Temperature	-20°C~ 60°C
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port
SOFTWARE ENVIRONMENT	

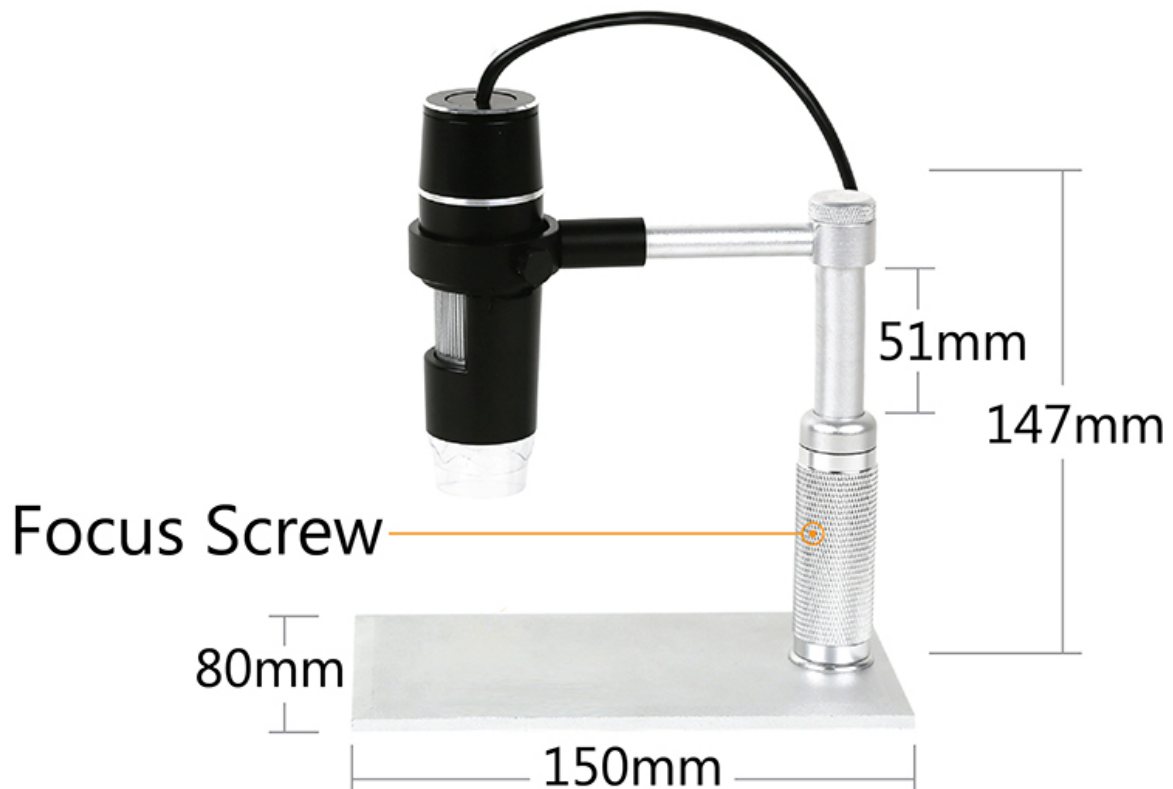
Operating System	Support Microsoft Windows XP / Vista / 7 / 8 / 10(32 & 64 bit)
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher
	Memory: 2GB or More
	USB port: USB2.0 High-speed Port
	Display: 17" or Larger
	CD-ROM

Accessories for USB Microscope

M-SD-HM1 Hand Held USB Microscope Stand

The Pole stand (Metal) for handheld microscope with focus mount has the following basic characteristic

- Oxidized silver aluminum alloy;
- Stable to ensure the capture of video and image;
- Overall dimensions: 150mmX80mmX147mm;
- Plate dimensions: 150mmX80mm;
- Pole coaxial focus with 51mm range;

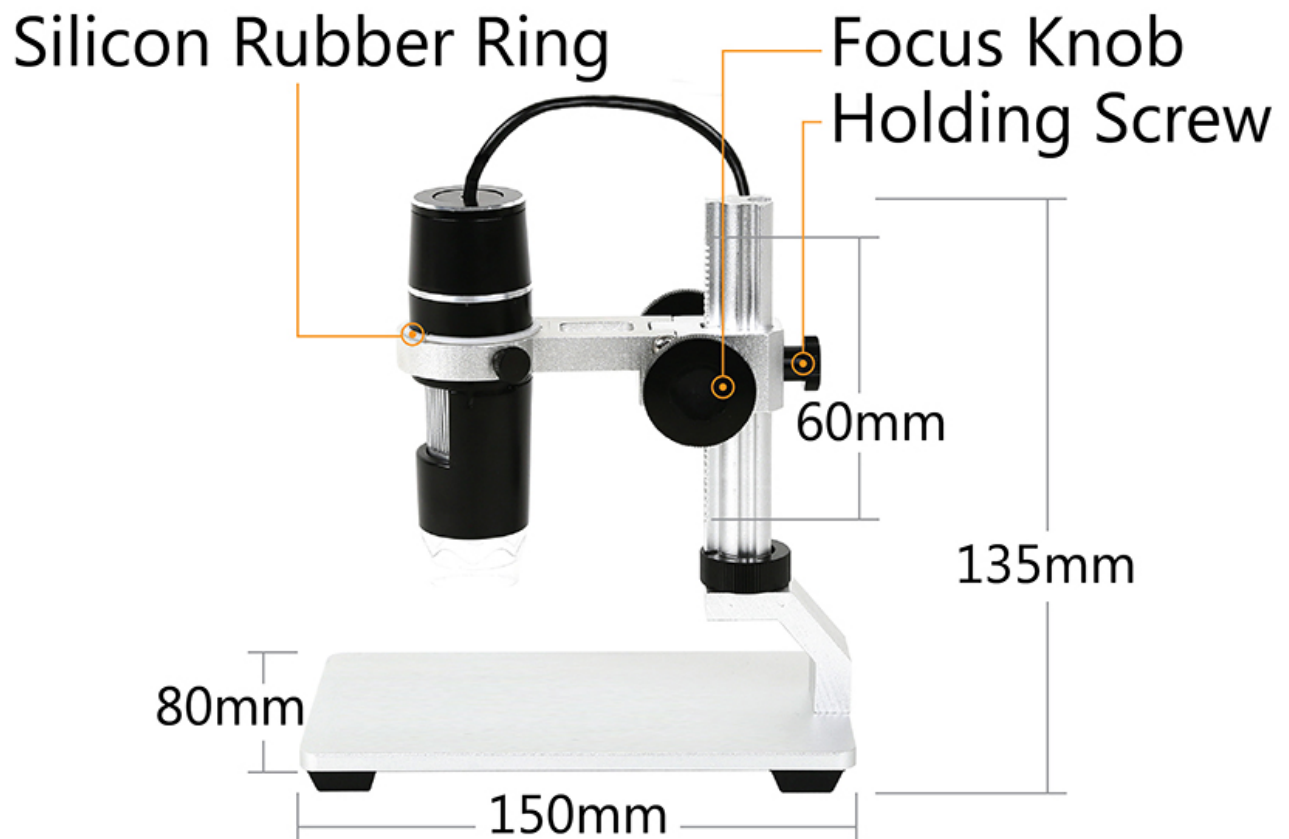


M-SD-HM1 configuration

M-SD-HM2 Hand Held USB Microscope Stand

The track stand (Metal) for handheld microscope with focus mount has the following basic characteristic

- Oxidized silver aluminum alloy;
- Focus knob inherited from the traditional microscope to focus at ease;
- Silicon rubber ring to protect the handheld microscope;
- Holding screw to hold the microscope;
- Stable to ensure capturing the clear video and image;
- Overall dimensions: 150mmX80mmX135mm;
- Plate dimensions: 150mmX80mm;
- Rack focus with 60mm range;

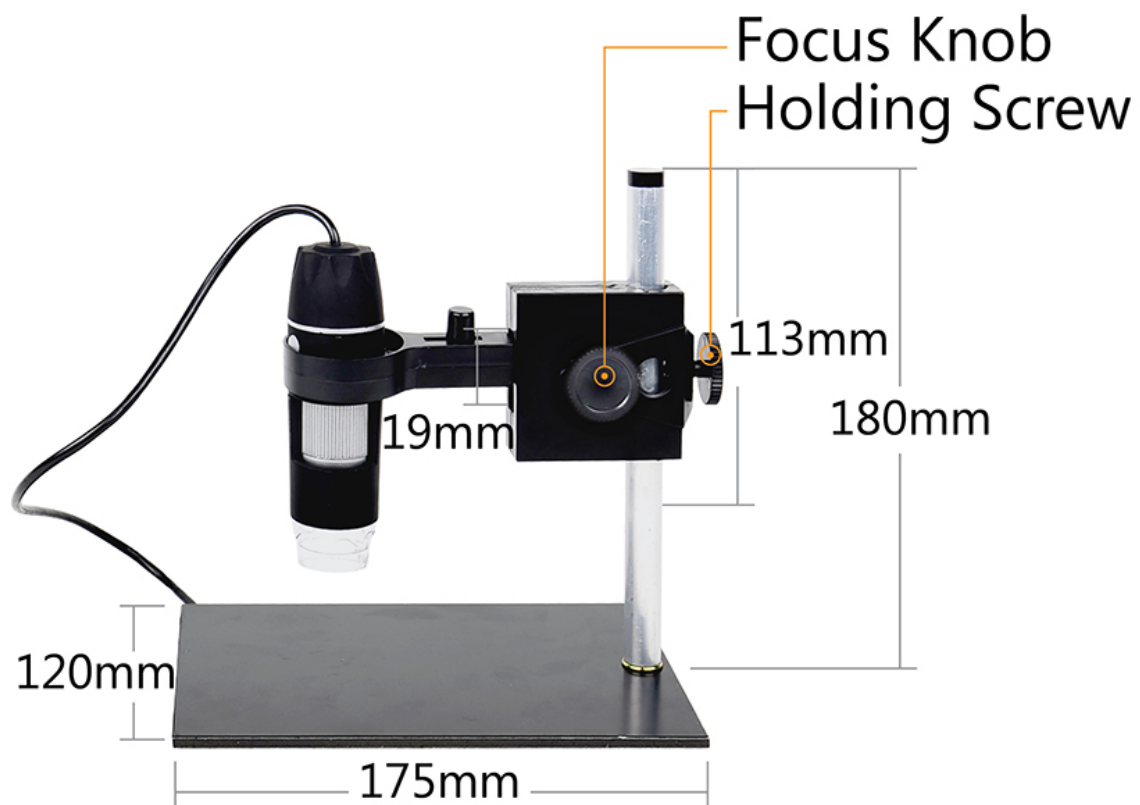


M-SD-HM2 Configuration

P-SD-HM3 Hand Held USB Microscope Stand

Plastic stand (Plastic) for handheld microscope with focus mount has the following basic characteristic:

- Plastic plate with aluminum alloy pole ;
- Focus knob inherited from the traditional microscope allow for precise focus;
- Bayonet mount to install the handheld microscope at ease;
- Holding screw to hold the microscope;
- Stable to ensure capturing video and image;
- Overall dimensions: 175mmX120mmX180mm;
- Plate dimensions: 175mmX120mm;
- Focus range: 113mm;
- Fine focus range 19mm



M-SD-HM3 Configuration

Packing List



- A: One HCAM02000KPA-MI2010 USB microscope
 B: One USB microscope stand M-SD-HM1 (or M-SD-HM2, or M-SD-HM3)
 C: One CD (Driver & Utilities Software, Ø12cm)

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