Monocular HDMI Digital USB Microscope A34.4904 - H2 With Dual Coaxial LED Light Source

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A34.4904 - H2
- Minimum Order Quantity: 1 pc
- Price: FOB $1~1000, Depend on Order Quantity
- Packaging Details: Carton Packing, For Export Transportation
- Delivery Time: 5~20 Days
- Payment Terms: T/T, West Union, Paypal
- Supply Ability: 5000 pcs/ Month

Product Specification

- Optical Magnification: 0.7-5.0x
- Certification: CE|Rohs
- Output: Dual Output : USB 3.5M, HDMI 1080p/30fps
- Light Source: Dual Coaxial LED Light Source
- Focus: Focusing Knob On Top
- Image Sensor: Aptina AR0330 CMOS Sensor
- Highlight: **portable digital microscope**,
  optical microscope with digital camera

Product Description

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Introduction

A34.4904-H2 Microscope combines traditional optical microscope with digital imaging system. 3.5 million pixel HD color image sensor and the newest 0.7-5x zoom camera offer the high quality images and displays.

1. Large depth of field, wide field of view, long operation distance and real vertical optical path.

2. Dual output HDMI&USB to support photograph/record and real time storage of SD card image, with USB 3.5M, HDMI 1080p/30fps.

3. Avoid tedious adjustment work and directly change the operation distance through eye-height adjustment ring (eye height effective value BFL: 11.6~36mm) and expand the original magnification ratio of the microscope.

4. Adopt advanced HDR image processing technique under HDMI mode to largely reduce light reflection of the observation object surface .

5. Dual coaxial LED light source--inner fixed coaxial LED light and outer brightness adjustable coaxial LED light.Turning on inner fixed coaxial LED light to observe ordinary objects,and the outer brightness adjustable coaxial LED light for metal objects can eliminate reflective effect.

Parameter:

A34.4904-H2 HDMI/USB Digital Microscope	
Hardware Configuration	
Output	Dual Output : USB 3.5M, HDMI 1080p/30fps
Focus	Focusing Knob On Top, Supply Large Distance Manual Focusing Range
Dual Coaxial LED Light Source	Inner Fixed Coaxial LED Light, Outer Brightness Adjustable Coaxial LED Light
Image Sensor	Aptina AR0330 CMOS Sensor
Scan Mode	Scan Line By Line
Maximum Resolution	3.5M, 2304*1536 (3,538,944 Pixels)
Sensor Optical Format	1/3" (5.07mm(H)*3.38mm(V), Diagonal 6.09mm)
Pixel Size	2.2μm*2.2μm
Dynamic Range	69.5dB
SNR(Signal Noise Ratio)	39dB
Spectral Characteristics	380-650nm
HDMI Output Resolution	1920*1080P60,1920*1080P30,1280*720P60,640*480P60
Video Mode Resolution	1920*1080@30FPS, 1280*720P@30FPS, 800*480@30FPS
Snapshot Mode Resolution	2304*1536 ,2304*1296,1920*1080,1280*720,800*480
Exposure Capability	Real-time Auto, Single Auto, Manual Adjustment
White Balance	Real-time Auto, Single Auto, Manual Adjustment
Software Interface	Direct Show
Capture Modes	Picture Resolution:22304*1536,2304*1296,1920*1080,1280*720,800*480 Format:JPG Video Resolution:1920*1080@30FPS, 1280*720P@30FPS, 800*480@30FPS Format:MOV
Record Route	The Local And TF Card(Maximum Support 64G)

Optical Parameters						
Optical Magnification	0.7x	1x	2x	3x	4x	5x
Object Distance(mm)	24-252	27-155	81-117	94-111	101-110	103-109
Field Of View(mm)	0.5-10	0.5-0.4.5	0.4-0.6	0.3	0.2	0.1
Resolution(um)	16.78	11.18	8.39	6.10	4.79	4.79
Optical Magnification	0.7-5.0x					
Total Magnification	6-365x					
Focusing Bracket Adjustment Range(mm)	230mm					
Focusing Hand Wheel Height Range(mm)	50mm					
Observation Range	29.6*16.6mm~2.1*1.2mm Continuous Adjustment					

Software Environment

USB Mode	Operation System	Microsoft® Windows® XP/ 7 / 8 /8.1/10(32 & 64 Bit)
	Computer Configuration	CPU: Equal Or More Than The Second Generation Intel Core 2.8GHz
		Memory : 2G Or More
		USB Port: USB2.0 High Speed Port Or Compatible Port
		Displayer : Suggest 17 Inches Or Larger
HDMI Mode		Displayer: Recommend 16:9 , At Least 1080P Full HD Displayer
		Power Supply: DC5.0V Power Adapter, Electronic Current 500mA

PRODUCT **DISPLAY**

⚠ A34.4904-H With LED Ring Light
Now We Upgrade To A34.4904-H2 With Dual Coaxial LED Ring Light

A34.4904-H

PRODUCT DETAILS

HDMI/USB Dual Function Digital Camera (A59.4902):

Zoom In/Up

Mode/Confirm/Auto Expose

Menu/AWB Button

Snapshot/Record/Auto Focus

Microphone

Zoom Out/Down

Turn On/Off

Main Body Optical Zoom Range 0.7x ~ 5x

Dual Coaxial LED Light Source

Normal Ring Light Source Effect

Dual Coaxial LED Elimiate Stray Light Effect

V.S.

PRODUCT **APPLICATION**

Without relying on extra collecting device, Digital Microscope adopts HDMI digital output interface, directly and quickly realizing connecting other devices on product line through HDMI interface to achieve real-time image with high definition and color rendition, which largely improve the flexibility of the microscope observation. Digital Microscope is especially applicable for defect detecting, guide, calibration of Fiber fineness detection,electronic equipment, LCD, LED, etc. Digital Microscope simplifies the monitoring of manufacturing technique, easily reduces workload and raises work efficiency.
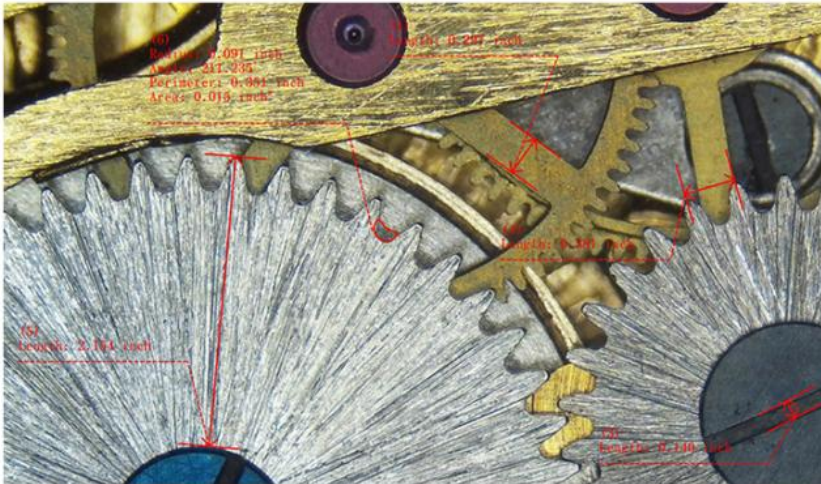
A34.4904-H2 Digital Microscope Work With Windows PC:

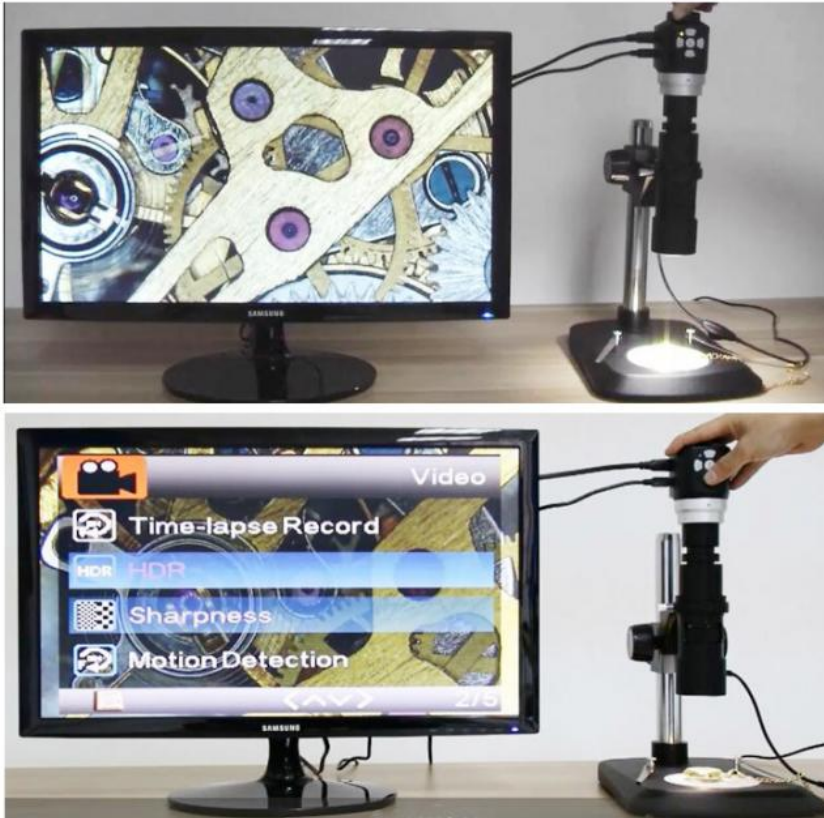1.Simply connect USB cable from camera to windows and run provided software "Micro Capture".

2.Place a white paper or just remove your sample from the camera's field of view &check "white balance", start to live-view.

Users can easily make dynamic and static measurement, mark and comparison for images through PC software.

HDMI Output Work With Monitor: