








The 4K HD measuring microscope series uses Huawei HiSilicon 4K (resolution 3840 * 2160, that is, 8 million pixels) full HD imaging, HDMI digital high-definition output, external USB flash disk storage, the microscope camera has its own LINUX operating system, built-in image measurement software, and abandons traditional computers to freely realize the measurement functions such as photographing, video recording, image review, image contrast, crosshair, measurement data, primitive saving, data EXCEL export, point spacing, point line spacing, line spacing, parallel line, center distance, Dim sum distance, angle, radian, circle, rectangle, polygon, broken line, circle edge distance, as well as intelligent edge finding, local magnification, exposure value, brightness, gain, saturation, contrast, clarity, anti reflection, white balance, automatic exposure, etc. Reasonable design, simple operation, can meet the needs of most users.

The lens adopts a zoom lens variable focal length dual telecentric optical design, which has the characteristics of small distortion, small field curvature, large depth of field, and realistic imaging. The calibration data is controlled by the administrator to avoid other unrelated personnel from mistakenly deleting the calibration data, effectively maintaining the integrity and consistency of the measurement data.

Main function		
	Photograph	Click the button to store the page photo to the storage device.
	Video	Click the button to start recording, and click again to stop recording and save to the storage device.
	Preview	Click the button to switch to the storage device to view photos or videos.
	Setting	Click the button to bring up the setting function page.
	Measurement	Click the button to bring up the measurement function page

Optical System Specifications	Configuration Options	KK312 import configuration
	Optical Len	0750AS
	Optical Conversion Ratio	1:7.14
	Ratio of The Objective	0.7X-5.0X
	Camera Eyepiece Magnification	0.4X
	Optical Ratio	0.28X-2.0X(95mm)
	Video Magnification	21X-147X Standard configuration
	Field of View	2.2*4-16*28mm
	Working Distance	95mm
	Center Distance	140mm
CCD System specifications	Resolution Ratio	3840*2160P
	Sensor Size	HiSilicon 1/2
	Pixel Size	3.75um*3.75um
	Data Bits	Line by line exposure
	Exposure Mode	Manual/Auto
	Focus Mode	Manual
	Output Frame Rate	30fps/60fps
	Output Mode	HDMI digital high definition
	Output Color	Colours/black and white
	Power Output	12V1A
Fixed Bracket System Specifications	Focus Lens Frame	Coarse moving focusing hand wheel,The focusing hand wheel is elastic and adjustable,Lift0-40mm
	Lift Arm Bracket	Diameter 32*275mm
	Work Platform	320*260*25mm
Lighting System Specifications	External Light Source	LED ring light,input voltage:AV100-240V wide voltage,Adjustable brightness
Bottom lighting system (optional)	Circular Parallel Light	LED square light, input voltage: AV100-240V wide voltage, brightness continuously adjustable.
Video Display System Specifications	Best Screen Specs Screen Ratio	4K28 inch
	Best Screen Specs Screen Ratio	16: 9
Measurement Functions	Photo Shoot	BMP/JPG/PNG
	Storage Method	U dish
	Identification Function	Point coordinates, crosshairs, coordinate lines, text annotations
	Length Measurement	Straight lines, polylines, curves, arcs, parallel line distances, and point-line distances.
	Circle Center Distance Measurement	Two points determine a circle, and three points determine a circle.
	Geometric Measurements	Line length, line spacing, circle radius, concentric circles.
	Geometric Area	Area of circle, square, triangle, polygon.
	Angle Measurement	Internal and external angle measurements.
	Image Rotation	Vertical rotation, horizontal rotation

Configuration List	Microscope Head	1
	Microscope Stand	1
	LED Environmentally Friendly Light Source	1
	HDMI Data Cable	1
	Mouse	1
	Calibration ruler	1
	U disk	1
	Manual	1
	Installation tools/wrenches	1
	Monitor	21.5/23.8/4K27 inches (optional)

Microscope magnification and field of view comparison table

Import configuration	0.7X	1.0X	1.5X	2.0X	3.0X	4.0X	5.0X
23.8 inch	17	26	39	52	78	104	130
28 inch	21	29	43	58	87	116	147
Field of view mm	16*28	11.2*19.6	7.5*13	5.5*9.8	3.7*6.5	2.8*4.93	2.2*4

If you need other magnifications or other field of view configurations, please contact our engineers to choose a configuration for you.