Mikrosize®

iVideo-0330 EZ

Electric Motorized Intelligent Video Microscope

Contact us

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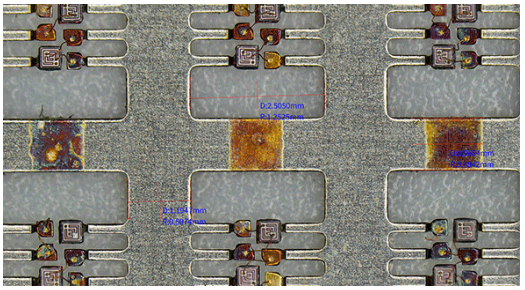
Feature and Application

iVideo-0330 EZ Electric Motorized Intelligent Video Microscope adopts a compound achromatic optical system, supporting continuous zoom from 0.3X to 3.0X. It is equipped with 4K ultra-high-definition imaging and can achieve 3840×2160@60fps without delay display. It supports both electric continuous and manual dual zoom methods, and has built-in micron-level automatic edge detection and frame selection measurement functions, with higher precision. It comes with a 11.6-inch adjustable display, integrating HDMI and USB interfaces, supporting zoom range, photo and video shooting, meeting the needs of various scenarios such as quality inspection and measurement, and is easy to operate and efficient.

Product Feature

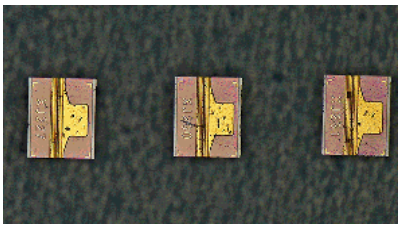
- Integrated body design, with one switch and one power source. The operation is simple and convenient.
- Refractive chromatic aberration correction optical system, 4K ultra-high-definition imaging. Continuous zoom range of 0.3 - 3.0X, with an extremely large zoom ratio of 10:1;
- Zooming method: Electric motorized continuous zooming and manual knob zooming;
- 3840*2160 ultra-high-definition resolution, 4K, 60 frames per second, no lag or delay. Real-time display of current magnification, real-time measurement;
- Supports marquee select measurement mode, which makes the measurement process faster and more accurate. Also supports automatic edge detection, making the measurement even more precise.
- Supports HDMI output and synchronous image output with the computer. Precise zoom rate continuous scanning;
- It comes with a 11.6-inch 1080P display, and the angle can be adjusted as needed.



Feature and Application

Product Application

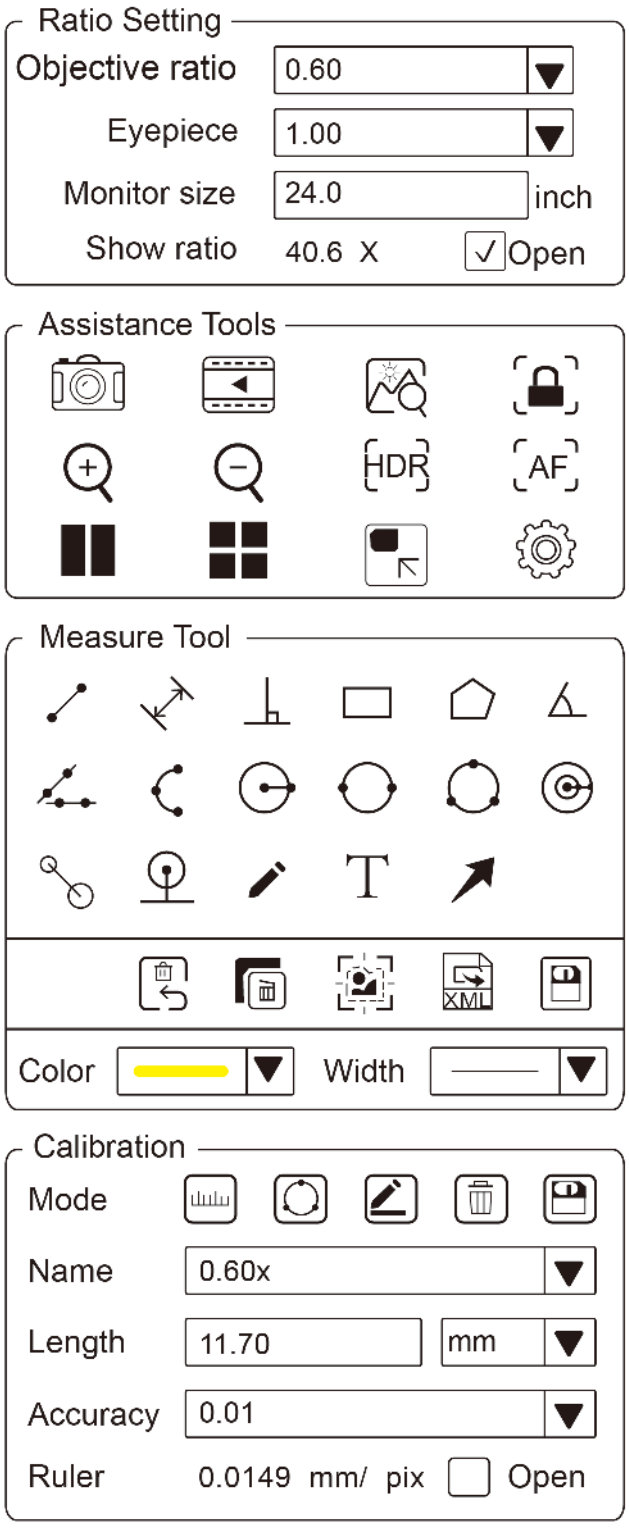
- Suitable for the microscopic structure observation and defect detection of electronic components, precision mechanical parts, PCB boards, new materials, etc.
- Meet the real-time quality control requirements at the production site and the precise analysis needs in the laboratory. It can be used in aspects such as incoming material inspection, process monitoring, and finished product acceptance.
- Supports precise measurement of product dimensions and data archiving, suitable for various applications such as research institutions, factory quality inspection, and university experiments.
- It can conduct real-time comparison and analysis between the captured images and the stored images, assisting in the consistency verification and anomaly detection during mass production.
- Suitable for samples of different materials such as metals, plastics, and electronic components, and compatible with both planar and three-dimensional structural detection requirements.

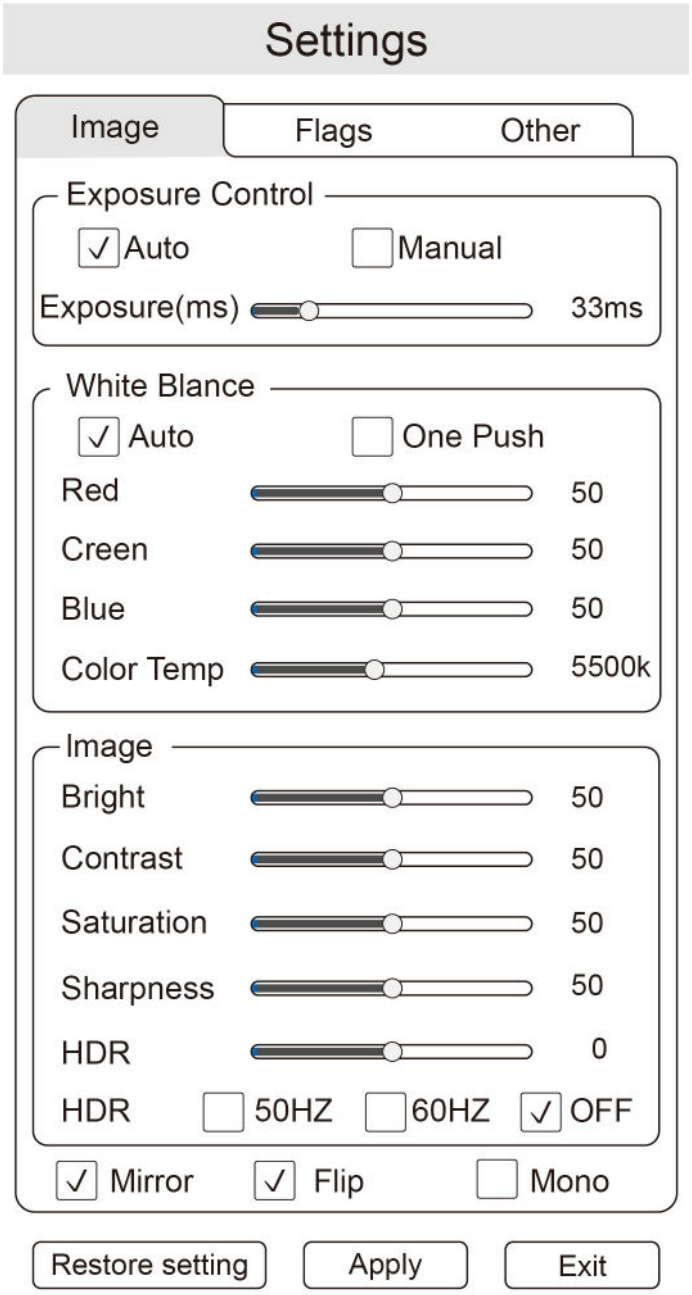


Product Structure

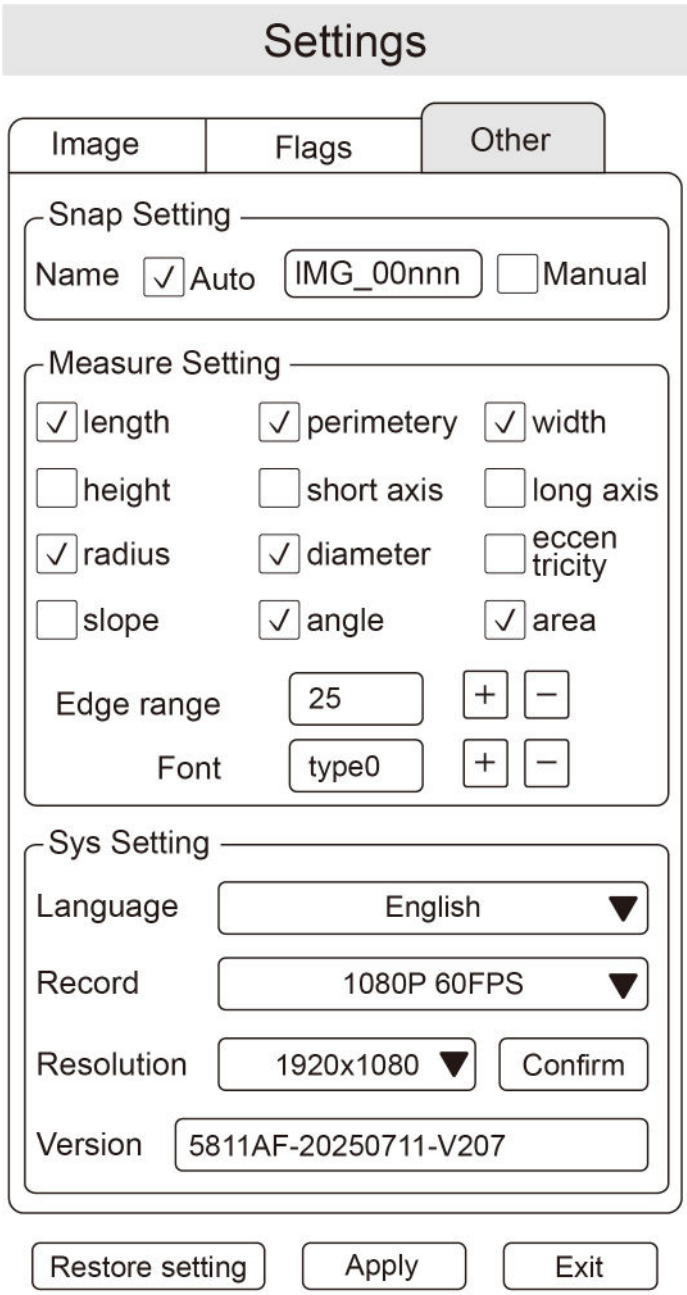
1.11.6-inch Display Screen
2.Manual Zoom Knob
3.0.3 - 3.0x Zoom Body
4.Four-zone LED Lighting Source
5.Coarse and Fine Coaxial Focusing
6.Coarse Adjustment Lever
7.Bottom Light Adjustment Knob
8.LED Bottom Light Source
9.330*300mm (12.99×11.81inch) Base Plate

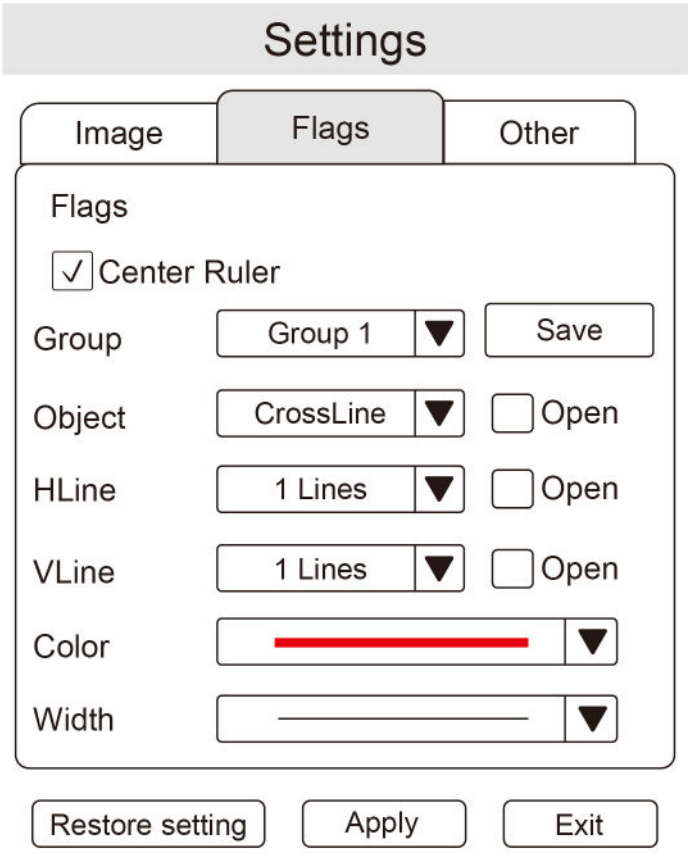
Software Measurement





Software Measurement





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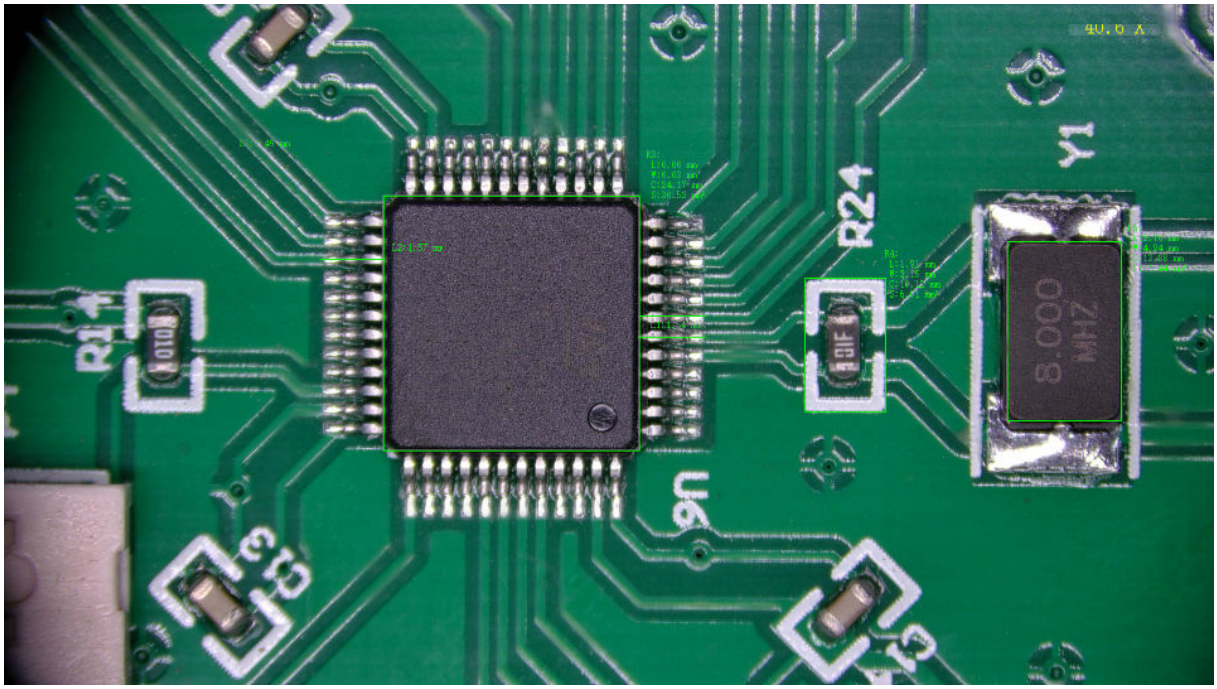
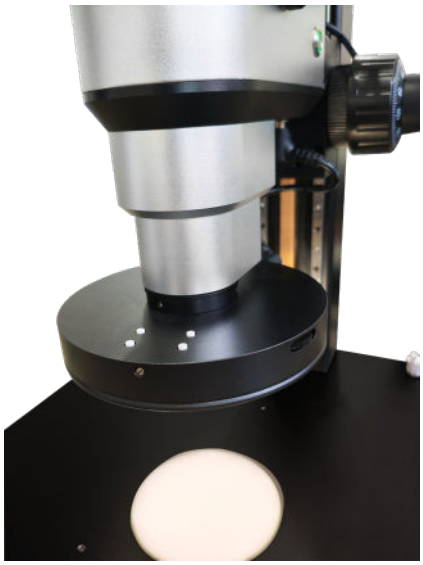
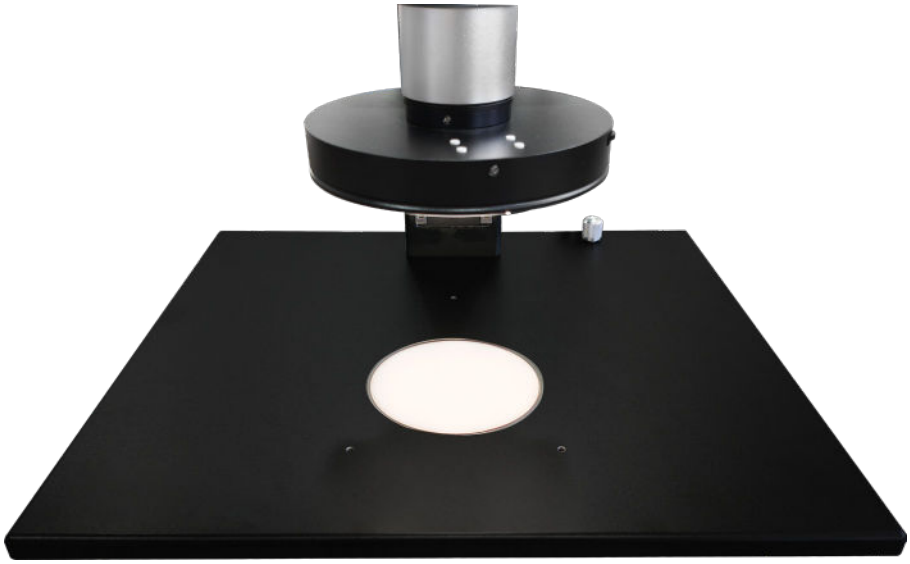


- Full - process integrated operation: Integrates functions of observation, acquisition, measurement and analysis. No need to switch software. It can complete the process from real -time imaging to data archiving in one step, greatly simplifying the detection process.
- Intelligent - assisted precise measurement: Supports 18 types of geometric measurements. Coupled with automatic edge - detection technology, the measurement accuracy reaches 0.01μm. The results can be directly exported to Excel to ensure data reliability.
- Intuitive and user - friendly interface design: The functional areas are clearly divided. Advanced settings are hidden for novices. It supports direct mouse operation. With a guided process, users can start operating after simple training.
- Multi - mode image optimization: HDR, shadow correction, and anti - glare functions are built - in. The brightness and white balance can be adjusted with one click to adapt to complex imaging environments such as reflective and low - light conditions.
- Efficient data management and sharing: Supports automatic naming and storage of images. It can save 8 sets of preset schemes. Data can be synchronized to network drives, facilitating team collaboration and traceability.
- Flexible functional expansion and adaptation: Compatible with direct HDMI connection and computer - side operation. Supports external storage devices. Standard images can be imported for four - screen comparison to meet diverse detection requirements.

Product Detail

- Integrated body design, one switch and one power source. This solves the wiring problem of traditional video microscopes and conforms to ergonomic design, providing a higher level of comfort for use.
- With just one hand, the device can perform automatic zooming, focusing and light adjustment functions, making it easy for users to operate.





- The upper light source adopts a 12V 13W integrated four-zone LED ring light source, with 228 LED light beads.
- The bottom light source is LED transmitted light.
- Meet the different lighting needs of users

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Technical Specification

Optical Magnification	0.3-3.0X
Total Magnification	10-99.8X
Magnification Ratio	10：1
Working Distance	100mm（3.94inch）
Field of View	25.6*14.4-2.56*1.44mm（1.01*0.57-0.1-0.06inch）
Zooming Method	Electric motorized electronic variable magnification, manual knob magnification
Chip Size	1/8”
Pixel Size	2.0um*2.0um
Resolution	3840*2160
Frame Rate	60fps

Technical Specification

Output Interface	HDMI
Network Interface	1000Mb
Storage Function	Store pictures and videos locally or on the network
Measurement Function	Precise magnification feedback, real-time measurement Faster and accurate marquee select measurement mode, supports automatic edge detection, making the measurement more precise. Support measurement of line segments, arcs, angles, polygons, etc.
USB Interface	USB3.0*2
Light Source	12V 13W integrated four-zone LED ring light source, 228 LED light beads
Monitor	11.6-inch 1080P HDMI monitor with adjustable viewing angle
Bottom Plate Size	330*300mm (12.99×11.81inch)
Height of the Lever Arm	318mm（12.52inch）
Focus Adjustment	Coarse and fine coaxial focusing

Standard Delivery

Name	Qty	Photo
Main Unit	1pc	
HDMI Cable	1pc	
USB3.0 Data Cable	1pc	
DC-12V 1A Power Adapter	1pc	
Mouse	1pc	
Instruction Manual	1copy	
Product Certificate	1copy	
Warranty Card	1copy	

Optional Accessories

Auxiliary Objectives

Model	Auxiliary Objective	Working Distance
AOL03	0.3X	270mm
AOL04	0.4X	195mm
AOL05	0.5X	160mm
AOL06	0.6X	130mm
AOL075	0.75X	105mm
AOL15	1.5X	50mm
AOL20	2.0X	39mm