



3D Electron Microscope

Model: TVN-360A

Introduction:

The 3D electron microscope can view the detected object 360 degrees, the image is clear and smooth, and there will be no problems such as smearing. The device uses a 2 million high-speed HDMI camera to transmit images in real time, and adds a self-developed image processing algorithm, so the viewing effect is very clear. At the same time, the camera lens can adjust the magnification, the optical magnification is adjustable from 0.7 to 4.5 times, and with the display, the object can be magnified by 200 times. The lens can be switched between flat mode and 3D mode. There is no difference from other lenses in flat mode. In 3D mode, you can see the product in 360 degrees.

This product is suitable for detecting tiny and precise devices in the production line, and is very suitable for the need to observe the surroundings of the device.

Features:

Three-dimensional viewing mode can be switched

plane 3D

Light source continuous reading adjustable

0.7-4.5X optical magnification adjustable

image storage Frame freeze, image comparison

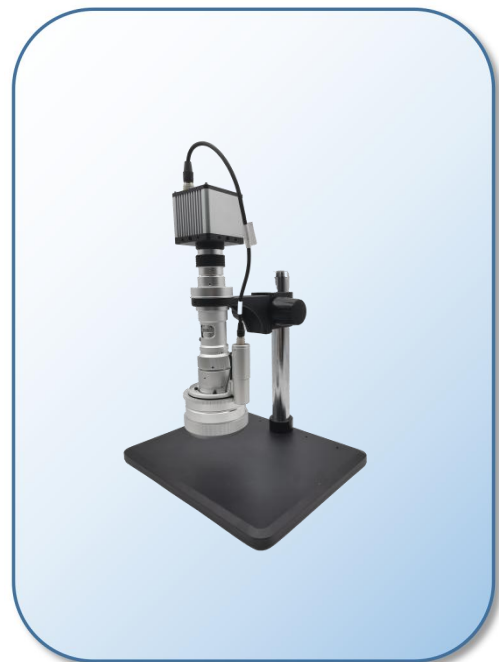
Strong light suppression, edge enhancement

Color

Independent Adjustment

white balance adjustment Automatically adjust exposure

High speed 60 frames per second Mouse operation, U disk read





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and write

- HDMI high-definition interface output
- U disk storage
- multi-level wide dynamic range
- One key white balance
- Standard C-Mount interface, optional various optical lenses, used in any industrial field
- 24bits true color image, support computer monitor, progressive display without flicker
- The color can be adjusted independently, with the function of cross center line and movable line, and any graphics can be customized.
- Comply with the international popular high request standard, 1920*1080@60fps;
- 60 frames of high-speed image capture, no smear or delay;
- New edge enhancement mode is added to enhance special image effects;
- Comply with popular display trends and adapt to widescreen (16:9) displays;
- Brand new color algorithm to ensure true reproduction of image colors;
- User-friendly menu settings, with automatic hiding function;



Camera technical parameters:

SMART-3000 HDMI camera			
chip structure	FPGA+ARM	optical size	1/2 inch
operating system	Linux 3.10	pixel size	3.75um*3.75um
kernel structure	Dual-core Cortex-A9	Image Resolution	1920*1080
Main frequency speed	1Ghz	frame rate	60fps
optical size	1/2 inch	white balance	One key white balance
resolution	1920×1080	Suppress glare selection	3 levels of choice
frame rate	60fps	Edge	4 levels of choice



		Enhancement Mode	
interface	2 USB ports. U disk, wireless mouse or keyboard can be connected	color adjustment	R, G, B independently adjustable
Operating Voltage	12v	built-in reticle	8 movable lines
Operating temperature	-10 degrees -70 degrees	video output	HDMI digital output
Dimensions	61*61*72mm	lens mount	C interface
weight	450g	voltage input	DC 5-12V

Lens parameters	
Various zoom hosts	Coaxial and confocal throughout the zoom process
Continuous zoom of objective lens	0.7X-4.5X
Zoom ratio	6.4:1
With 1XCCD	The total magnification can be expanded to 50X-300X
With 0.5XCCD	The total magnification can be extended to 25X-150X
working distance	45 degrees 20mm
Host matching size	Ø 48mm
light source	Brightness adjustable
motor speed	Adjustable speed