

Autofocus Vision And Measuring Microscope VM-300T



Introduction

Motor-driven Video Microscope is powerful easy operation microscope with HD resolution and clear image. VM-300T have excellent optics in a rugged, Widely travel range 190mm design. A wide range of objectives, illumination and accessories are available to tailor this series to fit your application.

Application:

It can be applied to incoming inspection, production inspection, material research, PCB and SMT inspection analysis, printing, textile inspection, biological anatomy, medical testing and other fields.



Feature:

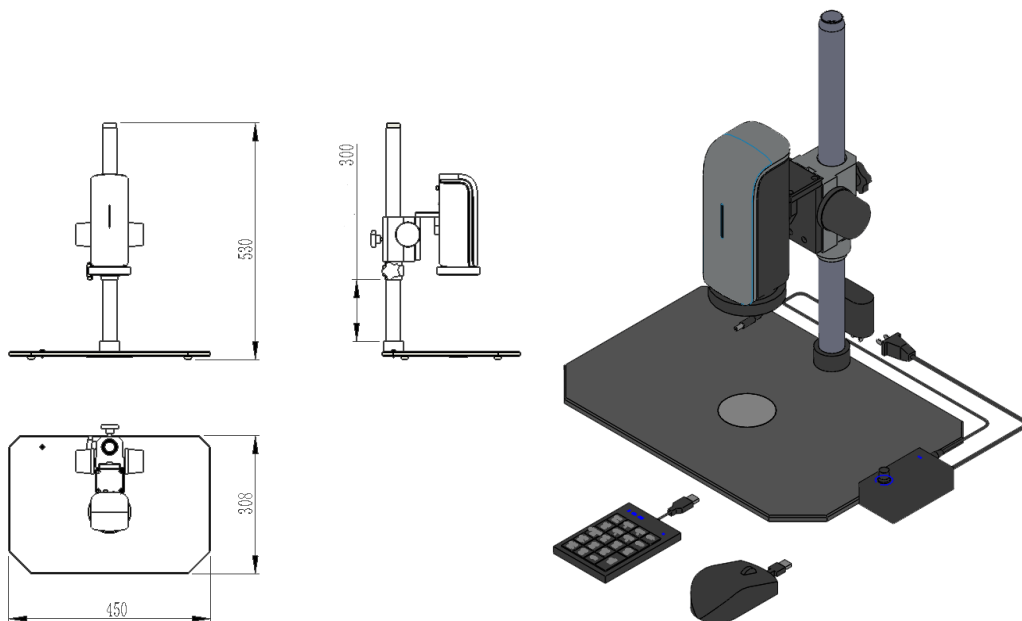
Motor Driven Zoom; Auto Focus; Take Video; Take Picture; Measurement

- Flexible configuration options deliver excellent image quality and optical 27X-163X Electronic Zoom.
- Large field of view and long working distance. Stage Z travel range up to 300mm, measuring travel range is 190mm and working distance 110mm.
- VM300T with HDMI support monitor 1080P@60Hz or 1080P@50Hz
- Language: Chinese/ Traditional Chinese/English/Japanese
- VM300T can 2D measure straight lines, angles, concentric circles, parallel lines, point-to-line distance, point and line to concentric circles, diameter, circumference and area, length and width of rectangle. All the corresponding measurement report can be output to U disk.
- Easy and fast operation by motor driven control system, one time calibration and consistency operation.
- LED Magnetic ring light source easy to change and install.

Specification

Model	VM-300T Order Number 451-430T	
HD Optical System	Magnification	27X-163X Stepless electric zoom
	FOV Field of view	17.8mm*10.2mm ~ 3.5mm*1.9mm
	Working Distance	110mm
	Sensor	HDMI Output , 1/2.8"color COMS Camera
	Monitor	Dell 21.5 inch HDMI LCD Monitor, Resolution:1920*1080 (Optional customized size)
	Illumination	Magnetic ring light source, Adjustable brightness Light naturally has no flicker; Optional polarization, transmission or oblique light source
Control Method	Mouse / Keyboard / Foot-switch / Other customized I/O	
Function	Auto-focus/Automatic zoom/Measurement/Custom template/Online annotation / Data image storage	
Working Stand	LWH: 450*308*530mm , Measuring effective range 190mm , Lifting range 300mm, Hand wheel focus,With transmitted light source (Optional universal stand, customizable)	
Storage	U Disk Storage Picture Video Data	
Power	DC12V	

Working Stand



Exceptional images

Full HD video brings out every detail, and manual and automatic focusing gives you ultra-sharp images every time. Even large subjects which would defeat lesser

microscopes are brought into complete top-to-bottom focus thanks to VM300T's focus stacking capability.



Intuitive simplicity

Out of the box, VM 300T can be set-up in minutes. Then simply turn the camera on and begin viewing and capturing full HD images. M300T intuitive controls make it easy to use from the start, and the multi-language on-screen menu let even minimally trained operators can get to work straightaway.



Illumination

LED Magnetic ring light source surface light, Adjustable brightness Light naturally has no flicker; LED Bottom light source.



How to calculation of actual magnification?

Actual Magnification = Optical Magnification x Digital Magnification x {25.4 x Monitor size (inch)/6.388} x 0.4

- Optical magnification and digital magnification

Refers to the optical magnification and digital magnification of the host you set (digital magnification can be set only after the optical magnification reaches the maximum value), as shown in the figure below, the optical magnification is 3.76X and the digital magnification is 1.0X;



- 25.4 x Monitor size (inch): here is the calculation of converting the screen size into millimeters (mm), 1 inch=25.4mm
- 6.388 is size of the CMOS, unit mm;
- 0.4: is the coefficient of the host, which is a fixed value.