



Spectrolab Systems in Microscopy

# Scopepad-LX97

## 9.7" Microscope Tablet Camera



### Introduction

A brand new high performance and highly cost-effective, super reliable 9.7 inches smart digital microscope computing tablet camera!

Equipped with 5MP color COMS sensor and 9.7inches tablet, it has been developed specifically for microscopy applications. Along with an Android 4.2 operating system, With intuitive operation the “Scopepad” is a microscopists “dream” image analyser attachment

Built-in professional data processing software, including multi-functional measurement programs **and particle analysis software**, overall control and operation is very simple and requires no special skill set.

Online upgrades are possible, and can be accomplished by users that are not proficient in computer technology.

Flexible configuration and wide range of applications,

### Feature

- Complete Application Functions, Not only for the Camera but also a Tablet PC!
- 5Megapixel color camera
- 9.7inch 1024x768 IPS Color LCD touchscreen, can be operated by USB keyboard and mouse.
- Build-in Android 4.2 operating system, RK3066 dual-core 1.5GHz CPU
- Support external SD memory card,
- Multiple interfaces, USB, SD Memory Card, HDMI Output can connect with monitor or projector screen.
- WI-FI and Bluetooth ready
- Build-in microscopy software for capture/record images and measurement.
- Professional particle analysis software
- Measure data can be export to Excel file.
- Standard C-mount Interface

## Parameter

Hardware	CPU	RK3066 dual-core 1.5Hz	
	Display	9.7inch Color LCD Touch (1024*768)	
	Storage	RAM	1GB DDR3
		ROM	2GB
		Support External SD Memory Card, Maximum Capacity	Up to 32GB
	Camera	1/2.5" (4:3), 5Mega Pixel Color CMOS Sensor	
		15fps@1024x768	
	Network	WI-FI	
		Bluetooth	
	I/O	USB/Mini-USB (OTG), Support USB Keyboard and Mouse	
		HDMI Output	
SD Memory Card Slot			
DC5V Power			
On/Off Button			
Mechanical	LCD Screen 360°@Horizontal/ 90°@Vertical		
Software	Operating System	Android 4.2	
	Banding Software	Build-in Microscopy Software (Measuring and Particle Analysis)	
Accessories	Standard	Power Adapter	
	Optional	0.5x Nose Piece with $\Phi$ 23mm, $\Phi$ 30mm and $\Phi$ 30.5mm Adapter Rings for Different Diameter Eyepiece Holders.	

## Build-in Camera

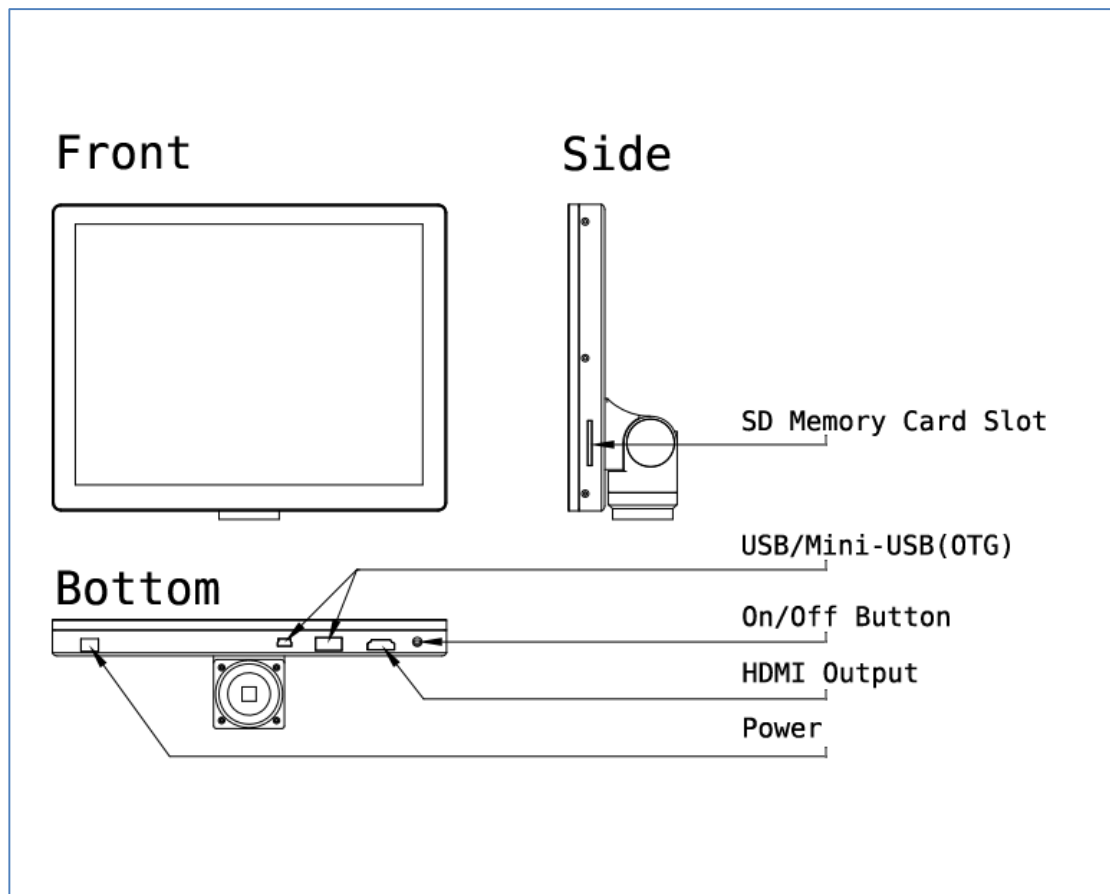
Optical Format	1/2.5-inch (4:3)
Active Image Size	5.70mm ( H ) x 4.28mm ( V )
	7.13mm(Diagonal)
Active Pixels	2592H x 1944V
Pixel Size	2.2 $\mu$ m x 2.2 $\mu$ m
Dynamic Range	66.5dB
SNR	40.5dB
A/D Converter	12-bit, On-chip
Sensitivity	0.53V/lux-sec(550nm)

Resolution & Frame Frequency	1280x720@15fps
	640x480@30fps
Shutter	Electronic Rolling Shutter (ERS)
White Balance	Auto/Manual

## Applications

- Biological Teaching Digital Imaging
- Medical Digital Imaging Microscopy
- Field Operation Digital Microscopic Imaging
- Family Natural Science Education
- Surgical Microscopic Imaging
- Navigation for Processed Imaging
- Industrial Optical HD Digital Imaging
- Astronomical Observation

## Device



## Easy to Install

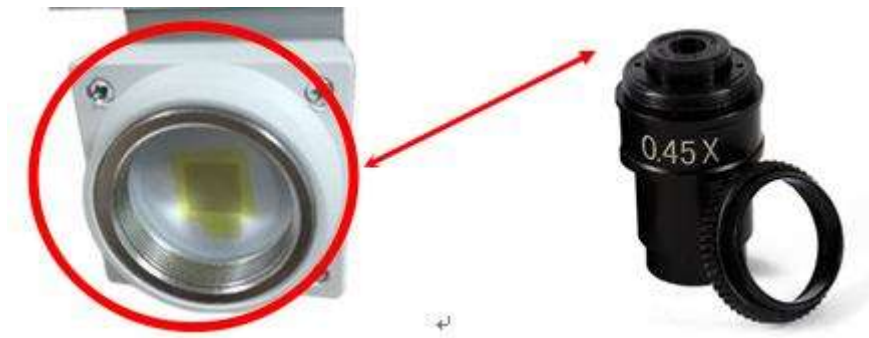
Equipped with international standard C-type interface, it can be conveniently

Connected to a C-mount coupler or eyepiece adapter.

It is compatible with the monocular, binocular, trinocular and any other kind of microscope, such as stereo, video, dissecting microscope or telescopes.

### 1. Connect video coupler to the device

Remove the dust cover and lens protection film , then connect the C-Mount coupler to the device.



### 2. Install the device on microscope



## Power Supply

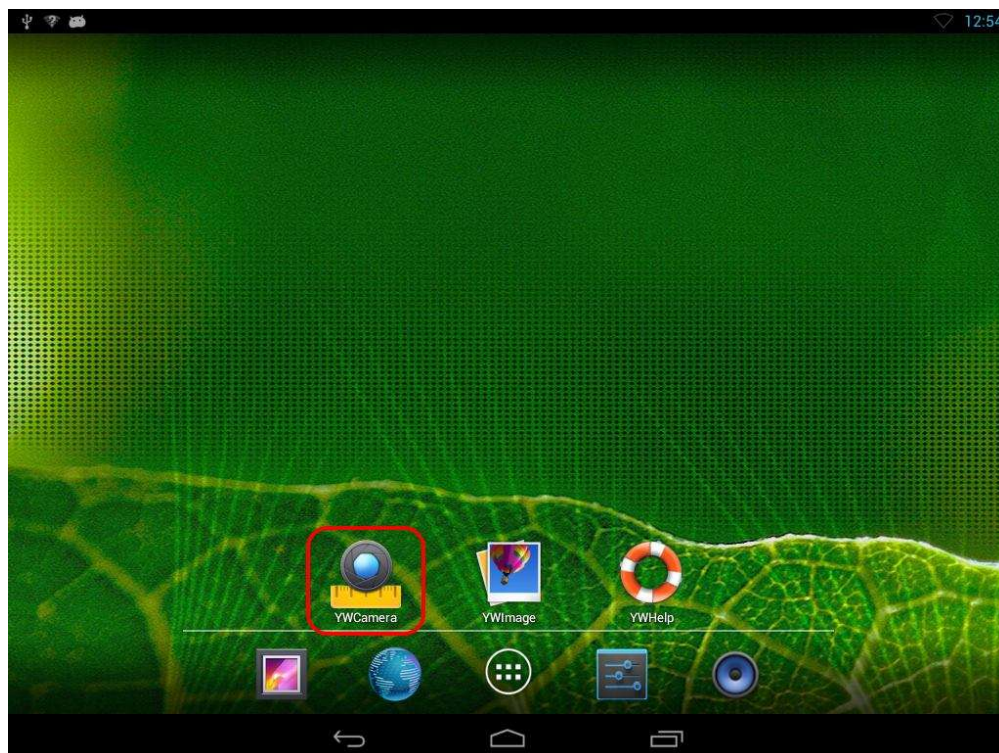
Optional Plug Types : USA/ EU/UK and Japan.

Connect one end of DC adapter cable to the power port at the bottom of the device, and the adapter to 100-240V AC power outlet.

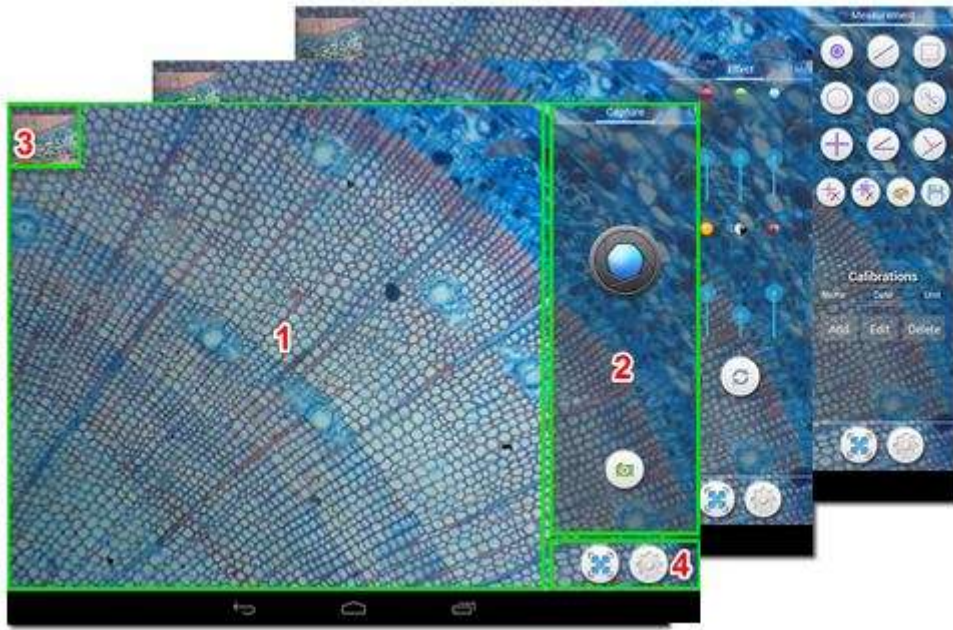


## Build-in Microscopy Software

After the device is turned on, touch the “YW Camera” Icon to open the camera application.



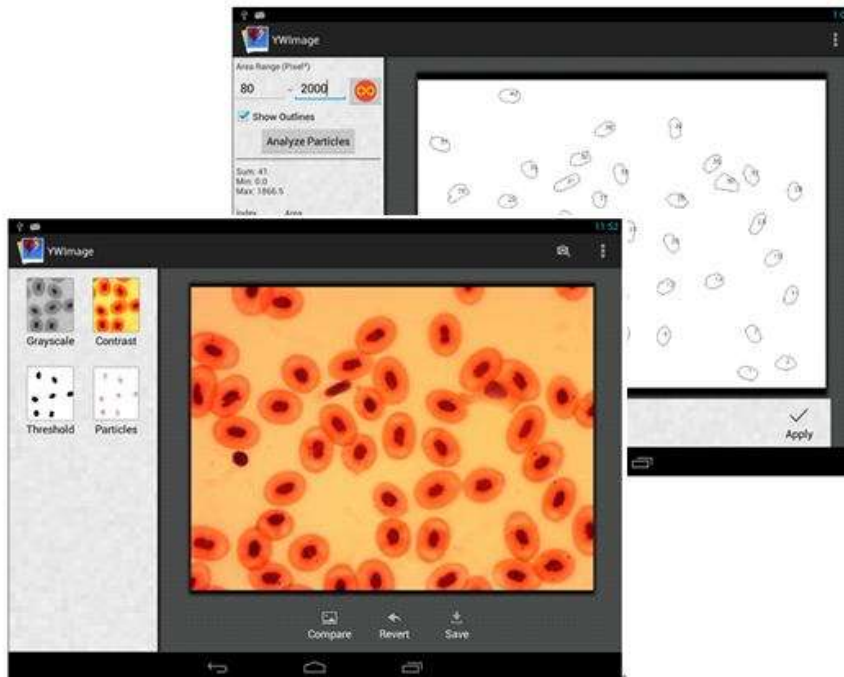
### 1. Real-Time Measurement Software



- ① Preview Image – show live video of the camera.
- ② Tool Panel – Control panels, capture, adjust parameter, measurement, etc.
- ③ Thumbnail Panel – Show captured images and videos, touch it to browse files.
- ④ System Tool – Switch Camera, full screen, configure.

## 2. Particle Analysis Software

Touch the “YWImage” icon to open the particle analysis application.



We also offer a complete range of hot and cold stages, easy to use image analysis options and every type of microscope

## **Spectrolab Systems**

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