



SPECTROLAB

Spectrolab Systems

Scopepad-LX97

9.7" Microscope Tablet Camera



Introduction

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

Equipped with 5MP color COMS sensor and 9.7inches tablet, it is developed specifically for microscopy applications. Along with Android 4.2 operating system, it runs smoothly and the user experience is good.

Built-in the professional software, including multi-functional measurement software and particle analysis software, the operation is very simple and efficient.

Online upgrade is allowable, not proficient in computer you can independently accomplish all of the software upgrade!

Flexible configuration and wide application range, it is easily to achieve to all your desire of exploration and discovery mystery of the microscopic kingdom.

Feature

- ❖ Complete Application Functions, Not Only Camera, Also 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 Φ 23mm, Φ 30mm and Φ 30.5mm Adapter Rings for Different Diameter Eyepiece Holders. |

Build-in Camera

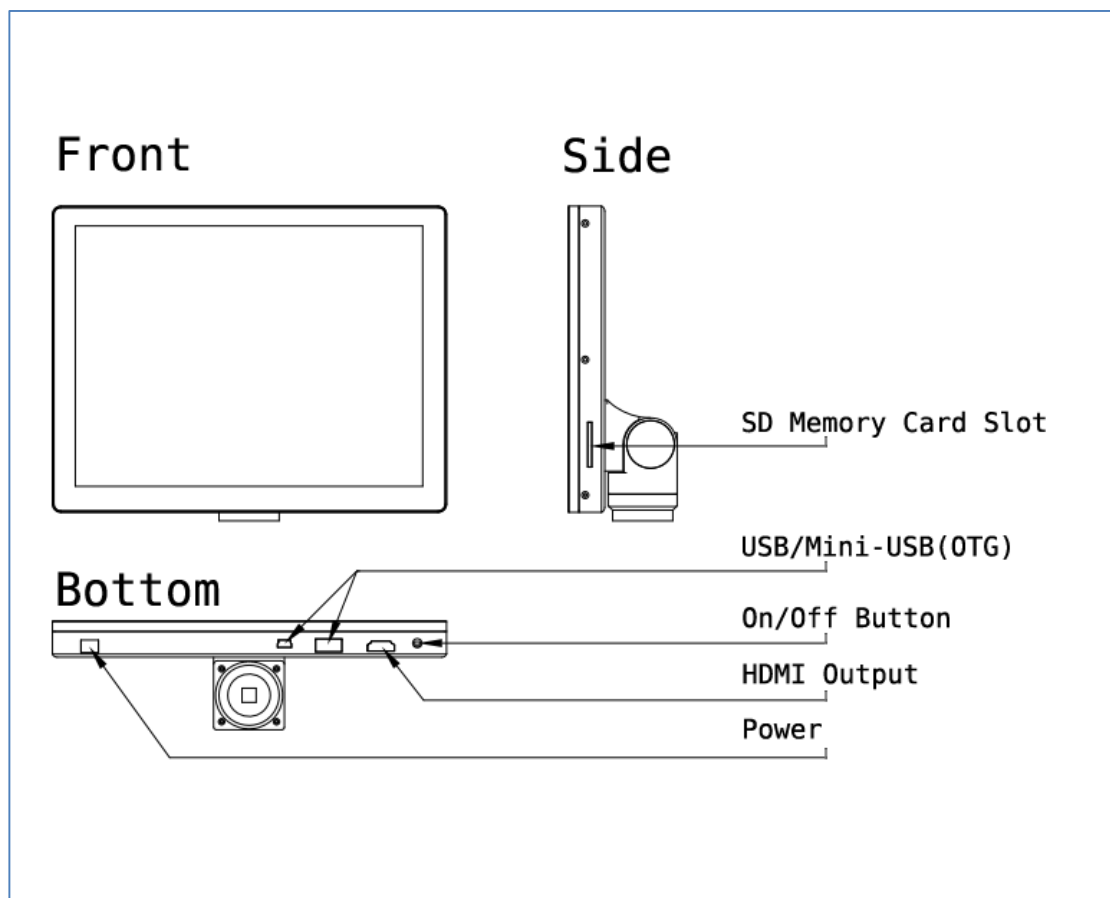
| | |
|-------------------|-------------------------|
| Optical Format | 1/2.5-inch (4:3) |
| Active Image Size | 5.70mm (H) x 4.28mm (V) |
| | 7.13mm(Diagonal) |
| Active Pixels | 2592H x 1944V |
| Pixel Size | 2.2um x 2.2um |
| Dynamic Range | 66.5dB |
| SNR | 40.5dB |
| A/D Converter | 12-bit, On-chip |
| 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



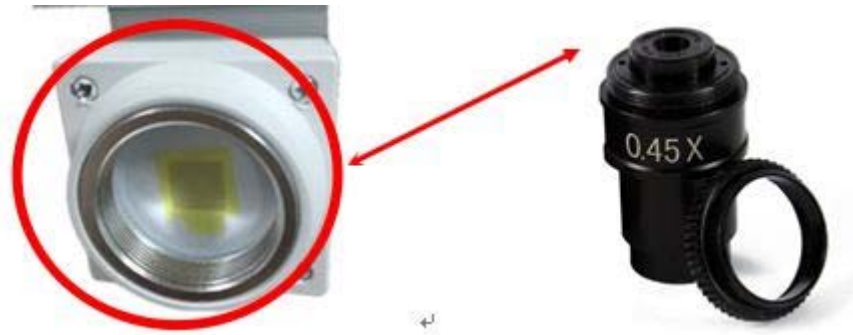
Easy to Install

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

thread on both C-mount coupler and eyepiece adapter.
It is compatible with the monocular, binocular, trinocular and any kind of microscopes, 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

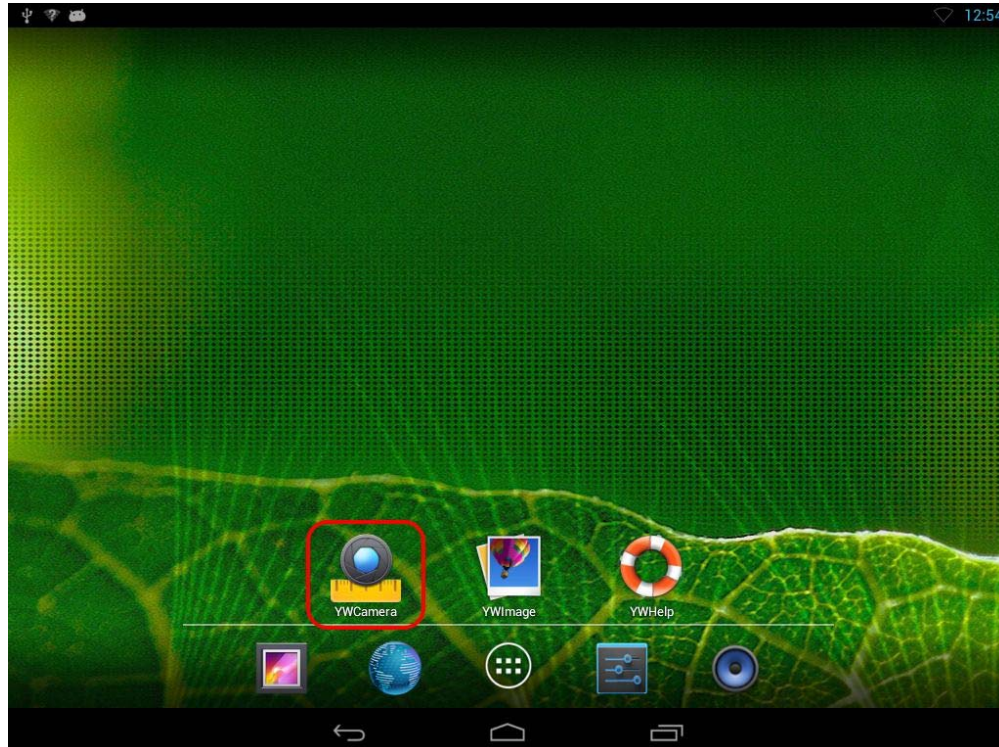
Optional Plug Types : USA/ EU/UK and Japan.

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.

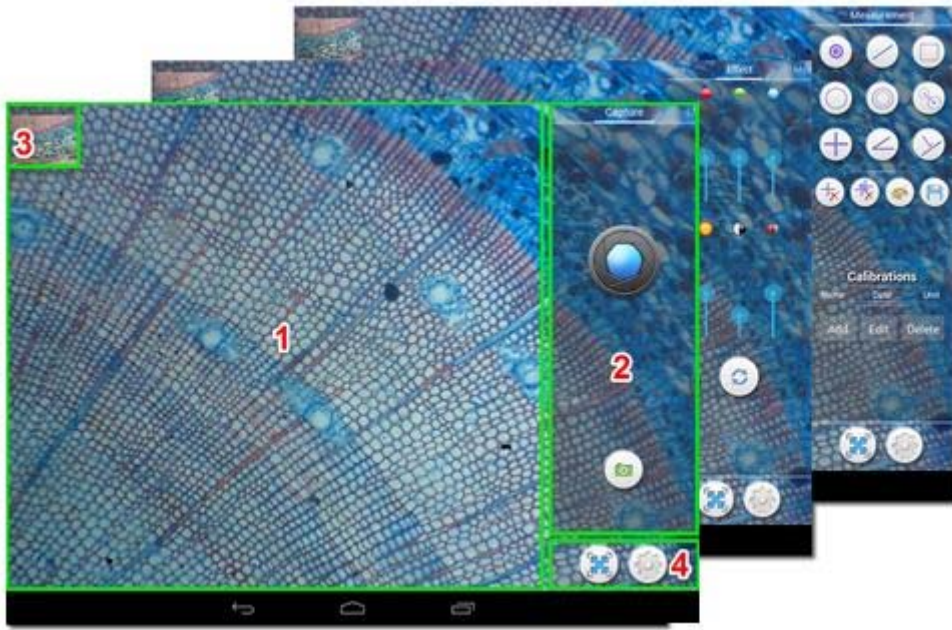


Build-in Microscopy Software

After the device is turn on, touch the “YWCamera” Icon to open the camera application.



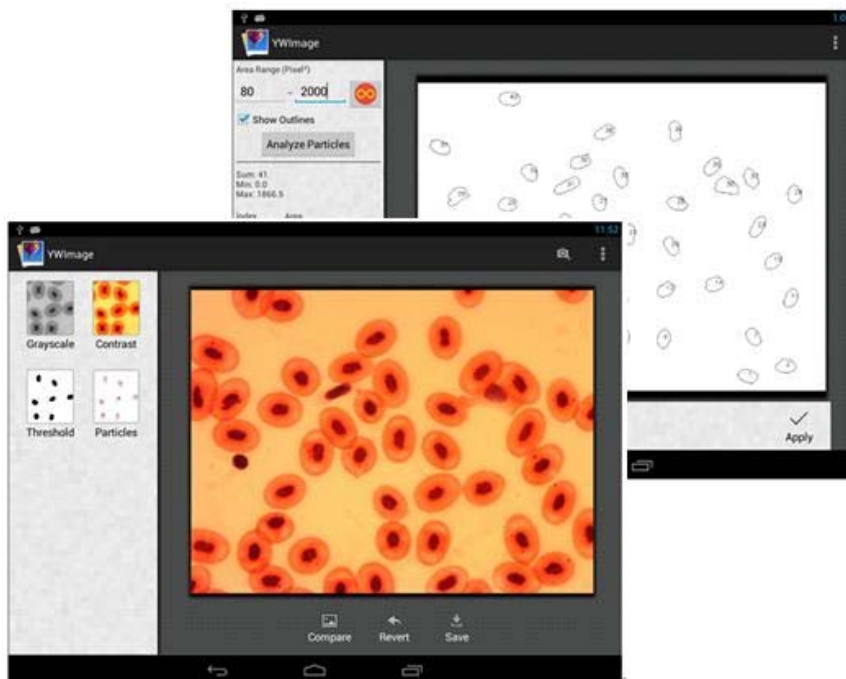
1. Real-Time Measurement Software



- 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 the 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

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