ZJView User Manual

Content

Introduction

ZJView is an Android APP which designed for microscopy application. ZJView help user to capture and store images easily into memory card, and provide color adjustment and measurement functions for your daily work.

Features

- HD high speed image preview.

- Take picture/Video recording

- Picture and video playback.
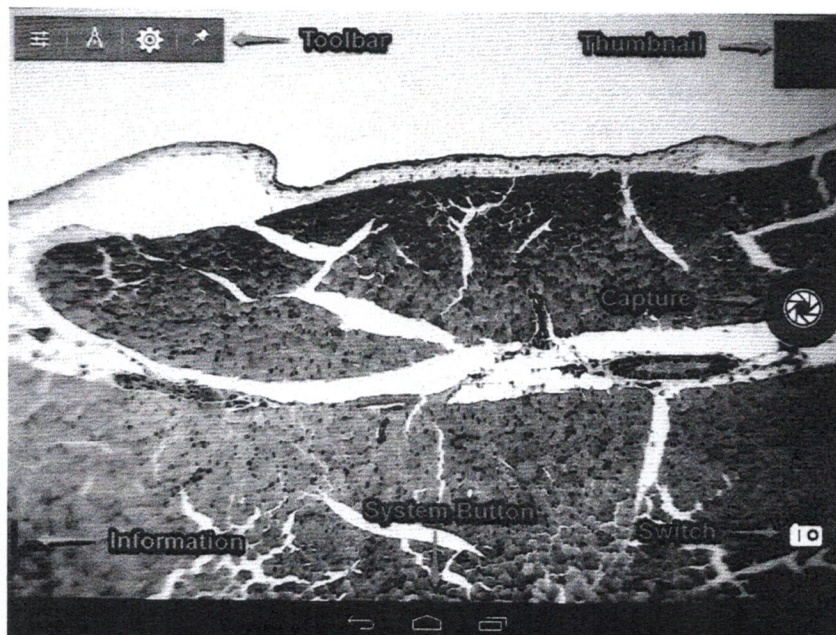
- Live measurement/report export

Start to use

Power on

Press and hold the power button for few seconds until the screen lights on.

Start ZJView

Touch the ZJView ICON to start the applicaton, the main user interface shows up:

Take Picture

Click the capture button ⊙ to take a picture any time, after image is

captured, the thumbnail will showed in the view which locate at right top corner.

Click the thumbnail to open the image file and playback other images.

The image file saved at /mnt/sdcard/zjview/pictures

Video recording

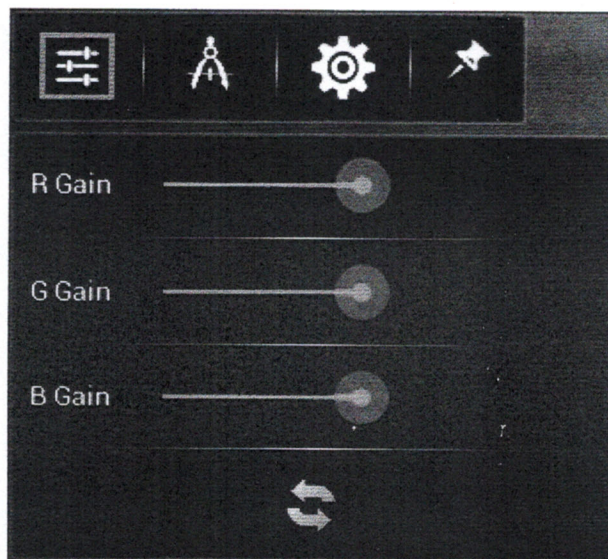Click switch ICON 🔲, switch to recording mode, the Capture ICON will

change to recording button ⬤, Click this button to start recording, click

again to stop recording. Click switch button again to switch back to Capture

mode.

The video file saved at /mnt/sdcard/zjview/pictures

Image Adjustment

Click the adjust icon on the toolbar to open Image Adjustment panel.

If you are not satisfied with the color of image, you can adjust RGB Gain value

here.Click the Reset button to restore the RGB value to defult.

Notice： RGB Gain adjustment hava effect on still picture only.

4
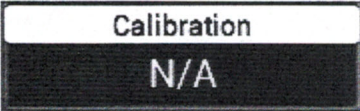
ZJView supports multiple measure tools

⊕		Point count
○		Circle's radius and area
╱		Line's length
▭		Rectangle's width, height and area
✛		Crosshair
∠		Angle
🎨		Change tool's color, stroke and text's color and size.
📷		Export the image with measurement data
📊		Export image and measure data to Excel file.
✕		Delete selected tool
🗑		Delete all tools
Calibration 10x		Current calibration value

a) Calibration

Before measurement, you need calibrate you microscope, different objective need calibrated separately.

After calibration accomplished, the calibration data will be saved. Just select the right calibration data when objective is changed.

i. **Click**

Calibration
N/A

, open calibration list.
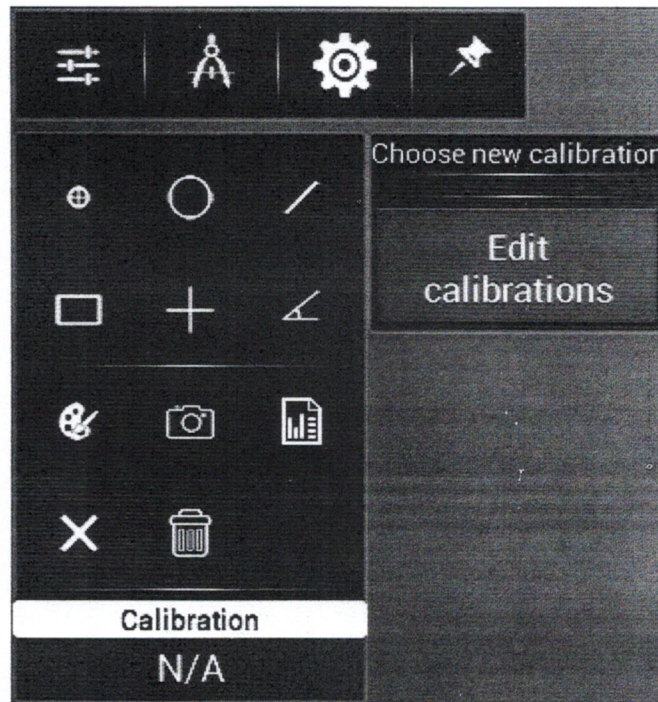
ii. There is no data at the very beginning, Click"Edit Calibration" to open Calibration Mode.

iii. Click , input the name of the new calibration data, a name related to the objective magnification is recommended.Such as 10X.

Add new

Input name of calibration item and select unit.

Name:

10x

Unit:

μm

Cancel   OK
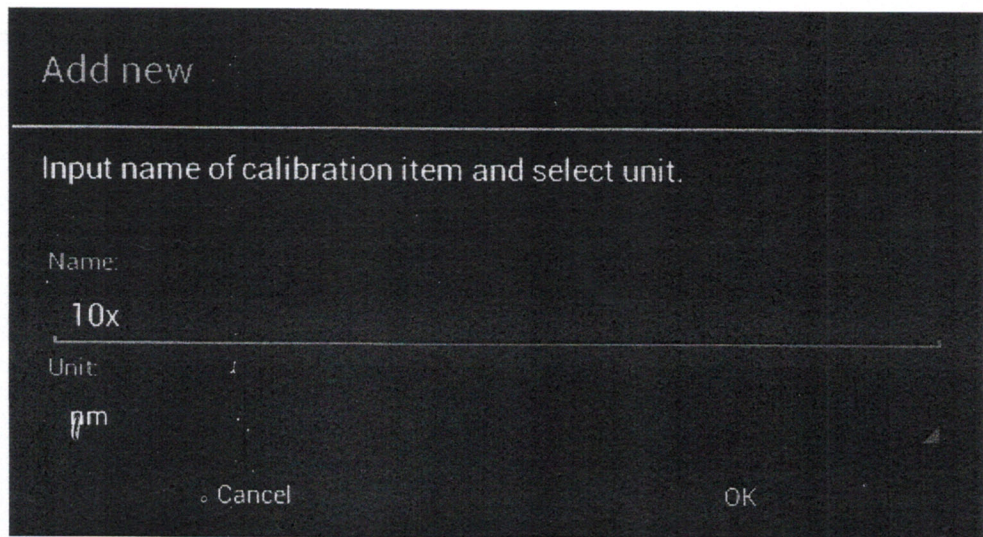
iv.   Click OK, put a physical calibaraion ruler on the stage, such as 0.01mm/Div. Move the calibration ruler on the screen, make sure the scale match the physical ruler.
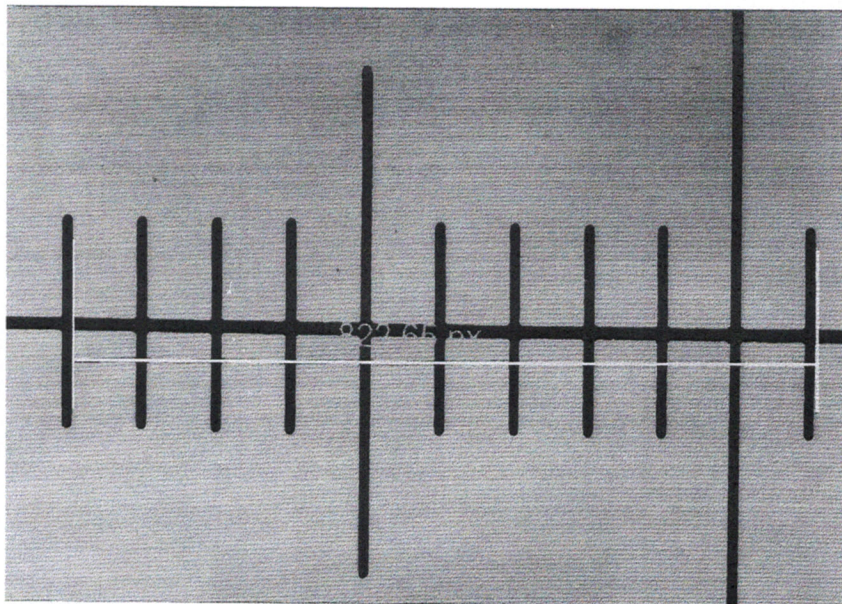
v.   Click "Input physical length", to input the physical length of theruler, here we have 10 small div represent 100um, just input 100um, Click"OK", the software will calculate the physical length of single pixel.

Add new

Please enter the actual length of the calibration ruler on the screen.

Length

100| μm

Cancel   OK
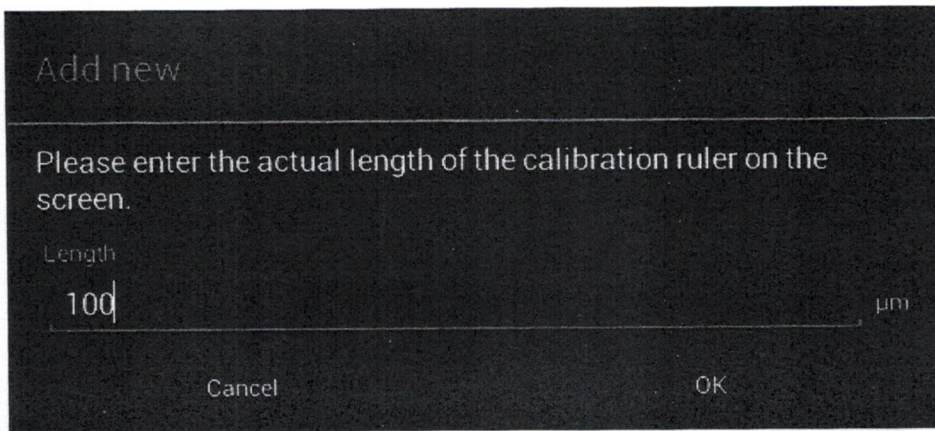
vi.   Repeat step 4 and step 5 to calibate multipletimes. The software will

calculate a average value.

Save this calibration

vii.   Click   to save calibration value, Click
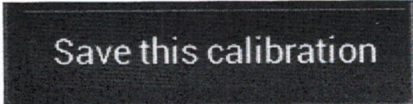

to calibrate other objective, or click back button to return the

man screen.

viii.   Select the Calibration value which just generated, the current calibration

name will changed.

Choose new calibration

10x

0.122 μm/Pixel

Edit calibrations

Calibration

10x
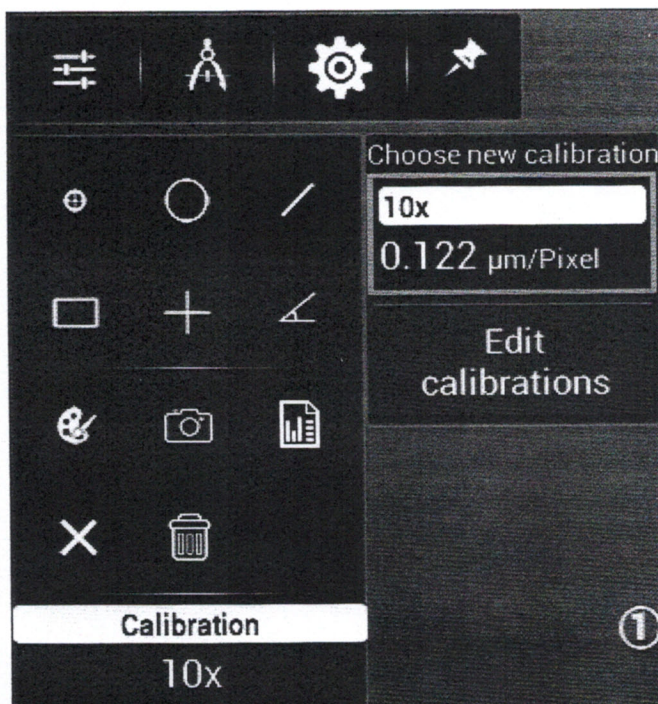
b) Measurement

After calibration completed, click the measurement tool which you need, drag the end points of the tool, the shape or position of the tool will be changed, and the measurement data will be changed too. If the calibration is not being done, the measurement data will use pixel as unit.

Measurement Report

Click button to show current measurement data list, Click the Export button to export the data to a Excel file.

Excel file saved at   /mnt/sdcard/zjview/reports.

Measurement results

Unit:μm

No.	Center	Diameter	Area	Length	Width	Height	Angle	Distance
0	(38.9,38.9)							
1	(73.5,31.0)	36.4	1,037.9					
2	(6.1,6.1)			17.2				

Fullscreen

Uncheck the nail button at right side of main toolbar, all controls will disappear after a few seconds, the timeout can be configured.
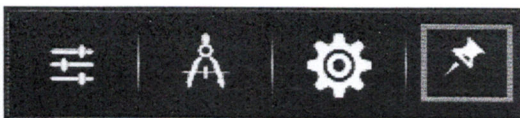
System setting

1. **Preview size**: There are two resolutions, 25fps@640x480, 17fps@1024x768

2. **Capture size**: Picture Size, up to 5M Pixel.

3. **Storage path:** The picture, video and reports can be save to Internal Memory, SD Memory card or USB flash disk.

4. **JPEG quality**: JPEG file quality.

5. **Mouse Mode:** When checked, endpoint of measurement tools is smaller, suitable to use the mouse to improve accuracy.

6. **Measure Accuracy:** Precision of display data, you can choose to retain two or three numbers after the decimal point.

7. **Auto hide:** controls auto hide and time out setting.

8. **Clear data:** Delete this application's data, including calibration data.

9. **Feedback:** Feedback to developers

10. **About:** Software information.