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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 application, 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.

![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 default.

Notice: RGB Gain adjustment have effect on still picture only.
ZIView supports multiple measure tools

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Point count" /></td>
<td>Point count</td>
</tr>
<tr>
<td><img src="image2" alt="Circle's radius and area" /></td>
<td>Circle's radius and area</td>
</tr>
<tr>
<td><img src="image3" alt="Line's length" /></td>
<td>Line's length</td>
</tr>
<tr>
<td><img src="image4" alt="Rectangle's width, height and area" /></td>
<td>Rectangle's width, height and area</td>
</tr>
<tr>
<td><img src="image5" alt="Crosshair" /></td>
<td>Crosshair</td>
</tr>
<tr>
<td><img src="image6" alt="Angle" /></td>
<td>Angle</td>
</tr>
<tr>
<td><img src="image7" alt="Change tool's color, stroke and text's color and size." /></td>
<td>Change tool's color, stroke and text's color and size.</td>
</tr>
<tr>
<td><img src="image8" alt="Export the image with measurement data" /></td>
<td>Export the image with measurement data</td>
</tr>
<tr>
<td><img src="image9" alt="Export image and measure data to Excel file." /></td>
<td>Export image and measure data to Excel file.</td>
</tr>
<tr>
<td><img src="image10" alt="Delete selected tool" /></td>
<td>Delete selected tool</td>
</tr>
<tr>
<td><img src="image11" alt="Delete all tools" /></td>
<td>Delete all tools</td>
</tr>
<tr>
<td><img src="image12" alt="Calibration" /></td>
<td>Current calibration value</td>
</tr>
</tbody>
</table>

a) Calibration
Before measurement, you need calibrate your 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 , 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.
iv. Click OK, put a physical calibration 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 the ruler, here we have 10 small div represent 100um, just input 100um, Click"OK", the software will calculate the physical length of single pixel.
vi. Repeat step 4 and step 5 to calibrate multiple times. The software will calculate an average value.

vii. Click to save calibration value, Click to calibrate other objective, or click back button to return the main screen.

viii. Select the Calibration value which just generated, the current calibration name will changed.
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/zview/reports.

<table>
<thead>
<tr>
<th>No.</th>
<th>Center</th>
<th>Diameter</th>
<th>Area</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Angle</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>(38.9,38.9)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>(73.5,31.0)</td>
<td>36.4</td>
<td>1,037.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(6.1,6.1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.