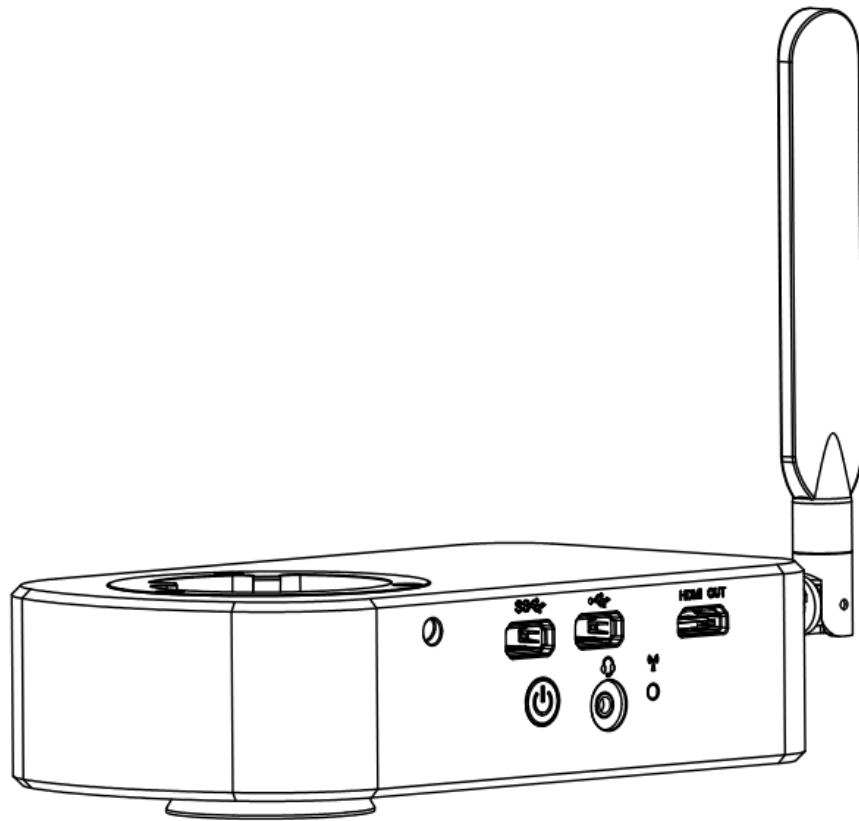




PrimeCam Intervention



HDMI

User Manual

Content

1. Operation interface	- 3 -
2. Image attribute adjustment toolbar.....	- 4 -
3. Setting panel	- 6 -
4. Annotations, measurement shortcut toolbar	- 8 -
4.1 Shortcut buttons.....	- 8 -
4.2 Calibration and measurement.....	- 9 -
5. Snapshot, screenshot, record, screen record, folder shortcut toolbar	- 10 -
6. Folder management.....	- 10 -

1. Operation interface

Settings toolbar

Annotations, measurement shortcut toolbar

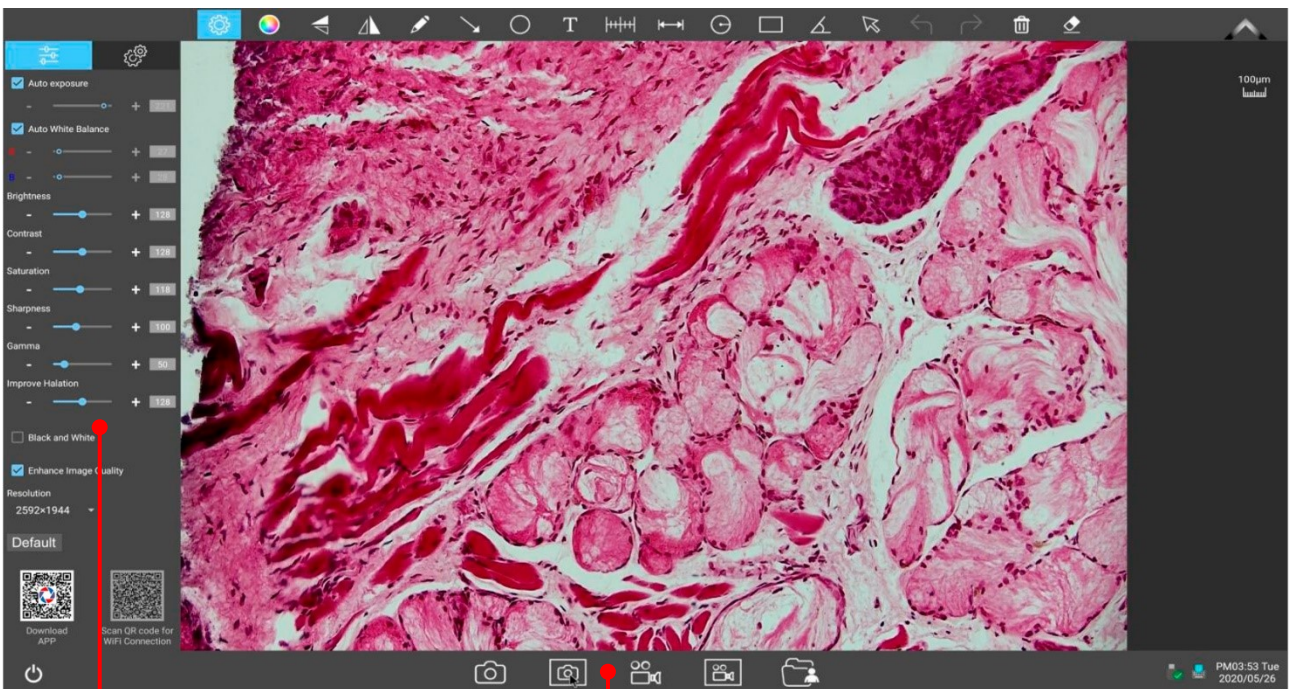

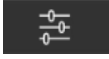
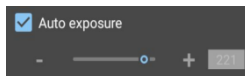


Image attribute adjustment toolbar

Snapshot, screenshot, record, screen record, folder shortcut toolbar

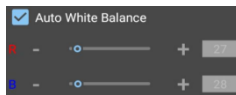
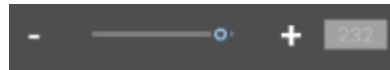
2. Image attribute adjustment toolbar

Click the setting button  in the upper left corner of the operation interface, the image attribute adjustment panel  will be brought up.



Auto exposure : When checked, the camera will be exposed automatically according to the environment used.

When not checked, manual exposure can be done through the adjustment bar, which supports direct input of values in the box.



Auto white balance : When checked, the camera will automatically white balance according to the use environment.

When not checked, you can manually adjust the white balance through the adjustment bar, which supports direct input of values in the box.



Brightness : Manually drag the adjustment bar to adjust the image brightness.



Contrast : Manually drag to change the contrast between light and dark, often used in conjunction with brightness adjustment for best results.



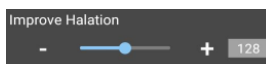
Saturation : Manually drag to adjust image saturation.



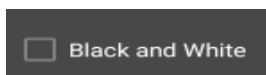
Sharpness : Manually drag to adjust the sharpness of the image.



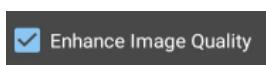
Gama : Manually drag the gamma to adjust the image



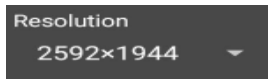
Improve Halation : Manually drag to adjust the halo effect of the image.



Black and white preview : When checked, the preview screen is displayed in black and white mode.



Enhance image quality : When checked, enable image enhancement to enhance the image effect and make the image clearer and sharper.



Resolution setting : Only available for 12.0MP models, can switch between three resolutions:

4000×3000, 3840×2160, 2592×1944

Note: after the resolution switch is successful, the camera should be rebooted and the image should be produced normally in about 35 seconds.





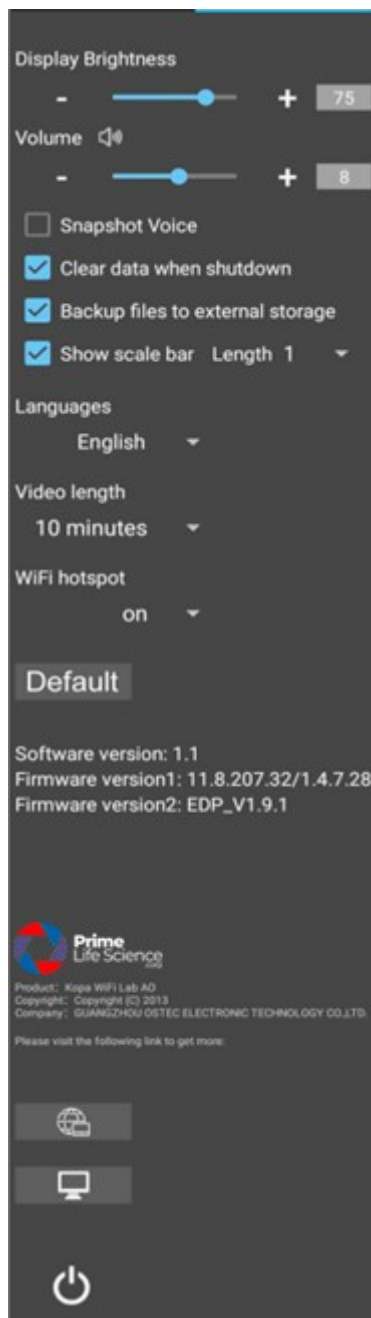
Download APP and scan for connection : Scan the QR code on the left with a mobile phone or tablet and follow the steps to download and install the APP: PrimeCam. After the installation is completed, scan the QR code on the right with the scanner in the APP to connect the camera to preview the real-time image.

For the download and use of PrimeCam, please refer to its instructions.

Note: please confirm whether the "WiFi hotspot" on setting panel is opened before the scan connection. If the "WiFi hotspot" is not opened, the scan code cannot preview the image.

3. Setting panel

Click the setting button  in the upper left corner of the operation interface, the setting panel  will be brought up.

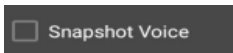




Brightness : Manually drag the adjustment bar to adjust the overall brightness of the screen.
(this function is only available for the smart all-in-one camera with display screen)

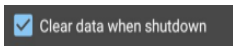


Voice : Adjust the volume of audio playback on the display (this function is only available for the smart all-in-one camera with display screen)



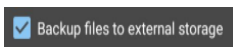
Snapshot voice : When checked, click to take a photo, there will be a prompt sound;

When not checked, clicking to take a photo will not prompt the sound (this function is only available for the smart all-in-one camera with display screen)



Clear data when shutdown : When checked, it will clear the image, video and other data captured by the application after shutdown

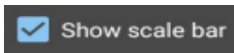
If not checked, the data such as pictures and videos captured by the APP will be saved locally after shutdown.



Backup files to external storage : When checked, pictures and videos taken will be saved synchronously to the external USB flash drive inserted.

When the box is not checked, the images and videos taken will not be saved synchronously to the external USB flash drive inserted and need to be copied manually.

Note: If there is no access to the external USB flash drive, this function is not valid until the external USB flash drive is accessed.



Show scale bar

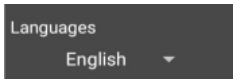
: When checked, the scale bar of the currently selected length is displayed in the upper right corner of the preview window.

The scale will be hidden when unchecked.



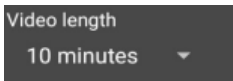
Length

: Three fixed scale lengths are available.



Languages

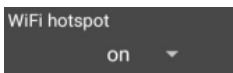
: APP interface language switch.



Video length

: There are three options for setting a time limit :10 minutes, 30 minutes, and 60 minutes.

Note: avoid excessive memory capacity due to too long recording time. Default is 10 minutes.



WiFi hotspot

: WiFi hotspot on and off settings.

It is turned off by default. After turning off the "WiFi hotspot", users cannot scan the code to preview the image.



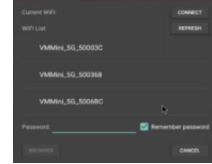
Default

: When checked, the system will restore the factory settings.

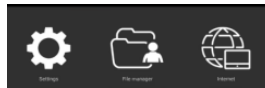
Note: it takes about 4 minutes to restore the factory settings. Do not power off during the recovery process, otherwise the system will fail to start due to abnormal conditions.



Surf the internet : Connect to the wireless Internet (only 5G wireless Internet signal is supported), enter the current connected 5G network password, and click "browser" to directly open the browser to surf the Internet.



: Open the operating system desktop.



4. Annotations, measurement shortcut toolbar



4.1 Shortcut buttons



Settings

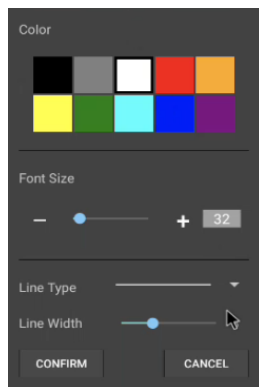
Bring up image attribute adjustment toolbar and panel



















Color settings

Bring up the palette to set the color of drawing tool and text.

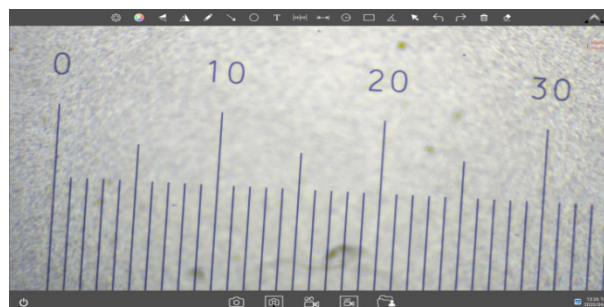
Font size, line type and line width can be set.




	Image mirror		Radius drawing circle measuring tool
	Image flip		Rectangular measuring tool
	Drawing tool		Rectangular measuring tool
	Arrow tool		Select object tool, support single, multiple selection
	Oval tool		Undo tool
	Input text tool		Redo tool
	Calibration setting table		After selecting an object, clicking this button will delete the object
	Linear measuring tool		Eraser tool for erasing drawing objects

4.2 Calibration and measurement

(1) Place the calibration scale within the microscope's field of view.



(2) Click  to bring up calibration table shown as below:

Name	Length	Unit	pixels	Select
_4X	1000.0	µm	602.8	<input checked="" type="checkbox"/>

NEW EDIT DELETE EXIT

(3) Click “New” 

Name _____

Length _____

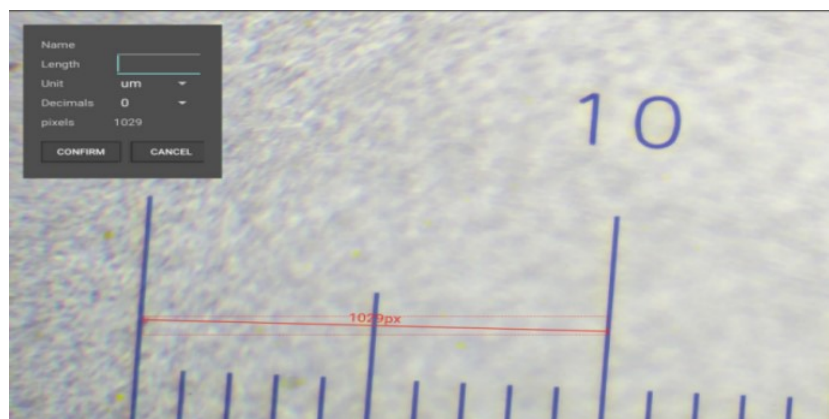
Unit **um** ▼

Decimals **0** ▼

pixels 100

CONFIRM CANCEL

(4) Draw on the ruler, the pixels are automatically entered as shown below.



(5) Enter the name, the actual length of the calibration scale, and select the unit. Click "Confirm" to complete the calibration.

Select calibration value

Name	Length	Unit	pixels	Select
_100X	100.0	μm	2371.0	<input type="checkbox"/>
4X	10.0	um	1029.0	<input checked="" type="checkbox"/>

NEW EDIT DELETE EXIT

The calibration table below supports the re-editing and deletion of the selected calibration values.

Click "exit" after selecting, and then use the measurement tool to measure.

5. Snapshot, screenshot, record, screen record, folder shortcut toolbar



Snapshot Click to take a photo of the live image



Screenshot Clicking to take a picture of the entire screen



Record Click to record the real-time image



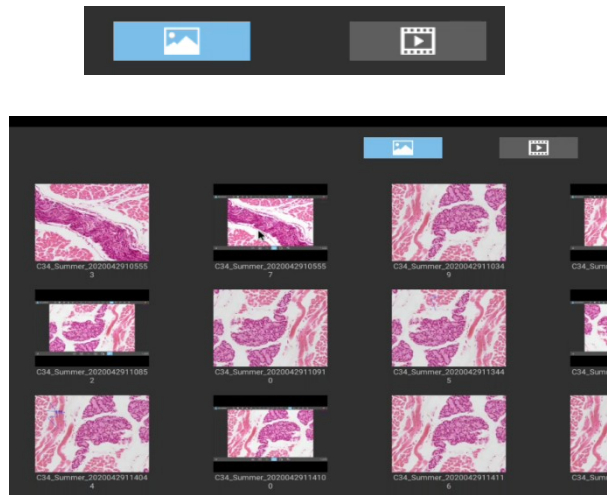
Screen record Click to record the entire screen



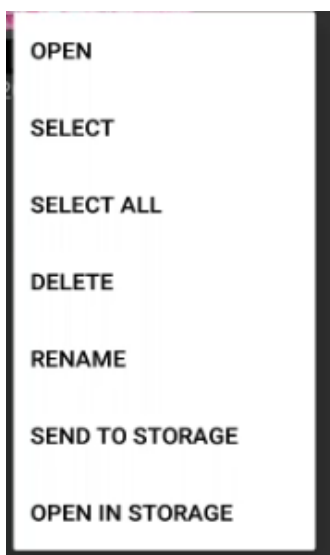
Folder Click to enter image and video management

6. Folder management

- (1) After entering folder management, the top of the interface can switch to images and videos gallery.



- (2) Right - click on a single image or single video to display the following menu



- | | | |
|-----------------|---|--|
| Open | : | Enlarge this picture/video to show/play |
| Select | : | Select this image/video |
| Select all | : | Select all images // videos in the folder |
| Delete | : | Delete the currently selected image/video. |
| Rename | : | Rename the currently selected image/video. |
| Send to storage | : | Sends the currently selected image/video to the storage device. |
| Open in Storage | : | Open the currently selected image/video in the location where the usb flash drive is stored. |