Wireless Interactive Education System
(MJ WiFi System)

User Manual

Ver1.1

CONTENT

Chapter 1: Software Installation

1.1 Environmental Requirements for Software Installation on Wi-Fi enabled PC or laptop

Compatible system: XPsp3，Win7 ，Win8，Win8.1，Win10

Note: Partial function of this software relies on the installation of the following softwares:

Microsoft Word 2003 or version above (with function of Word Export for calibration result)

Microsoft Excel2003 or version above (with function of Excel Export for calibration result)

Microsoft Outlook 2003 or version above (with function of picture delivery by email)
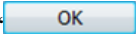
Internet Explorer7.0 or version above (with wireless connection function of software)

VERY IMPORTANT:

1. Before the system is used, power the video matrix and wait for about 1 minute before powering the electronic eyepiece.

2. Please do not press the the reset hole on the Wi-Fi camera eyepiece, if necessary, please ask for help.

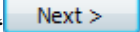3. Maximum 25 Wi-Fi camera eyepieces can be turned on at one time.
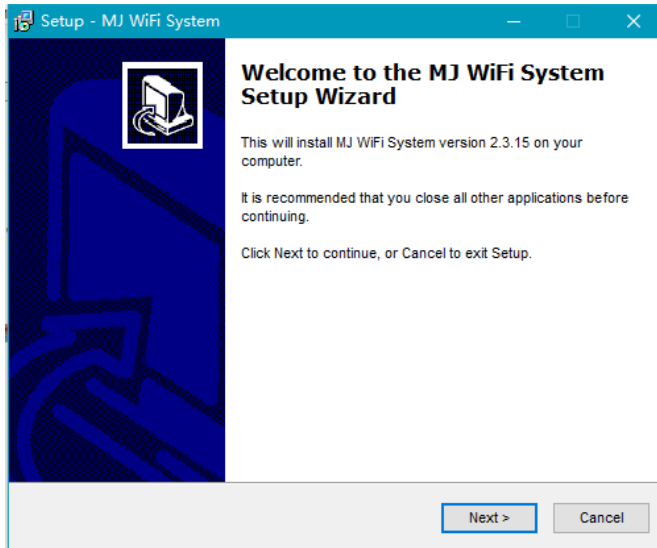
1.2 Installation

Step1. Activate the computer and insert the installation disk into the DVD.

Step2. Double click the file "MJ WiFi System" under the disk catalogue. When the following window pops up, please select the installation guide language and press the button " OK ".
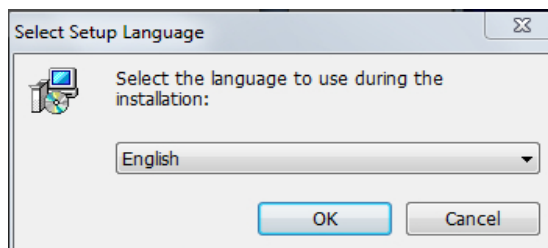

Note: The installation guide language is independent of the software interface language. If you need to change the software interface language, please refer to 2.2 - Modification of Language Function.
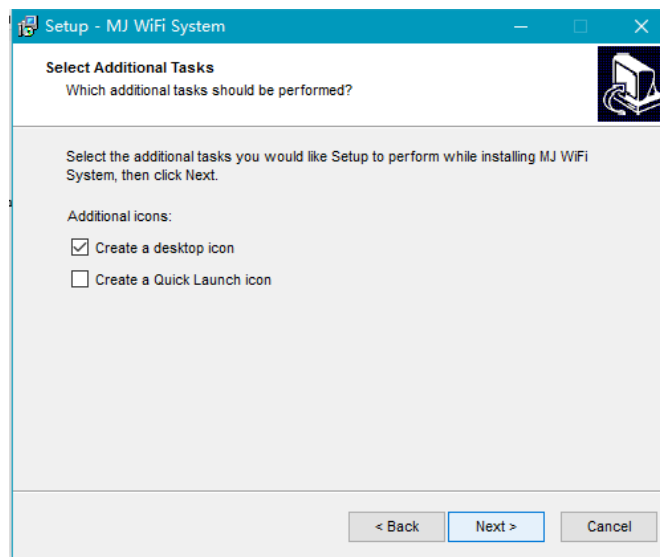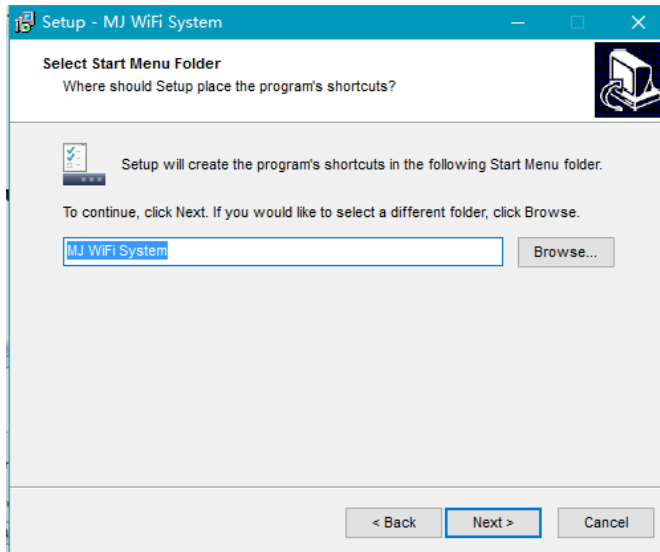
Step 3. When the window "Welcome to the MJ System Setup Wizard" pops up, please click the button " Next > "


Step 4. When the window "Please select the target location" pops up, click "Browse" to choose the file path for installation (usually default),and then click " Next > " to continue.
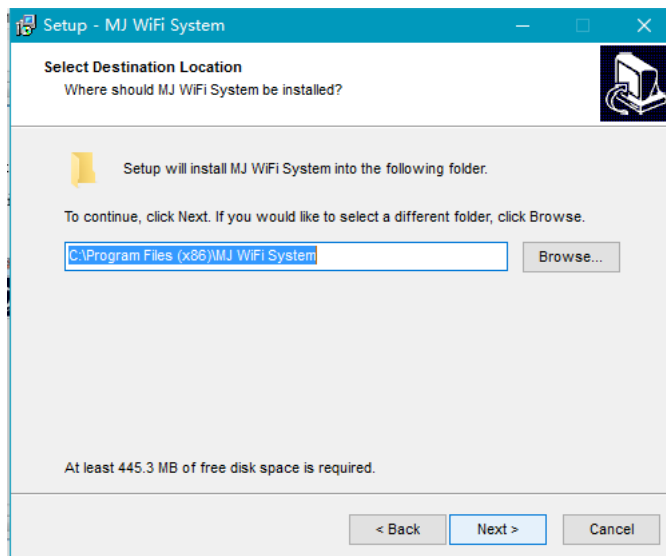
**Step 5.** When following window appears, select the shortcut you need, and then click the button " Next > ".

Step 6. Confirm information like "Select Additional Tasks" of software installation. After confirmation, please click the button " Install ".
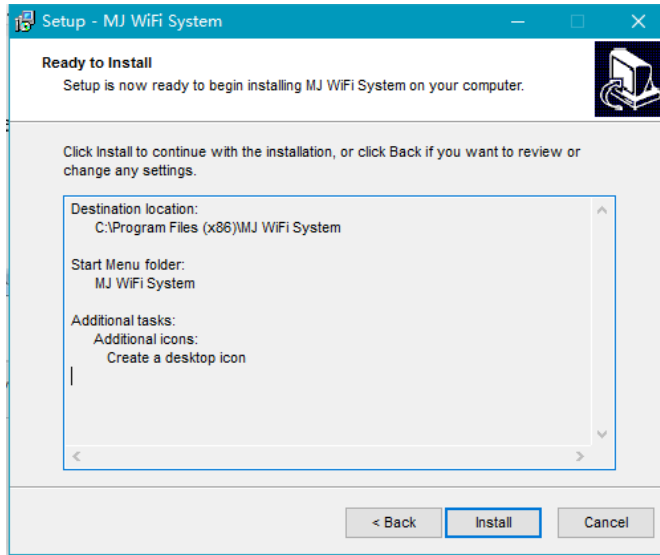
Step 7. An installation progress bar will appear during the software installation procedure. The software installation necessitates the registration of some runtime libraries, which might be intercepted by some antivirus software. If such interception pops up, please allow the procedure to continue.

Step 8. An installation progress bar will appear during the software installation procedure. When the following window appears, the software has been installed successfully. Then click the button "[Finish]"to complete the installation. After closing the window, check the icon ▢ MJ WiFi System on your desk. If you fail to find it, please find it from the path "Start" →"All programs".
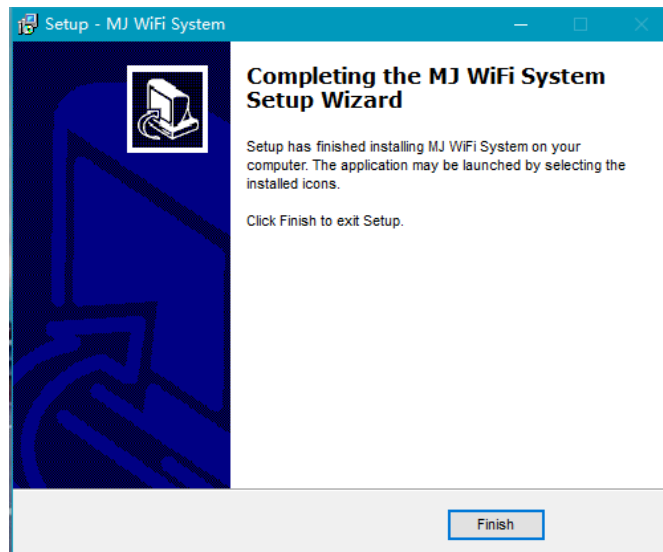
# Chapter 2: Navigation Panel Introduction

1. **Capture**: Switch to the camera capture work mode.
2. **Screenshot**: Capture the screen. Can save screenshot to desktop or can add it to your editing PPT, Word directly.
3. **Desktop**: Switch to desktop, show the desktop, you can open files you want to show, or write and draw as using a blackboard.
4. **Record at desktop**: switch to the desktop, record video to the full screen or indicated screen area. By using this, can illustrate the process or operation to the student by video.
5. **Menu**: File storage path settings (setup mode settings is included here), recording screen settings, minimize this navigation panel, and exit the software.

Chapter 3: Authorize iOS device (iPad /iPhone) to access the APP (MJ Wi-Fi Education)
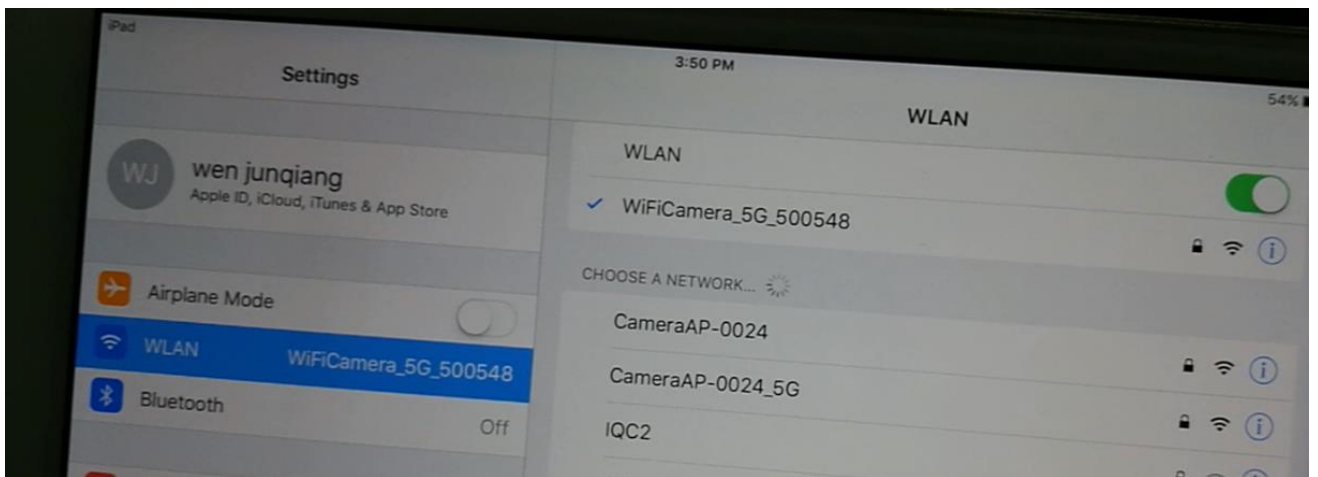
1. Run <u>MJ WiFi System software.</u>

Click "Manual" on the Navigation Panel, select "Accessibility Settings", check "Setup Mode", click "OK" button to confirm. Enter Setup Mode.

(Note: If want to authorize new iPad /iPhone to access <u>MJ WiFi Education</u> and stream video from microscope, please checked "Enter Setup" mode, otherwise the new iPad /iPhone can't stream video from microscope.)
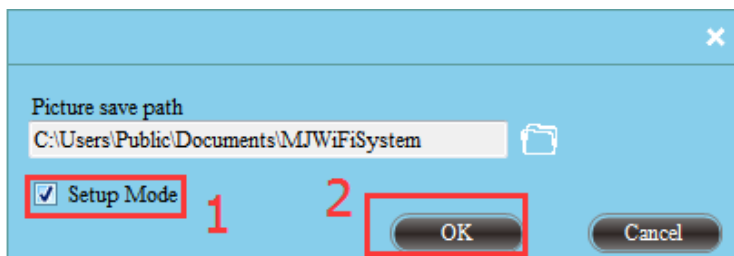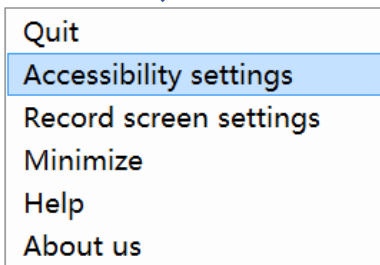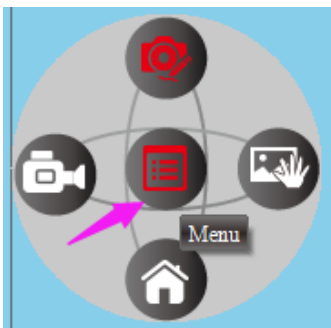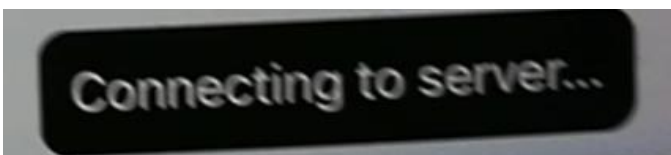
2. Connect iPad /iPhone to microscope camera SSID WiFiCamera _5G_XXXXX (you will find correct SSID on each camera's sticker as follows picture),


Run the APP "MJ WiFi Education", you will find a prompt "Connecting to server…."on the bottom of APP

And <u>MJ WiFi System</u> software will pop up as following picture, whether to allow "XXXXXXXXXX" (your iPad or iPhone's name) to access "XXXXXXXXXXXX(WiFi Camera's SSID) "
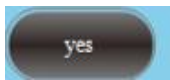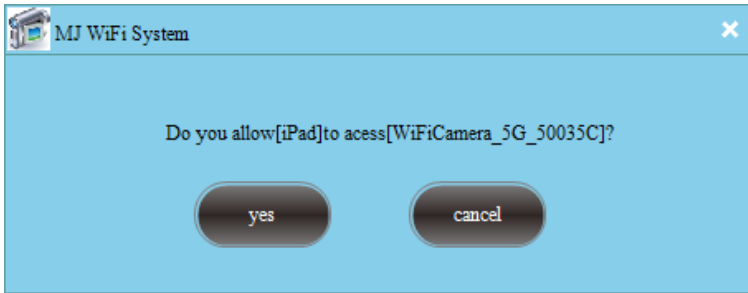

If you click the " " button, the iPad /iPhone will be added to the white list, which has been authorized, and the iPad /iPhone can stream video from the connected microscope without repeated adding in the future.
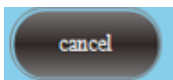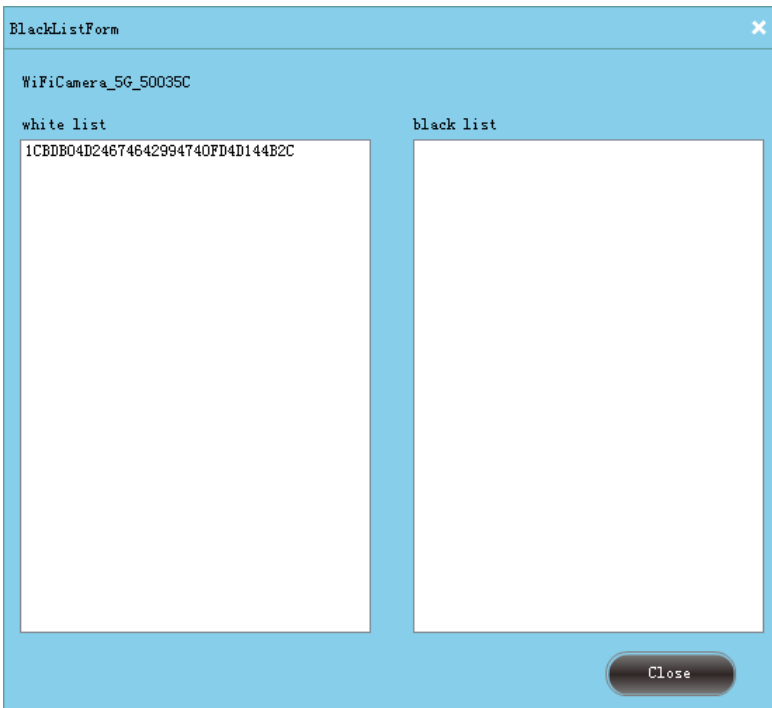
If you click the " " button, the iPad /iPhone will be added to the blacklist, which has not authorized, and the iPad /iPhone can't stream video from the connected microscope.
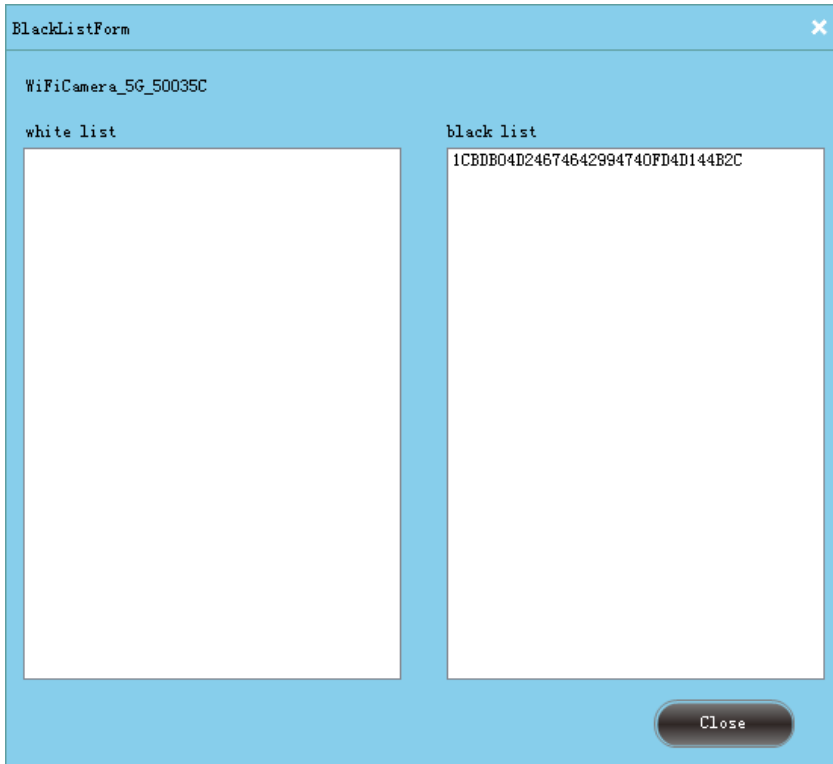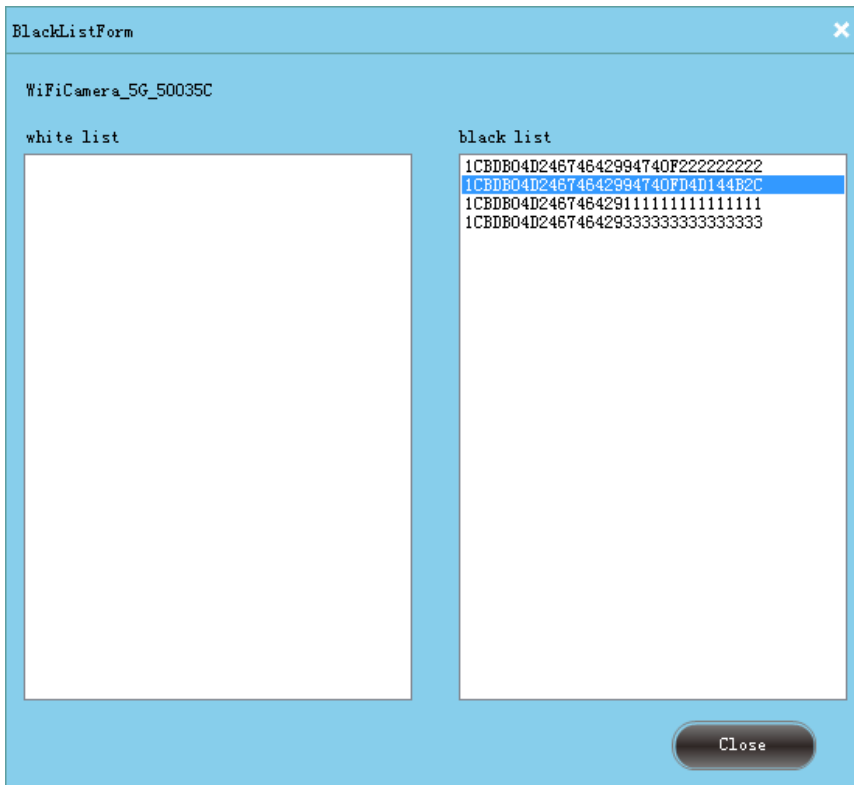
Note: The number and letters shown on white/black list as below picture is your iPad or iPhone's unique serial-number.
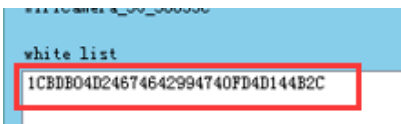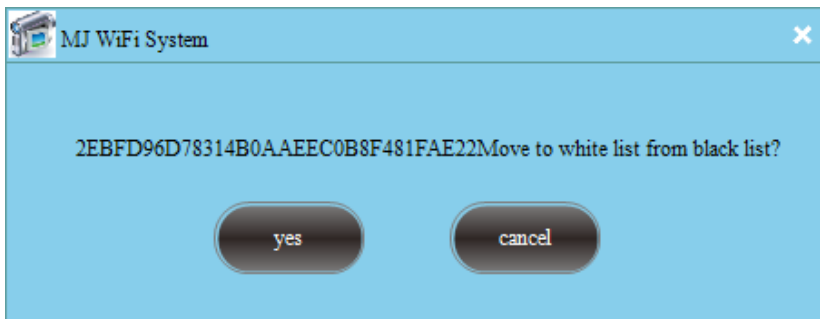

Remove the iPad /iPhone from the blacklist and add to the white list:
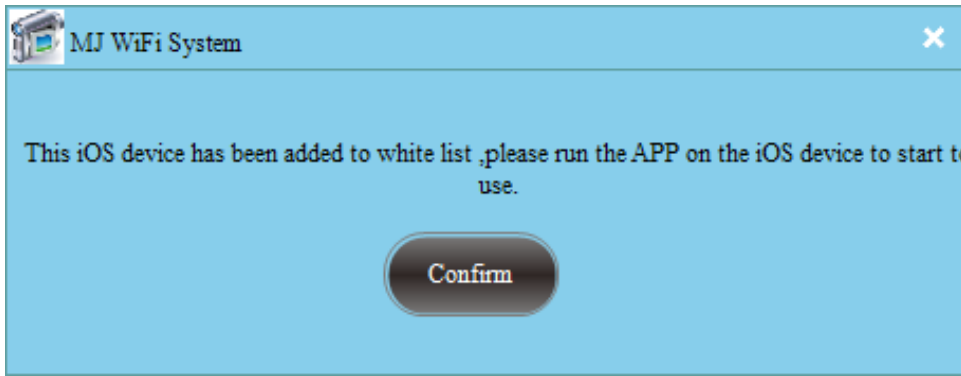
1. Go to "Manual" on the Navigation Panel, select "Accessibility Settings", check "Setup Mode",

Run iPad /iPhone APP MJ WiFi Education, and the software MJ WiFi System will pop up the blacklist list.

The current banned iPad /iPhone is in blue background (as shown picture below).

BlackListForm

WiFiCamera_5G_50035C

white list　　　　　　　　　black list

1CBDB04D24674642994740F222222222
1CBDB04D24674642994740FD4D144B2C
1CBDB04D2467464291111111111111111
1CBDB04D24674642933333333333333333

Close

2. Double click the text on black list with blue background, a prompt will pop up to say if you want to move the "XXXXXX" (your iPad or iPhone) from the blacklist and add to the white list?

MJ WiFi System

2EBFD96D78314B0AAEEC0B8F481FAE22Move to white list from black list?

yes　　　　cancel

Click the "yes" button to move the iPad /iPhone to the white list

If Click "Cancel" button, then the iPad /iPhone is continues to be blacklisted.

If you want to remove the iPad /iPhone from the white list, add it to the black list.

Double-click it on the white list, delete from the white list, add to the blacklist, and next time the iPad /iPhone can't access the APP .

Chapter 4: Function Introduction of "Capture" Work Mode

Click the "Capture" button on the Navigation Panel to into the "Capture" work mode. The software operation interface will display as below:

4.1 Capture
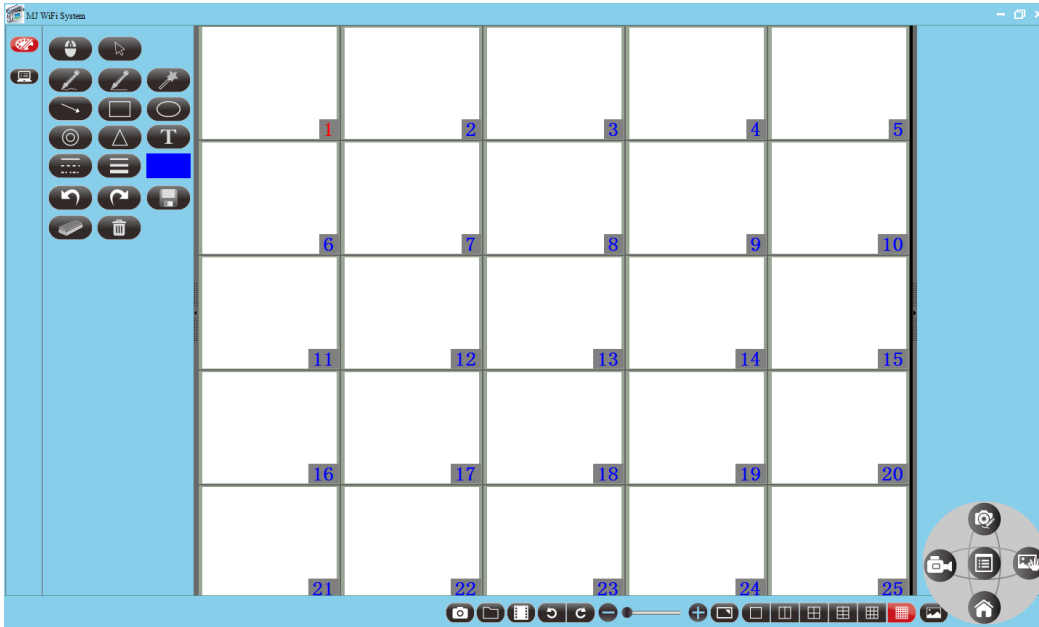
4.1.1 Left Toolbar
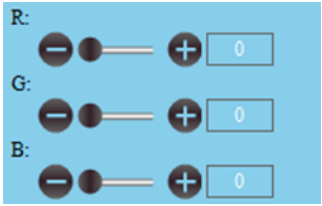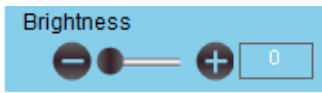
When switching to one screen status, there are video parameter adjusting tools.
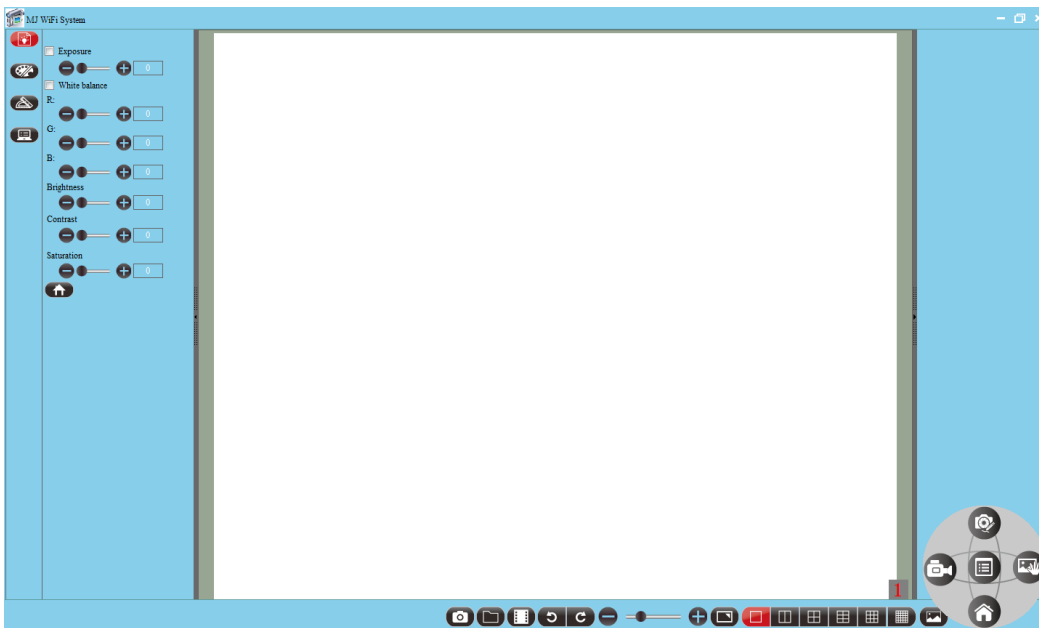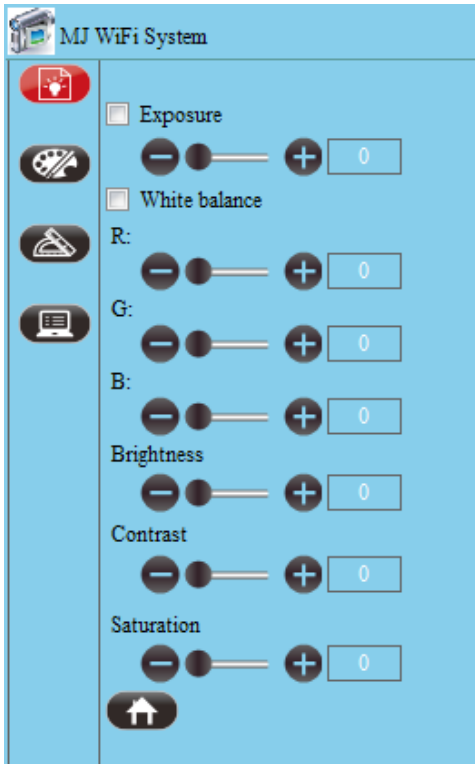
You can adjust relevant parameters according to your needs to achieve desirable effects for preview and photograph, as shown in image:

	Auto White balance	When this option is ticked, the device will process auto white balance according to the service environment. The "Manual White Balance" below can also be applied for adjustment when this option is not ticked. Note: When shooting colorful objects, color abnormity might occur. Thus manual calibration needs to be made for auto white balance. Detailed operation method: align the device with white paper, remove the tick on "Auto White Balance" option, and tick it again, making the device process auto white balance once. After that, remove the tick on the "Auto White Balance" option.

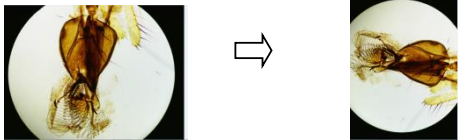|		
R: / G: / B: (sliders)	Manual White Balance	You can adjust R,G, B, and adjust 3 colors to achieve the desired effect.
Brightness (slider)	Brightness Control	Drag it to change the entire brightness of the screen. Brightness control usually coordinates with contrast control to achieve the best effect.
Contrast (slider)	Contrast Control	Drag it to change the contrast between the brightness and darkness of the screen. Contrast control usually coordinates with brightness control to achieve the best effect.
Saturation (slider)	Saturation Control	Drag it to change the color saturation of the screen to achieve the best effect
Exposure (slider)	Auto exposure	Check the automatic exposure button to automatically achieve an appropriate exposure value based on the environment.
Exposure (slider)	Manual exposure	You can adjust the scroll bar to achieve the desired effect.
(home icon)	Default	Back to default settings.

4.1.2 Bottom toolbar

(rotate icon)	Counterclockwise rotate 90 °(note: only static images can be rotated. Video images cannot be rotated)	

	Clockwise rotate 90 ° (note: only static images can be rotated. Video images cannot be rotated)	
	Zoom out	Click this button or use mouse to drag to digital zoom out image
	Zoom in	Click this button or use mouse to drag to digital zoom in image
	Full screen	Click on the button and the image is filled with a scale. Click the right mouse button or ESC key in this mode to return, the image position is unchanged. If the previous is 1:1 status, then 1:1 status is returned, and if the screen status was previously appropriate, the appropriate screen status is returned.
	Snapshot	Click to capture an image

Zoom out: zoom out picture proportionally

Zoom in: zoom out picture proportionally

Full screen: Click on the button and the image is filled with a scale. Click the right mouse button or ESC key in this

mode to return, the image position is unchanged. If the previous is 1:1 status, then 1:1 status is returned, and if the screen status was previously appropriate, the appropriate screen status is returned.

Select screens to display.

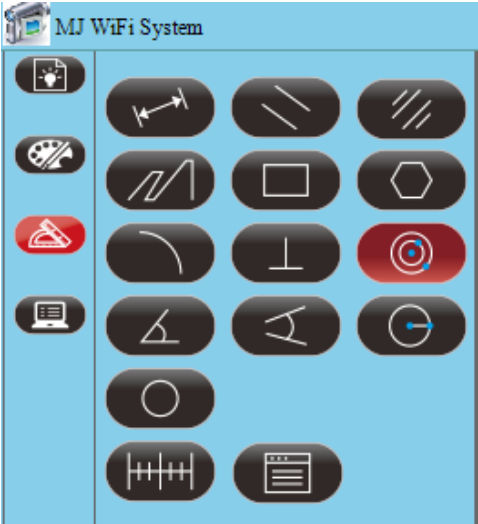Live stream video from the camera and annotate it on the video preview screen.

		Mouse	Same function as drag, you can drag pictures or video operations.
		Pencil	Pencil function.
		Straight Pencil	Draw a straight
		Highlighter Pen	The object of the painting is automatically eliminated after 3 seconds.
		Save	Save the edited images.
		Eraser	Erase the contents of the painting.
		Delete all	Remove all the contents of the painting.
		Line thickness	Sets the line thickness for all drawing tools.
		Undo	Undo the last operation.
		Redo	Restore the last operation.
		Line	Sets the line style for all drawing tools.

	Line Color	Sets the color of all drawing tool lines.

Note: Measuring tools only available under one screen status after taking picture

	Calibration: calibration is required before measuring.	
	Straight line measurement	
	Parallel line measurement	
	Double parallel line measurement	
	Line measurement	
	Rectangular measurement	
	Polygon measurement	
	Arc measurement	
	Measure by three vertical lines	
	Angle measurement with four points	
	Angle measurement with three points	
	Concentric circle measurement	
	Measurement of center radius	
	Circular measurement	
	Display measurement results	

Chapter 5：Introduction to "Screenshot" picture function

When you are with the Screenshot function: you can quickly screenshot and save to desktop at one-click, also can drag the

image to the PPT or WORD you are editing directly.

Chapter 6：Introduction to "Desktop" function

Desktop Features: Return to the desktop, you can prepare the video and document, you can also use annotation tools to annotate

on the desktop.

Annotation tool:

		Minimize	Hide the toolbar. (Display the toolbar by clicking it again)
		Mouse	Same function as drag, you can drag pictures or video operations.

		Pencil	Pencil function.
		Straight Pencil	Draw a straight
		Highlighter Pen	The object of the painting is automatically eliminated after 3 seconds.
		Save	The capture edit area is saved as a picture.
		Eraser	Erase the contents of the painting.
		Delete all	Remove all the contents of the painting.
		Line thickness	Sets the line thickness for all drawing tools.
		Line	Sets the line style for all drawing tools.
		Line Color	Sets the color of all drawing tool lines.
		Graphics	Select graphics for drawing operations.
		Mouse	Click to operate on your desktop

Chapter 7：Introduction to "Record at desktop" function

Switch to the desktop, record video files on the desktop screen to make video courseware.

Note: Screen recording area settings: Navigation Panel→4 options on screen size settings: full screen, 1024 x 768,800 x 600

and 640x480