

Pixit Pro Software

User's Manual





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Chapter 1 Software Installation

1.1 Environmental Requirements for Software Installation

Compatible system: Win7(64 bits), Win8(64 bits), Win8.1(64 bits), Win10(64 bits) Note: Partial function of this software relies on the installation of the following software: Microsoft Word 2003 or later version (for exporting report to WORD) Microsoft Excel 2003 or later version (for exporting report to EXCEL) Microsoft Outlook 2003 or later version (for exporting images to email) Internet Explorer7.0 or version above (for wireless connection to PC)

1.2. Installation

Step 1. Activate the computer and insert the installation disk into the DVD.

Step2. Double click the file"Pixit Pro for Windows Install" under the disk catalogue. When the following window pops up, please select the installation guide language and press the button

Select Set	up Language
18	Select the language to use during the installation:
	English •
	OK Cancel

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 use Pixit Pro Installation Guide" pops up, please click the button



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 "

and here a subscription of the		-		4
Select Destination Location				
Where should Pixit Pro.A4 be installed?				Ċ
Setup will install Pixit Pro.A4 into	the following folde	r.		
To continue, click Next. If you would like to	o select a different	folder, click	Browse.	
C:\Program Files (x86)\Pixit Pro.A4			Browse	
At least \$10.2 MP of free disk appear is a				
At least 819.2 MB of free disk space is re	equired.			

Step 5. When following window appears, select the shortcut you need, and then click the button

Setup - Pixit Pro.A4	-	-		>
Select Additional Tasks				
Which additional tasks should be performed?			6	
Select the additional tasks you would like Setup to perform then click Next.	n while installi	ng Pix	it Pro.A4	
Additional icons:				
Create a desktop icon				
Create a Quick Launch icon				
	-	_		
< Back	Next >		Can	cel

Step 6.Confirm information like "the target location" of software installation. After confirmation, please click the button

Setup - Pixit Pro.44	-	-	1
Ready to Install		l l	1
Setup is now ready to begin installing Pixit Pro.A4 on your of	computer.	Ć	Roll 1
Click Install to continue with the installation, or click Back if change any settings.	you want to revie	w or	
Destination location: C:\Program Files (x86)\Pixit Pro.A4		^	1
Pixit Pro.A4			
Additional tasks: Additional icons: Create a desktop icon			
<		~	
		C 0.04	ALC: N

on your desk. If you fail to

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

to complete the installation. After closing the window, check the icon find it, please find it from the path "Start" \rightarrow "All programs".



Note: This software supports connecting the camera to PC through wired or wireless way.

Wired connection: just connect the camera to USB port of PC. If it is a WiFi camera, please dial the hardware switch of WiFi camera to USB working state in advance.

Wireless connection: only valid for WiFi camera.

- 1. Please switch the hardware switch of WiFi camera to WiFi working state in advance.
- 2. Connect your computer to the WiFi camera, please confirm that your computer has a wireless network in advance. Since the default of our camera is 5G WiFi IEE 802.11ac protocol, please confirm in advance that your computer wireless network supports this protocol. If not, please refer to the hardware specification of the camera and switch the camera to 2.4G WiFi IEE 802.11b before connecting with the PC.
- 3. After starting the WiFi camera, search for WiFi name (WiFi camera xxxx) in the network connection. The default connection password is 12345678.

拨号和 VPN	^	-	l l	
宽带连接				
无线网络连接 2	^			
WiFiCamera_5G_500398	已连接,则			1 1
Xiaomi_3BFD	In.	=	-	
ChinaNet-VnNG	Ine			
TP-LINK_5B106A	Ine.			
xiaomi_2f01	Ine			
9988	Ite.			
FAST_5DDA	Ine.			
ChinaNet-tgqK	lie.	Ŧ		

4.Run the software

Select the "" buttor in the shortcut toolbar, and then select "WiFiCamera" from

drop down options in the upper right corner of the software. Wait a moment for the PC to connect to the WiFi camera.

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Chapter 2 Software Instructions

2.1 Software Operation Interface and Instruction



- Working mode . • Camera control
- Measuring tool •

2.2 Manual Panel

File Edit View Acquire Process Measure Report Window Setting

The menu Functions are as follows:



★ Depth-of-field fusion and image stitching are only available for specific models of products. If there is no display of these functions on the software, it means that the product does not have these two functions.

The depth-of-field fusion function is to snapshot at least two images and extract the clearest areas of each to fuse into a new image.





The image stitching function is to snapshot at least two images and find the overlapping areas to stitch the images into a new image.

Chapter 3 Function Introduction



3.1 Shortcut toolbar

◓▩◍◍▯◙▯៙▩੶₽®◪▯▯▯С╡◮५▻»◴┓◨◻◪▯▯▦ ◸▯◪炎

	Open Image	: Open the image from disk.	
B	Save Image	: Save the image to disk.	
X	Export to Execl	: Export the images to the Excel.	
	Export to Word	: Export the image to Word.	
Ŵ	Delete Image	: Deletes the current image from d	lisk.
\bigcirc	Preview	: Live-view from camera.	
(1)	Pause	: Pause live-view from camera.	

6	Take picture	:	Capture image to disk.
\odot	Time-lapse snapshot	:	Time-lapse snapshot to disk.
	Record	:	Record video to disk
A	Font Settings	:	Set font, size, effect.
	Line types	:	Sets the drawing line shape. 5 types for option.
-	Line width	:	Sets the pixel value of the width of the drawing line.
	Transparency	:	Sets the transparency of the drawn line.
•	Color	:	Sets the color of the drawn line.
	One screen	:	One screen mode.
	Two screens	:	Two screens mode.
\blacksquare	Four screens	:	Four screens mode.
\mathcal{V}	Special effects	:	Special effects tools.
F	Drawing tools	:	Drawing tools.
Ľ	Annotation tools	:	Annotation tools.
\diamond	Erase tools	:	Erase tools.
<u>(</u> +)	Zoom in	:	Increase magnification.
Ø	Zoom out	:	Decrease magnification.
	Actual size	:	Display the current image at its actual size.
\boxtimes	Adapt to screen size	:	Display the current image adapt to to screen size.
_ 7	Full screen	:	Display the current image at full screen.

\bigcirc	Counterclockwise rotation	:	Rotate the current image 90 degrees counterclockwise.
С	Clockwise rotation	:	Rotate the current image 90 degrees clockwise.
	Flip	:	Flip the current image.
	Mirror	:	Mirror the current image.
\leftarrow	Undo	:	Undo the last operation, valid only for editing.
\rightarrow	Redo	:	Redo the last action, valid only for editing.
	Select object	:	Select an object on the screen, only valid for editing.
¢	Drag	:	Drag video screen in preview area.
∎◆	Delete object	:	Delete the selected object.
Ŕ	Cut object	:	Cut the selected object.
Cop USB Cam	era 🛛	: s d s	This item displays devices currently in use. When the oftware searches for multiple video devices, multiple evice names can be displayed, and devices can be elected, as shown below.

▼
0002302

3.2 Working mode

 Microscope Types Biological Microscope Industrial Microscope Light Source LED Low-brightness Halogen Lamp High-brightness
Preview Resolution 2592×1944 Cabture Resolution 2592×1944 Cabture Format
jpg I▼ Microscope Types ● Biological Microscope

Microscope Type Options:

Please select your Microscope type for better image display.

Light Source
LED
 Low-brightness Halogen Lamp
 High-brightness Halogen Lamp

Light source options:

According to the actual situation, select the corresponding light source to get better image display effect. ★ The above functions are only available for specific models. If there is no display, it means the product does not have this function.

Preview Resolution 2592×1944 2592×1944 1920×1080 1024×768 640×480 1280×960 1280×720	You can select any of the preview resolutions in this drop- down box to preview as you wish. Note:the higher the preview resolution, the lower the frame rate. When you preview at 1280×720 or 1920×1080, save only 1280×720 and 1920×1080.
Capture Resolution 2592×1944 ▼ 2592×1944 1024×768 640×480 1280×960	This option is used to select the resolution of the image taken. The preview resolution is in proportion to the saved resolution. When preview resolution ratio is 4:3, save resolution only supports 4:3 resolution selection. The default maximum saving resolution is 2592×1944; When preview resolution is 16:9, save resolution only supports 16:9 resolution scanning, default 16:9 save resolution is 1280×720.
Capture Format jpg jpg .bmp .png .tiff .pdf	There are four save formats: jpg, bmp, png, tiff and pdf. The default format is JPG. Depending on your requirements, you can choose any of these save formats.
🔒 Locked 📄 Unlocked	When it is locked, the preview resolution is consistent with the photo resolution, and the preview screen displays the same as the photo taken. When in the unlocked state, the preview resolution is inconsistent with the photo resolution, and the preview screen may be inconsistent with the photo taken.

3.3 Camera control

According to your needs, you can adjust the corresponding parameters to achieve the desired preview and image effect. As shown in the figure:



	Brightness adjustment	Manually drag to change the overall brightness of the screen.Often used in conjunction with contrast adjustment to achieve the best results.
✓ Exposure	Automatic exposure	When checked, the device will automatically expose according to the environment used. When checked, this option is effective. When not checked, it can be adjusted by "exposure".
Exposure	Manual exposure	Drag to adjust the exposure parameters of the device according to the use of the environment. This parameter is adjusted on the basis of automatic exposure. This parameter is only valid if the "automatic exposure" option is not checked.
Area Exposure	Regional exposure	Select an area as the reference for exposure.

Single Exposure	Single exposure	Perform once exposure.
White Balance R B B 	Automatic white balance	When checked, the device will perform automatic white balance according to the environment used;When not checked, it can be adjusted by "manual white balance" below.Note: abnormal color may occur when taking rich color images.A manual calibration of the automatic white balance is required.To do this, place a white paper on field of view, remove the "automatic white balance" box and check it again.Let the device perform an automatic white balance.When you're done, unchecked the "auto white balance" box.
K - - 122 B - - 112	Manual white balance	Drag to adjust the white balance parameter of the device according to the usage environment. This parameter is adjusted up and down on the basis of automatic white balance. This parameter is only valid if the "automatic white balance" option is not checked.
Area White Balance WB	Areal white balance	Select an area as the reference for the white balance.
Single White Balance	Single white balance	Perform a white balance.
Contrast 	Contrast adjustment	Manually drag the screen to change the contrast between light and dark, often used in conjunction with brightness adjustment for best results.
	Saturation adjustment	Manually drag to change the color saturation of the image.
60 Sharpness 0 + 50	Sharpness adjustment	Manually drag to change the sharpness of the image.
Power Line 50Hz	Power line reguration	Note: the power frequency currently supports 50/60hz, please choose according to the national power frequency.
↑	Restore default	Restore to the factory settings.
Gev Save Settings	Save parameter	When checked, save the current settings when the device is power-off or the software is turned off.

3.4 Measuring tool

Calibration function and measurement function can accurately measure in editing area. Note: calibration is the first step for accurate measurement.



H-H	Linear measurement	\mathcal{I}	Arc measurement
//	Parallel line measurement	A	Four-angle measurement
"//	Double parallel line measurement	٢.	Angle measurement
1/	Stitche Measurement	0	Oval measurement
	Rectangular measurement	\bigcirc	Circular measurement
\bigcirc	Polygon measurement	\bigcirc	Circle measurement (circle center, radius to determine the circle)
\bigcirc	Circle measurement (three points to determine the circle)	٢	Circular measurement (concentric radius center distance)
₽₽	Circle measurement (three-point circle center distance)	\$\$	Circular measurement (concentric radius center distance)
لىبينا	Scale bar	יייייי	Calibration: Set the calibration.Click this function to bring up the calibration Settings window.
m	unit	Calibration Table	– X Length Pixel Unit Note Name

Edit Delete

mm |¥ imal Places 3 |¥

Add

Close

Apply

3.5 Drawing Tools

According to the requirements, draw in the editing screen.

Drawing Tools 🗙 🗙				
ø	ø	~		
~	5	L		
٦,	۴٦,	2		
2,	\diamond			
		(8)		
\triangle	$\[\]$	0		
0				

	Pencil	\diamond	Rhombus
A	Pen		Rectangle
	Straight Line		Rounded Rectangle
\mathbf{i}	Straight Line with Single Head Arrow		Parallelogram
5	Straight Line with Double-headed	8	Octagonal
l	Broken Line	\triangle	Isosceles Triangle
Ъ,	Single Arrow Polyline	$\[\]$	Right Triangle
↓	Double Arrow Polyline	\bigcirc	Ellipse
2	Curve		Cylinder
2	Arrow Curve		Cube

3.6 Drawing Tools



1

Insert Text

Insert Image



Send Screenshot to clipboard



Hide software windows away during screenshot.



Take a screenshot of the rectangular area.

Take a screenshot of the entire window area.





Print screen



3.7 Eraser

Erase the "object" in preview screen



◈	Erase	: Erase the objects on screen.
∎◆	Erase Objects	: Erase the entire selected object.
	Rectangular erase	: Erase the selected rectangle.
□◆	Erase All	: Erase all objects on screen.

3.8 Image Filters

★Image Filters only available for static images
 Operate the image in the editing area according to the requirements.



Monochrome



Image Fili	×		
		har	

3.9 Calibration and Measurement

Step 1: Acquire benchmark image.

Place a scale ruler in the filed of view. Please use the same conditions (i.e. same objective lens, same camera resolution) as the target observation objects. If a magnification reduction lens is used to measure the target observation objects, then a magnification reduction is also needed to measure the scale bar. This is what we called acquire benchmark image.



Step 2: Click "Calibration" below in the left measuremtn tools toolbar, calibration table will shown as figure.

lame	Length	Pixel	Unit	Note	Name
efault	100	100	mm		Name
					Actual Length
					Pixel Length
					Unit
					Decimal Places
					3 ▼
					Additional Remark

Step 3: Setting scale ruler .

Draw a straight line on the scale ruler of benchmark image, pixel value will be automatically updated at "pixel length" on calibration table. Shown as below figure :



When drawing the straight line, the longer scale length, the more accurate results. For example, 10 scale lengths accuracy will be better than 1 scale length.

Step 4: Input the actual length and unit of the ruler in the calibration table. As shown in the figure below:

Name		
	10X	
Actual Lengt	th	
10		
Pixel Length		
166	4	
Unit		
μm	v	
Decimal Plac	ces	
3	T	
Additional Re	emark	
Add	Edit	Delete

Step 5: click "Add" to save to the calibration table.

lame	Length	Porel	Unit	Note	News
0X	10	1664	μm		10X
		1			Actual Length 10 Pixel Length 1664 Unit
					Decimal Places
3					> +

th Pixel	Unit	Note		
1664			Name	
	μm		10X	
			Actual Length	
			Pixel Length	
			Unit	
	-		µm 🔍	
			3 1	
			Additional Remark	
			> 1 2	3
0.	se		Add Edit	Delete
		Close	Occe	Actual Length 10 10 10 10 10 10 10 10 10 10

- 1) "Add": Add the calibration information to the list on the left
- 2) "Edit": Revise or edit selected calibration item on the left
- 3) "Delete": Delete selected calibration item on the left
- 4) "Apply": Activate selected calibration item as benchmark for current image

Step 6: After activating selected calibration item , put the object into the field of view, and click in the left bar.Select the corresponding measurement tool, and the measurement results will be displayed in the right display area. As shown in the figure below:

Step 7: Export the measurement results.

Click I in the display bar on the right to export the data to Word or Excel.Enter the file name and path, and click "save".





1	A	В	С			
1	Serial No.	Measure item	Measured Value			
2	1	Polygon Measurement	Perimeter=1478.643 mm Area=118422.500 mm ²			
3	2	Straight Line Distance Measurement	Length=555.306 nm	Serial	Measure item	Measured Value
4	3	Parallel Lines Distance Measurement	Length=284.580 mm	No.		
5	-			1	Polygon Measurement	Perimeter=1478.643 mm
6						Area=118422.500 mm ²
7		Part Part	20 10	2	Straight Line Distance Measurement	Length=555.306 mm
9		a second second	(And)	3	Parallel Lines Distance Measurement	Length=284.580 mm
11 12 13 14 15 16 17 18 19 20 21						

3.10 Thumbnail display area

General status



Right click the mouse on the thumbnail



- **Open:** Open the image in the system default mode
- Open Directory: Open the directory where the selected image is located
- Copy: Copy the currently selected image
- **Paste:** Paste a copied image (note: only paste in thumbnails)
- **Delete:** Delete the selected image and delete the source file
- **Rename:** Rename the selected image
- Send to Email: Add the selected image as an attachment to OUTLOOK
- Refresh: Refresh the thumbnail area of the current image



Click the bottom button to switch to display the measurement data.

Picture display type: All , Photo, PDF and Video are options.



	Thumbnail	: Display pictures and files under the specified path.
	Measurement data	: Display measurement data.
	Export to Word	: Export the currently displayed measurements to Word.
XII	Export to EXCEL	: Export the currently displayed measurements to Excel.

Specifications are subject to change without any obligation on the part of the manufacturer.



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