

# VisualCam

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## USER MANUAL

Windows Edition V1.3

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## Trademarks

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- Windows® is a registered trademark of Microsoft Corporation in the United States and other countries. All other products mentioned in this document are trademarks or registered trademarks of their respective owners.

## Disclaimer

- The screenshots in this user's manual were made with Windows 10. If you are using other Windows system, your screen will look somewhat different but still function the same.
- Specifications of this software and contents of this user manual are subject to change without notice. Any modification, error correction, or feature updates made in the actual software may have not been timely updated in this user manual. User may refer to the actual software itself for more accurate detail. Any misprints, translation errors, or inconsistencies with existing software, will be updated as soon as possible.

# Introduction

The VisualCam is a multi-functional education visualizer software specially designed for visualizers, it provides a full-screen window and various annotation functions that allows you directly add annotations on the live window by using the free-hand drawing tools, enable the mask or spotlight modes, zoom, and rotate the image, freeze the live video, change the resolution, and adjust brightness. With this powerful visualizer software, you can easily present or pre-record any teaching materials in various ways, like taking snapshots, recording videos by enabling picture-in-picture, scanning documents, creating stop motion videos, comparing images by split-screen, or using the interactive whiteboard function.

**WARNING:**

This visualizer software ONLY works with specific document camera models. If you are using 3rd party products this software may NOT work.



# System Requirements

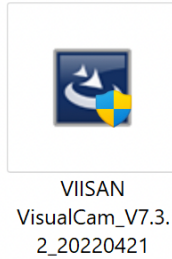
To ensure the performance of your document camera, the following hardware system requirement is needed.

CPU	Intel® Core™ i5 or higher
RAM	8GB RAM minimum, 16GB RAM recommended.
GPU	Intel® Iris Plus Graphics series or higher
Hard Disk	The installation and operation of the program requires 1G disk space. You can scan more images if the disk space is bigger. The recommended storage is 20G.
Operating System	Windows 10 / Windows 11
USB	USB port

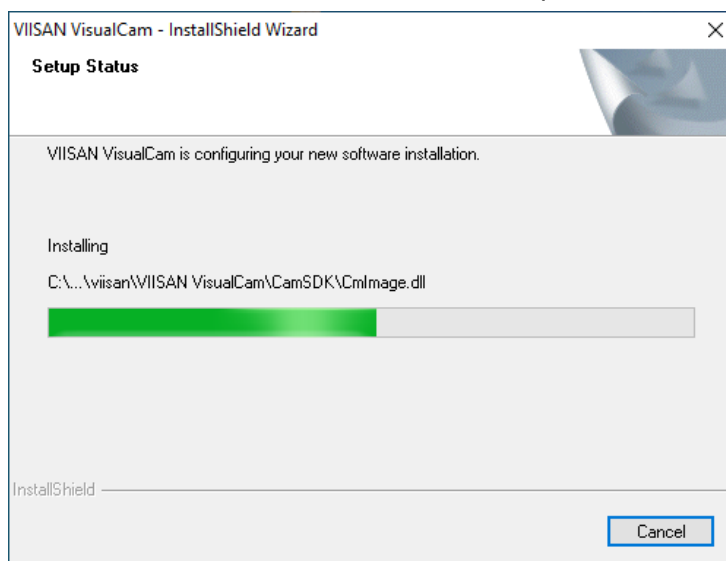
**NOTE:** The system requirements and compatibility can change over time, depending on the operating system and updates from Windows.

# Installing the software

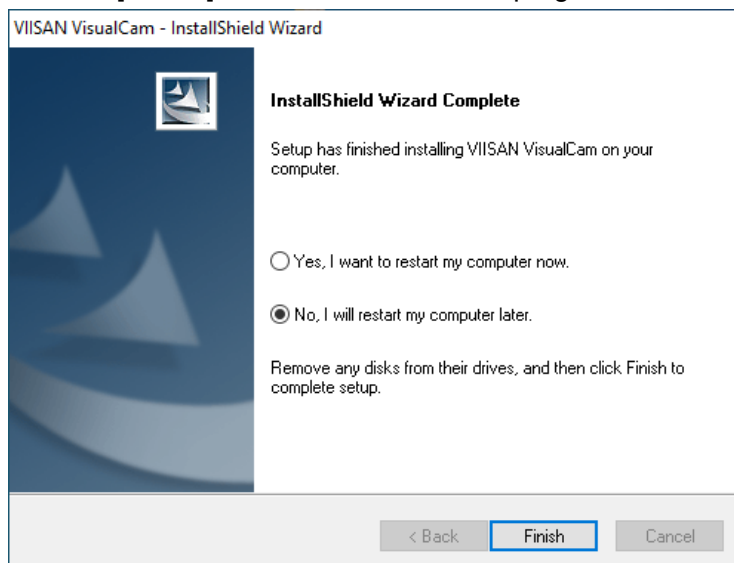
1. Double click the **VIISAN VisualCam.exe** file to install the software.



2. Follow the onscreen instructions to complete the installation.

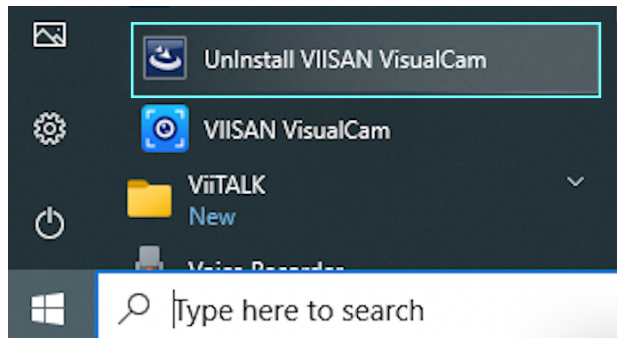


3. Click [**Finish**] to finish the installation program.



# Uninstalling VIISAN VisualCam

To remove VIISAN VisualCam from your Windows. Click the Windows Start Menu > All Programs > VIISAN VisualCam folder > UnInstall VIISAN VisualCam

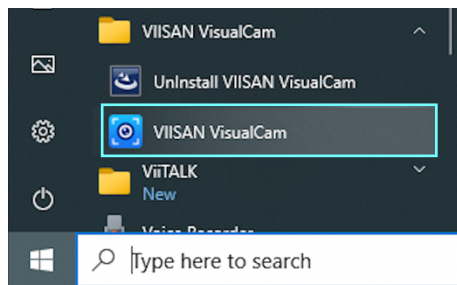


# Getting Started

To start the program, please double click on the VIISAN VisualCam icon on the desktop or start VIISAN VisualCam from the Windows Programs list.



Click the Windows Start Menu > All Programs > VIISAN VisualCam folder > **VIISAN VisualCam**.



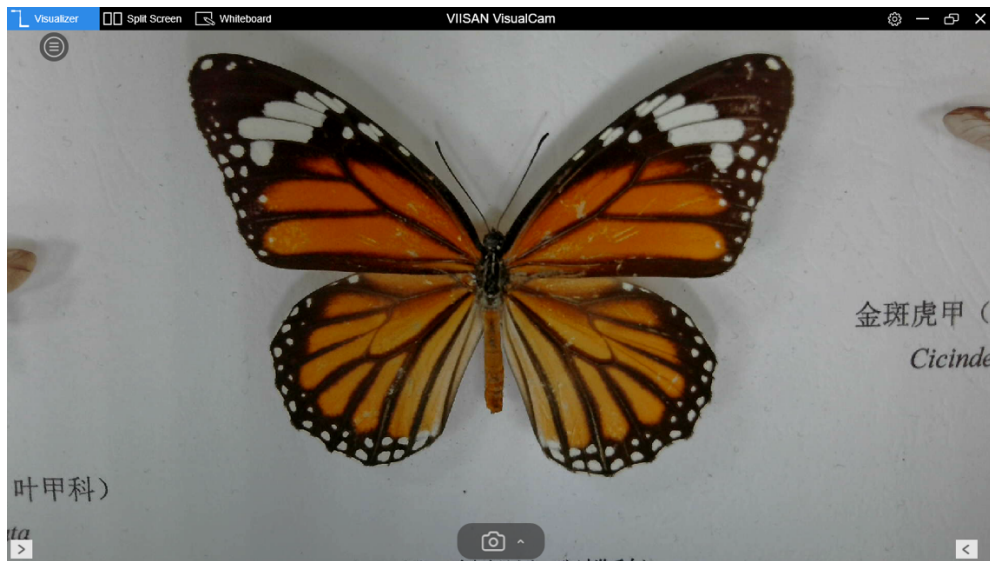
When VIISAN VisualCam app is launched the first time, you should see a registration menu appears and you can click the URL <https://www.viisan.com/en/productReg.html> to register your product or click 'OK' to enter the app.



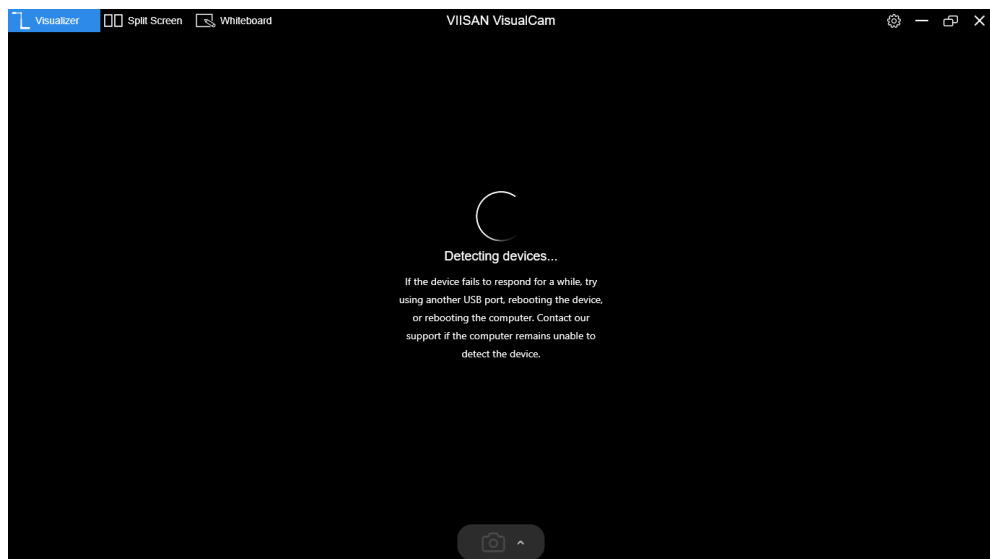
**NOTE:** If you don't want to see the registration window every time you launch the app, you can click below checkbox.

☒ I don't want to register now.

When the document camera is connected to the desktop/laptop, it automatically goes to Visualizer live video mode.

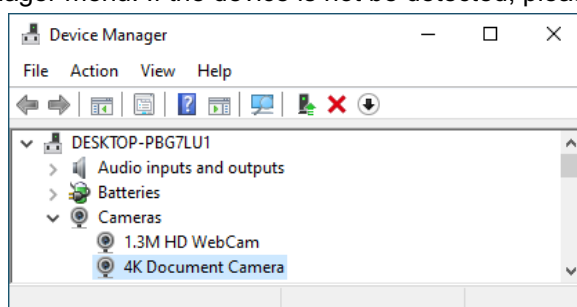


**NOTE:** If you don't see the real-time preview video from the camera device and a **[Detecting devices...]** message is displayed in the middle of the main window as below, please double check the following items sequentially.



#### - Check the USB connation

Ensure the Windows has recognized the device under the Cameras in the Windows Device Manager menu. If the device is not be detected, please try to contact with other USB port.



**- For Windows 10 computer**

Go to "Settings Privacy Camera" to check whether the permission is allowed

**Allow apps to access your camera**

If you allow access, you can choose which apps can access your camera by using the settings on this page. Denying access blocks apps from accessing your camera. It does not block Windows Hello.

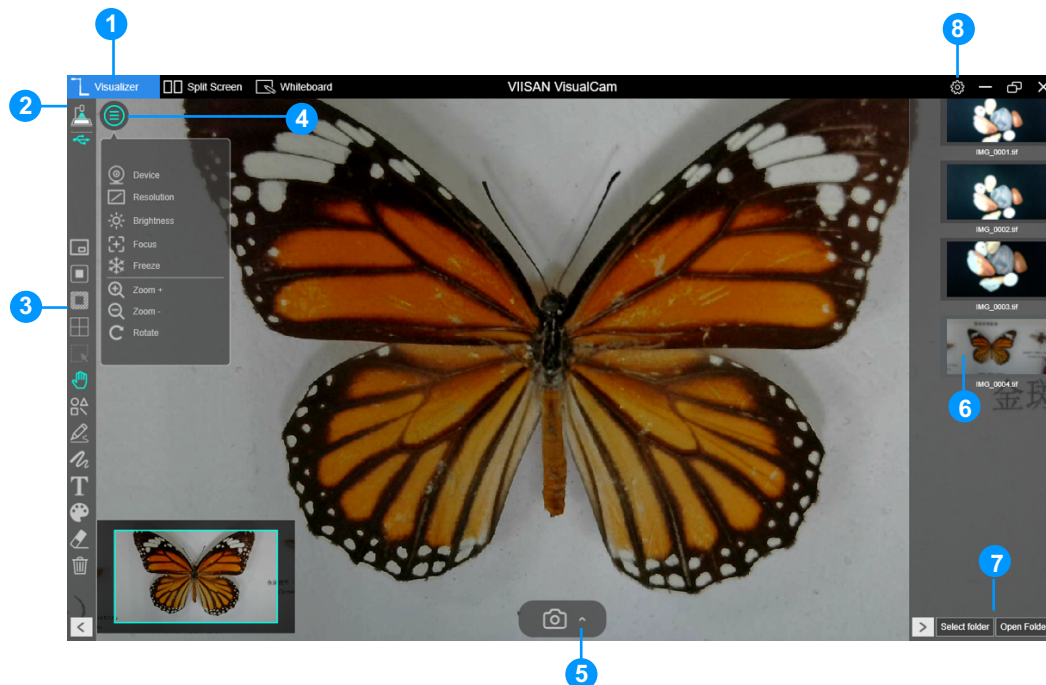


**- Disable Anti-Virus software**

If you have installed anti-virus software, please manually add the VIISAN VisualCam client to the whitelist of the anti-virus software.

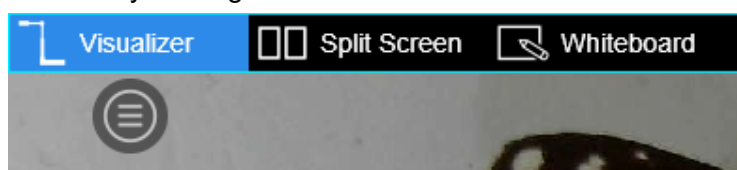
# Operation Interface Description




The following is the description of the VisualCam software operation interface.



## 1. Function Tabs

VIISAN VisualCam software integrates three major functions. You can switch each function by clicking on the tab.

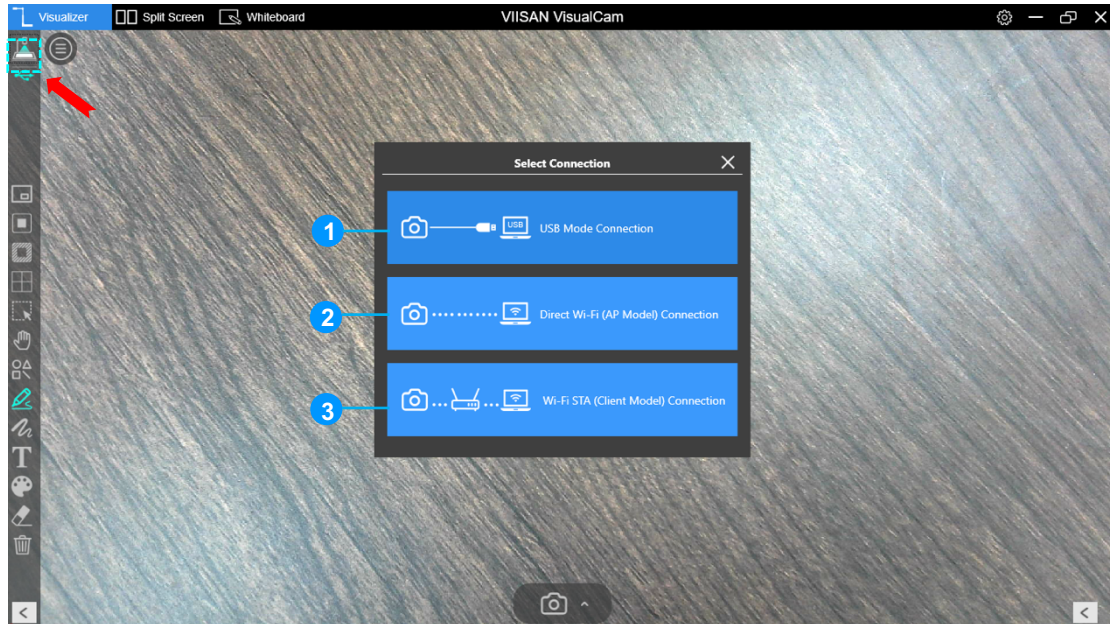



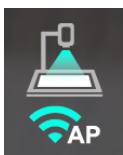

Mode	Descriptions
 Visualizer	Showing the live video perceived by the document camera.
 Split Screen	With the Split-Screen, you can connect two document cameras on your computer and present them split-screen.
 Whiteboard	Allows you to draw and annotate anything on an interactive whiteboard.



## 2. Select Connection


In the upper left corner, you can click the  icon to choose the device connection method.























Item	Icon Status	Descriptions
1		<b>USB mode connection. (Default)</b> This mode allows you to connect the document camera by USB wired connection.
2		<b>Wi-Fi p2p (AP Mode) connection.</b> This mode allows you to connect the document camera directly without an internet connection., <i>NOTE: This connection only available for the Wi-Fi model.</i>
3		<b>Wi-Fi STA (Client Mode) connection.</b> This mode allows you to connect the document camera through a router. <i>NOTE: This connection only available for the Wi-Fi model.</i>






## 3. Left Toolbar

On the left side toolbar, there are many useful control tools available.


Icons	Descriptions
	<b>Picture-in-Picture</b> Enable picture-in-picture mode

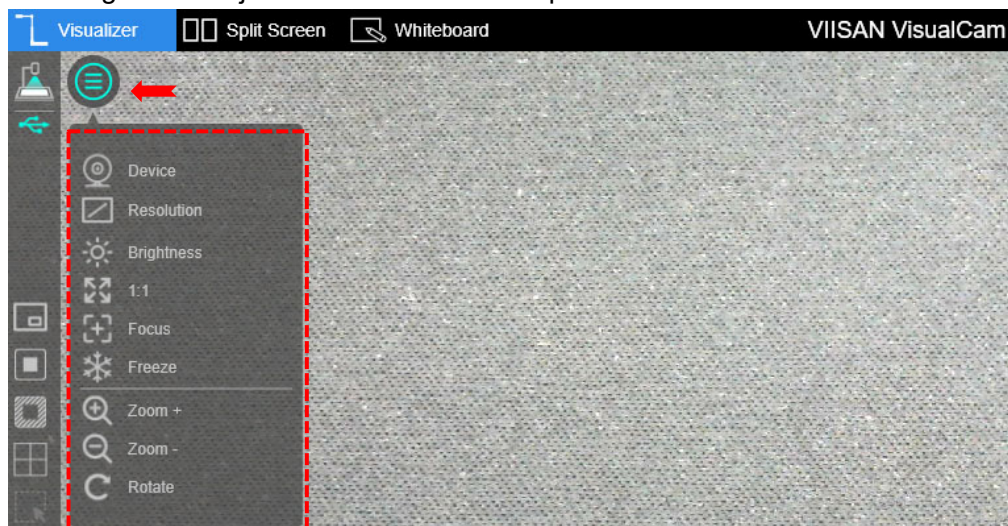







	<b>Mask</b> Enable the mask mode in solid or translucent style
	<b>Spotlight</b> Show spotlight by using the rectangle or ellipse style
	<b>Gridlines</b> Show gridlines on screen
	<b>Select</b> Select the annotation or object on the screen
	<b>Move</b> Move the screen
	<b>Shape Tool</b> Add the shapes
	<b>Rectangle Tool</b> Draw a rectangle
	Draw a rectangle in solid style
	<b>Ellipse Tool</b> Draw an ellipse
	Draw an ellipse in solid style
	<b>Triangle Tool</b> Draw a triangle
	Draw a triangle in solid style
	<b>Line</b> Draw a line
	<b>Dotted line</b> Draw a dotted line
	<b>Single arrow</b> Draw a single arrow
	<b>Double arrow</b> Draw a double arrow
	<b>Smooth Pen</b> Draw and write by using the Smooth Pen
	<b>Highlighter Pen</b> Draw and write by using the Highlighter Pen
	<b>Disappearing Pen</b> Draw and write by using the Disappearing Pen <i>NOTE: It allows to set the disappearing time (3, 5, 10, 20 seconds)</i>
	<b>Line Option</b> Set the line thickness of annotation.







	<b>Color Option</b> Choose the color of annotation, shape, and text tools.
	<b>Text Tool</b> Add the texts
	<b>Eraser</b> Erase annotation on the screen
	<b>Clear All</b> Clear all annotations on the screen
	<b>Show/Hide</b> Show and hide toolbar

## 4. Image Adjustment Menu


Click on the  icon to expand the image adjustment menu, you can use the following tool to adjust the live video on the preview window.

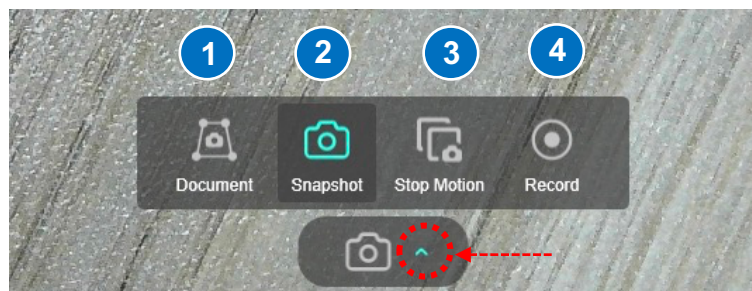


Icons	Descriptions
	Select the device and switch power frequency (50/60Hz)
	Set the resolution
	Adjust brightness
	Adjust backlight NOTE: This Function only available on specific model
	Turn on/off the lamp in 3-level (Leve1, Leve 2, Level 3) NOTE: This Function only available on specific model

	Show 1:1 image / Fit Screen
	Auto Focus Adjust the best focal length.
	Freeze video
	Zoom in image
	Zoom out image
	Rotate image by 0°, 90°, 180°, 270°, Flip or Mirror

## 5. Capture Button Settings

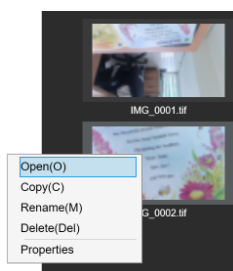
Click on the up-arrow  icon at the middle lower button to switch the capture mode.



Mode	Descriptions
1	Scan & Cropping Documents
2	Take Snapshot (Default selection)
3	Create Stop Motion Video
4	Record Video

## 6. Thumbnail List

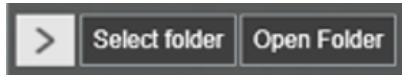
Right click on a thumbnail on the right-side output listing of the main window, you will see the following options.



Right Click Options	Explanations
Open	Open file
Copy	Duplicate file
Rename	Rename of file
Delete	Delete a file
Properties	Show file information

## 7. File Save Path Settings


On the bottom right of the main window, there are options for setting the directory for saving files:



Button	Explanations
Select Folder	Select file save destination
Open Folder	Open the file location

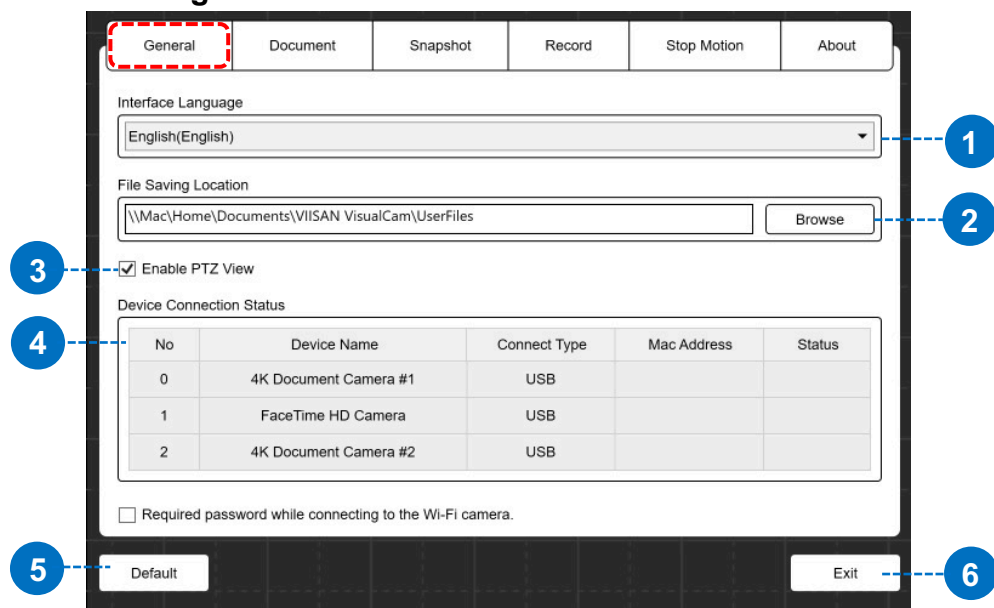
## 8. Settings menu

### General Settings:

Click the  icon on the upper right corner to entry to the settings page.



### General Settings:



1	Switch interface language
2	Set the file saving location
3	Enable PTZ view <b>NOTE:</b> The PTZ navigation view only appears when zooming in on the video.
4	Display the current device connection status
5	Restore to default value
6	Exit the settings page

## Document Settings:

The screenshot shows the 'Document' tab selected in the settings window. The 'Document' tab is highlighted with a red dashed box. Numbered callouts point to the following elements:

- 1**: Checkmark for 'Enable Multiple Cropping'.
- 2**: 'Color Mode' dropdown menu showing 'Color (Enhanced)'.
- 3**: 'Output' dropdown menu showing 'PDF(Image)'.
- 4**: 'Quality' dropdown menu showing 'Standard Compression'.
- 5**: 'OCR Language' dropdown menu showing 'English'.
- 5**: 'Default' button at the bottom left.
- 6**: 'Exit' button at the bottom right.

1	Enable or disable the ability to copy multiple documents.
2	Choose the color mode for scanning documents: Color, Color (Enhanced), Grayscale, B/W, B/W (Document).
3	Choose the output format for the scanned document: JPEG, PDF (Image), PDF (Searchable), PDF (Text).
4	Choose the language for Optical Character Recognition (OCR) in scanned documents.  Note: Please note that the OCR feature is only available when the output format is set to PDF (Searchable) or PDF (Text).
5	Restore to default value
6	Exit the settings page

## Snapshot Settings:

The screenshot shows the 'Snapshot' tab selected in the settings window. The 'Snapshot' tab is highlighted with a red dashed box. Numbered callouts point to the following elements:

- 1**: 'Output' dropdown menu showing 'JPG'.
- 2**: Radio buttons for 'Capture without annotations' (selected) and 'Capture with annotations'.
- 3**: 'File Named' dropdown menu showing 'By Serial number'.
- 4**: 'Prefix' text field showing 'IMG\_'.

1	Set the image file output format (JPG, BMP, PNG, TIF)
---	---

2	Select take snapshot with or without showing the annotation
3	Set the file name for format by serial number or by date & time
4	Set the prefix of file name

## Record Settings:

The screenshot shows the 'Record' tab of a settings window. The 'Record' tab is highlighted with a red dashed border. Numbered callouts point to the following elements:

- 1: Output format dropdown menu (set to MP4)
- 2: Quality dropdown menu (set to Standard Compression)
- 3: Enable Microphone checkbox (checked)
- 4: Microphone selection dropdown menu (set to Auto)
- 5: File Named dropdown menu (set to By Serial number)
- 6: Prefix text input field (set to VIDEO\_)

Buttons for 'Default' and 'Exit' are at the bottom.

1	Set the video file output format (AVI, MP4, FLV)
2	<b>Set the video compression quality</b> <ul style="list-style-type: none"> <li>Standard Compression</li> <li>Low Compression Rate (High image quality, bigger size)</li> <li>High Compression Rate (Low image quality, smaller size)</li> </ul>
3	Enable microphone
4	Select microphone
5	Set the file name for format by serial number or by date & time
6	Set the prefix of file name

## Stop Motion Settings:

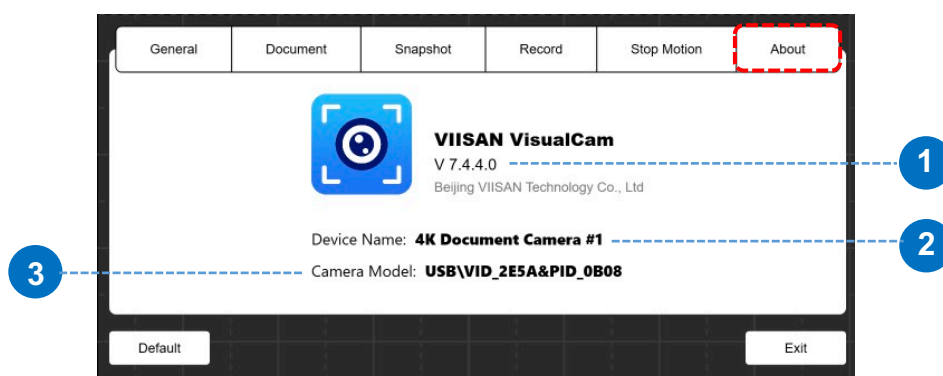
The screenshot shows the 'Stop Motion' tab of a settings window. The 'Stop Motion' tab is highlighted with a red dashed border. Numbered callouts point to the following elements:

- 1: Output format dropdown menu (set to MP4)
- 2: Quality dropdown menu (set to Standard Compression)
- 3: File Named dropdown menu (set to By Serial number)
- 4: Prefix text input field (set to VIDEO\_)

Buttons for 'Default' and 'Exit' are at the bottom.

1	Set the video file output format (AVI, MP4, FLV)
2	<b>Set the video compression quality.</b> <ul style="list-style-type: none"> <li>Standard Compression</li> <li>Low Compression Rate (High image quality, bigger size)</li> <li>High Compression Rate (Low image quality, smaller size)</li> </ul>
5	Set the file name for format by serial number or by date & time
6	Set the prefix of file name

### About page:

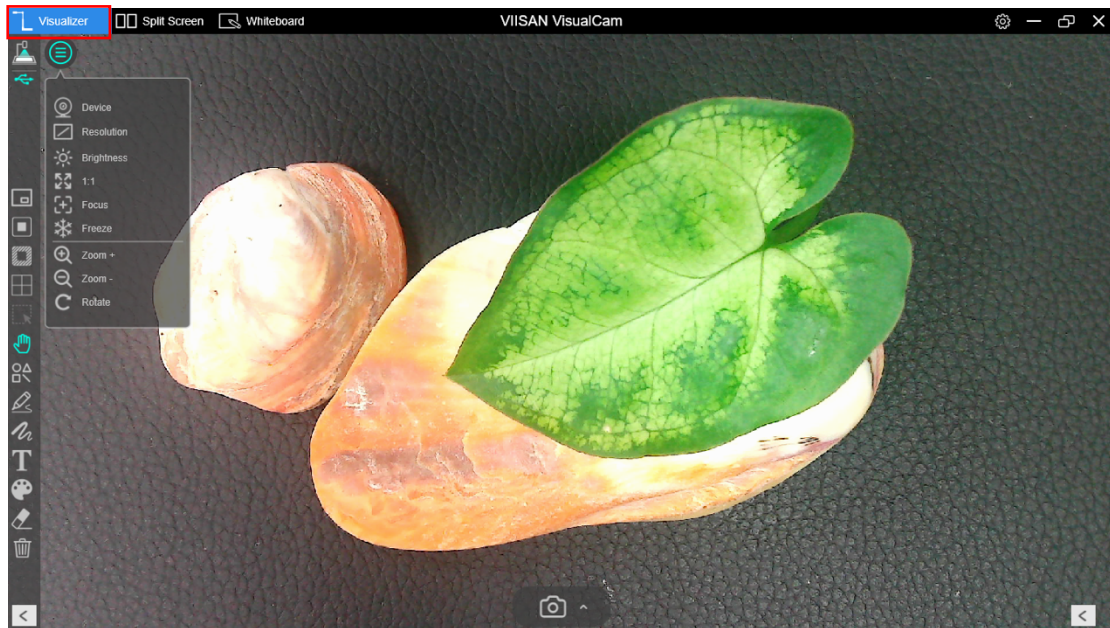


1	Display software version
2	Display current connected device name
3	Display the connected device hardware ID




## Visualizer Mode Description

The visualizer mode allows presenting the live view by the document camera. There are many useful functions available listed on the left toolbar. All of them can enhance your presentation!

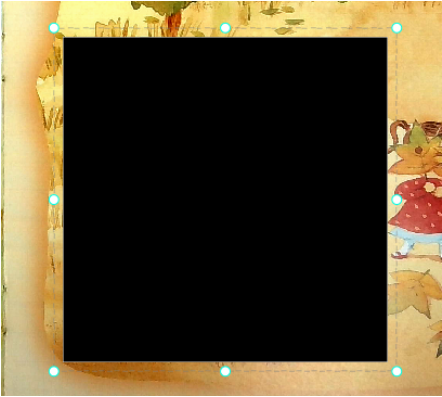


























## Left-side toolbar function


Icons	Descriptions
	<p><b>Picture-in-Picture</b></p> <p>Click on the PIP icon at the left-side toolbar to enable picture-in-picture mode, you can move the sub-screen window location or resize of the frame.</p>  <p>NOTE: This function only available on a built-in webcam laptop/desktop.</p>
	<p><b>Mask</b></p> <p>Click on Mask to enable the mask mode in black (Opaque) or translucent style, you can drag the cursor to enlarge or shrink the Mask area to the desired size.</p>

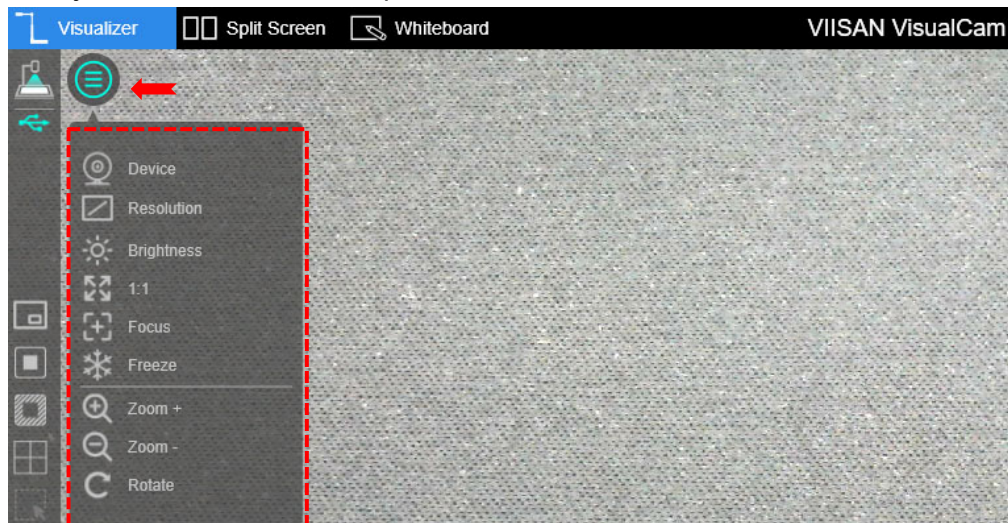



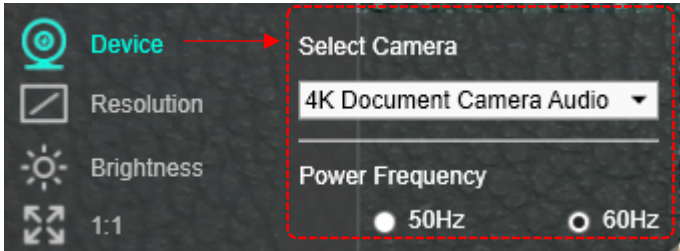






	  <div>  Black (Opaque) style.  Translucent style </div>
	<p><b>Spotlight</b> Enable spotlight in rectangle or ellipse style, you can adjust the size and change the spotlight in black (Opaque) or translucent style.</p> <div>   <div>  Ellipse style  Rectangle style </div> </div>
	<p><b>Gridlines</b> Show gridlines on screen</p>
	<p><b>Select</b> Select the annotation or object on the screen</p>
	<p><b>Move</b> Move the screen</p>
	<p><b>Shape Tool</b> Add the shapes</p> 
	<p><b>Smooth Pen</b> Draw and write by using the Smooth Pen</p>
	<p><b>Highlighter Pen</b> Draw and write by using the Highlighter Pen</p>







	<b>Disappearing Pen</b> Draw and write by using the Disappearing Pen <i>NOTE: It allows to set the disappearing time (3, 5, 10, 20 seconds)</i>
	<b>Line Option</b> Set the line thickness of annotation.
	<b>Color Option</b> Choose the color of annotation, shape, and text tools.
	<b>Text Tool</b> Add the texts
	<b>Eraser</b> Erase annotation on the screen
	<b>Clear All</b> Clear all annotations on the screen
	<b>Show/Hide</b> Show and hide toolbar

## Image Adjustment Menu


Click on the  icon to expand the image adjustment menu, you can use the following tool to adjust the live video on the preview window.

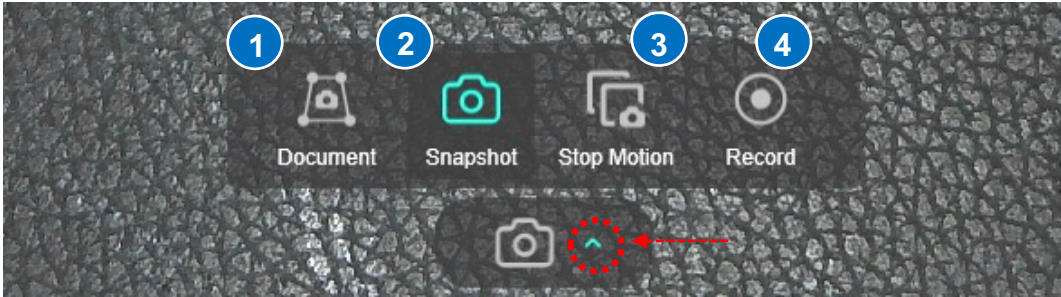




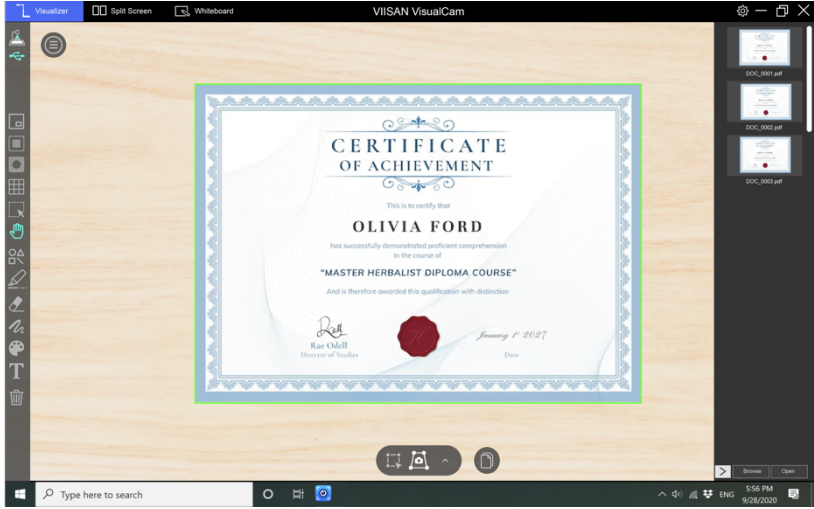
Icons	Descriptions
	<b>Device</b> Select the device and switch power frequency (50/60Hz) <div data-bbox="384 1146 1066 1395">  </div>
	<b>Resolution</b> Set the resolution
	<b>Brightness</b> Adjust the brightness
	<b>Backlight</b> Adjust the backlight. NOTE: This Function only available on specific model
	<b>Lamp</b> Turn on/off the lamp in 3-level (Leve1, Leve 2, Level 3) NOTE: This Function only available on specific model
	Display 1:1 image / Fit Screen
	<b>Auto Focus</b> Click once to autofocus

	<b>Freeze video</b>  Click to freeze the video /  Click again to unfreeze the video
	Zoom in image
	Zoom out image
	Rotate image by 0°, 90°, 180°, 270°, Flip or Mirror

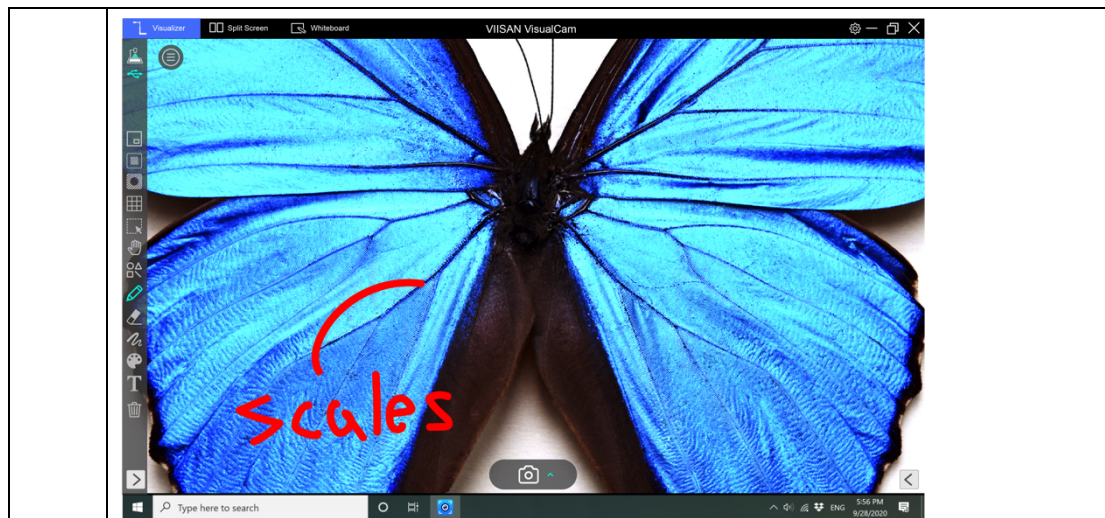
# Select Capture Mode

Click on the up-arrow  icon at the middle lower button to switch the capture mode.



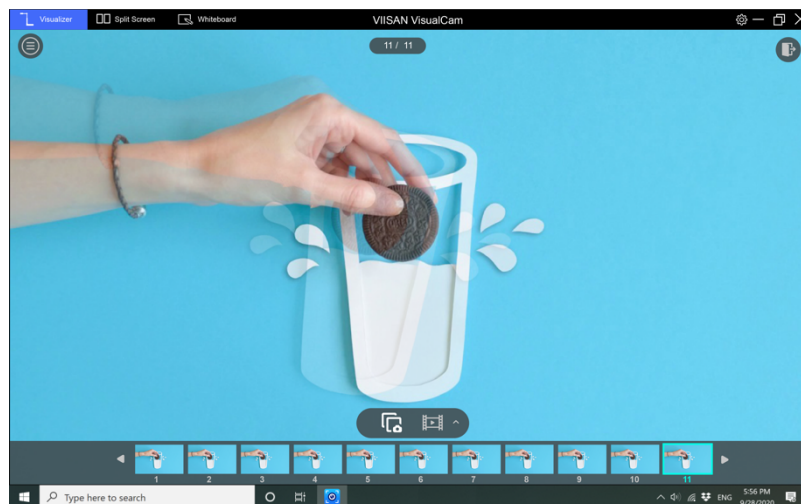
Mode	Descriptions
1	<p>The Document mode offers auto-detection and cropping features for scanning single or multiple documents. You can also manually select the desired capture area by clicking the  icon. Additionally, enable multiple-page scanning with the  icon. This document scan mode includes a multi-language OCR function, allowing you to extract text from documents in various languages.</p> 
2	<p>The snapshot mode allows you to take photo with annotation or w/o annotation, you can save the scanned image in JPG, BMP, PNG, or TIF format.</p>





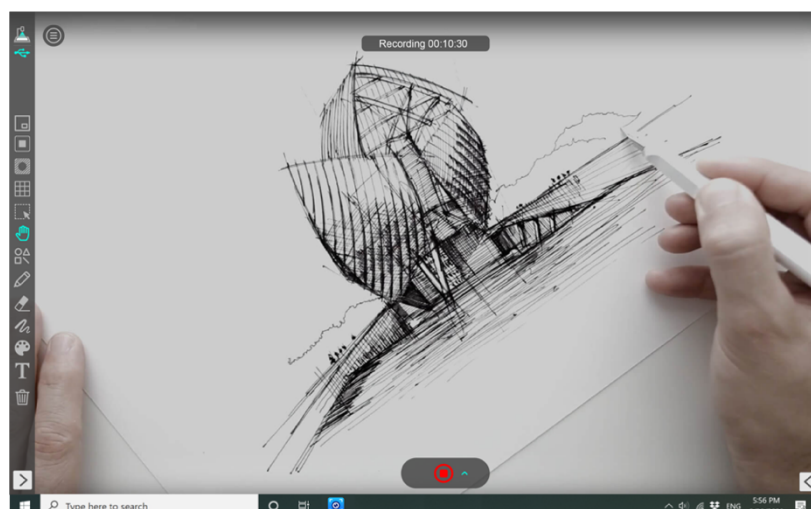
3

The stop-motion video feature provides a live preview with a semi-transparent ghost image overlay that allows you to see the next shot and make even the tiniest of adjustments before capturing the frame.



4

The Video mode provides record with high-quality video in MP4, AVI, or FLV format.



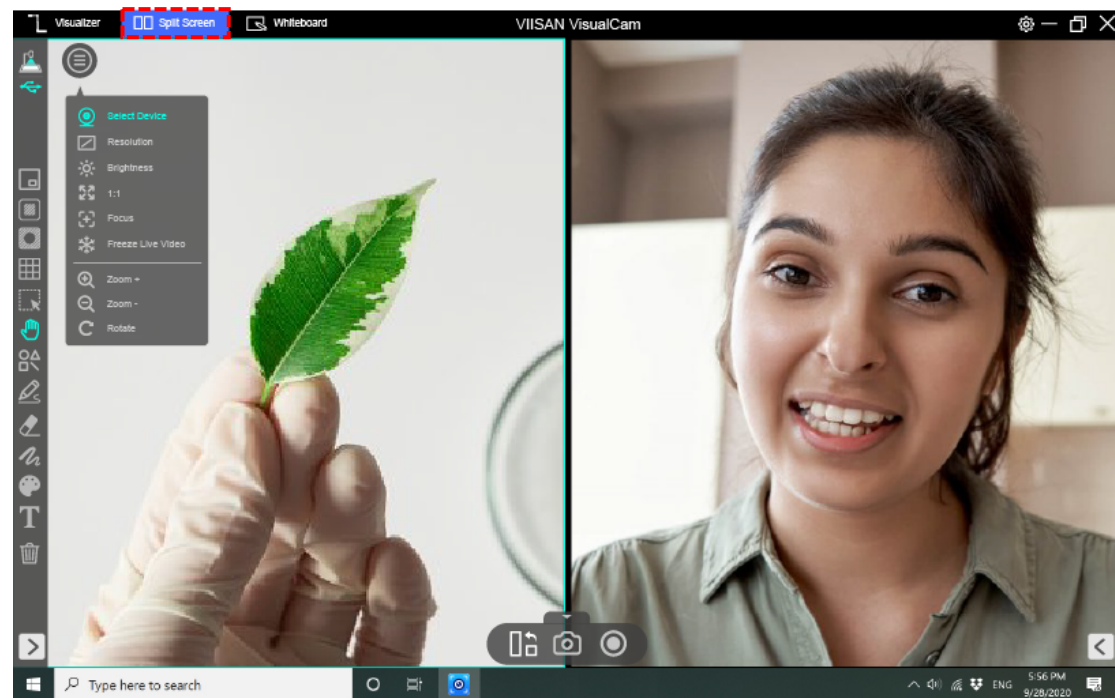
Click once to start recoding



Click again to stop recoding

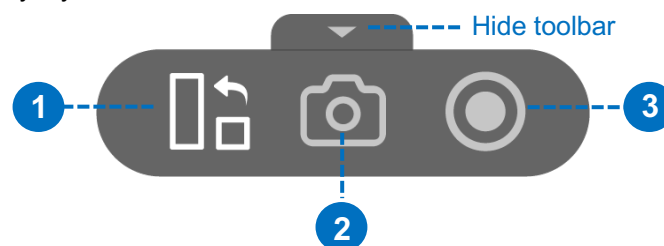
# Split-Screen Mode Description




With the Split-Screen function, you can connect two document cameras to your computer and present them by splitting two live screens and you can even compare still image with live video.




## The action buttons of split-screen mode

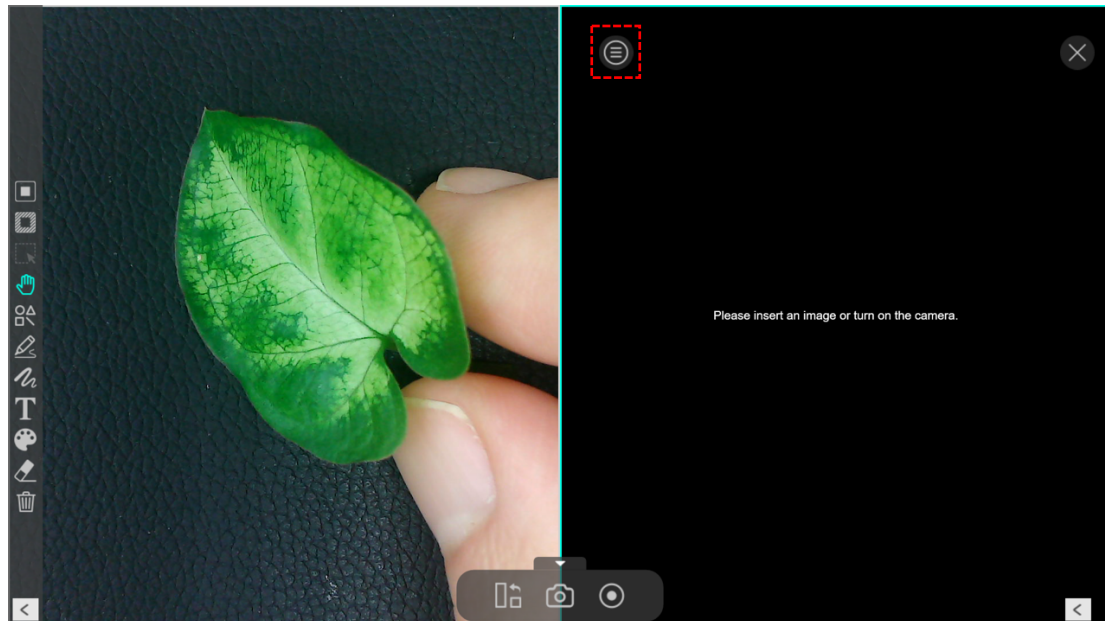
The split-screen provides three action buttons for taking screenshots, recording screens, and changing the display layout.



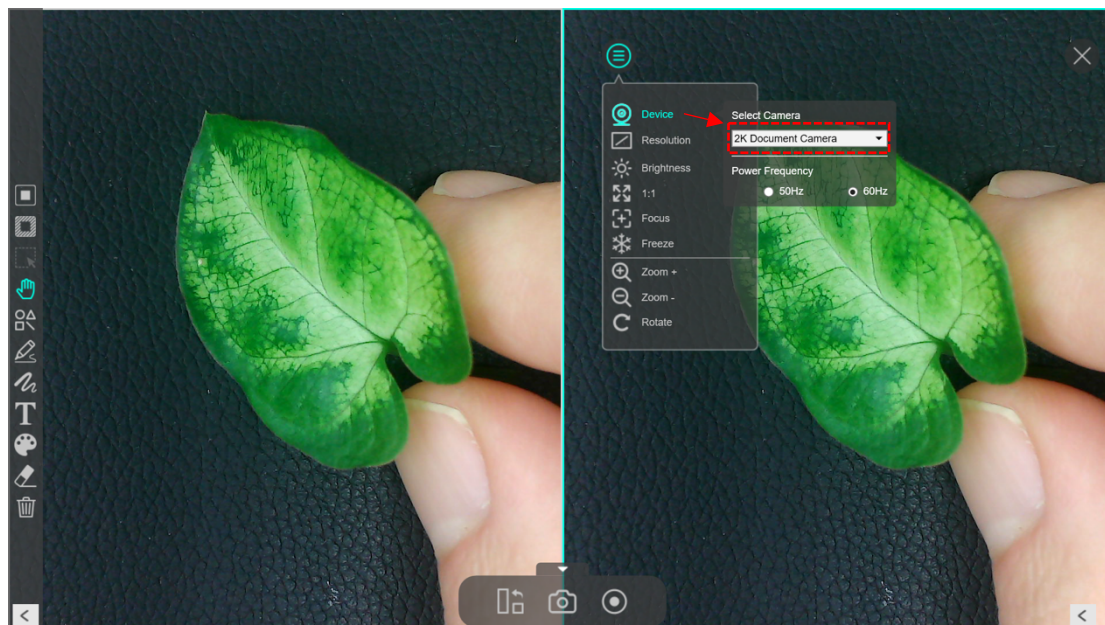
item	icon	Descriptions
1		<b>Shuffle</b> Change the display layout
2		<b>Screen Capture</b> Take the screenshot of split-screen
3		<b>Screen Recording</b> Take the screen recording of split-screen

## Compare with two live screens

To compare with two live screens, please click the  icon on the right-side window to expand the image adjustment menu then select the “Device” option.



Select camera source to your document camera, in this function you can freeze the one-side video and keep the other side in live status.




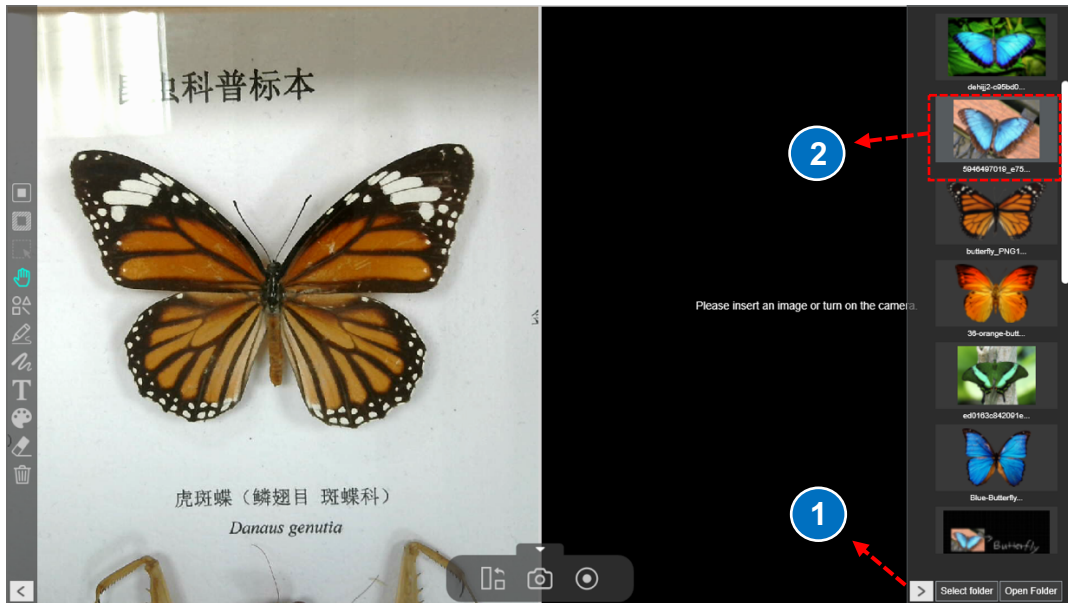
You can also connect 2nd document camera to your computer one camera facing your face, another camera facing down to your demo object.



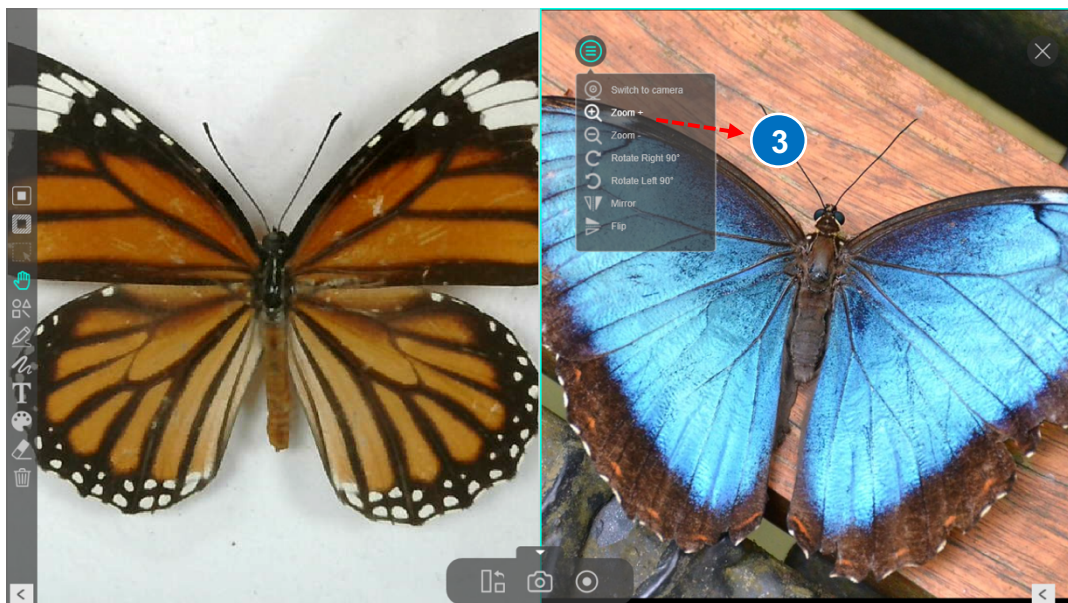
## Compare images

Split screen mode allows you to compare multiple images on one screen.

1. Click on the bottom right  icon to expand file output list.
2. Drag an image from the output list and insert it into the compare window.



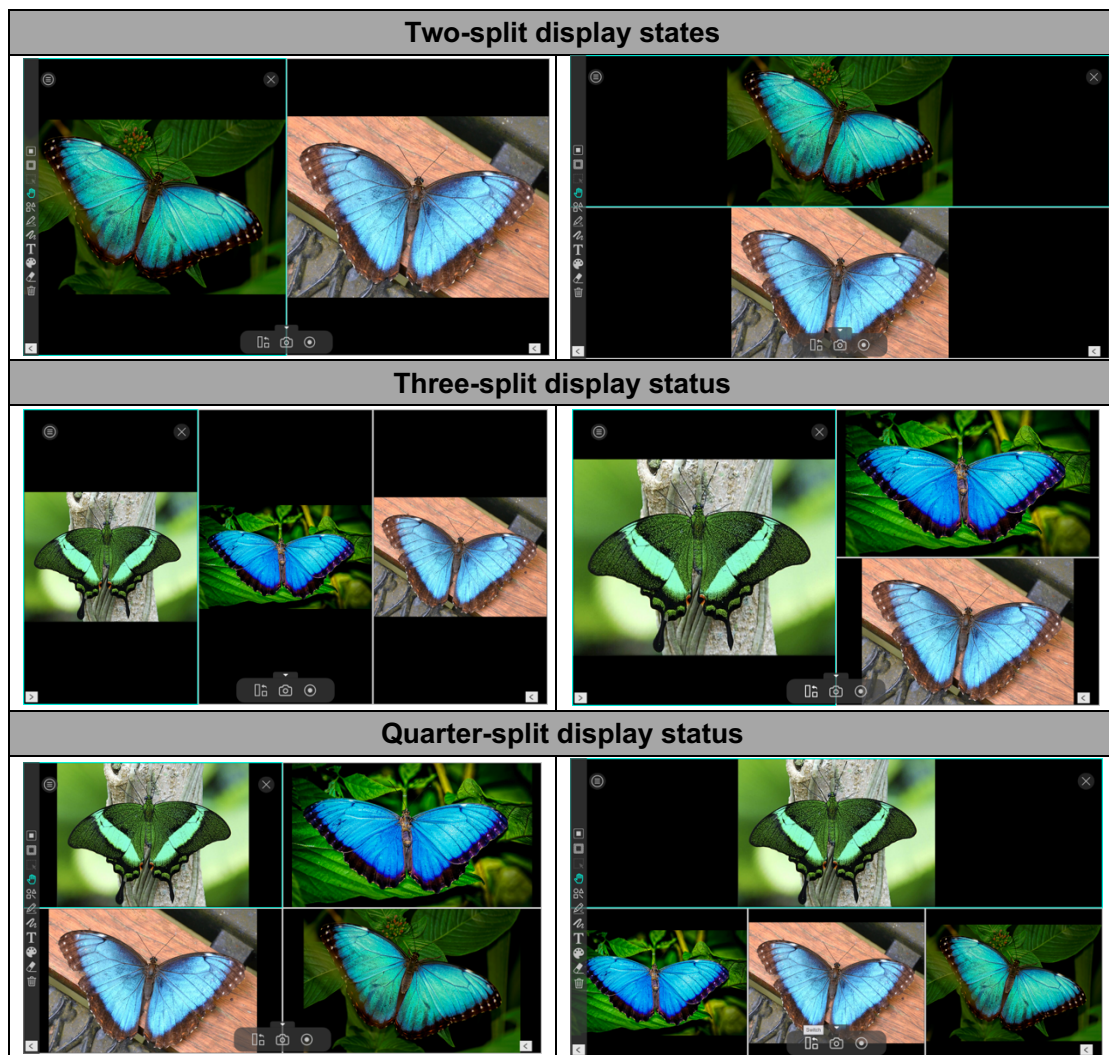
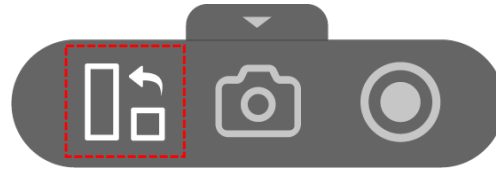
3. You can zoom in/out or rotate the image for the best view.




**NOTE:** The maximum split-screen can only compare with 4 images.

## Change the display layout

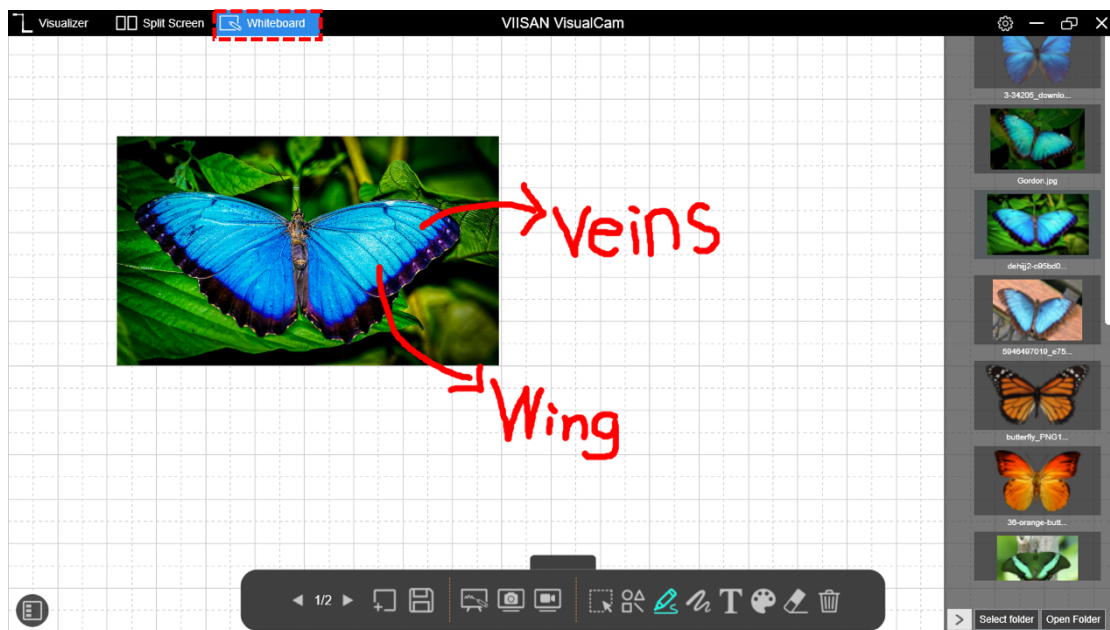
The split-screen allows you to change the display layout by clicking of the shuffle button.



**NOTE:** If you want to remove one of the split windows, you can direct click on the  icon at the top right corner of each split window.

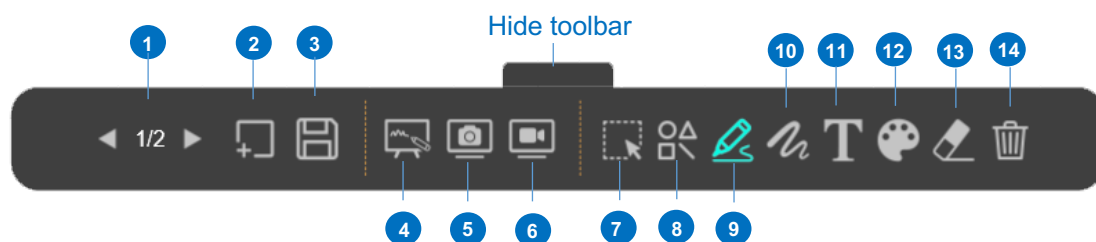
# Whiteboard Mode Description

The whiteboard mode allows you to draw and annotate anything on the interactive whiteboard, in this whiteboard function you can drag and drop selected images from the right-side file list to the whiteboard and add annotations to increase your class interactivity.










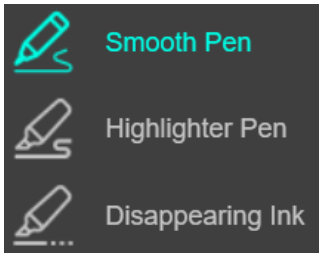







## Whiteboard Toolbar Description

Whiteboard mode gives you a multi-page plane with all the drawing tools you need.



Item	Icons	Descriptions
1		<b>Page up and down</b> Switch your whiteboard page.
2		<b>Add a page</b> Add a whiteboard page with a different color background.
3		<b>Save</b> Save your current whiteboard pages in a PDF file.

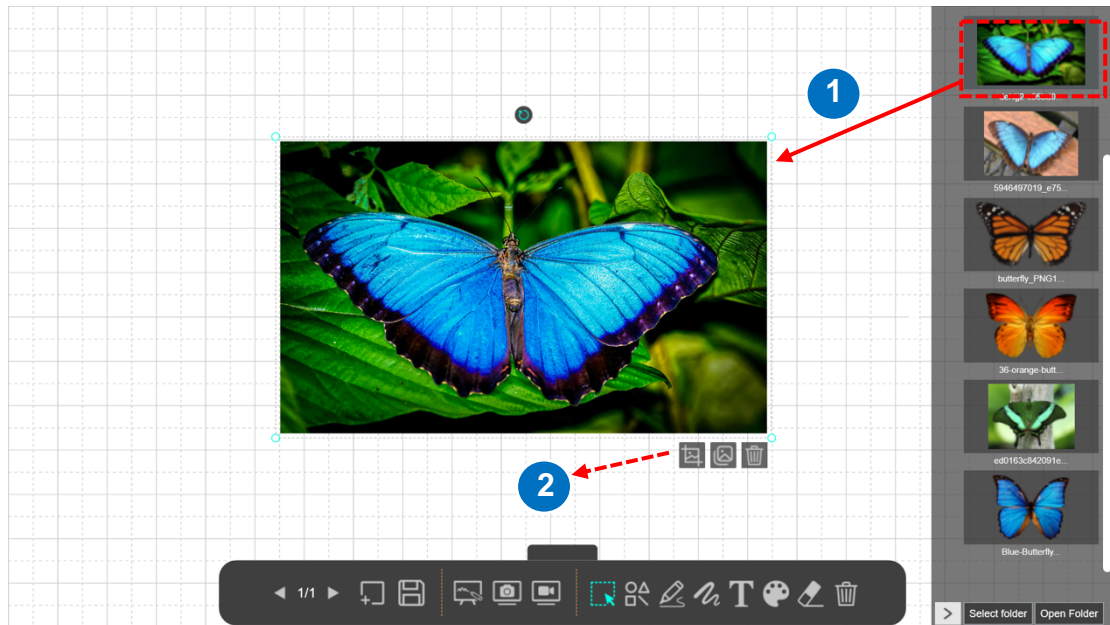
4		<b>Switch the background</b> In this option, you can switch the whiteboard background to the computer desktop or switch to mouse mode. 
5		<b>Screenshot</b> In the screenshot option, you can choose to take a full screenshot or select to capture with an area. 
6		<b>Screen recording</b> Record your whiteboard screen.
7		<b>Select</b> Select the annotation or object on the whiteboard.
8		<b>Shape Tool</b> Add the shapes. 
9		<b>Freehand Tool</b> In the freehand tool option, you can select a brush style to draw and write on the whiteboard. 
10		<b>Line Option</b> Set the line thickness of annotation.
11		<b>Text Tool</b> Add the texts.
12		<b>Color Option</b> Choose the color of annotation, shape, and text tools.
13		<b>Eraser</b> Erase annotation on the screen
14		<b>Clear All</b> Clear all annotations on the screen.




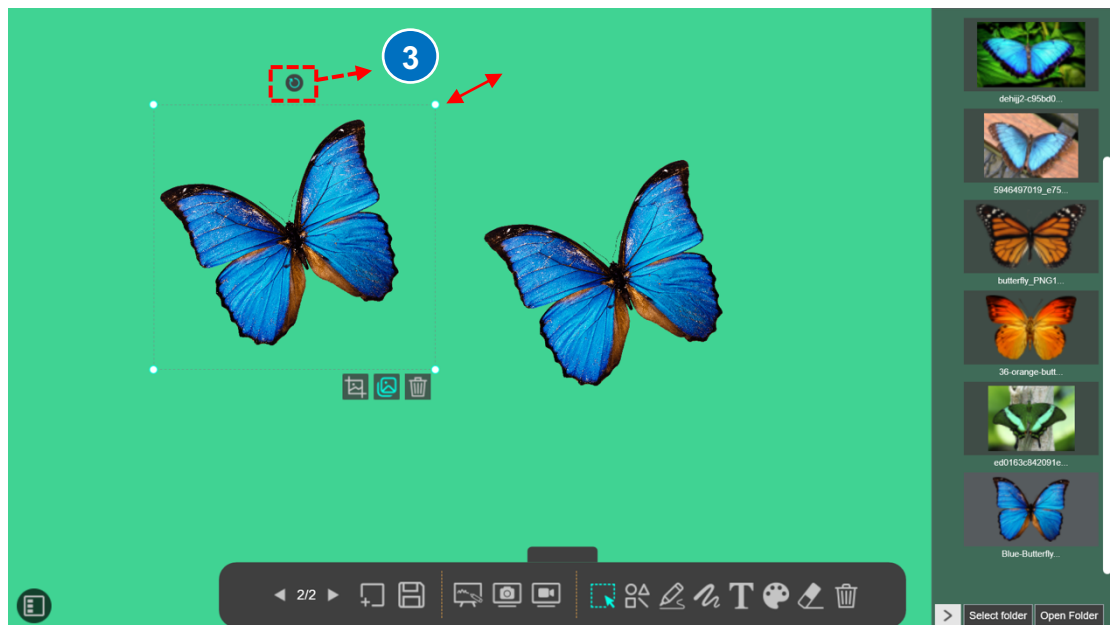
## Add an image to the whiteboard

The whiteboard mode allows you to inset the images into the whiteboard.


1. Drag an image from the output list and insert it into the whiteboard.
2. You can crop, duplicate, or remove the image by using editing tools.

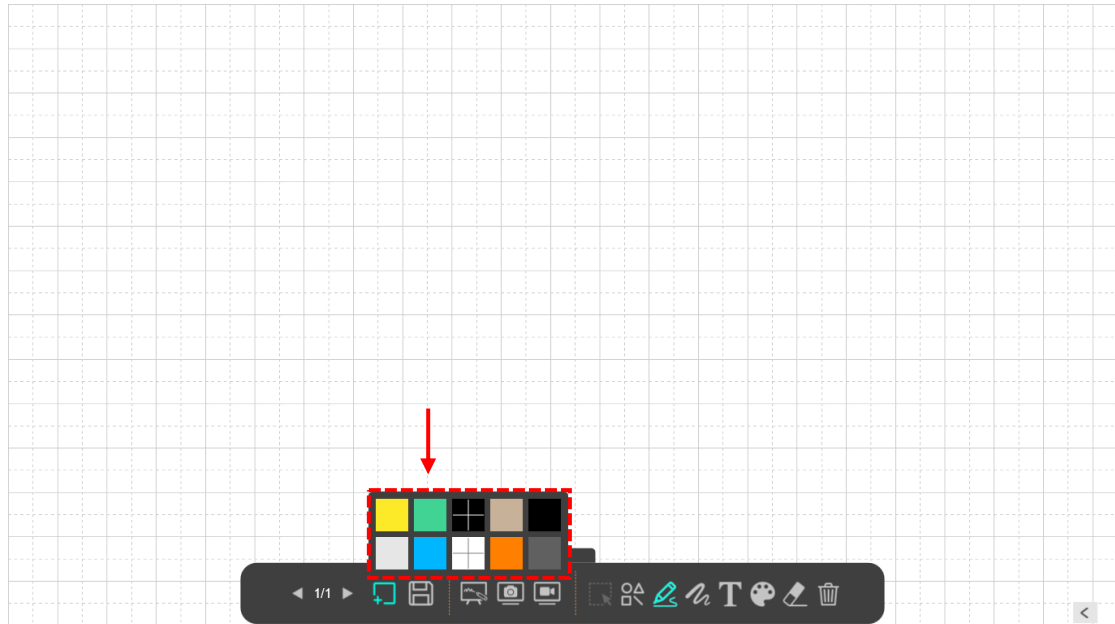



3. You also can place and hold the  icon to rotate the image or click the cursor to adjust the size

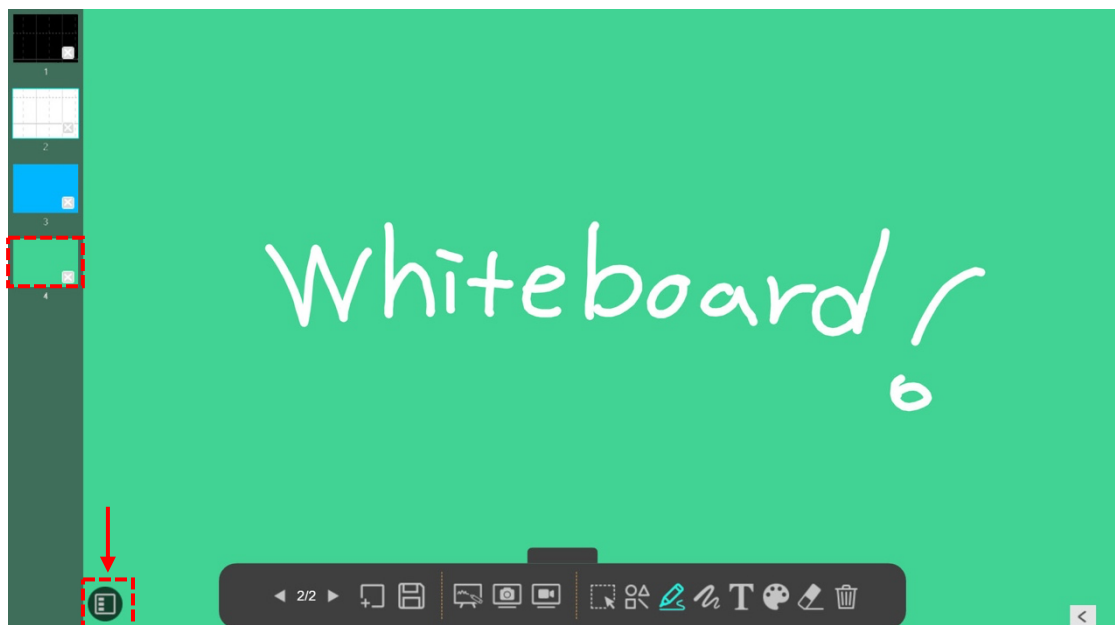


## Add a whiteboard page

To add a whiteboard page, please click on the  icon and choose a background color.



You can also click the  icon to expand the thumbnail navigation bar.



# Troubleshooting

If the device cannot be detected for a long time, you can try the following.

Problem or Issue	Potential Cause	Possible Solutions
<b>Cannot be powered on</b>	The USB cable may not be properly connected to the computer, or the computer may have encountered a system crash.	Re-connect the USB cable with the Document Camera.
		Restart the computer.
<b>No image output after connecting</b>	The document camera is not correctly connected to the computer.	Re-connect the USB cable with the Document Camera.
	Software is not installed on the computer.	Install the bundled software on the computer.
	Application software is incompatible with the document camera.	Use the bundled software to operate the Document Camera.
<b>The device is not being detected</b>	Make sure you are using a supported VIISAN model camera device.	The VisualCam application is exclusively compatible with VIISAN visualizer model cameras. If you are using a third-party document camera, certain features of this software may not function properly.
	Check if the camera is opened by other applications.	Check the Windows/macOS program, if the camera has been occupied by other applications, please exit the application and try again.

	Turn off the virtual machine (macOs).	If your Mac has an installed Windows virtual machine such as “Parallels Desktop”, please turn it off and connect the device again.
	Check the USB connection (Windows).	Ensure Windows has recognized the device under the Cameras in Windows Device Manager menu. If the device is not detected, please try to connect with another USB port.
	For Windows 10 / 11 system	<p>Go to: Settings &gt; Privacy &gt; Camera to check whether the permission is allowed.</p> <p><b>Allow apps to access your camera</b></p> <p>If you allow access, you can choose which apps can access your camera by using the settings on this page. Denying access blocks apps from accessing your camera. It does not block Windows Hello.</p> <p><input checked="" type="checkbox"/> On</p>
<b>The image is fuzzy</b>	The distance of the object is possibly too close to the lens.	Press the AF button to auto focus.
<b>The image does not move</b>	The computer or application software may have crashed.	Restart the computer or application software.
<b>There is camera flickering</b>	<p>Camera flickering problems usually occur when there is a difference between the camera refresh rate setting and the artificial lighting refresh rate of the environment.</p> <p><b>NOTE:</b> Learn more about each country's mains electricity at: <a href="https://en.wikipedia.org/wiki/Mains_electricity_by_country">https://en.wikipedia.org/wiki/Mains_electricity_by_country</a></p>	<p>Use the VisualCam software “Device setup” to change the camera’s Power Frequency (refresh rate).</p> 