Ideao VisualCam

USER MANUAL

Windows Edition V1.0

Index

1. Introduction

1.1. About this software

Ideao 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 Ideao DC400 and Innex DC500. If you are using 3rd party products this software may NOT work.

1.2. Copyright

- All rights reserved by Fun Technology Innovation Inc. No part of the materials shall be reproduced in any form or by any means without prior written permission.

1.3. Trademarks

- 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.

1.4. Disclaimer

- The screenshots in this user's manual were made with Windows 11. 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.

1.5. System Requirements

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

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: System requirements and compatibility may change over time due to updates in the Windows operating system.

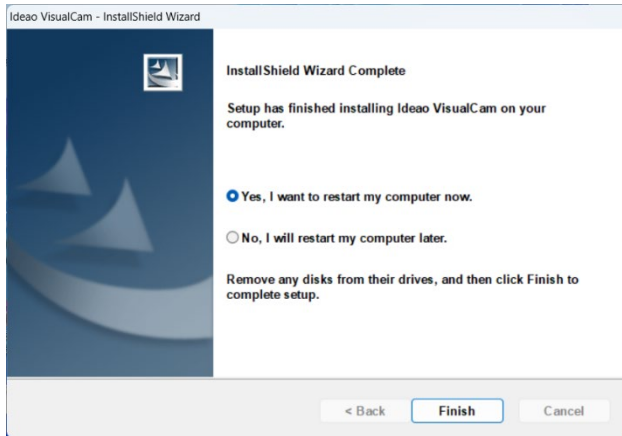## 1.6. Installing the software

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

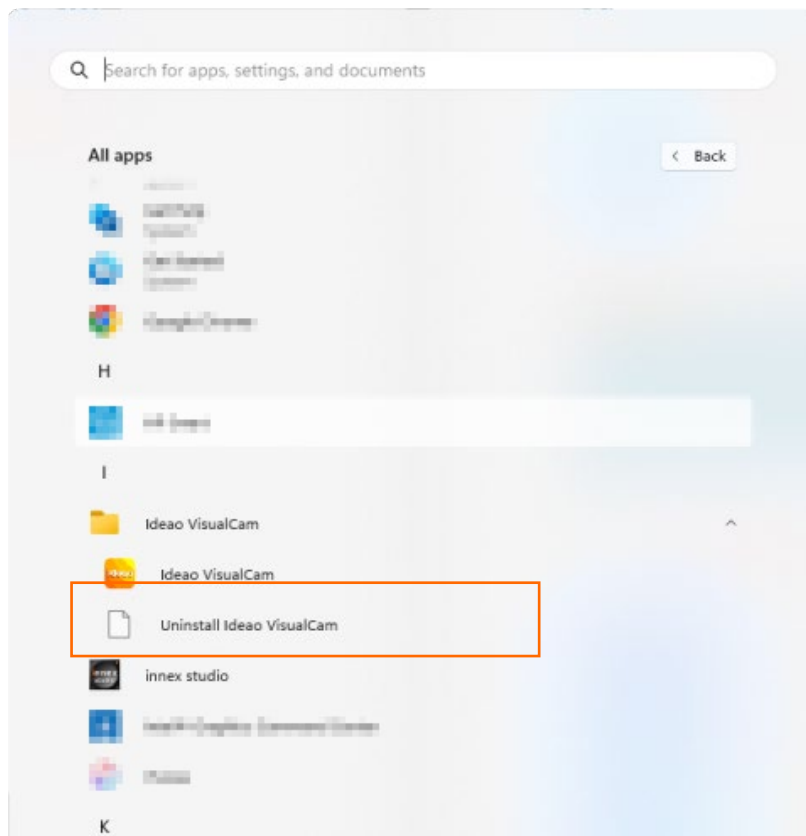2. Follow the onscreen instructions to complete the installation.
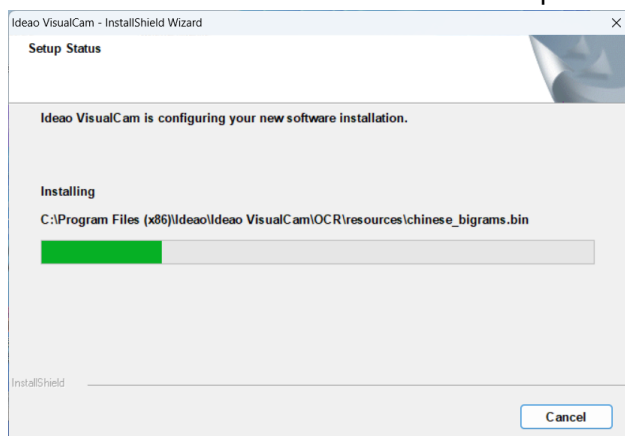
3. Click [**Finish**] to complete the installation.

1.7. Uninstalling the software

To remove Ideao VisualCam from your PC, click the Windows Start Menu, then go to All Programs > Ideao VisualCam folder > Uninstall Ideao VisualCam.
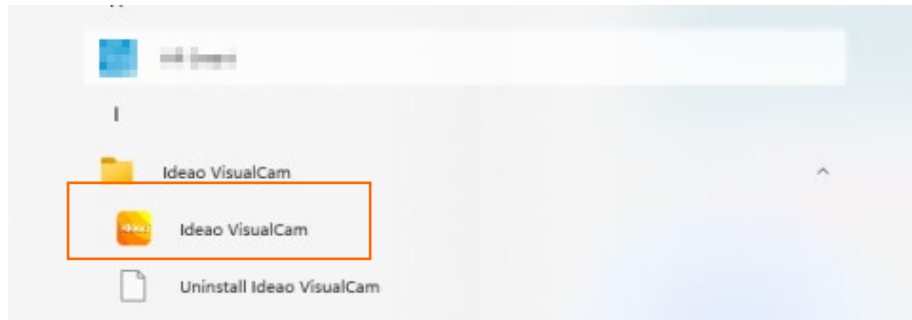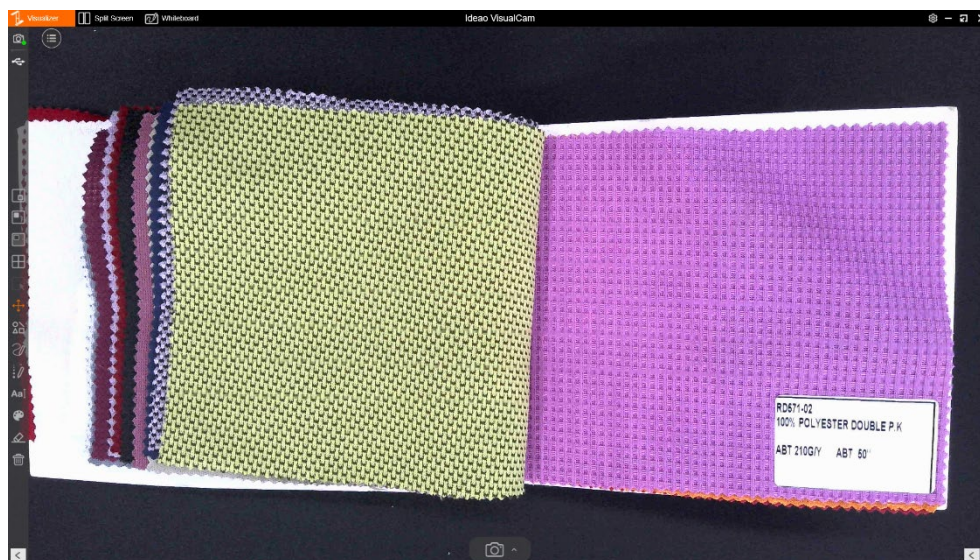
2. Getting Started

To start the program, double-click the Ideao VisualCam icon on the desktop or select Ideao VisualCam from the Windows Programs list.
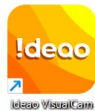

Click the Windows Start Menu **>** All apps **>** Ideao VisualCam folder **> Ideao VisualCam**.

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

NOTE: If you don't see the real-time preview video from the camera and a **[Detecting devices…]** message is displayed in the middle of the main window, check the following items in sequence.
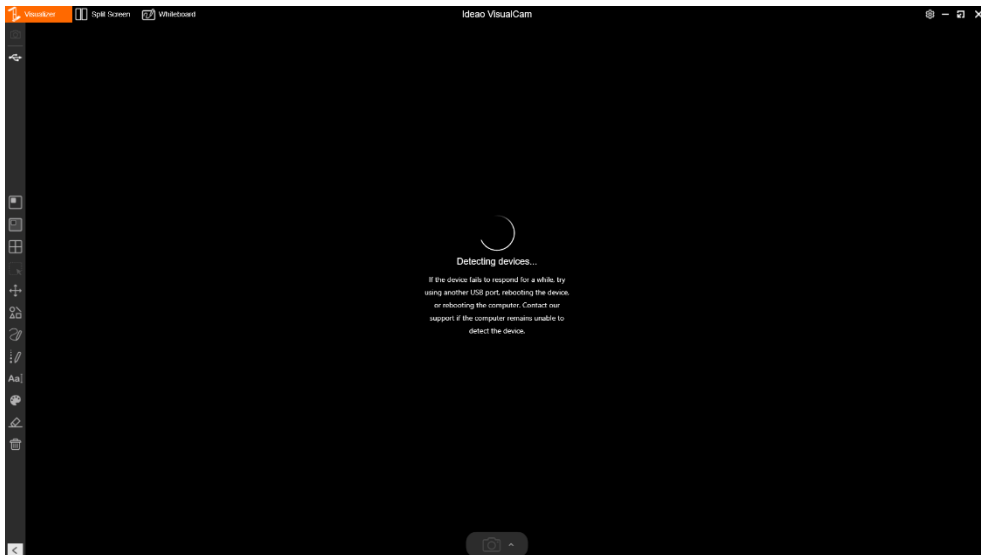
- Check the USB connection

Ensure that Windows recognizes the device in Device Manager under 'Cameras.' If the device is not detected, try connecting it to a different USB port."
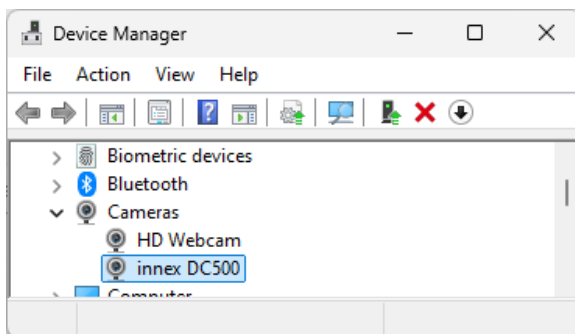
- For Windows 11

Go to 'Privacy & security' > 'Camera' to ensure that 'Camera access' and 'Let desktop apps access your camera' are both enabled. Also, check that Ideao VisualCam is included in the list of allowed apps.
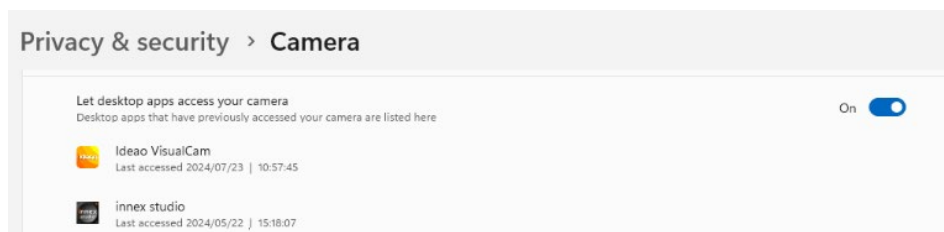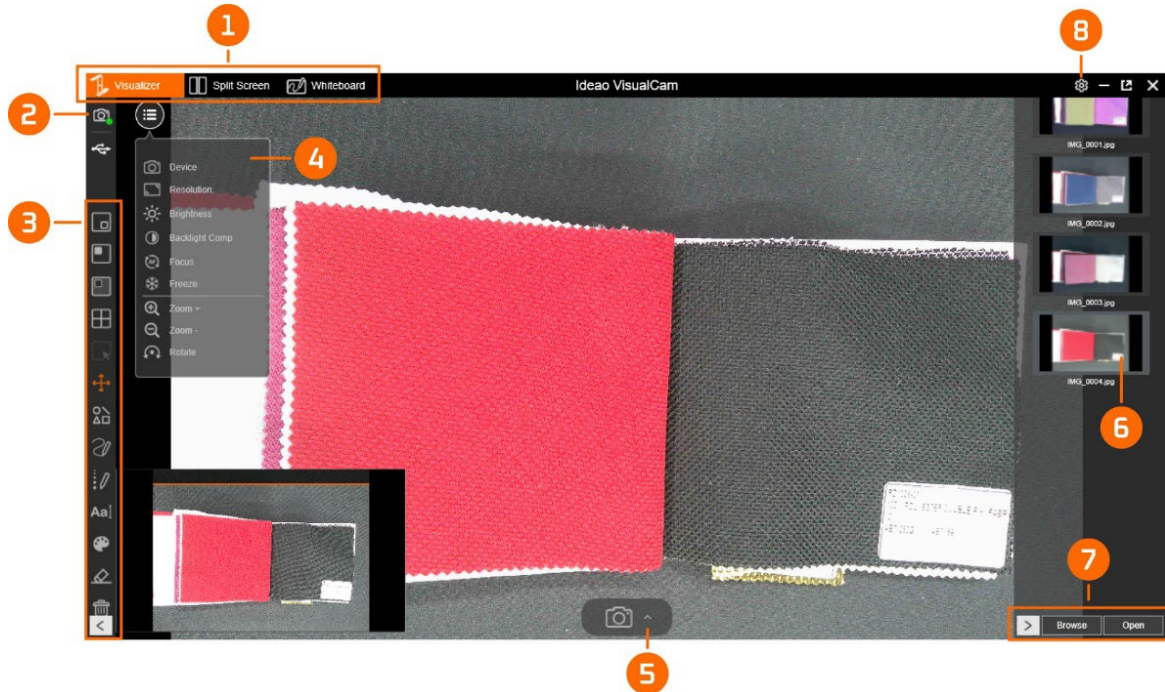

- Whitelist Ideao VisualCam in Anti-Virus software

If you have installed anti-virus software, please make sure Ideao VisualCam is added to the whitelist.

3. User Interface Description

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

3.1. Function Tabs

The IDEAO VisualCam software integrates three main functions. You can switch between them by clicking on the tabs.
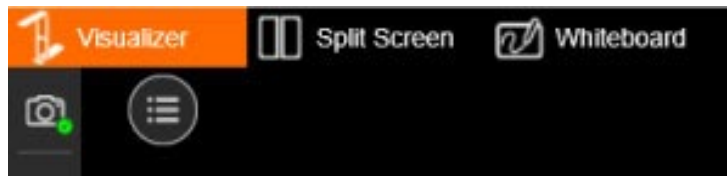
Mode	Descriptions
Visualizer	Displays the live video captured by the document camera.
Split Screen	Connect two document cameras to your computer and display their feeds side by side.
Whiteboard	Draw and annotate on a digital whiteboard

3.2. Select Connection

Click the 📷 icon at the left upper corner to choose the device connection method. **(AP mode or Client mode are not available for Ideao DC400 / Innex DC500)**
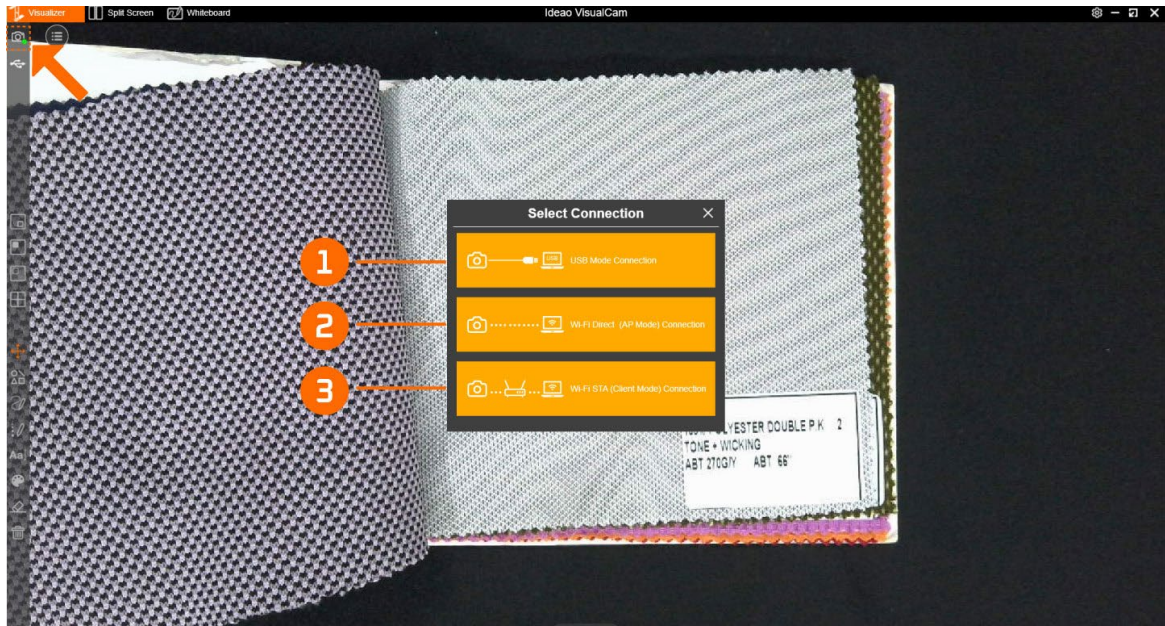
Item	Descriptions
1	**USB mode connection. (Default)** This mode allows you to connect the document camera by USB wired connection.
2	**Wi-Fi p2p (AP Mode) connection.** This mode allows you to connect the document camera directly without an internet connection., *NOTE: This connection only available for the Wi-Fi model.*
3	**Wi-Fi STA (Client Mode) connection.** This mode allows you to connect the document camera through a router. *NOTE: This connection only available for the Wi-Fi model.*

3.3. Left Toolbar

On the left side toolbar, there are many useful control tools available. For more details, please refer to **4.1 Left-side toolbar function.**

3.4. Image Adjustment Menu

Click the menu icon ☰ to expand the image adjustment menu, you can use the following tools to adjust the live video in the preview window. For more details, please refer to **4.2 Image adjustment menu.**

3.5. Capture modes

Click the up-arrow icon ∧ in the bottom toolbar to switch the capture mode.

Mode	Descriptions
1	Crop and scan documents
2	Take snapshots (default selection)
3	Create stop motion videos by capturing frame-by-frame images
4	Record videos

3.6. Thumbnail List

Right-click on a thumbnail in the right-side output listing of the main window to see the following options.
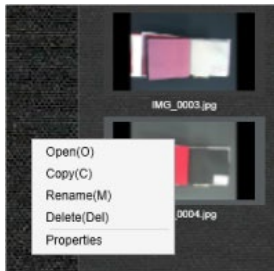
Right Click Options	Explanations
Open	Open the file
Copy	Duplicate the file
Rename	Rename the file
Delete	Delete the file
Properties	Show the file information

3.7. File Save Path

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

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

3.8. Settings

General Settings:

Click the gear icon ⚙ in the upper right corner to access the settings page.

General Settings:

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

Document Settings:
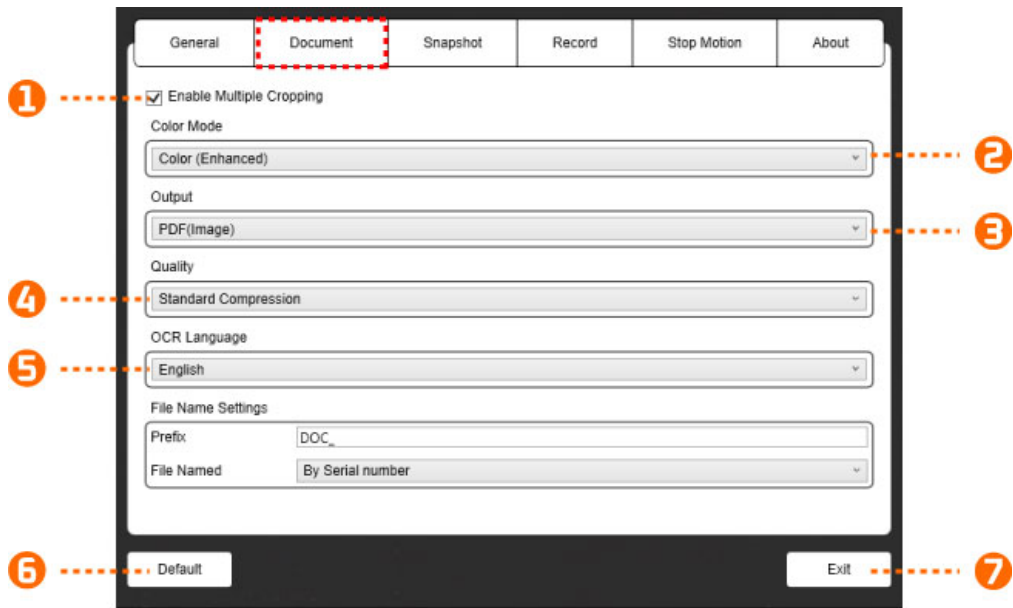
1	Enable or disable multiple cropping options
2	Choose the color mode for scanning documents: Color, Color (Enhanced), Grayscale, B/W or B/W (Document).
3	Choose the output format for the scanned document: JPEG, PDF (Image), PDF (Searchable) or PDF (Text).
4	**Set the document quality (Compression rate).** • Standard Compression • Low Compression Rate (High image quality, bigger size) • High Compression Rate (Low image quality, smaller size)
5	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).
6	Restore to default settings
7	Exit the settings

Snapshot Settings:
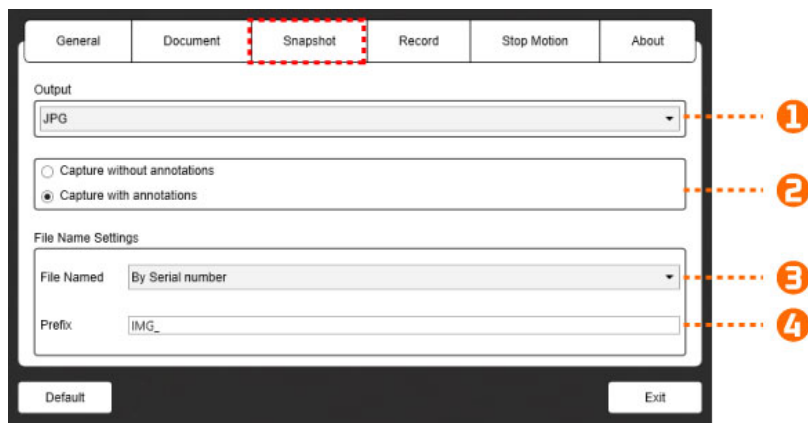
1	Set the image file output format (JPG, BMP, PNG, TIF)
2	Select whether to take a snapshot with or without showing the annotation
3	Set the file name format to either serial number or date & time
4	Set the prefix for the file name

Record Settings:

1	Set the video file output format (AVI, MP4, FLV)
2	**Set the video quality (Compression rate)** • Standard Compression • Low Compression Rate (High image quality, bigger size) • High Compression Rate (Low image quality, smaller size)
3	Enable microphone
4	Select microphone
5	Set the file name format to either serial number or date & time.
6	Set the prefix for the file name

Stop Motion Settings:

1	Set the video file output format (AVI, MP4, FLV)
2	**Set the video quality (Compression rate).** • Standard Compression • Low Compression Rate (High image quality, bigger size) • High Compression Rate (Low image quality, smaller size)
3	Set the file name format to either serial number or date & time.
4	Set the prefix for the file name

About page:
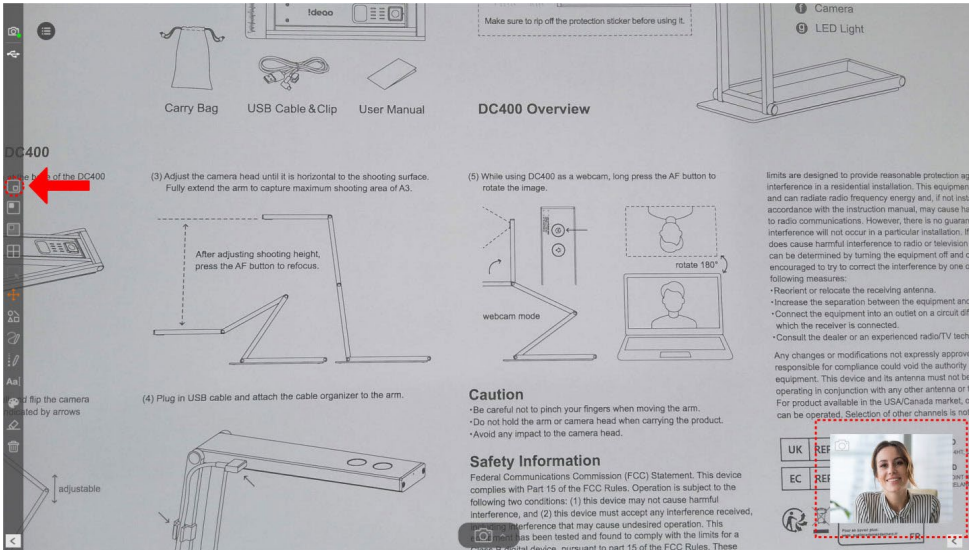
1	Display the current software version
2	Display the current connected device's name
3	Display the connected device's hardware ID
4	Display the firmware version of the connected device
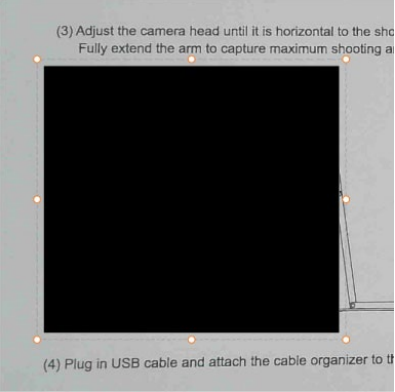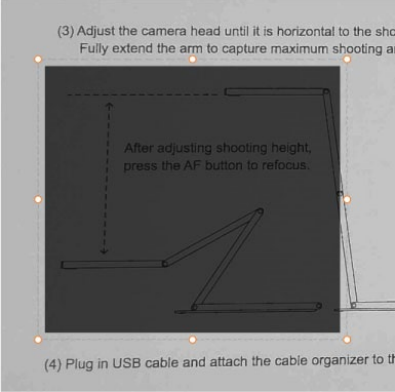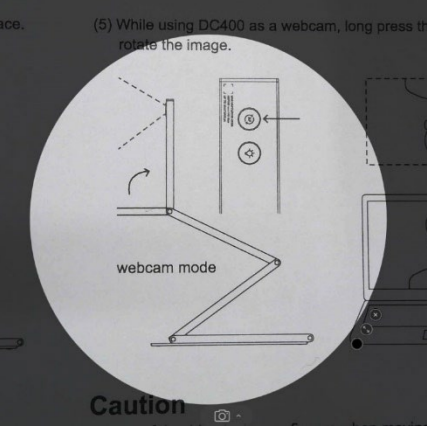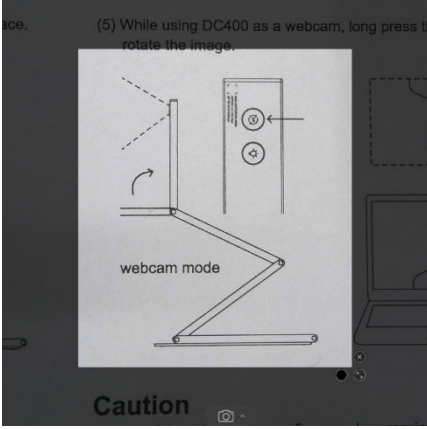
4. Visualizer Mode Description

The visualizer mode allows you to show footage from a document camera. There are many useful functions available in the left toolbar, all of which can enhance your presentation.
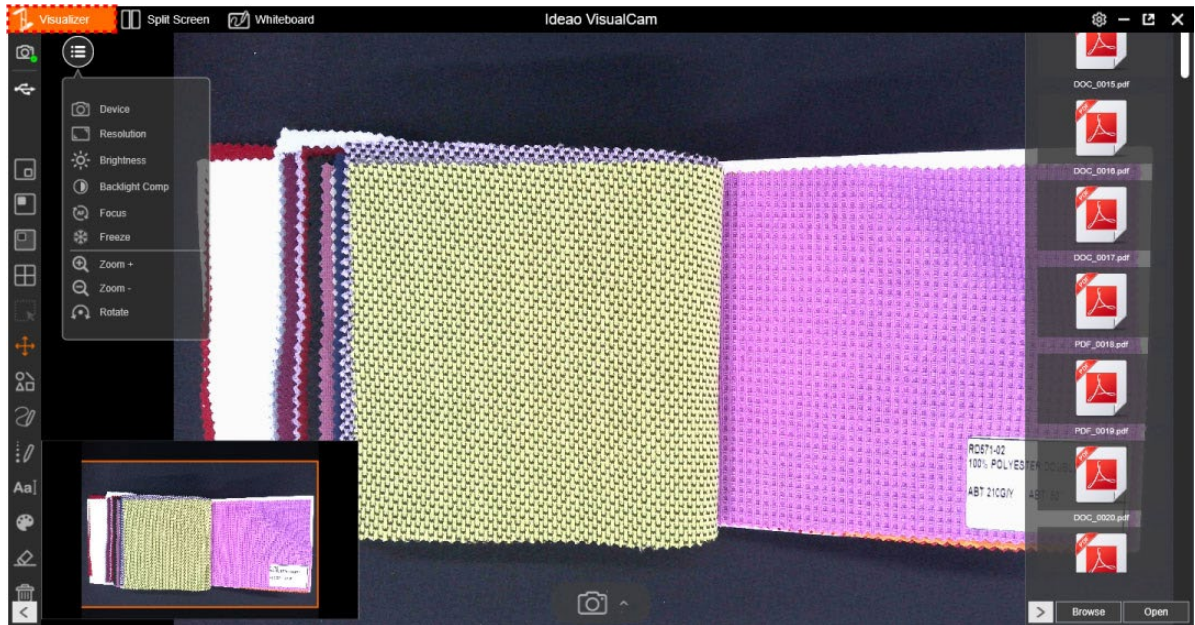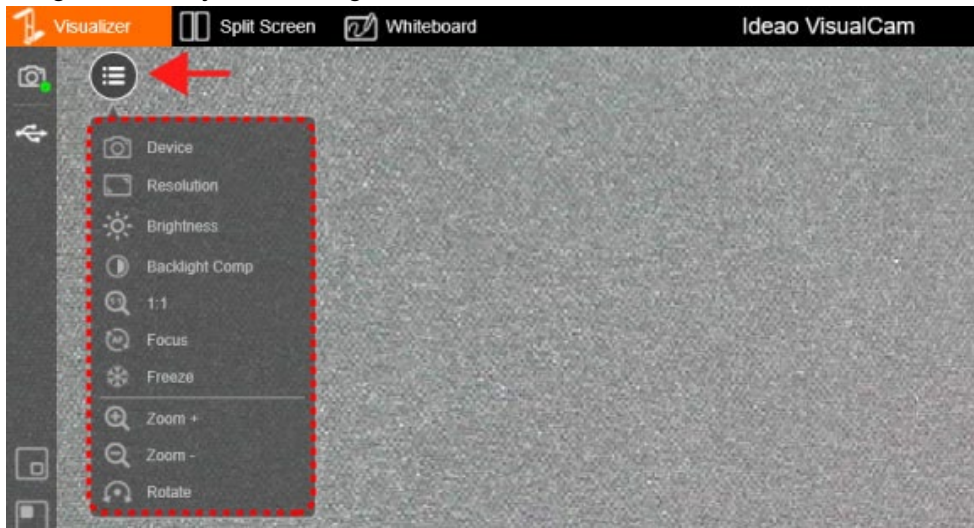

4.1. Left-side toolbar function

Icons	Descriptions
	Picture-in-Picture Click PIP icon on the left-side toolbar to enable picture-in-picture mode, you can move and change the size of the sub-screen window. NOTE: Only the built-in webcam on a laptop or desktop can be used as a second source for the picture-in-picture function.
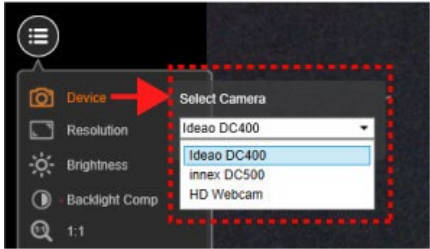
	Mask Click the Mask icon to enable mask mode in either black (opaque) or translucent style. You can then drag the cursor to adjust the size of the mask area to your desired dimensions. Black (Opaque) style. Translucent style
	Spotlight Enable the spotlight in either rectangle or ellipse style. You can adjust the size and change the spotlight's appearance to black (opaque) or semi-translucent. Ellipse style Rectangle style
	Gridlines Show gridlines on screen
	Select Select annotations, text or shapes on the screen
	Move When the feed from the visualizer is zoomed in and some parts of the area are not shown on the screen, you can move the view to see the hidden sections.
	Shape Tool Add shapes to the canvas

	☐ ■ △ ▲ ○ ● ╱ ╱ ↗ ⤢
☐	**Rectangle Line Tool** Add a rectangle with no filled
■	**Rectangle Solid Tool** Add a solid rectangle
○	**Round Line Tool** Add a circle with no fill
●	**Round Solid Tool** Add a solid circle
△	**Triangle Line Tool** Add a triangle with no fill
▲	**Triangle Solid Tool** Add a solid triangle
╱	**Line** Add a solid straight line
╱	**Dotted line** Add a dotted line
↗	**Single arrow** Add a line with a single arrow
⤢	**Double arrow** Add a line with arrows at both ends
	Smooth Pen Draw and write using the Smooth Pen
	Highlighter Pen Draw and write using the Highlighter
	Disappearing Pen Draw and write using the disappearing Pen *NOTE: It allows to set the disappearing time (3, 5, 10, 20 seconds)*
	Line Option Set the line thickness of annotation.
	Color Option Choose the color of annotation, shape, and text tools.
AaI	**Text Tool** Add the texts
	Eraser Erase annotation on the screen
	Clear All Clear all annotations on the screen
>	**Show/Hide** Show and hide toolbar

4.2. Image Adjustment Menu

Click the menu icon ⊜ to expand the image adjustment menu. You can then use the following tools to adjust the image feed from the visualizer.
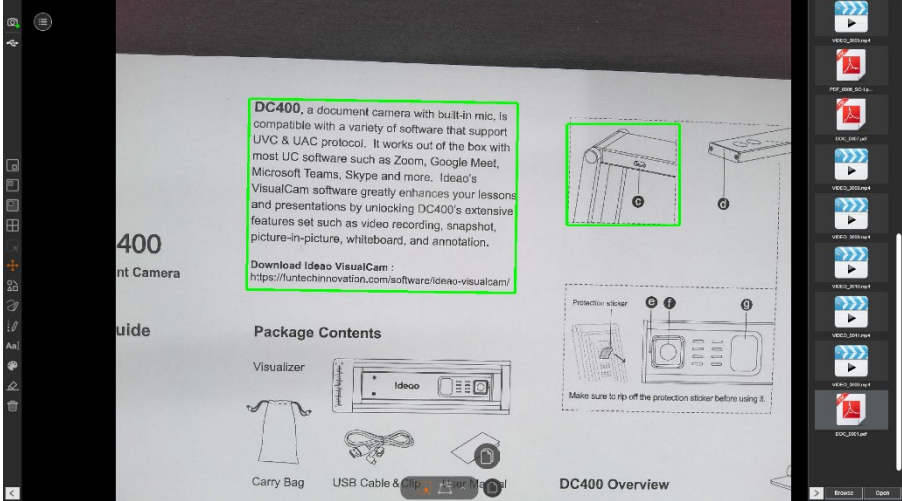
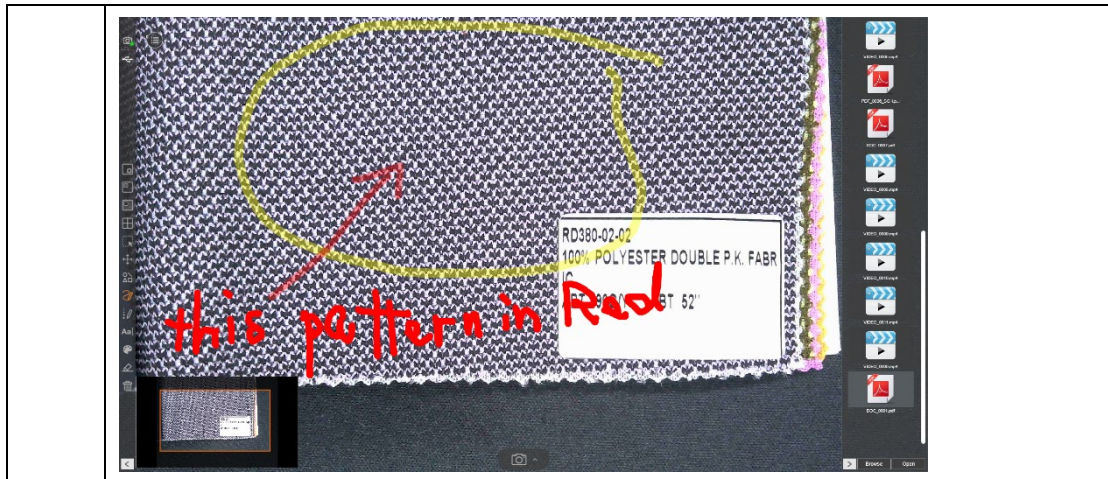| Icons	Descriptions
📷	**Device** Select a device from the list of available options.
⊡	**Resolution** Set the resolution
☼	**Brightness** Adjust the brightness
◑	**Backlight** Adjust the backlight. NOTE: This Function is only available for specific models
(1:1)	Display 1:1 image / Fit Screen
(AF)	**Auto Focus** Click once to activate autofocus
❄	**Freeze video** ❄ Click to freeze the video / ❄ Click again to unfreeze it
⊕	Zoom in on the image

	Zoom out of the image
	Rotate image: 0°, 90°, 180°, 270°; Flip ; Mirror

4.3. Select Capture Mode

Click the up-arrow ∧ icon at the bottom to switch between capture modes.
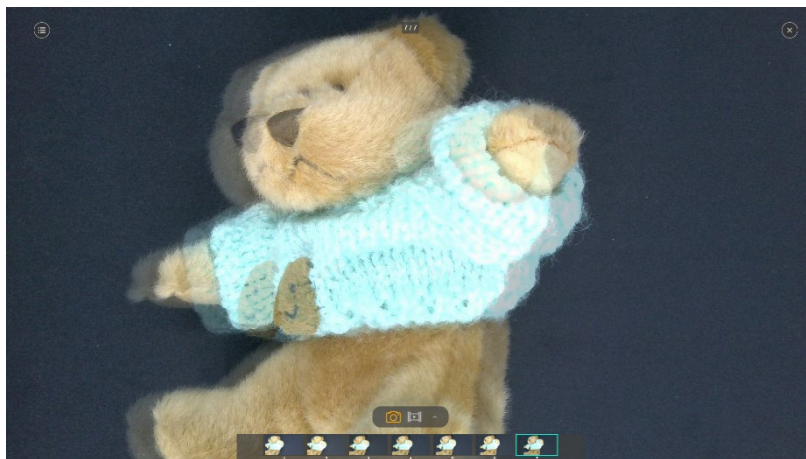

Mode	Descriptions
1	The document mode ⬚ supports scanning single or multiple documents. The auto-detection crop mode ⬚ automatically crops the documents while the manual crop mode ⬚ allows users to crop document manually as desired. In the auto-detection crop mode, you can also enable multiple-page scanning by pressing the icon ⬚. When this mode is enabled, the icon turns to ⬚. This document mode includes OCR functionality, allowing you to extract text from scanned documents in the selected language.
2	The snapshot mode ⬚ allows you to take photos with or without annotations. The images can be saved in JPG, BMP or PNG format.

|	
3	The stop motion mode ⌗ provides a live preview with a semi-transparent ghost image overlay, allowing you to see the difference between the previous and the next shot and make precise adjustments before capturing the frame. Press ⌗ icon to take a frame and press ⌗ icon to export to the video and delete all the images previously taken for the stop motion.
4	The record mode ⌗ enables video recording. The recorded videos can be saved in MP4, AVI or FLV format as selected in the settings. ⌗ Click once to start recoding ⬤ Click again to stop recoding

5. Split-Screen Mode

With the Split-Screen function, you can connect two document cameras to your computer and display their feeds side-by-side. This allows you to present two live screens simultaneously. You can also compare a still image with live video.
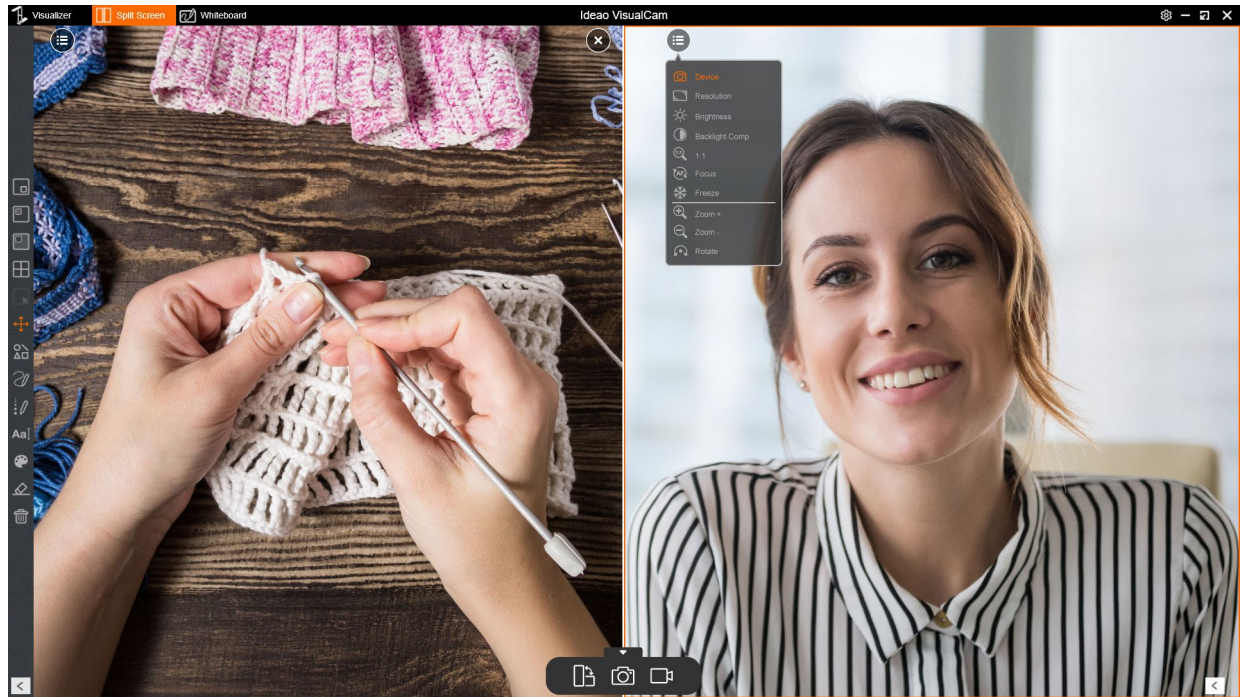


5.1. Split-screen mode interface

The split-screen bottom toolbar includes three icons: one for taking screenshots, one for recording screens, and one for changing the display layout.
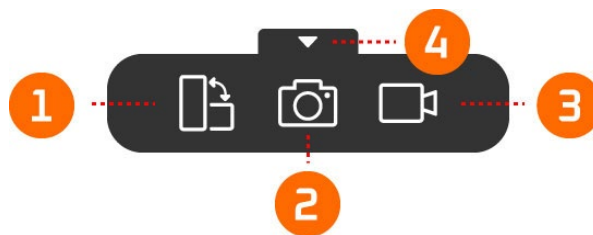

item	icon	Descriptions
1		**Switch** Switch the display layout
2		**Snapshot** Take a screenshot of split-screen view
3		**Record** Take a screen recording of split-screen view
4		**Hide/show** Hide or show the toolbar

5.2. Show live footage from 2 cameras

To view live footage from two cameras, click the menu icon ⊜ on the right window, then select 'Switch to Camera.' Next, choose 'Device' 📷 to display the list of cameras and select the desired camera.
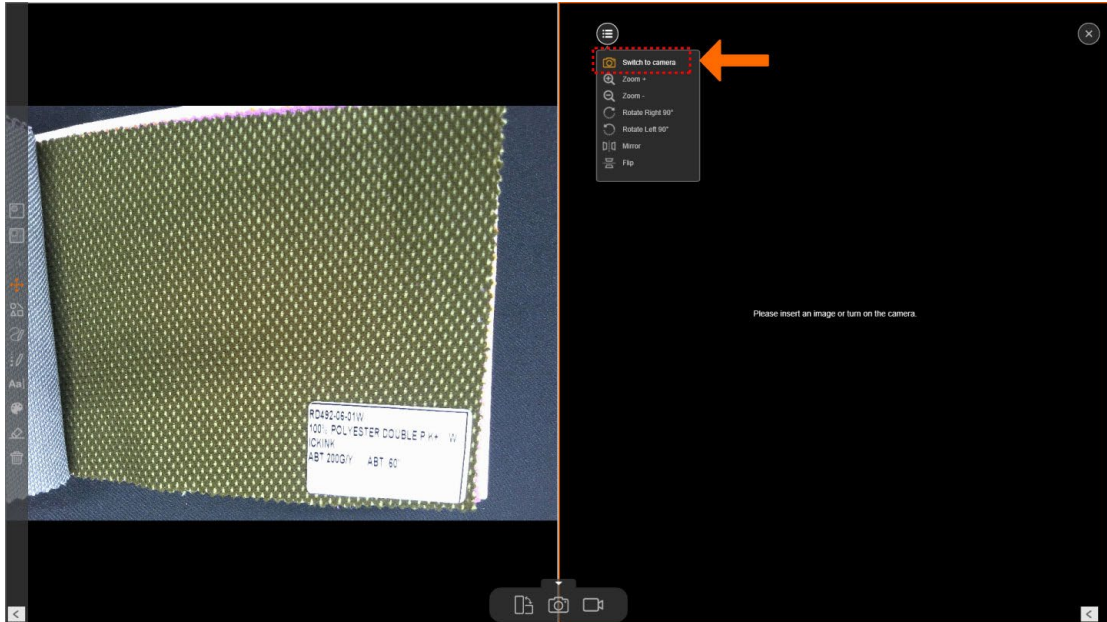
If you select the same camera source for both the left and right windows, the same footage will be displayed on both sides. However, you can freeze the footage on one side while keeping the other side live.
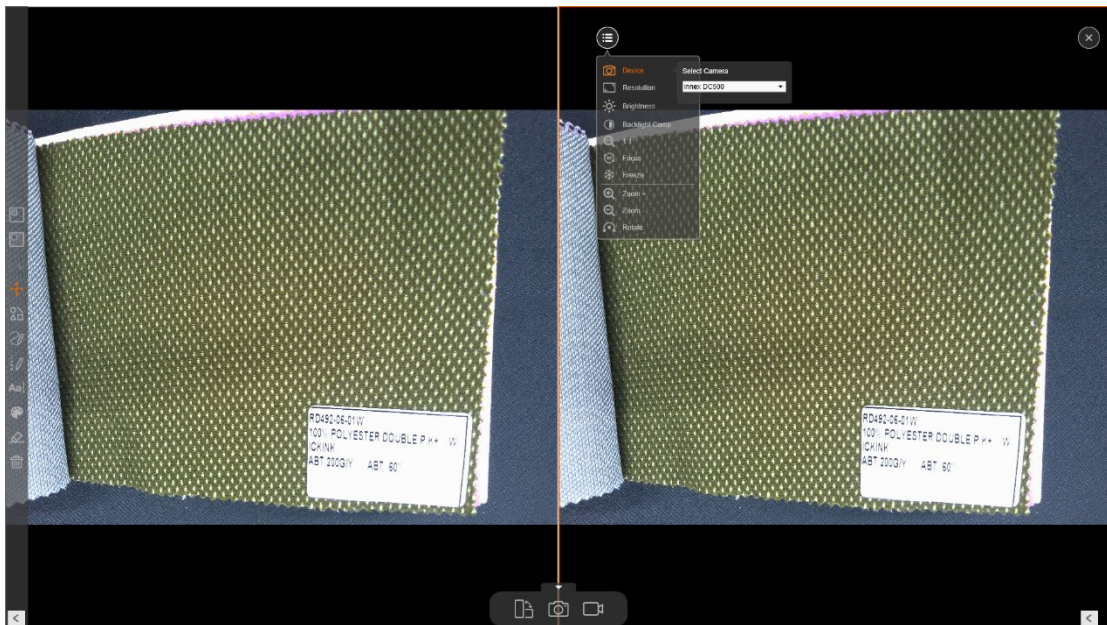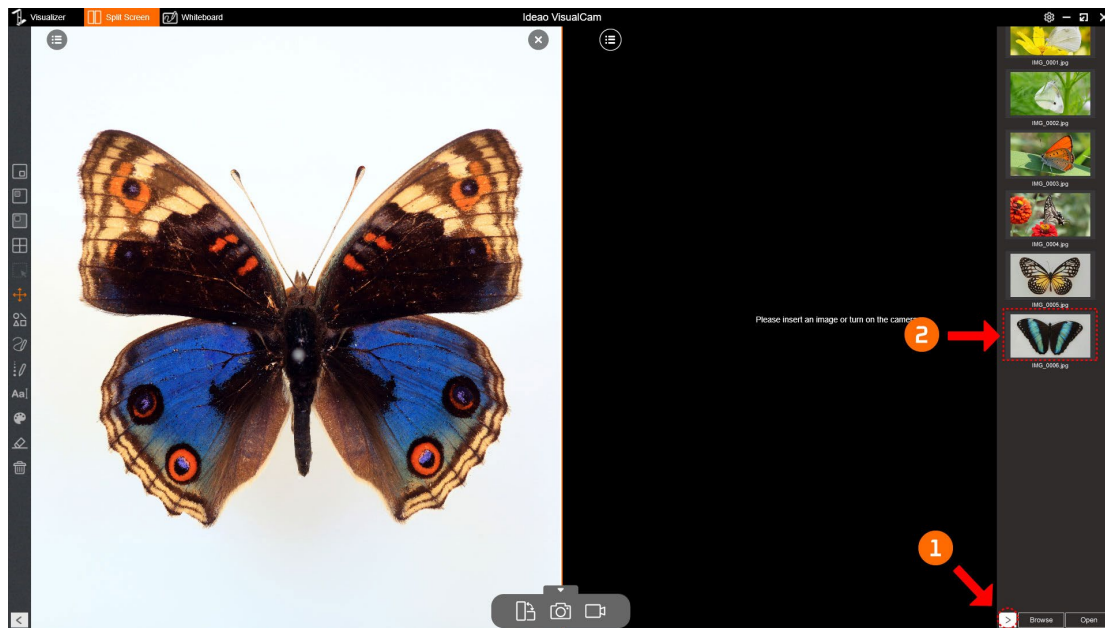

You can also select a different camera, for example, showing footage from a document camera on one side and your face from a webcam on the other.
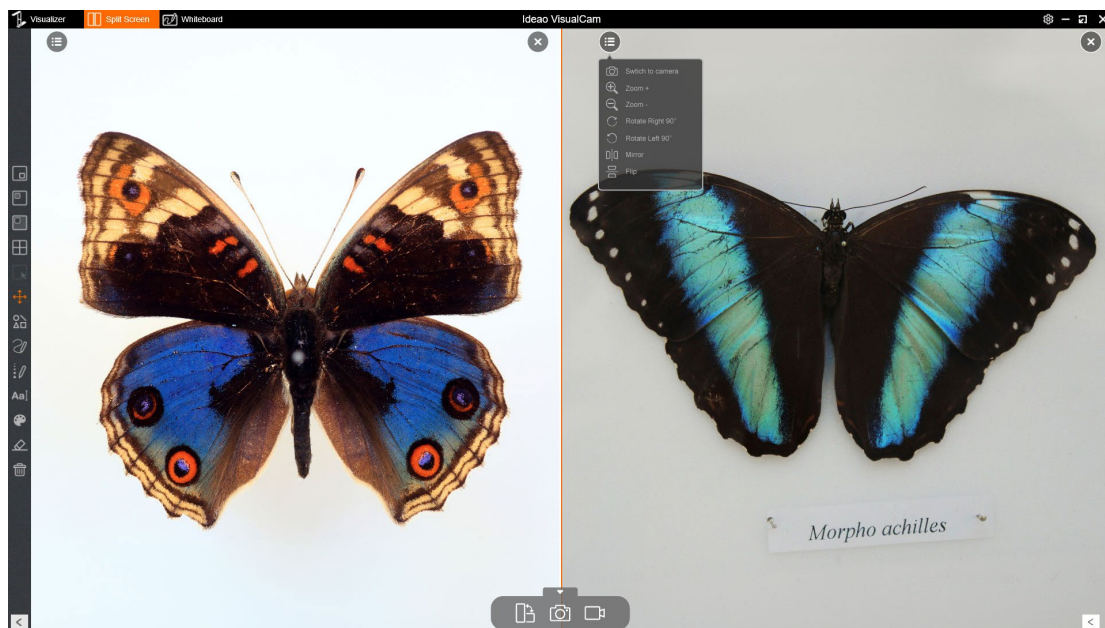
5.3. Compare images

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

1. Click the bottom-right icon $<$ to expand file output list.
2. Drag an image from the output list and drop it into the compare window.
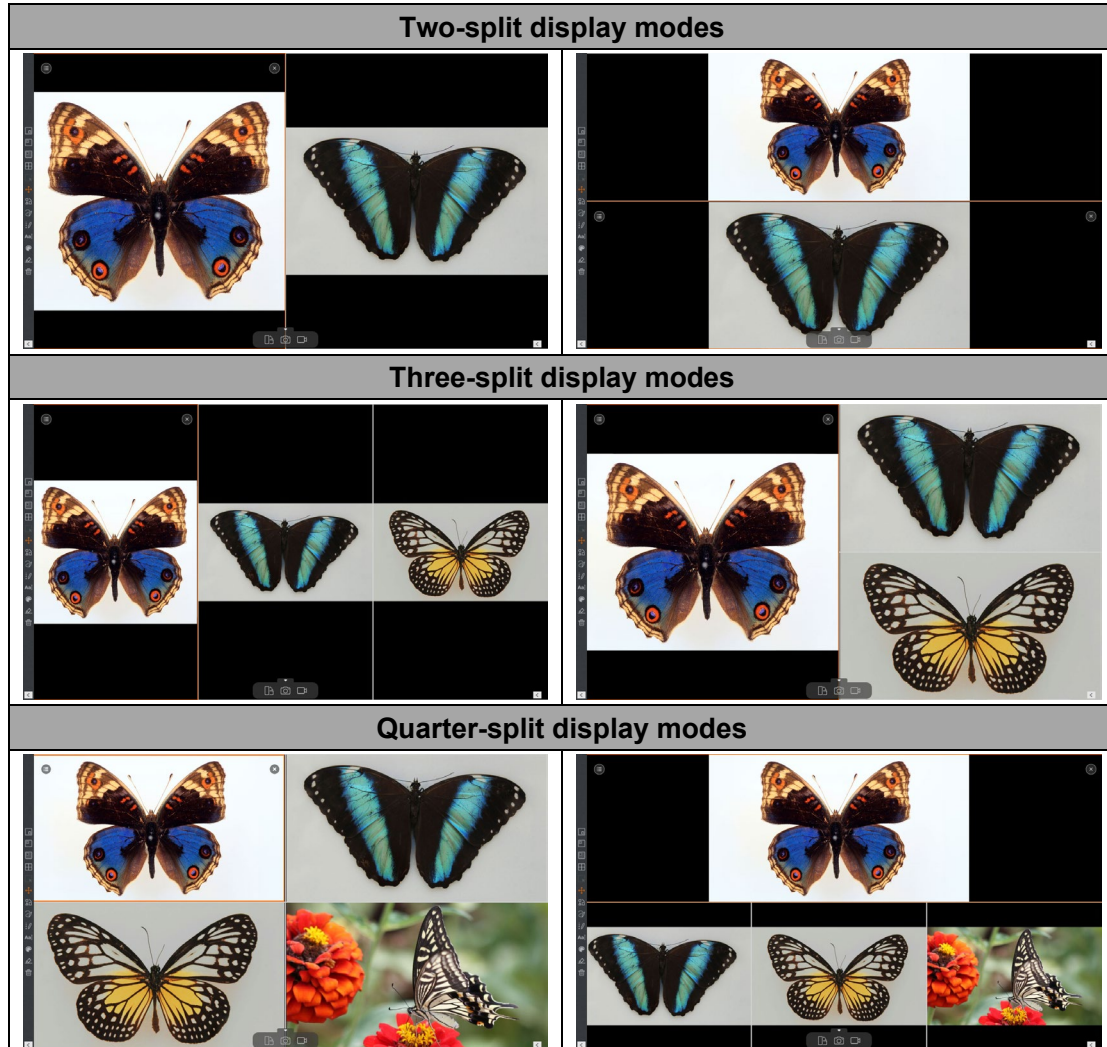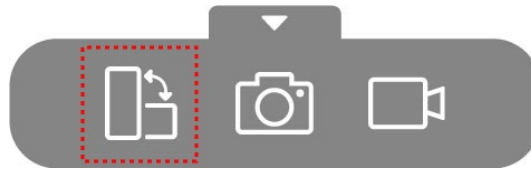

3. You can zoom in or out and rotate the image for the best view.

NOTE: The split-screen mode supports comparing up to 4 images at a time.

5.4. Change the display layout

The split-screen mode allows you to change the display layout by clicking the switch button.

Two-split display modes

Three-split display modes

Quarter-split display modes

NOTE: To remove one of the split windows, click the icon ✕ in the top-right corner of the window you want to remove.

6. Whiteboard Mode

The whiteboard mode allows you to draw and annotate on the interactive whiteboard. In this mode, you can drag and drop selected images from the right-side file list onto the whiteboard and add annotations to enhance class interactivity.
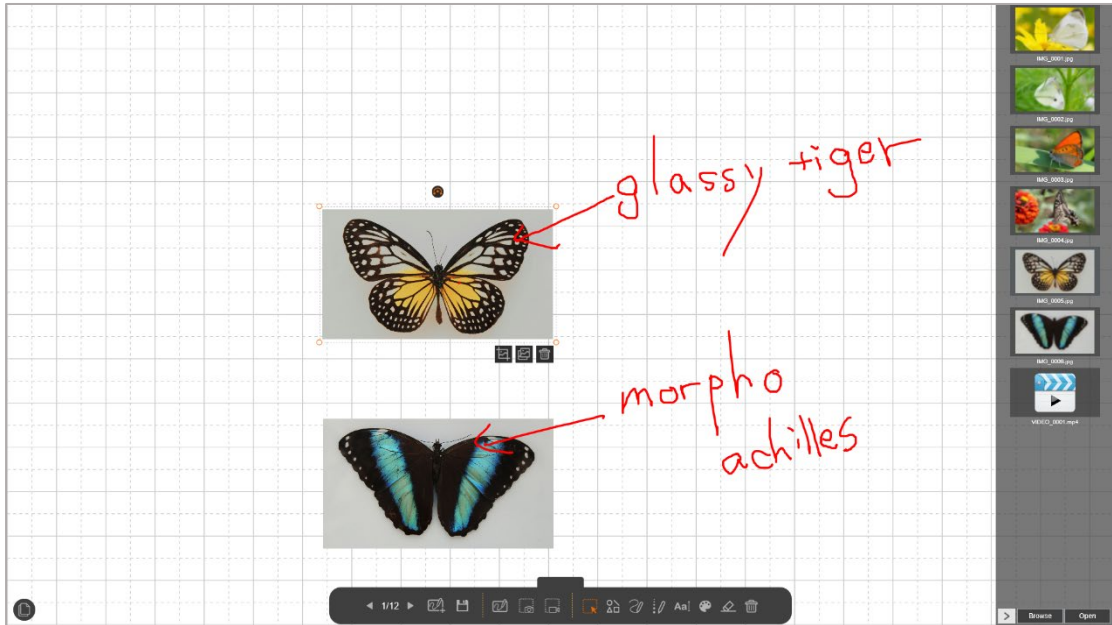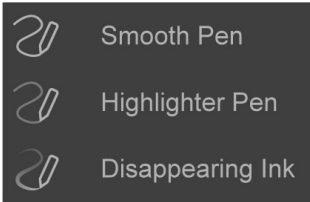
6.1. Whiteboard Toolbar interface

Whiteboard mode provides a multi-page canvas with all the drawing tools you need.
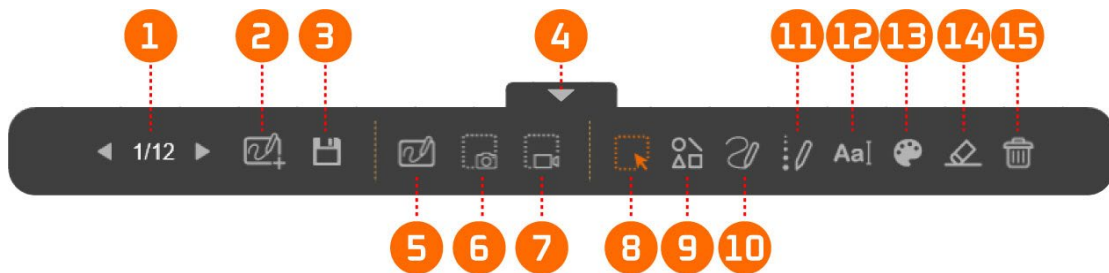
Item	Icons	Descriptions
1	◀ 1/12 ▶	**Previous page / next page** Click to navigate to the previous or next page
2		**Add a page** Select a background and create a new page.
3		**Save** Save the current whiteboard pages as a PDF file.

|		
4	▲	**Hide/show** Hide or show the toolbar
5	🖉	**Switch modes** You can choose from the following 3 modes. ● 🖉 **Whiteboard Mode**: This default mode allows you to use the digital whiteboard. ● 🖉 **Annotation Mode**: This mode changes the whiteboard canvas to your Windows desktop, allowing you to annotate over any open software or application. ● ⬉ **Mouse Mode**: In this mode, the pen tool changes to a mouse, letting you control other software.
6	📷	**Screenshot** Choose either full screen or a selected area, then take a screenshot. ⤢ Full Screen ⬗ Select Area
7	🎥	**Screen recording** Record the session.
8	⬚	**Select** Select the annotation and object on the page.
9	○◻△◻	**Shape Tool** Select shape and add it to the page. ◻ ◼ △ ▲ ○ ● ╱ ╱ ↗ ⤢
10	🖉	**Pen Tool** Select the pen type from the 3 available options and use it to annotate 🖉 Smooth Pen 🖉 Highlighter Pen 🖉 Disappearing Ink
11	⋮🖉	**Line Option** Set the line thickness of pen and shapes.
12	AaI	**Text Tool** Add texts.
13	🎨	**Color Option** Set the color of annotations, shapes, and text.
14	◇	**Eraser** Erase annotations, texts, shapes and images on the screen.
15	🗑	**Clear All**

|		Clear all annotations, texts, shapes and images on the current page.

6.2. Add an image to the whiteboard

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

1. Drag an image from the list and drop it onto the whiteboard.
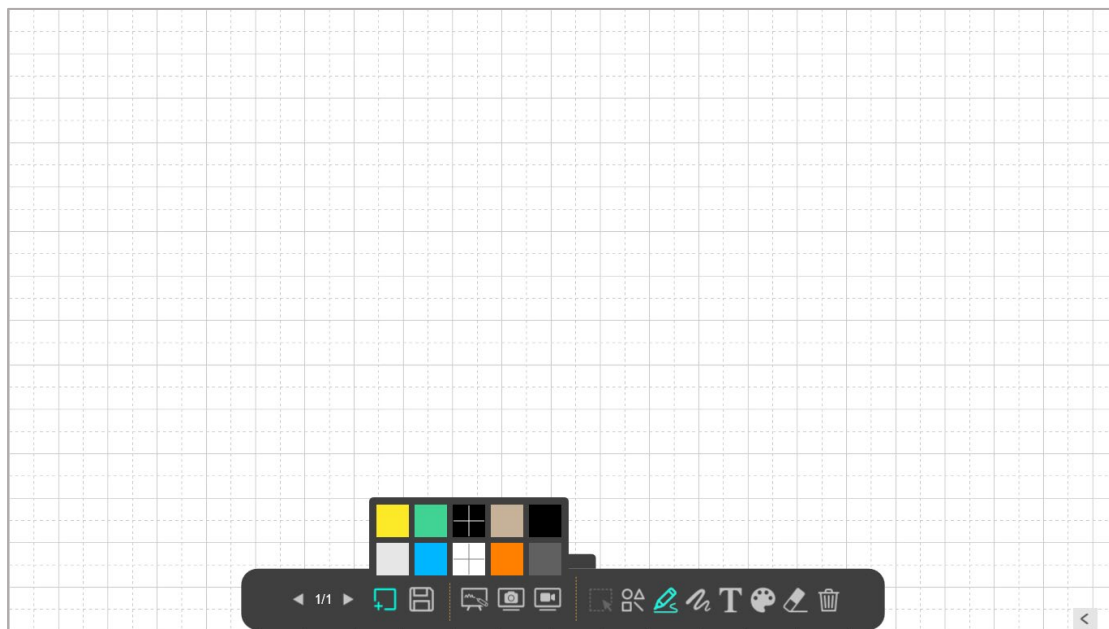2. You can crop, duplicate, or remove images as needed.
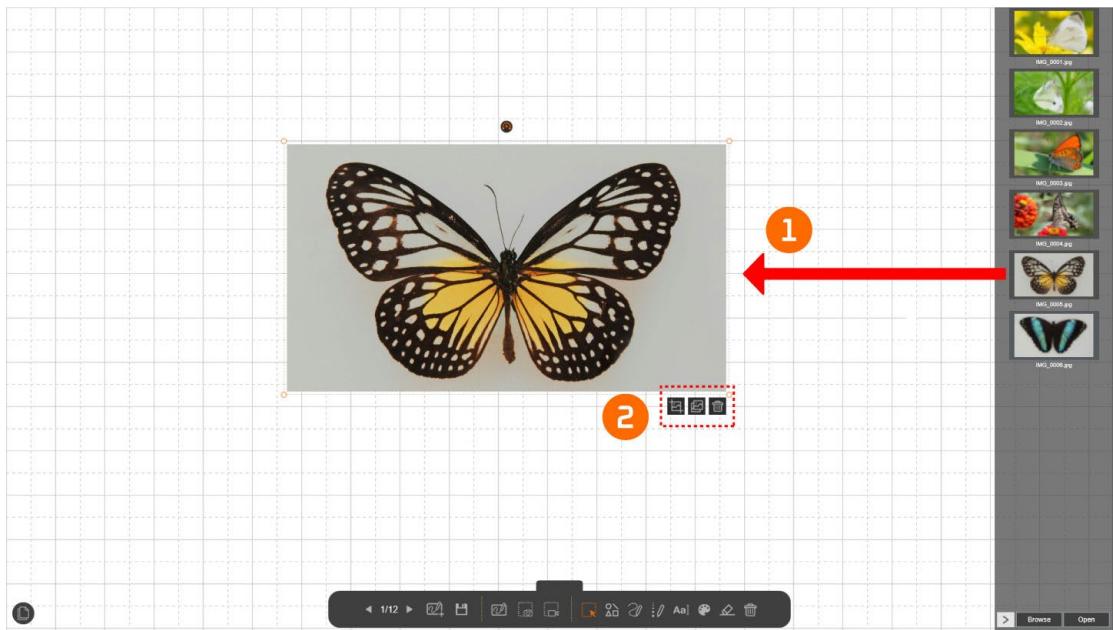
3. You can also use the rotation handle ⌒ to rotate images or use the resize handles to adjust the image size.
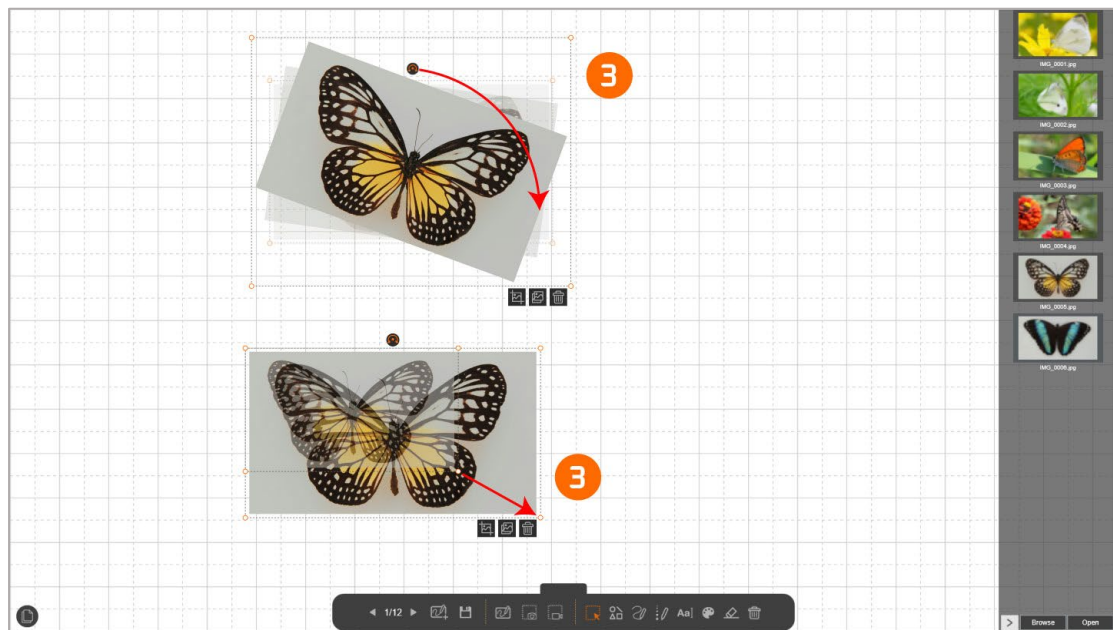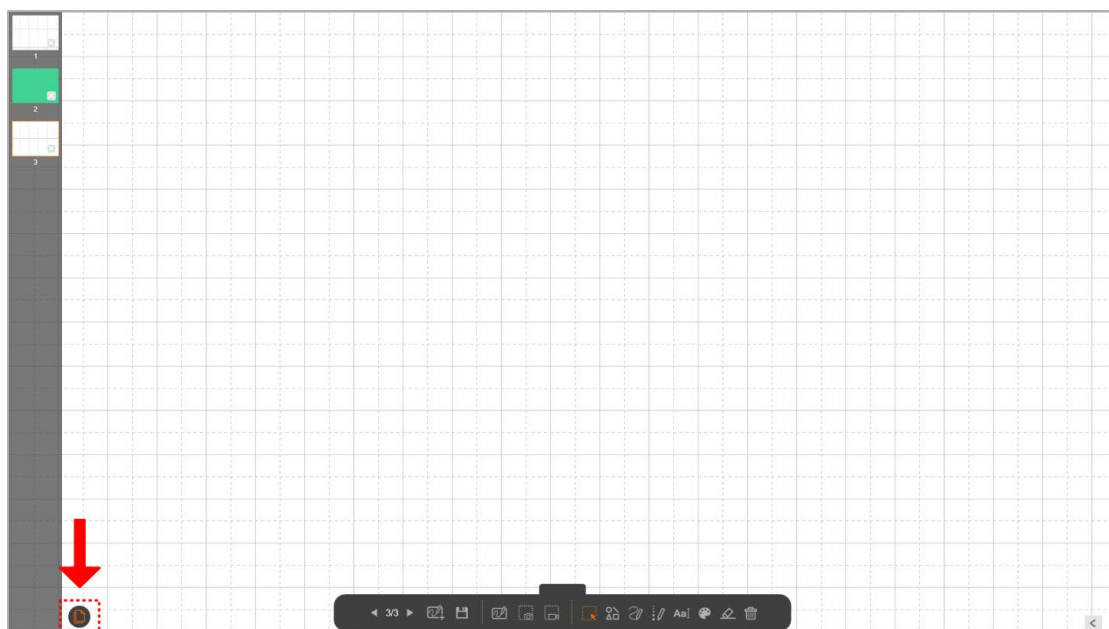
6.3. Add a whiteboard page

To add a whiteboard page, click Add page icon ✍ and choose a background color.

You can also click the 🗋 icon to display the page navigation and select the page to view.

7. Troubleshooting

If Ideao VisualCam does not detect the connected device, please check the following.

- Ensure you are using a supported camera.

If you are using a third-party document camera, you may not have access to all of the software's functions. Only Ideao DC400 and Innex DC500 are supported.

- Try Changing the USB port

If the visualizer is connected to the PC along with other USB devices, try after disconnecting the other devices

**- Ensure that the visualizer is not being used by any other application.**

Check if the camera is being used by other applications in Windows. If so, exit those applications and try again.

- Turn off the virtual machine

If your Mac is running a Windows virtual machine (e.g., "Parallels Desktop"), please turn it off and reconnect the device.

- Check the USB connection

Ensure that Windows recognizes the device under "Cameras" in the Device Manager. If the device is not detected, try connecting it to a different USB port.
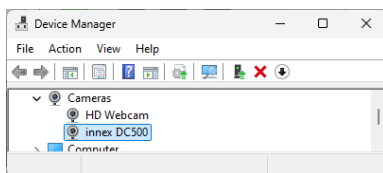
- For Windows 10 / 11 computer

Go to " Privacy & security" > "Camera" to check please ensure the following.

1. 'Camera access' is turned on
2. 'Let desktop apps access your camera' is turned on.
3. Ideao VisualCam is in the list