



Ladibug™ 4K
Visual Presenter Image Software
User Manual - English

Table of Contents

1. Introduction.....	3
2. System Requirements.....	3
3. Install Ladibug™ 4K	4
3.1 Install with Windows Vista / 7 / 10	4
4. Connection to the Hardware.....	6
5. Start to Use Ladibug 4K.....	7
5.1 Use the USB cable to connect the computer and camera.....	7
5.2 Use the image sharing server to connect the computer and camera	7
6. Operation Interface Description	9
6.1 Software screen description	9
6.2 Image browser thumbnail	12
6.3 Large picture of image browser	13
6.4 Camera Settings (image setting)	14
6.5 Time Lapse (Burst Settings)	15
6.6 Annotation Settings (settings of annotation tool)	16
6.7 Setting (Advanced).....	17
7. Function Descriptions.....	18
7.1 I would like to turn on/off camera.....	18
7.2 I would like to optimize the image	18
7.3 I would like to freeze the live image.....	18
7.4 I would like to turn on/off the lamp.....	18
7.5 I would like to zoom in/out images	18
7.6 I would like to adjust the brightness	18
7.7 I would like to capture images	18
7.8 I would like to capture images continuously	18
7.9 I would like to record	19

7.10 I would like to annotate the displayed image	19
7.11 I would like to add textual annotation to images	20
7.12 I would like to use the mask mode	20
7.13 I would like to use the spotlight mode.....	20
7.14 I would like to manage stored image	20
7.15 I would like to change the operating languages of the software	21
7.16 Change the setting of firewall	21
8. Troubleshooting	23

1. Introduction

After installing the Ladibug™ 4K software, you can use the following functions:

- Control the Visual Presenter.
- Capture and record images
- Annotate the image, highlight important details and save it.
- Support the full screen function.

2. System Requirements

2.1 Windows Vista / 7 / 10

- Min CPU: Intel Core 2 Duo 2 GHz or above
- Min Memory: 1 GB (32-bits)/2 GB (64-bits) RAM
- Supporting Direct X 9 (WDDM 1.0 or later)
- Min Resolution 1024 x 768
- Min Hard Drive Space: 1 GB

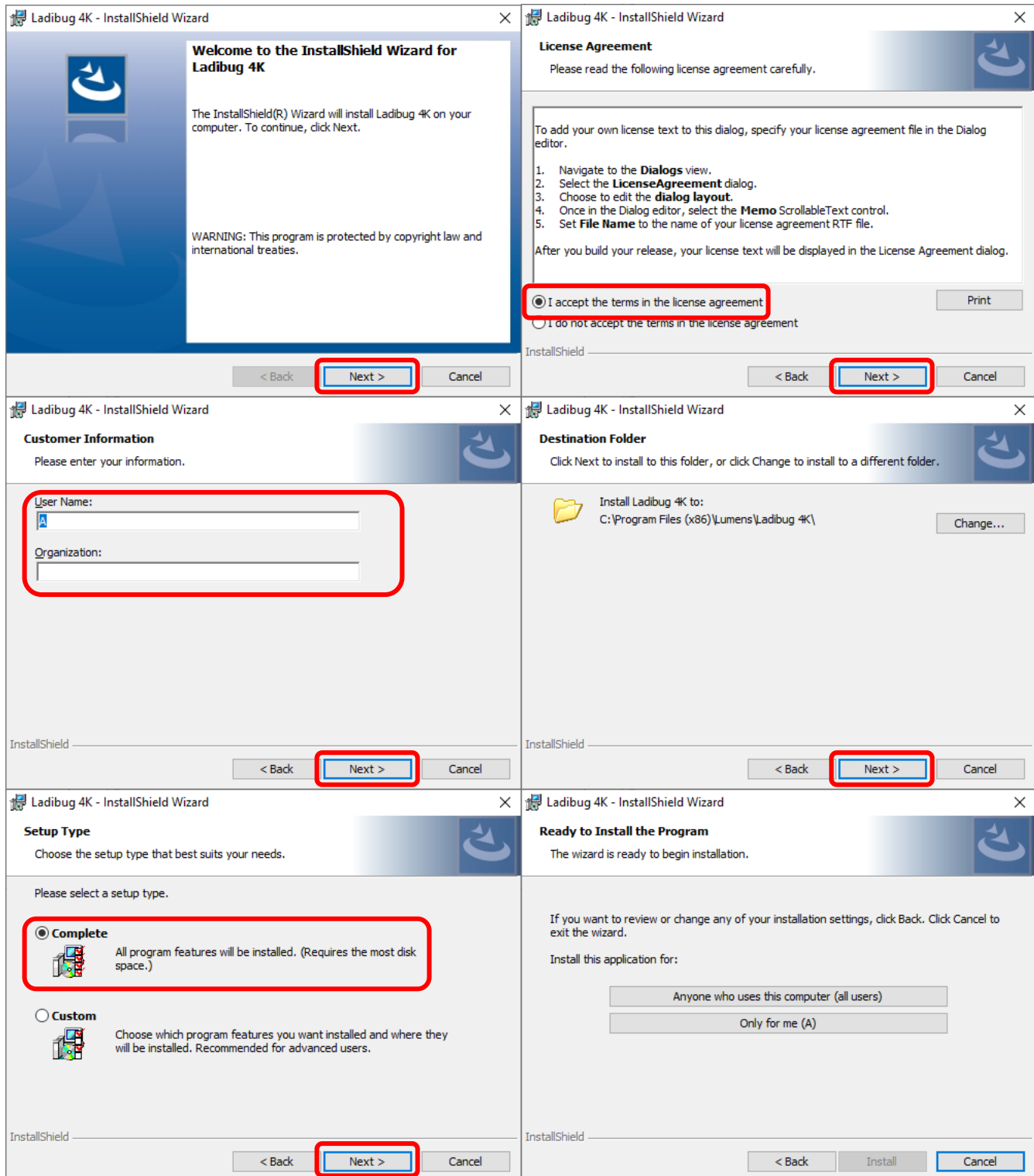
2.2 4K Recording

- Min CPU: Intel i7 generation 6th or above
- Min Memory: 4 GB (32-bits)/4 GB (64-bits) RAM
- Supporting Direct X 9 (WDDM 1.0 or later)
- Min Resolution: 1920 x 1080
- Windows 10 (64 bits)
- GPU: Support H.264 hardware encoding

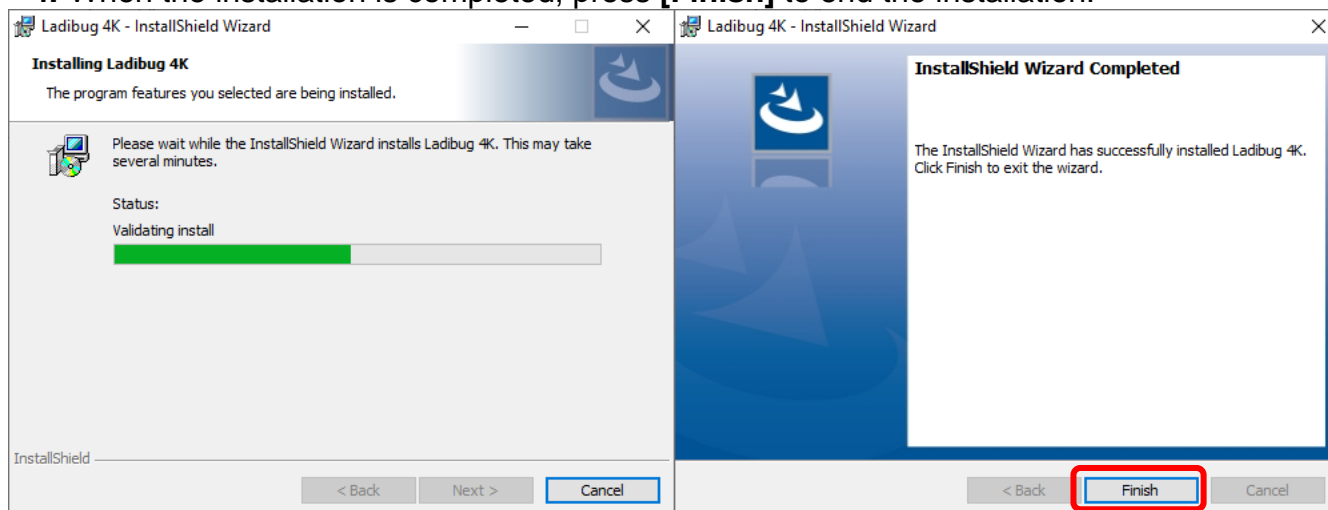
3. Install Ladibug™ 4K

3.1 Install with Windows Vista / 7 / 10

1. Please download **Ladibug™ 4K** software at **Lumens** website.
2. Extract the file downloaded and then click **[Ladibug 4K]** to install.
3. The installation wizard will guide you through the process. Please follow the on-screen instructions and press **[Next]** for the next step.



4. When the installation is completed, press **[Finish]** to end the installation.

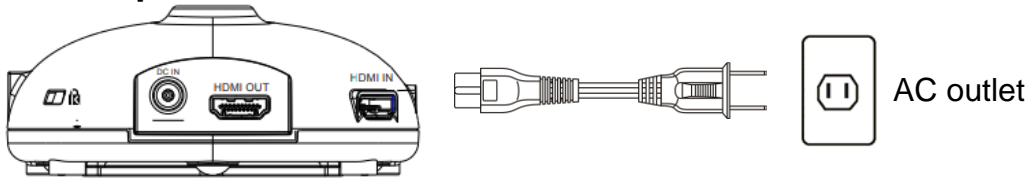


4. Connection to the Hardware

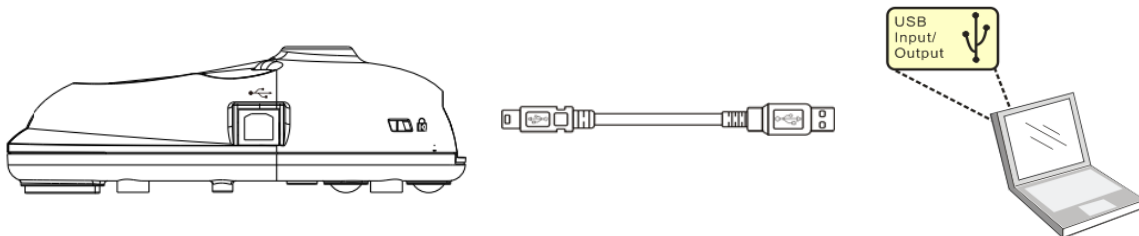


<Very Important> To ensure successful installation, please follow each of the following steps.

4.1 Connect the power cord of the Visual Presenter.



4.2 Connect USB cable to the Visual Presenter and your computer.



4.3 Turn on Power .

5. Start to Use Ladibug 4K

5.1 Use the USB cable to connect the computer and camera



1. Double click the **[Ladibug 4K]** icon and start **Ladibug™ 4K**.
2. If firewall warning occurs in the first use, please check the **[LAN]** and then press **[Allow to Access]**.
 - **Safety Alert:** Click **[Unblock]**.
 - **POWER Frequency** setting page, please complete the settings following the instructions on the screen.
A live image is displayed when the setting is finished.
3. Start Using.

[Description] If no image is displayed, click , open **[Search Window]**, and select **[USB Visual Presenter]**.

5.2 Use the image sharing server to connect the computer and camera


Complete image sharing settings for the camera before implementing this method.

- **Equipment requirements:**
 - (1) Two computers with Internet access
 - (2) One camera

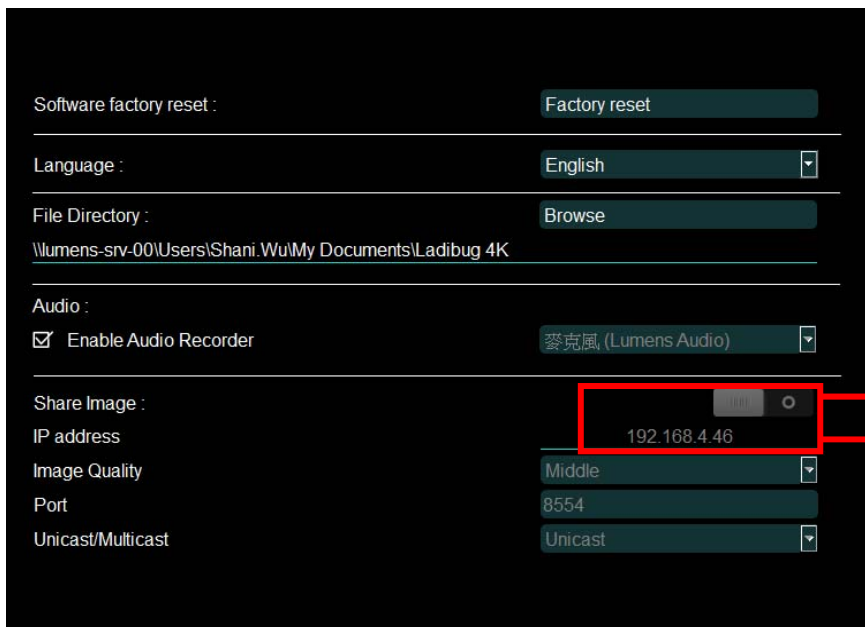
5.2.1 Turn on the image sharing function

Connect one of the computers to the camera using a USB cable and turn on the image sharing function according to the following instructions:

To connect using a USB cable, please refer to [5.1 Use the USB cable to connect the computer and camera](#)

- Click  to switch to the function settings page.
- Click **[Share Image]** to activate image sharing function.

[Description] Take note of the server address for image sharing, manually input the address on computers with different network segments to connect.





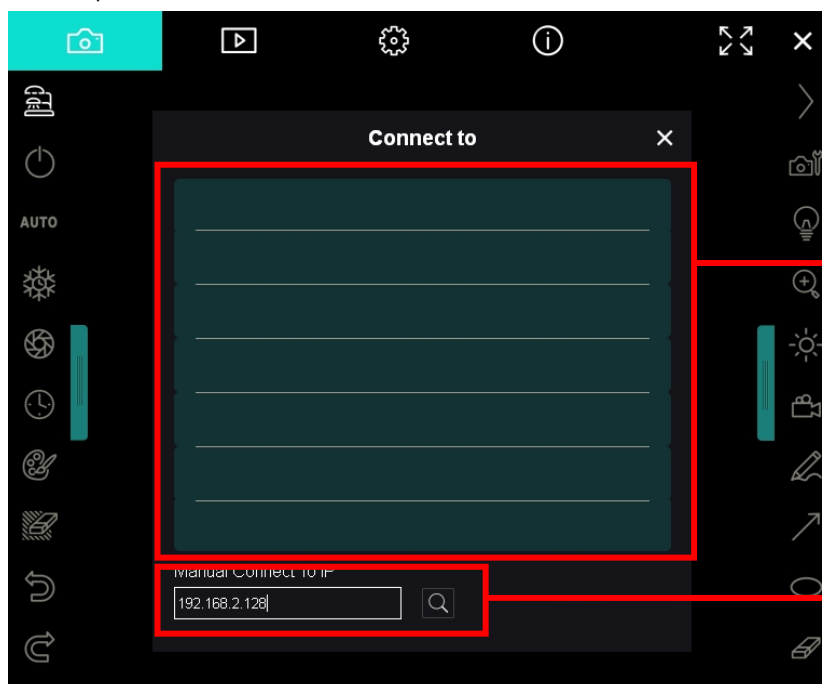
Turn image sharing on/off.

Server address for image sharing

5.2.2 Connect to the image sharing server

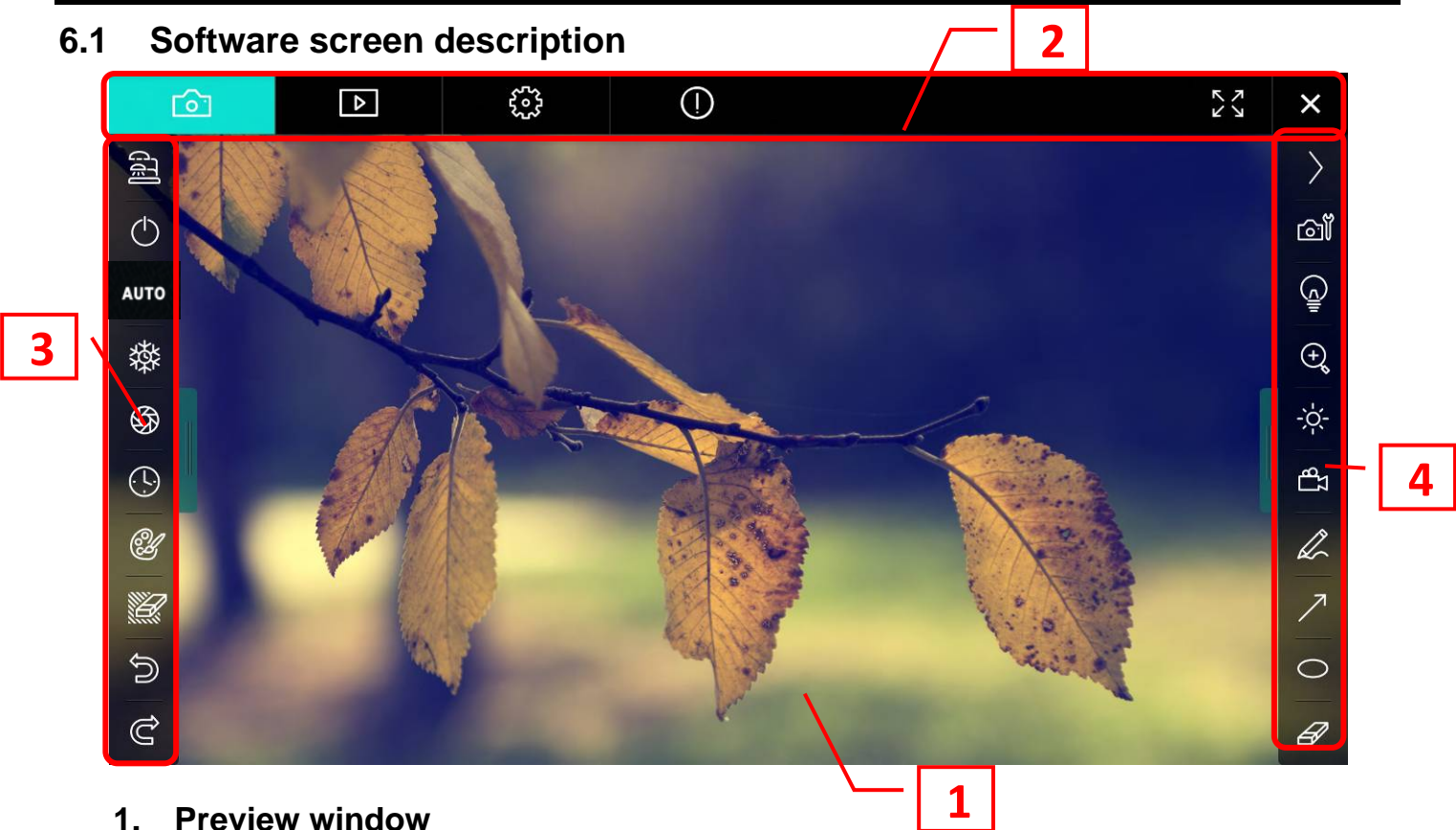
Use the Internet to connect the camera to the image sharing server through the following steps:

- Click , to open **[Search Window]**.
- Select **[Image Sharing Server]**.
- After automatic search is completed, select camera from the table to connect.
- If the camera does not appear on the table, manually input the IP address of the image sharing server (e.g. 192.168.2.128).
- Click , to connect.



6. Operation Interface Description

6.1 Software screen description














1. Preview window

2. Page switch

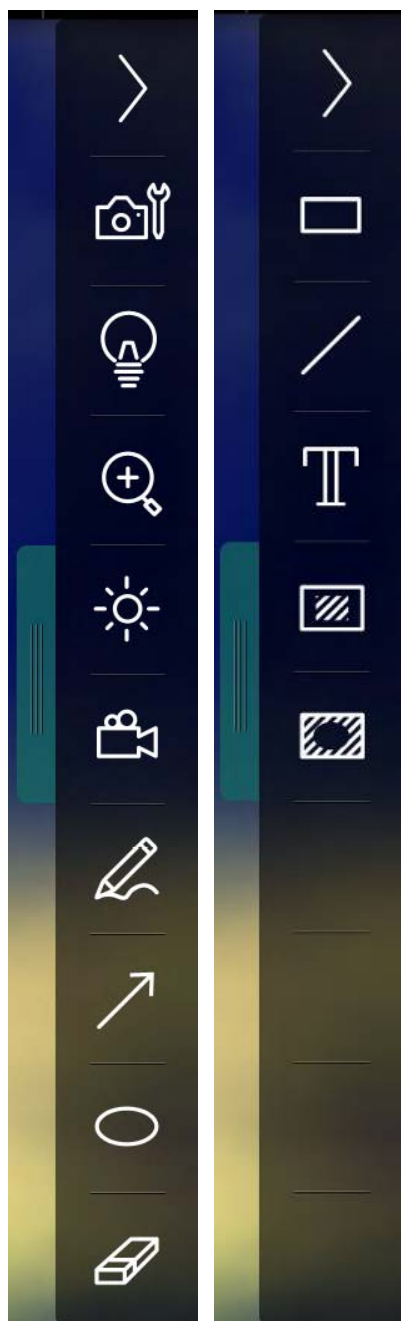
Icon	Function Descriptions
	Real-time image
	Image browser page
	Function settings page
	Software information page
	Switch to Full Screen
	Disable Ladibug 4K
















3. Left function menu



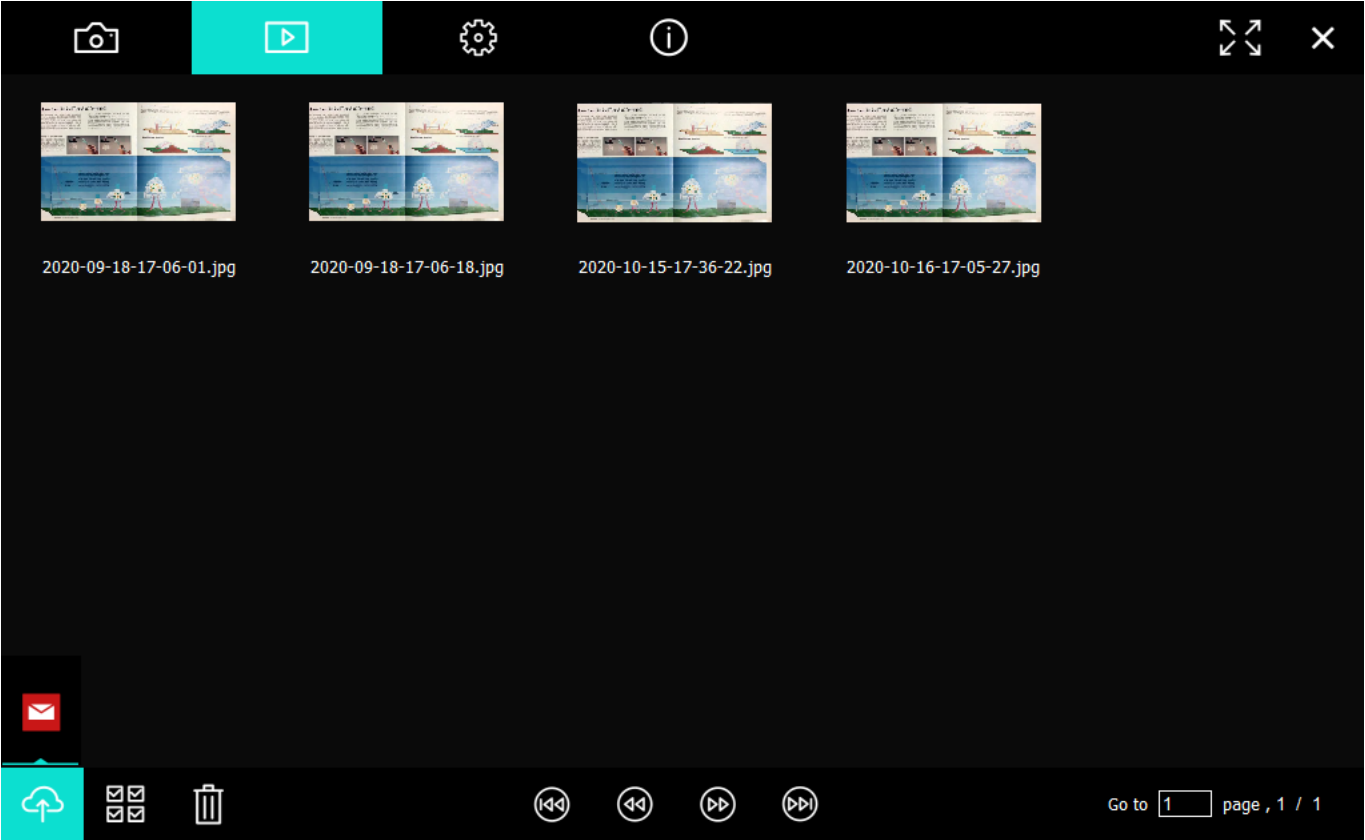
Icon	Function Descriptions
	Select the connection mode of camera
	Turn on/off the Visual Presenter (does not support USB models)
	Auto Focus
	Freeze
	Capture
	Time Lapse
	Setting of annotation tool
	Eraser (Clear all the objects)
	Recover
	Redo
	Fold the menu











4. Right function menu



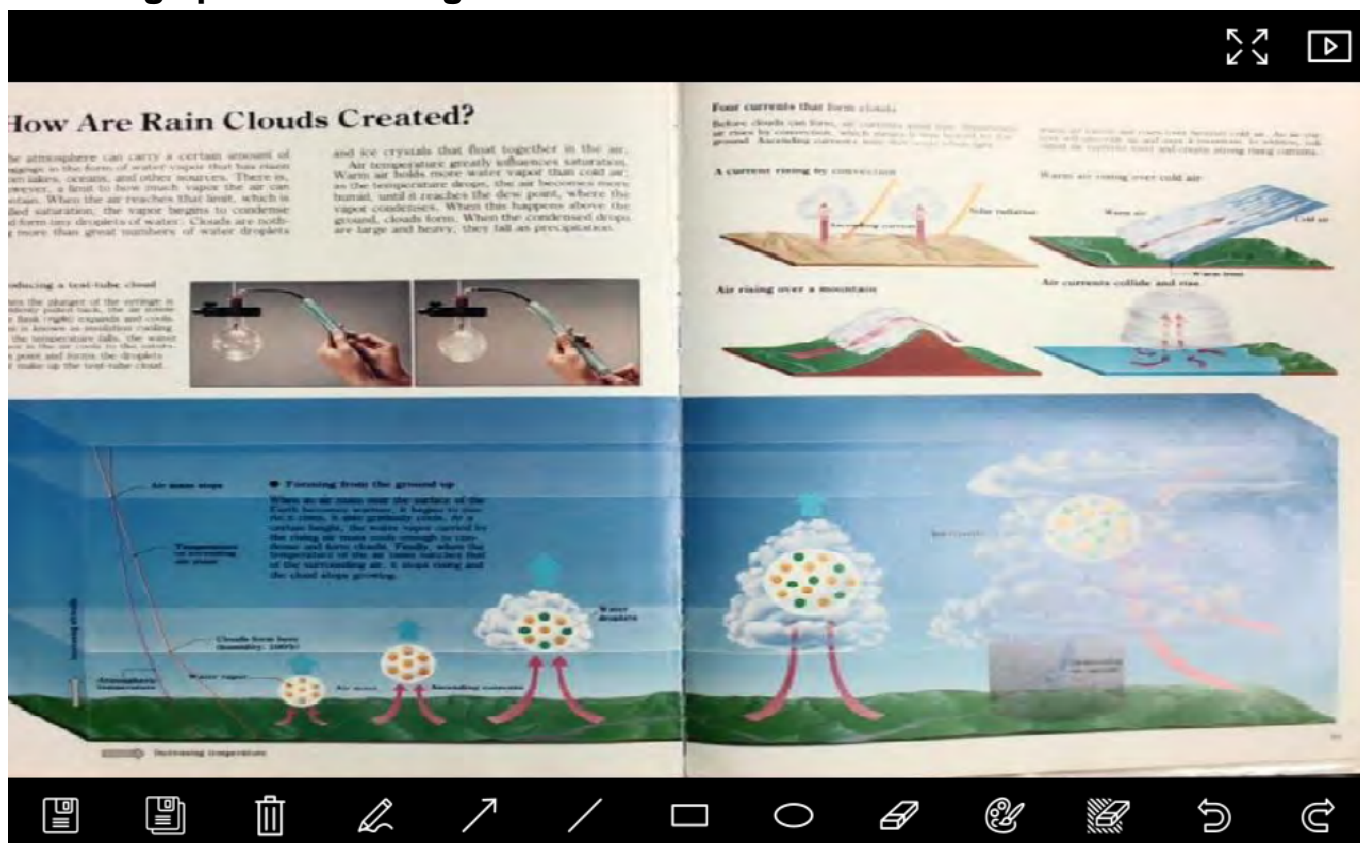
Icon	Function Descriptions
	Switch function menus
	Image setting
	Lamp On/Off
	Zooming in/out the image
	Brightness
	Recording; this function is not supported in Wireless mode and Share Image mode
	Free-hand drawing tool
	Arrow
	Circling tool
	Eraser
	Draw a rectangle
	Draw a line
	Edit text
	Mask Mode
	Spotlight Mode
	Fold the menu














6.2 Image browser thumbnail



Icon	Function Descriptions	Icon	Function Descriptions
	Upload the file to the cloud		Move to the previous page
	Send e-mail		Move to the next page
	Select All		Move to the last page
	Delete		Move to a given page
	Move to the first page		Current page/total number of pages

6.3 Large picture of image browser



Icon	Function Descriptions	Icon	Function Descriptions
	Save files		Circling tool
	Save as a new file		Eraser
	Delete		Setting of annotation tool
	Free-hand drawing tool		Eraser (Clear all the objects)
	Arrow		Recover
	Draw a line		Redo
	Draw a rectangle		

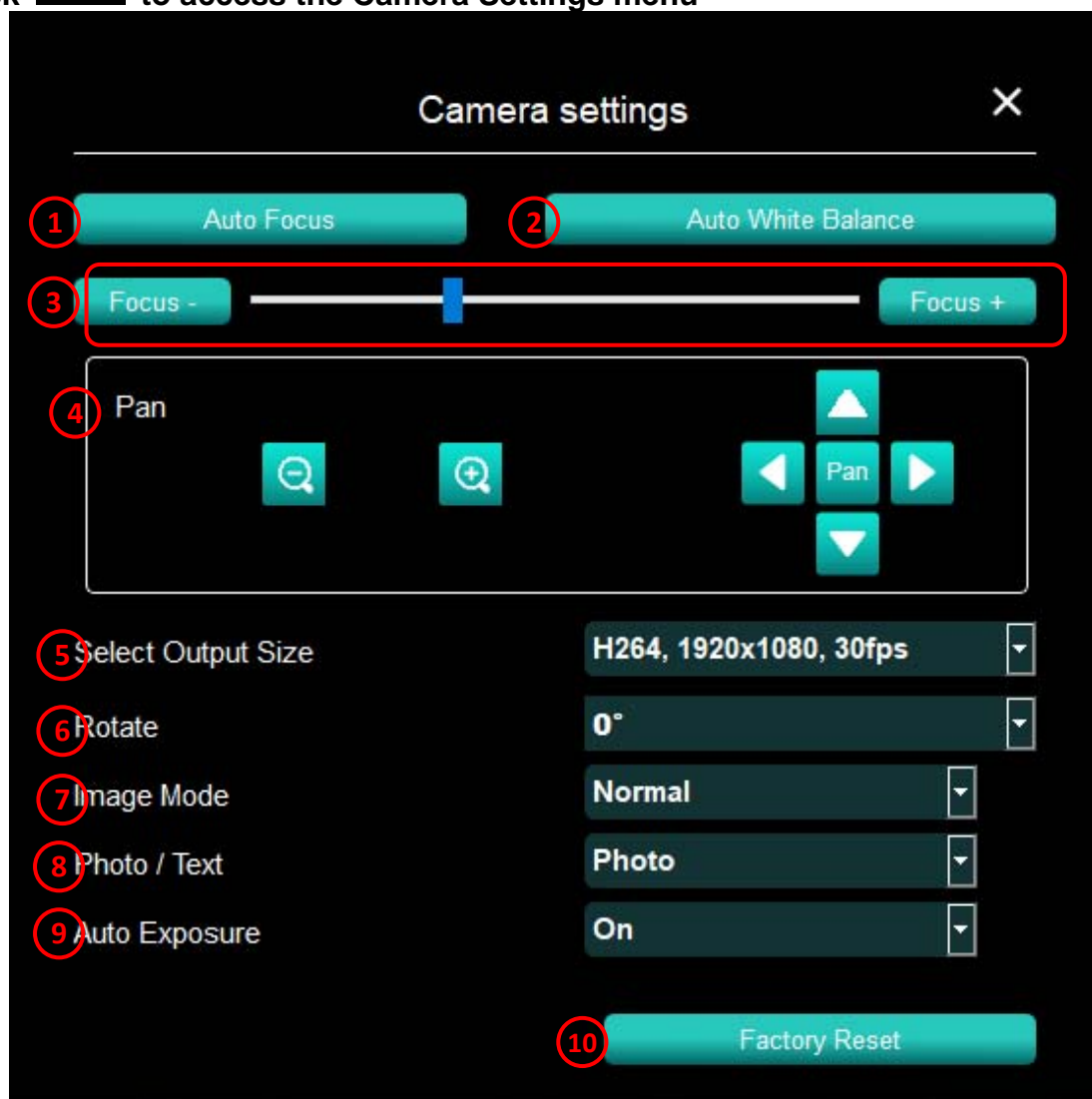
6.4 Camera Settings(image setting)

Control the live image via the Camera Settings interface.

The operating procedure is the same as the **control panel** and **remote control** of the Visual Presenter.

[Description] The display of the button may vary depending on product functions. An inactive button will grey out.

Click  to access the Camera Settings menu

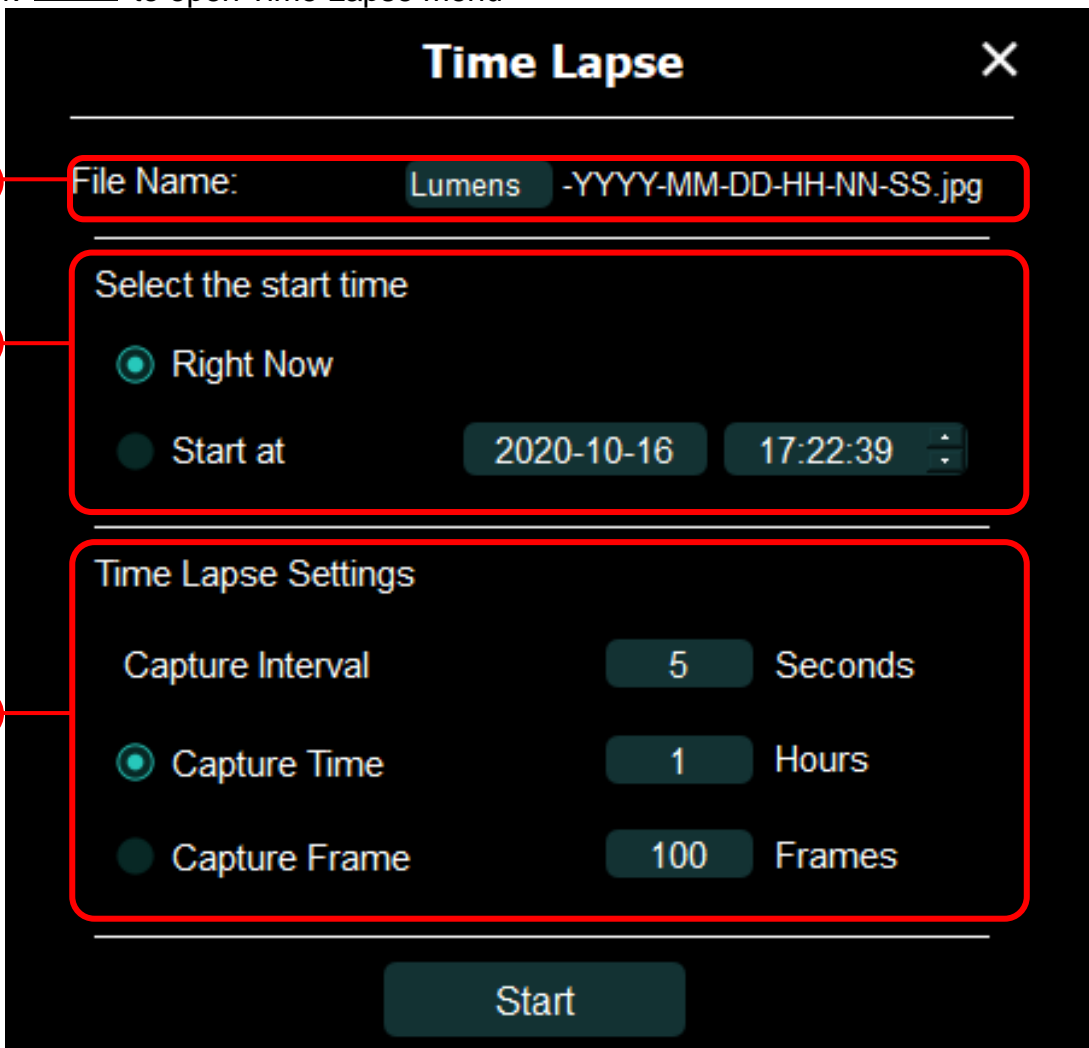


No.	Item	Function Descriptions
1.	Auto Focus	Adjust the best focal length
2.	Auto White Balance	Adjust the optimal white balance
3.	Focus	Manually adjust focal length on an object
4.	Pan	Manually adjust the short or long distance viewing and position of the lens
5.	Select Output Size	Set output resolution

6.	Rotate	Rotate the image: 0°/180°/Flip/Mirror
7.	Image Mode	Switch the Image mode Normal/Film/Slide/Microscope
8.	Photo/Text	Set up Photo/Text mode
9.	Auto Exposure	Set on/off auto exposure
10.	Factory reset	Reset Visual Presenter to defaults

6.5 Time Lapse (Burst Settings)

Click  to open Time Lapse menu



The screenshot shows the 'Time Lapse' menu with a close button (X) in the top right corner. It is divided into three sections, each highlighted with a red box and a numbered callout:

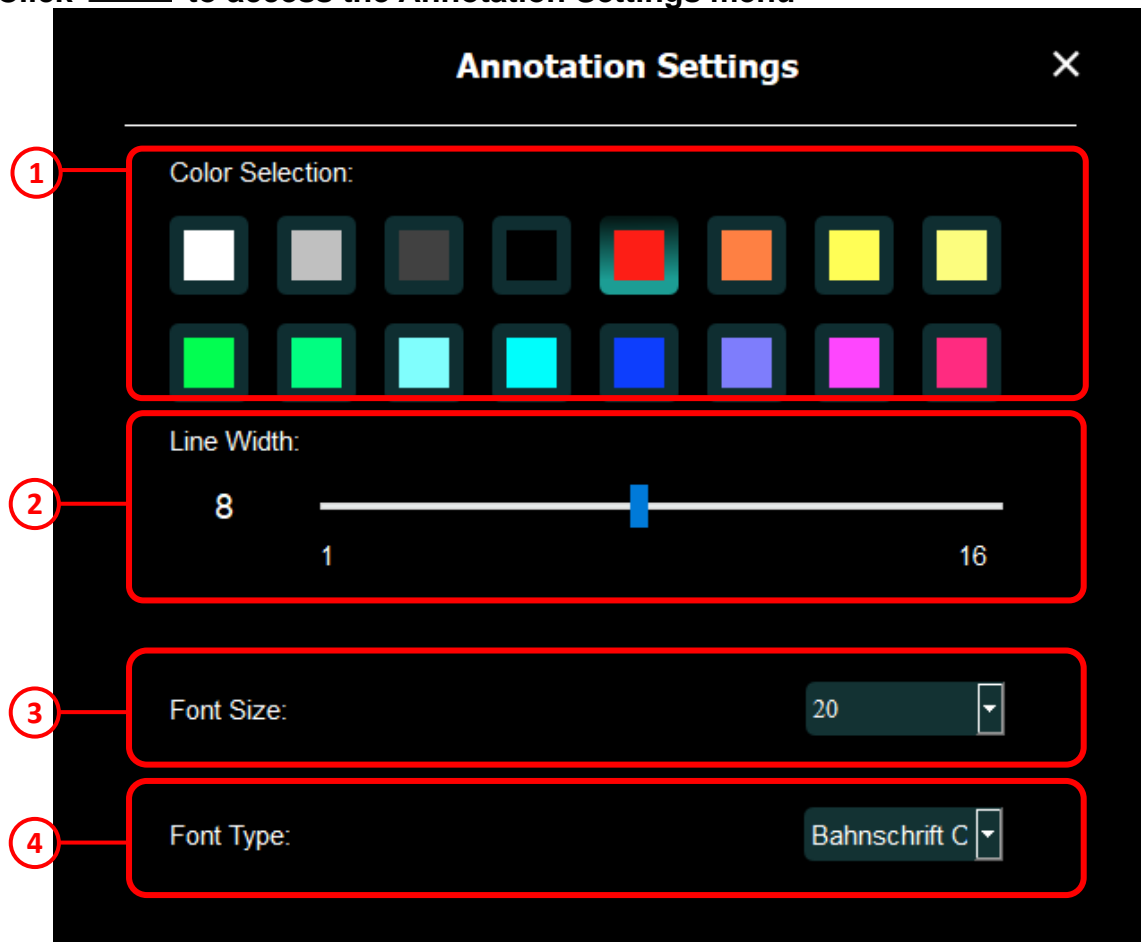
- 1** **File Name:** A text input field containing 'Lumens -YYYY-MM-DD-HH-NN-SS.jpg'.
- 2** **Select the start time:** A section with two radio button options: 'Right Now' (selected) and 'Start at'. The 'Start at' option is accompanied by two date/time pickers showing '2020-10-16' and '17:22:39'.
- 3** **Time Lapse Settings:** A section with three settings: 'Capture Interval' set to '5 Seconds', 'Capture Time' set to '1 Hours' (selected with a radio button), and 'Capture Frame' set to '100 Frames'.

A 'Start' button is located at the bottom of the menu.

No.	Item	Function Descriptions
1.	File Name	Specify a file name
2.	Select the start time	Set the start time
3.	Time Lapse Settings	Set the capture interval and the capture time


6.6 Annotation Settings (settings of annotation tool)

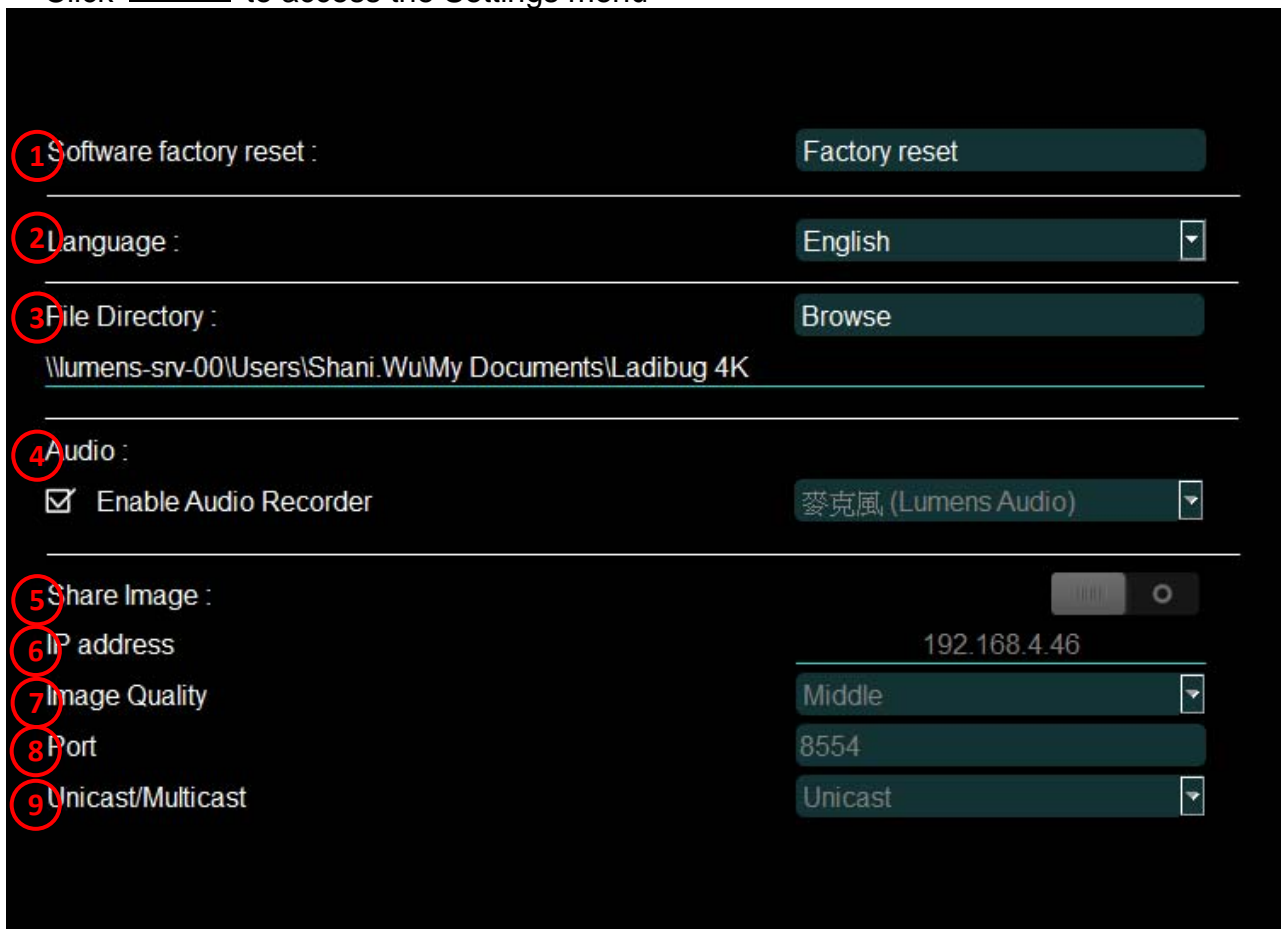
Click  to access the Annotation Settings menu



No.	Item	Function Descriptions
1.	Color Selection	Set the pen color
2.	Line Width	Select the line width
3.	Font Size	Select the font size
4.	Font Type	Select the font type

6.7 Setting (Advanced)

Click  to access the Settings menu




The screenshot shows the 'Setting (Advanced)' interface with the following items highlighted by red circles and numbered 1 through 9:

- 1 Software factory reset : Factory reset
- 2 Language : English
- 3 File Directory : Browse
\\lumens-srv-00\Users\Shani.Wu\My Documents\Ladibug 4K
- 4 Audio :
☒ Enable Audio Recorder 麥克風 (Lumens Audio)
- 5 Share Image : ☐
- 6 IP address 192.168.4.46
- 7 Image Quality Middle
- 8 Port 8554
- 9 Unicast/Multicast Unicast

No.	Item	Function Descriptions
1.	Software factory reset	Reset to the default value
2.	Language	Select language
3.	File Directory	File storage path
4.	Audio	Click Enable Audio Recorder to activate recording function and select audio output device
5.	Share Image	Share Image; this function is not supported in Wireless mode
6.	IP address	Server IP address for image sharing
7.	Image Quality	Select image quality (high/medium/low)
8.	Port	Enter port settings (8500 ~ 9000)
9.	Unicast / Multicast	Select cast type

7. Function Descriptions



7.1 I would like to turn on/off camera

- Click  to turn on/off the camera.


7.2 I would like to optimize the image

- Click .


7.3 I would like to freeze the live image

- Click  to freeze the live image of Ladibug™ 4K.
- Click  once again to lift the freeze.


7.4 I would like to turn on/off the lamp

- Click  to turn on/off the camera lamp.

7.5 I would like to zoom in/out images

- Click  to open the scroll to adjust images.
- Move rightward to zoom in the image, or leftward to zoom out the image.

7.6 I would like to adjust the brightness

- Click  to open the brightness scroll.
- Move rightward to increase brightness, or leftward to decrease brightness.


7.7 I would like to capture images

- Click  to capture images.

<Note> When the images are captured, please view the images on the image

browser page 

7.8 I would like to capture images continuously





- Click  to open burst mode setting. Click [OK] after setting.

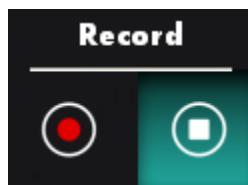
<Note> Refer to [6.5 Time Lapse \(Burst Settings\)](#) for more information about Time Lapse setting

<Note> When the images are captured, please view the images on the image

browser page 

7.9 I would like to record

- Click  to open the recording tool.
- Click  to start recording.
- Click  to stop recording.
- Click  to close the recording tool.




<Note> You can add annotation tool when recording but cannot save it

<Note> The recording function is not available when connecting to the image sharing server or wireless network

7.10 I would like to annotate the displayed image

<Note> To annotate the stored images, please open the images on the image

- browser page  Select an annotation tool.



- Mark or annotate the displayed image.




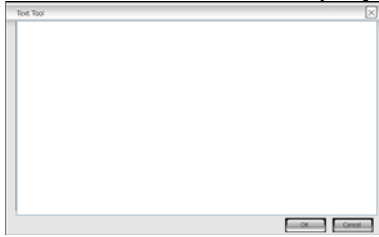
<Description> You can Click  to capture images if they are live images.

If the image files are opened on image browser page ,


press the  [SAVE] or  [SAVE AS] to save files




7.11 I would like to add textual annotation to images




- Select .
Click the screen to display the [Text Tool] window





Enter text in the blank area and press [OK]

<Description> You can Click  to capture images if they are live images.




If the image files are opened on image browser page , you can press the  [SAVE] or  [SAVE AS] to save files.

<Description> You can click  to capture images if they are live images. You can click  [SAVE] or  [SAVE AS] to save files if they are image files.

7.12 I would like to use the mask mode

- Click  to open the mask mode.
You can use the mouse to directly modify the length and the width of the block.
- Click  to close the mask mode.

7.13 I would like to use the spotlight mode

- Click  to open block mode.
You can use the mouse to directly modify the length and the width of the block.
- Click  to change the spotlight shape.
- Click  to close the spotlight mode.

7.14 I would like to manage stored image


Please switch to Image browser page to go through the following steps


7.14.1 Browse images

- Open the Image browser page to view the thumbnails of stored images
- Click on the rightward/leftward icon to switch to another page, or enter numbers to switch to a given page



- Double click on the image to display a large picture





- Click  to switch to Full Screen

- Click  to return to image thumbnails

7.14.2 Delete Image


- Click the image or click Select All 
- Then click Delete  to delete the selected image

7.14.3 Share images

- : Send by E-mail
 1. Click the image or click Select All 
 2. Click  to select how to upload images 
 3. Enter recipient, subject, and content, and click “Send”

[Description] Email settings must be completed before sending images via email. Change settings according to the instructions of various operating systems and ISPs.

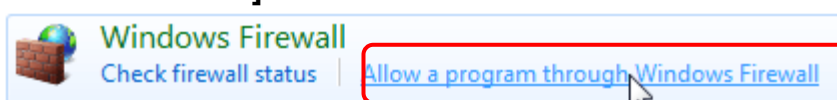
7.15 I would like to change the operating languages of the software

- Switch to settings page 
- Select language
- Restart the Ladibug 4K

7.16 Change the setting of firewall

7.16.1 Windows 7

1. Select **[Console]** in **[Start]** menu.
2. Click **[System and Security]**, and then click **[Allow a program through Windows Firewall]**.



[Description] Click **[Windows Firewall]** in the icon view of **[Console]**.

3. Select **[Change settings]** in **[Allowed programs and features]** window.

Allow programs to communicate through Windows Firewall

To add, change, or remove allowed programs and ports, click Change settings.

What are the risks of allowing a program to communicate?

Change settings

Allowed programs and features:

Name	Home/Work (Private)	Public
<input type="checkbox"/> Secure Socket Tunneling Protocol	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> SNMP Trap	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Windows Collaboration Computer Name Registration Service	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Windows Firewall Remote Management	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Windows Management Instrumentation (WMI)	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Windows Media Player	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Windows Media Player Network Sharing Service	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Windows Media Player Network Sharing Service (Internet)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Windows Peer to Peer Collaboration Foundation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Windows Remote Management	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Wireless Portable Devices	<input type="checkbox"/>	<input type="checkbox"/>

Details...

Remove

Allow another program...

4. Please select [**Ladibug 4K**] program in the list.
5. If **Ladibug 4K** was not listed, please click [**Allow another program**], and then you will find **Ladibug 4K** program.
6. Select [**Ladibug 4K**], and then click [**Add**]. If it was not listed, please click [**Browse**], select **Ladibug 4K** program, and then click [**Enable**].
[Description] **Ladibug 4K View** may be displayed in the form of **Ladibug 4K.exe**.
7. Click [**OK**] in [**Allowed Program**] window.
8. Close [**Windows Firewall Setting**] window.

8. Troubleshooting

This chapter describes problems you may encounter while using **Ladibug 4K**. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact your distributor or the service center.

No.	Problems	Solutions
1	When the recording function is enabled, the preview screen appears to have a green picture, broken image, or the store files respond abnormally	When the computer is underperforming and the recording function is used, the preview screen may appear to be a green picture, broken image or the stored files will be displayed abnormally. It is recommended to reduce the resolution or switch to another computer with better performance.
2	The resolution of Ladibug 4K and the resolution set in the visual presenter DIP Switch are different	Ladibug 4K will store the last used resolution setting and may not use the resolution set in the visual presenter DIP Switch.
3	When Ladibug 4K software is used, selection of the 4K resolution is not available	You can only choose either HDMI or USB output for 4K resolution, not both at the same time. Please check whether the visual presenter has been set with HDMI 4k output to the display. E.g.: When the visual presenter is set for HDMI output of 4k resolution, then the USB output cannot be set for 4k resolution and only can be 1080P or 720P resolutions instead. If HDMI output is not set for 4K, then 3 different resolutions 4K/ 1080P/ 720P can be chosen in Ladibug 4k software.
4	Black screen is displayed in live image after Ladibug 4K was re-installed	1. Remove the Ladibug 4K , and then restart the computer 2. Re-install Ladibug 4K
5	Unable to connect when using the image sharing function	1. The system firewall settings may prevent images from being properly sent. Change settings to permit Ladibug 4K through the firewall. Please refer to 7.16 Change firewall settings for Windows 2. If Step 1 fails to solve the problem, change the firewall settings of the antivirus software by permitting Ladibug 4K through the firewall or suspending the firewall. Please refer to antivirus software instructions to change firewall settings 3. If step 2 still fails to solve the problem, please turn off the antivirus software
6	When the function of Time Lapse is executing, Preview screen remains still	Connecting USB Hub may result in insufficient bandwidth, which causes the machine unable to operate normally. It is recommended that the machine shall be connected to the computer directly through USB cable instead of USB Hub.
7	When the Image Sharing function is enabled, no camera screen can be obtained	If settings of host network are affected by the change of the Server network connection (for example: change from the network cable connection to wireless network connection), please disable the Ladibug 4K and restart the software and the Share Image function again.