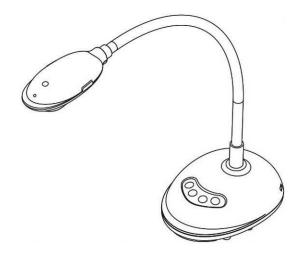
# DC125 Document Camera

# **User Manual - English**



# [Important]

To download the latest version of Quick Start Guide, multilingual user manual, software, or driver, etc., please visit Lumens <u>http://www.MyLumens.com/goto.htm</u>



# **Table of Contents**

Copyrigh	t Information4
Chapter 1	Safety Instructions5
Chapter 2	Package Contents7
Chapter 3	8 Product Overview
3.1	Description of LED indicator8
3.2	Relative Operation Position
3.3	Correct use
3.4	Incorrect use
Chapter 4	Installation and Connections10
4.1	System diagram10
4.2	Connecting to a computer10
4.3	Connecting to an Interactive Whiteboard (IWB)10
4.4	To mount it at desk
4.5	Installing application software11
Chapter 5	5 Start Using 19
Chapter 6	5 Function Menu20
6.1	Function Descriptions of Control Panel Button20
6.2	Windows Operation Interface21
6.2.1	Windows Software Screen Introduction - Camera
6.2.2	Windows Software Screen Introduction - Image Browser Thumbnail24
6.2.3	Windows Software Screen Introduction - Large Picture Of Image Browser25
6.2.4	Camera Settings
6.2.5	Time Lapse (Burst Settings)27
6.2.6	Setting of annotation tool
6.2.7	Setting (Advanced)

6	6.3	MAC Operation Interface	0
6	5.3.1	MAC Software Screen Introduction - Camera	0
6	6.3.2	MAC Software Screen Introduction - Image Browser Thumbnail	3
6	5.3.3	MAC Software Screen Introduction - Large Picture Of Image Browser 34	4
6	6.3.4	Camera Settings	5
6	6.3.5	Time Lapse	6
6	6.3.6	Setting of annotation tool	7
6	6.3.7	Setting (Advanced)	8
Chap	oter 7	Descriptions of major functions – Windows User	9
7	7.1	I would like to optimize the image	9
7	7.2	I would like to freeze the live image	9
7	7.3	I would like to turn on/off the lamp39	9
7	7.4	I would like to adjust the brightness	9
7	7.5	I would like to capture images	9
7	7.6	I would like to capture images continuously4	0
7	7.7	I would like to record4	0
7	7.8	I would like to annotate the displayed image4	0
7	7.9	I would like to add textual annotation to images4	1
7	7.10	I would like to use the mask mode42	2
7	7.11	I would like to use the spotlight mode42	2
7	7.12	I would like to manage stored image42	2
7	7.13	I would like to change the operating languages of the software44	4
7	7.14	Change the setting of firewall	4
Chap	oter 8	Descriptions of major functions - MAC User	7
8	3.1	I would like to optimize the image4	7
8	3.2	I would like to freeze the live image4	7
8	3.3	I would like to turn on/off the lamp4	7
8	3.4	I would like to adjust the brightness4	7
Lun	ne	English - :	2

8.5	I would like to capture images	47
8.6	I would like to capture images continuously	48
8.7	I would like to record	48
8.8	I would like to annotate the displayed image	48
8.9	I would like to add textual annotation to images	49
8.10	) I would like to use the mask mode	50
8.1	I would like to use the spotlight mode	50
8.12	2 I would like to manage stored image	50
8.13	I would like to change the operating languages of the software	52
8.14	Change the setting of firewall	53
Chapte	9 Connecting to Microscope	55
Chapte	10 Troubleshooting	56
Sup	plier's Declaration of Conformity 47 CFR § 2.1077 Compliance Infor	mation57



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# Chapter 1 Safety Instructions

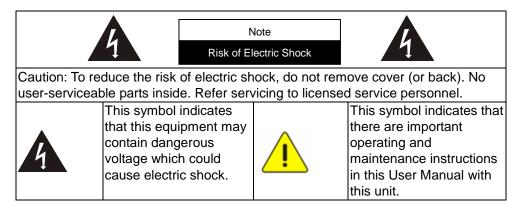
Always follow these safety instructions when setting up and using the Document Camera:

- 1. Do not place Document Camera in tilted position.
- 2. Do not place the Document Camera on an unstable trolley, stand or table.
- 3. Do not use the Document Camera near water or source of heat.
- 4. Use attachments only as recommended.
- 5. Place the Document Camera on a place where the USB cable can be unplugged easily.
- 6. Unplug the USB cable of Document Camera before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- 7. Do not block the slots and openings in the Document Camera case. They provide ventilation and prevent the Document Camera from overheating. Do not place the Document Camera on a sofa, rug or other soft surface or install in a recessed place unless proper ventilation is provided.
- 8. Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the Document Camera.
- Except as specifically instructed in this User Manual, do not attempt to operate this product by yourself. Opening or removing covers may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
- 10. Unplug the USB cable during thunderstorms or if it is not going to be used for an extended period. Do not place the Document Camera or remote control on top of heat-emitting equipment or shaking objects such as a car, etc.
- 11. In case of the following situations, please unplug the USB cable of the Document Camera and refer servicing to licensed service personnel:
  - If the USB port becomes damaged or frayed.
  - If liquid is spilled into it or the Document Camera has been exposed to rain or water.



#### Precautions

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



### FCC Warning

This Document Camera has been tested and found to comply with the limits for a Class A computer device, pursuant to Article 15-J of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numerique respecte les limites de bruits radioelectriques applicables aux appareils numeriques de Classe A prescrites dans la norme sur le material brouilleur: "Appareils Numeriques," NMB-003 edictee par l'Industrie.

### ■ EN55032 (CE Radiation) Warning

Operation of this equipment in a residential environment could cause radio interference.



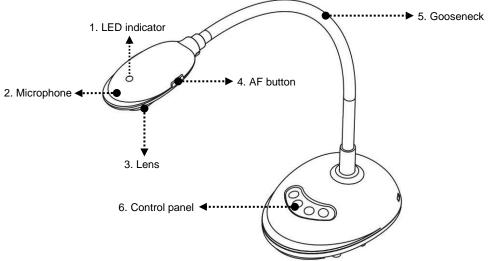
# Chapter 2 Package Contents





English - 7

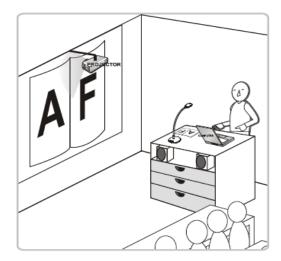
# Chapter 3 Product Overview



#### 3.1 Description of LED indicator

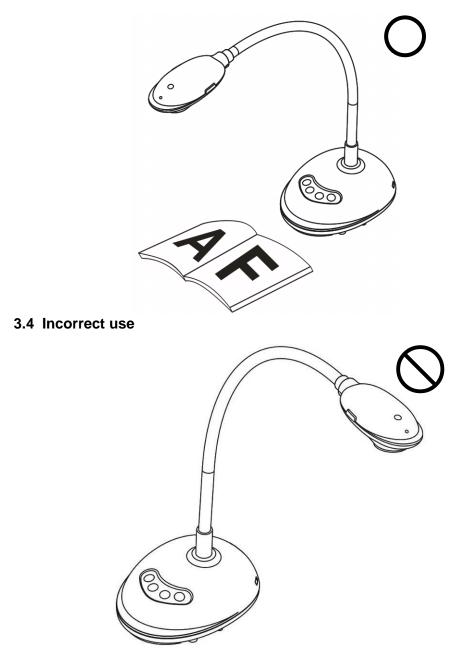
- 1. Enable the image, and LED indicator will light up
- 2. Display the image, and LED indicator will light up
- 3. Disable the image, and LED indicator is OFF

#### 3.2 Relative Operation Position





#### 3.3 Correct use





# **Chapter 4** Installation and Connections

# 4.1 System diagram

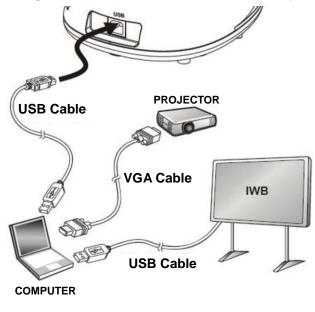


COMPUTER

#### 4.2 Connecting to a computer

See the picture above

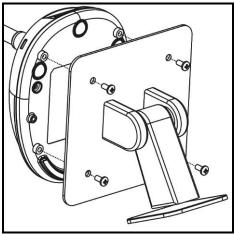
### 4.3 Connecting to an Interactive Whiteboard (IWB)





# 4.4 To mount it at desk

- 1. Please purchase the standard VESA installation base.
- Please use appropriate screws: Screw length = 5 mm + base thickness (H1); M4 screw (P = 0.7)



- VESA bolt pitch 75\*75mm
- VESA base thickness (H1)
- Screw length = 5 mm + base thickness (H1)
- M4 screw (P = 0.7)

### 4.5 Installing application software

After installing Lumens image software, you can use the following functions:

- Control the DC125.
- > Capture and record images.
- > Annotate the image, highlight important details and save it.
- Support the full screen function.

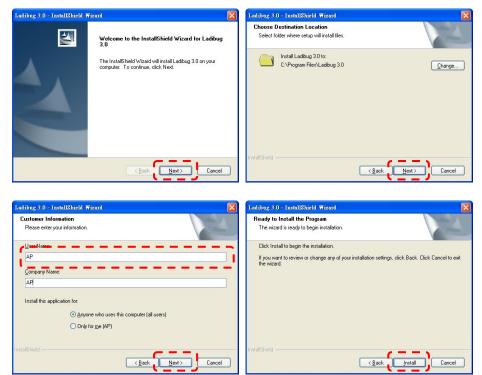
#### 4.5.1 System Requirements

Windows XP	Windows Vista / 7 / 8 /10	MAC OS X 10.7 / 10.8 / 10.9 / 10.10 / 10.11 / 10.12
●Min CPU: P4 2.8 GHz	Min CPU: Intel Core 2 Duo	<ul> <li>Min CPU: Intel Pentium<sup>®</sup></li> </ul>
● Min Memory: 512 MB	2GHz	2GHz Intel Core 2 Duo
<ul> <li>Supporting Direct X 9</li> </ul>	Min Memory: 1 GB (32-bits)/	Min Memory: 1GB DDR2
• Min Resolution: 1024 x 768	2 GB(64-bits)	667Hz RAM or above
Min Hard Drive Space: 500	<ul> <li>Supporting Direct X 9</li> </ul>	<ul> <li>Min Resolution: 1024 x 768</li> </ul>
MB	<ul> <li>Min Resolution: 1024 x 768</li> </ul>	<ul> <li>24-bit color display monitor</li> </ul>
Windows XP SP2 or above	<ul> <li>Min Hard Drive Space: 1GB</li> </ul>	<ul> <li>Min Hard Drive Space: 1 GB</li> </ul>
		<ul> <li>QuickTime 7.4.5 or above</li> </ul>



#### 4.5.2 Install with Windows XP/Vista

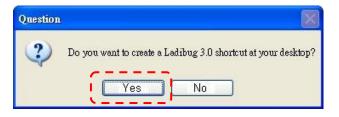
- 1. Please download Ladibug<sup>™</sup> software at Lumens website.
- 2. Extract the file downloaded and then click [Ladibug] to install.
- **3.** The installation wizard will guide you through the process. Please follow the on-screen instructions and press **[Next]** for the next step.







4. Press [Yes] to create Ladibug<sup>™</sup> shortcut on your desktop.



5. Once the installation is completed, press [Finish] and restart the computer.

Ladibug 3.0 - InstallShield Wizard		
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Ladibug 3.0. Before you can use the program, you must restart your computer. Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.	
< <u>B</u> ack Finish Cancel		



#### 4.5.3 Install with MAC

- 1. Unlock software authentication: Due to the limitation of MAC system, please follow steps below to unlock software authentication. If unlocked, please skip to Step 2 to start the installation.
  - 1.1. Select [System Preferences] in the Apple Menu.

1	Grab	File	Edit	Capture
Sc	oout Thi oftware I op Store	Update	·	
Sy	stem Pr	eferen	ces	
D	ock			
Re	ecent Ite	ms		•
Fo	orce Qui	t		C#5
SI	eep			
Re	start			
Sł	ut Dow	n		

1.2. Click on the [Security & Privacy].





1.3. Click on the Authenticating icon on the lower left corner to unlock the

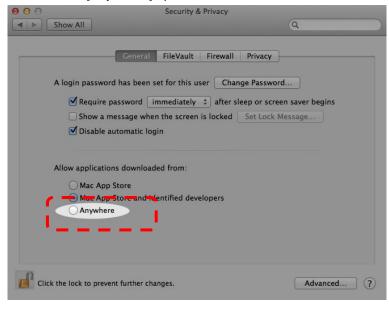
panel, and enter the username and password of the Administrator.

00	Security & Privacy
Shor	
A lo	System Preferences is trying to unlock Security & Privacy preferences. Type your password to allow this. Name: Admin Account Password: Cancel Unlock
Allo	w applications downloaded from:
	Mac App Store Mac App Store and identified developers Anywhere
Authentic	ating (?

1.4. Click on the [Anywhere] option as shown below.

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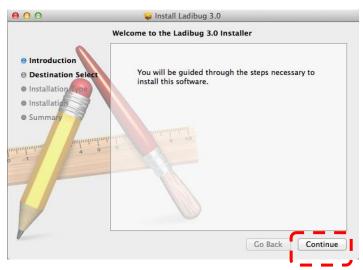
1.5. Select [Allow From Anywhere], and confirm not to proceed with the authentication. Upon completion, start the installation.



- 2. Please download Ladibug<sup>™</sup> software at Lumens website.
- 3. Extract the file downloaded and then click [Ladibug] to install.
- 4. Please finish the installation by following the on-screen instructions.

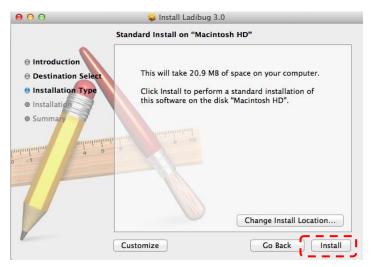
00	🛅 Ladibug MAC	3.0-Setup-3.0.0		R <sub>M</sub>
		) <b>@</b>		
FAVORITES	Name	▲ Date Modified	Size	Kind
🗐 All My Files	💊 Ladibug 3.0	Nov 28, 2014, 1:46	PM 9.4 MB	Install
P AirDrop	adibug 3.0 Uninstaller	Aug 8, 2014, 5:12	PM 104 KB	Applicat

5. Click [Continue].





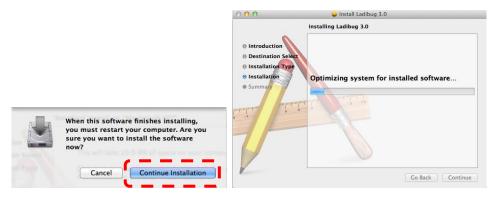
#### 6. Click [Install].



7. Enter the username and password, and then press [Install Software].

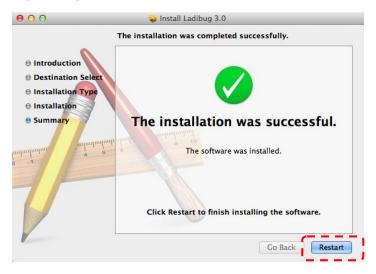
Installer is trying to ins Type an administrator's to allow this.	
Name:	
Password:	

8. Click [Continue Installation].





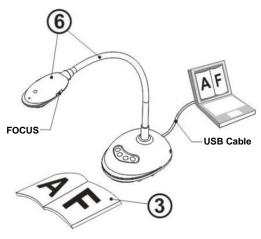
9. Press [Restart] to finish the software installation.





# Chapter 5 Start Using

<Note> Ensure that the USB cable is connected and Ladibug<sup>™</sup> software is installed at first. Refer to <u>Chapter 4 Installation and Connections</u> in this user manual.



- 1. Double click on
- n <sup>1000</sup> icon to open Ladibug™ Software.
- 2. Place an object to be displayed under the camera.
- POWER Frequency setting page, please complete the settings following the instructions on the screen. A live image is displayed when the setting is finished. (X This setting is required for the first use only.)
   Note: You are advised to confirm the local voltage/frequency before setting the POWER Frequency. For example, 60Hz is applicable for America, Taiwan, Japan, etc; 50Hz is applicable for Europe or other regions.
- 4. Press button to optimize the image. You are ready to teach/present.



### 6.1 Function Descriptions of Control Panel Button

#### <Remark> The below functions are listed alphabetically

Name	Function Descriptions	
AUTO TUNE	Automatically adjust the image to have the best brightness and focusing performance.	
CAPTURE	Capture the image to the computer.	
FOCUS	AF Button.	
FREEZE	Freeze the current image to remain temporarily on the screen. Press again to defreeze.	
LAMP	Turn on / off LED indicator.	



### 6.2 Windows Operation Interface

6.2.1 Windows Software Screen Introduction - Camera (2)



- 1. Preview window
- 2. Page switch

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	K 2	×
--	-----	---

lcon	Function Descriptions
	Real-time image
	Image browser page
<b>3</b>	Function settings page
0	Software information page
23 X	Switch to Full Screen
×	Disable Ladibug

3. Left function menu

	Icon	Function Descriptions
¢	(j.j.)	Select the connection mode of camera
AUTO	Ф	NA
璨	AUTO	Auto focus
\$	璨	Freeze
() ()	\$	Capture
est and a second	C	Time Lapse
	Ċ	Setting of annotation tool
9 10 10		Eraser (Clear all the objects)
G	ک	Recover
	Ċ	Redo
		Fold the menu



#### 4. Right function menu



lcon	Function Descriptions
$\rangle$	Switch function menus
Ĩ	Image setting
Ē	Lamp On/Off
-;¢-	Brightness
٩J	Recording; this function is not supported in Wireless mode and Share Image mode.
L	Free-hand drawing tool
7	Arrow
0	Circling tool
Ø	Eraser
	Draw a rectangle
/	Draw a line
T	Edit text
<i>₩</i>	Mask Mode
	Spotlight Mode
I	Fold the menu



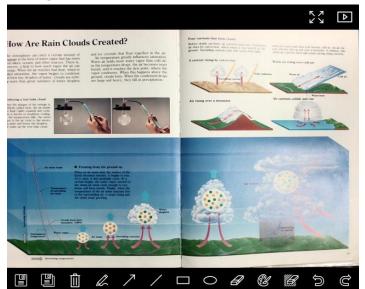
# 6.2.2 Windows Software Screen Introduction - Image Browser Thumbnail



lcon	Function Descriptions	lcon	Function Descriptions
Ą	Upload the file to the cloud	٩	Move to the previous page
	Send e-mail	٤	Move to the next page
	Upload to Google Drive		Move to the last page
N N N N	Select All	Go to 1 page ,	Move to a given page
Ū	Delete	1/3	Current page/total number of pages
(44)	Move to the first page		



#### 6.2.3 Windows Software Screen Introduction - Large Picture Of Image Browser



	Icon	Function Descriptions	lcon	Function Descriptions	
		Save files	0	Circling tool	
		Save as a new file	ß	Eraser	
		Delete	Ľ	Setting of annotation tool	
	Free-hand drawing tool			Eraser (Clear all the objects)	
	~	Arrow	C)	Recover	
	Draw a line		Ċ	Redo	
		Draw a rectangle			
Lu					

English - 25

#### 6.2.4 Camera Settings

Control the live image via the Camera Settings interface. The operating procedure is the same as the control panel and remote control of the Document Camera.

<Remark> The display of the button may vary depending on product functions. An inactive button will grey out.

	Camera S	ettings		×
Auto Focus	Hands free	AF		
Focus -		-		
Auto Exposure	On	•		
Auto White Balance	Off	<b>-</b>		
Photo / Text	Photo	•		
Rotate	0°	•		
Select Output Size	MJPG,1024x	768,High frame rate		•
Power Frequency	60Hz	•		
FW Version :	DHU101R		Factory reset	

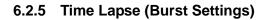
Click do open Camera Settings interface.

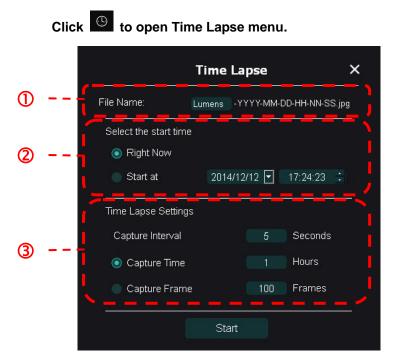
- 1. Auto Focus: Adjust the best focal length.
- 2. Hands free AF: Automatically adjust the best focal length.
- 3. Focus: Manually adjust focal length on an object.
- 4. Auto Exposure: Set on/off.
- 5. Auto White Balance: Set on/off.
- 6. **Photo/Text:** Setting Photo/Text mode.
- 7. Rotate: Rotate the image by 0/180 degree.
- 8. Select Output Size: Set output resolution.
- 9. **Power Frequency:** The power frequency may vary with countries. Please check it before using.



<Remark> In most parts of the world, it is 50 Hz. In the America, however, it is typically 60 Hz.

- 10. FW Version: FW version of the Document Camera.
- 11. Factory reset: The function of restoring the Document Camera to default is not supported in Wireless mode.

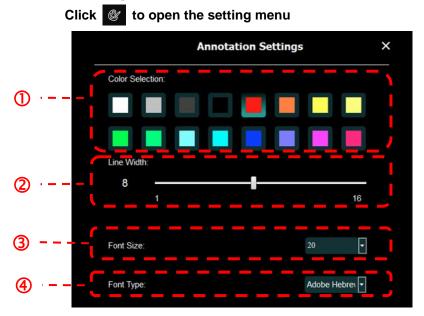




- 1. Specify a file name.
- 2. Set the start time.
- 3. Set the capture interval and the capture time.



#### 6.2.6 Setting of annotation tool



- 1. Set the pen color
- 2. Select the line width
- 3. Select the font size
- 4. Select the font



### 6.2.7 Setting (Advanced)

#### Click 💮 to open the setting menu

<u>6</u>	4		<u>چ</u>	í			マン	×
	Softwar	e factory re	set:		Factory reset			
	Languag	je :			English	•		
	File Dire D:\Linda		nents\Ladibug 3.0		Browse			
	Audio: 🗹 Ena	ble Audio I	Recorder			ut 🕨		
	Video : Enable V	/ideo Con	npression			۲ ۲		
		ompressio ompressio	on Type on Property		Microsoft Video 1 Enter	7		
	Share In				192.168.7.	63		
	lmage G Port	uality			Middle 8554	7		
	Unicast/	Multicast			Unicast			
	gra	notation mi aphics card	is required, (512MB I	RAM or higher).	sk and spotlight functions. An inc	lependent		
	<li>Liv</li>	re mode: O	nly supports simple a	nnotation functions				

- 1. Software factory reset: Reset to the default value.
- 2. Language: Select language.
- 3. File Directory: File storage path.
- 4. Enable Audio Recorder: Activate recording function and select audio output device.
- 5. Enable Video Compression: Activate video compression.
- 6. Video Compression Type: Set video compression format.
- 7. Video Compression Property: Open the advanced settings for video compression format.
- 8. Share Image: Share Image; this function is not supported in Wireless mode.
- 9. IP address: Server IP address for image sharing.
- 10. Image Quality: Select image quality (high/medium/low).
- 11. **Port:** Enter port settings (8500 ~ 9000).
- 12. Unicast/Multicast: Select cast type.
- 13. **Software Mode:** Change the mode to Live Mode/Drawing Mode according to the requirement



### 6.3 MAC Operation Interface

#### 6.3.1 MAC Software Screen Introduction - Camera



- 1. Preview window
- 2. Page switch

Ô	⊳	£93	0	23 >	
Icon Function Descriptions					
Ô		Real-time image			
▶		Image browser page			
S Function settings page					
0	O Software information page				
	XX	Switch to	Full Screen		
×		Disable L	₋adibug		



#### 3. Left function menu

e.	lcon	Function Descriptions
	Gal	Select the connection mode of camera
	Ċ	NA
AUTO	AUTO	Auto focus
璨	發	Freeze
\$	\$	Capture
	G	Time Lapse
Ľ	¢	Setting of annotation tool
		Eraser (Clear all the objects)
	ک	Recover
ش ا	Ċ	Redo
G		Fold the menu



#### 4. Right function menu



lcon	Function Descriptions
$\rangle$	Switch function menus
<b>I</b>	Image setting
Ģ	Lamp On/Off
-☆-	Brightness
цЪ	Recording; this function is not supported in Wireless mode and Share Image mode.
R	Free-hand drawing tool
7	Arrow
0	Circling tool
Ø	Eraser
	Draw a rectangle
/	Draw a line
Т	Edit text
	Mask Mode
	Spotlight Mode
	Fold the menu



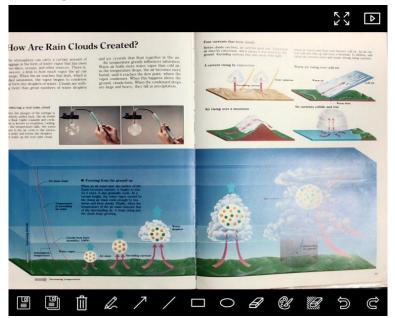
#### 6.3.2 MAC Software Screen Introduction - Image Browser Thumbnail



lcon	Function Descriptions	lcon	Function Descriptions
কি	Upload the file to the cloud	(4)	Move to the first page
	Send e-mail	<b>(49</b> )	Move to the previous page
	Upload to Google Drive	•	Move to the next page
**	Upload to Dropbox	1	Move to the last page
R R R	Select All	Go to page,	Move to a given page
⑪	Delete	1 / 2	Current page/total number of pages

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#### 6.3.3 MAC Software Screen Introduction - Large Picture Of Image Browser



lcon	Function Descriptions	lcon	Function Descriptions
	Save files	0	Circling tool
	Save as a new file	Ø	Eraser
创	Delete	ම	Setting of annotation tool
Ĺ	Free-hand drawing tool		Eraser (Clear all the objects)
$\nearrow$	Arrow	P	Recover
/	Draw a line	Ú	Redo
	Draw a rectangle		



#### 6.3.4 Camera Settings

Control the live image via the Camera Settings interface. The operating procedure is the same as the **control panel** and **remote control** of the Document Camera.

<Remark> The display of the button may vary depending on product functions. An inactive button will grey out.

Click of to open Camera Settings interface.

Cam	era settings	×
Auto Focus	Hand	ls free AF
Focus		
Auto Exposure	On	~
Auto White Balance ————	Off	~
Photo/Text	Photo	~
Rotate	0°	~
Select Output Size ————	MJPEG: 1	024x768 🗠
Power Frequency ———	60Hz	~
FW Version: DHU101R	Factory re	set

- 1. Auto Focus : Adjust the best focal length.
- 2. Hands free AF : Automatically adjust the best focal length.
- 3. Focus : Manually adjust focal length on an object.
- 4. Auto Exposure : Set on/off.
- 5. Auto White Balance : Set on/off.
- 6. Photo/Text : Setting Photo/Text mode. •
- 7. Rotate : Rotate the image by 0/180 degree. •
- 8. Select Output Size : Set output resolution.
- **9. Power Frequency** : The power frequency may vary with countries. Please check it before using.

<Remark> In most parts of the world, it is 50 Hz. In the America, however, it is typically 60 Hz.

10. FW Version: FW version of the Document Camera.



**11. Factory reset:** The function of restoring the Document Camera to default is not supported in Wireless mode.

#### 6.3.5 Time Lapse

		Time Lapse		×
D	File Name:	Lumens -	YYYY-MM-DD-HH-N	N-SS.jpg
	Select the start time:			
න	Right Now			
	Start at	12/12/2014 🔇	5:12:53 PM	]
	Time Lapse Settings:			-
3	Capture Interval ——		5	Seconds
	Capture Time		1	Hours
	Capture Frame	C	100	Frames
		Start		

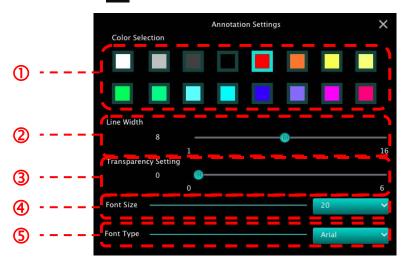
Click (9) to open Time Lapse menu.

- 1. Specify a file name.
- 2. Set the start time.
- **3.** Set the capture interval and the capture time.



#### 6.3.6 Setting of annotation tool

Click & to open the setting menu



- 1. Set the pen color
- 2. Select the line width
- 3. Select the transparency
- 4. Select the font size
- 5. Select the font



#### 6.3.7 Setting (Advanced)

Click 💭 to open the setting menu

$\mathbf{\hat{o}}$	Þ	٢	0		×
Software factory	reset			Factory rese	t
File Directory				Browse	
/Users/tst/Docu	uments/Ladibug				
Enable Audi	io Recorder				
Audio Source			Built-in Microph	none~	
Audio compress	ion type			High Quality AA	iC At❤
Vidoe Compress	ion Type			H.264	~
Share Image				000	0
IP address			192.168.10.114		
Image Quality			Middle	~	
Port			8554		
Unicast / Multicast				Unicast	~

- 1. Software factory reset: Reset to the default value.
- 2. File Directory: File storage path.
- 3. Enable Audio Recorder: Activate recording function.
- 4. Audio source: Select audio output device.
- 5. Audio Compression Type: Select audio output quality.
- 6. Video Compression Type: Set video compression format.
- 7. Share Image: Share Image; this function is not supported in Wireless mode.
- 8. IP address: Server IP address for image sharing.
- 9. Image Quality: Select image quality (high/medium/low).
- **10. Port:** Enter port settings (8500 ~ 9000).
- 11. Unicast/Multicast: Select cast type.



## Chapter 7 Descriptions of major functions – Windows User

#### 7.1 I would like to optimize the image

Auto Operation: Click



Manually enabled function: Press the AF [FOCUS] button on the camera head of main unit.

#### 7.2 I would like to freeze the live image

≻ Click <sup>®</sup> to freeze the live image of Ladibug<sup>™</sup>.

Click once again to lift the freeze.

#### 7.3 I would like to turn on/off the lamp

> Click to turn on/off the camera lamp.

### 7.4 I would like to adjust the brightness

Click to open the brightness scroll.

Move rightward to increase brightness, or leftward to decrease brightness.

### 7.5 I would like to capture images



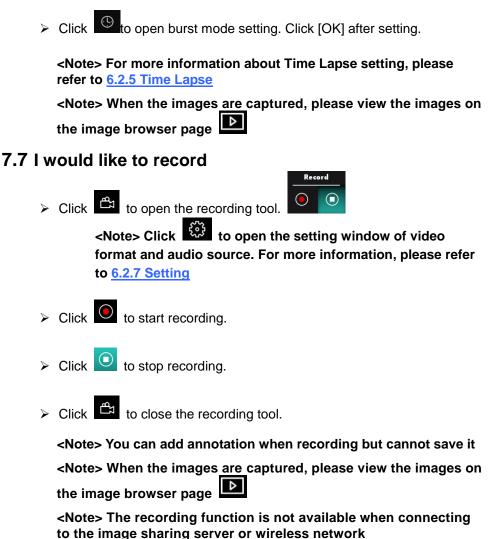
Click to capture images.

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

the image browser page



#### 7.6 I would like to capture images continuously



#### 7.8 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.





### 7.9 I would like to add textual annotation to images

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



> Enter text in the blank area and press [OK].

<Remark> If they are live images, you can click

to capture images.

\$



English - 41

You can click [SAVE] or [SAVE AS] to save files if they are image files.

#### 7.10I 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.
- $\succ$  Click  $\times$  to close the mask mode.

#### 7.111 would like to use the spotlight mode

- > Click to open spotlight mode.
- You can use the mouse to directly modify the length and the width of the block.
- Press to change the spotlight shape
- $\succ$  Click  $\stackrel{\scriptstyle{\scriptstyle{\scriptstyle{\times}}}}{\scriptstyle{\scriptstyle{\scriptstyle{\times}}}}$  to close the spotlight mode.

#### 7.12I would like to manage stored image

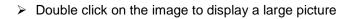
Please switch to Image browser page to go through the following steps

#### 7.12.1 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







- Click to switch to Full Screen
- Click to return to image thumbnails

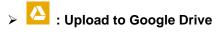
#### 7.12.2 Delete Image

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

#### 7.12.3 Share images



- a. Click the image or click Select All যেত্র
- b. Click for select how to upload images
- c. Enter recipient, subject, and content, and click "Send"
- <Remark> Email settings must be completed before sending images via email. Change settings according to the instructions of various operating systems and ISPs.



- a. Click the image or click Select All
- b. Click for select how to upload images



c. Click "Log In". Log in by entering your google username and password.



- d. Click "Accept" to enable Ladibug™ to access information stored in Google Drive.
- e. Click "**Upload**" to upload files. Upload is complete when the "**upload finished**" message is shown.

# 7.13I would like to change the operating languages of the software

- Switch to settings page
- Select language
- ➤ Restart the Ladibug™

#### 7.14Change the setting of firewall 7.14.1 Windows 7

- a. Select [Console] in [Start] menu.
- b. Click [System and Security], and then click [Allow a program through

#### Windows Firewall].



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

c. 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 p	programs and features:			
Name		Home/Work (Private)	Public	-
Secur	re Socket Tunneling Protocol			
	P Trap			
U Wind	ows Collaboration Computer Name Registration Service			
Wind	ows Firewall Remote Management			
Wind	ows Management Instrumentation (WMI)			
✓ Wind	ows Media Player	$\checkmark$		
🗹 Wind	ows Media Player Network Sharing Service	$\checkmark$		
Wind	ows Media Player Network Sharing Service (Internet)			
Wind	ows Peer to Peer Collaboration Foundation			-
Wind	ows Remote Management			-
Wirel	ess Portable Devices			
				-
		Details	Remov	e
L				
		Allow anoth	er prograr	n.

- d. Please select Ladibug program in the list.
- e. If *Ladibug* was not listed, please click [Allow another program], and then you will find Ladibug program.
- f. Select *Ladibug*, and then click [Add]. If it was not listed, please click [Browse], select *Ladibug* program, and then click [Enable].

[Remark] Ladibug may be displayed in the form of Ladibug.exe.

- g. Click [OK] in [Allowed Program] window.
- h. Close [Windows Firewall Setting] window.

#### 7.14.2 Windows 8

- a. Point the mouse to the upper right corner of the screen and move the mouse pointer down, then click [Search] and input the firewall in the search block, click or click [Allow the Application Program or Function to pass Windows Firewall].
- b. Click or press [**Change Settings**]. System may ask for your system administrator password or confirm your selection.

<u>Lumens</u>

 c. In the allowed application program list, find Ladibug, check the checkbox beside the application program, and then click or press [Confirm].



### Chapter 8 Descriptions of major functions - MAC User

#### I would like to optimize the image 8.1



Click AUTO

#### 8.2 I would like to freeze the live image



 $\triangleright$ 

- Click to freeze the live image of Ladibug<sup>m</sup>.
- Click once again to lift the freeze.

#### 8.3 I would like to turn on/off the lamp

Click Click to turn on/off the camera lamp.

#### 8.4 I would like to adjust the brightness

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

#### 8.5 I would like to capture images



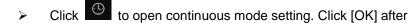


Click to capture images

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



#### 8.6 I would like to capture images continuously



setting

<Note> For more information about Time Lapse setting, please refer to 6.3.5 Time Lapse

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

#### 8.7 I would like to record



> Click to open the recording tool.



<Note> Click 😳 to open the setting window of video format and audio source. For more information, please refer to 6.3.7 Setting







Click 이 to stop recording.



Click to close the recording tool.

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

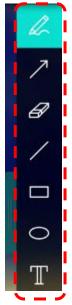
<Note> When the images are captured, please view the images on the image browser page

#### 8.8 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.  $\triangleright$ 





> Mark or annotate the displayed image.



<Remark> If they are live images, you can click for a capture images. If the image files are opened on image browser page , you can press the [SAVE] or [SAVE AS] to save files

### 8.9 I would like to add textual annotation to images

- Select T.
- Select range on page and enter text

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



#### 8.10I 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 modify the transparency of the block.
- > Click  $\times$  to close the mask mode.

#### 8.111 would like to use the spotlight mode

- Click to open spotlight mode.
- You can use the mouse to directly modify the length and the width of the block.
- > Click ito modify the transparency and shape of the block.
  - Click  $\times$  to close the spotlight mode.

#### 8.12I would like to manage stored image

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

#### 8.12.1 Browse images

- Open the Image browser page b 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 X to return to image thumbnails

#### 8.12.2 Delete images

- ➤ Click the image or click Select All All
- $\succ$  Then click Delete f to delete the selected image

#### 8.12.3 Share images

- Send by E-mail
   a. Click the image or click Select II All
  - b. Click 📀 to select how to upload images 🗠
  - c. Enter recipient, subject, and content, and click "Send"

<Remark> Email settings must be completed before sending images via email. Change settings according to the instructions of various operating systems and ISPs.

- 🔼 : Upload to Google Drive
  - a. Click the image or click Select 🕺 All
  - b. Click \land to select how to upload images 🖊
  - c. Click "Log In". Log in by entering your Google username and password.
  - d. Click "Accept" to enable Ladibug™ to access information stored in Google Drive.
  - e. Click "**Upload**" to upload files. Upload is complete when the "**upload finished**" message is shown.



≻

#### : Upload to Dropbox

#### a. Click the image or click Select All

b. Click 🗛 to select how to upload images 😪



- c. Click "Log In". Log in by entering your Dropbox username and password.
- d. Click "Accept" to enable Ladibug™ to access information stored in **Dropbox**.
- e. Click "Upload" to upload files. Upload is complete when the "Upload complete" message is shown.

#### 8.13I would like to change the operating languages of the software

 $\triangleright$ Open the MAC [System Preferences] option, select from the [Preferred Languages] option list in the [Language & Region]

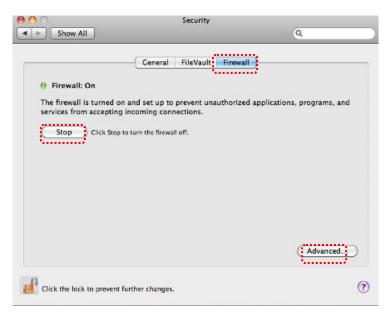
icon, and restart.





#### 8.14Change the setting of firewall Applicable to MAC OS X v10.6/10.7/10.8/10.9

- 8.14.1 Select the setting of [System Preferences] in the Apple Menu.
- 8.14.2 Click on the [Security] or [Security and Privacy] icon.
- 8.14.3 Click the tab [Firewall].



- 8.14.4 Click the lock on the lower left corner to unlock the panel, and enter the username and password of the Administrator.
- 8.14.5 Click [Start] or [Activate Firewall] to activate the firewall.
- 8.14.6 Click [Advanced] at the lower right corner.
- 8.14.7 Select [Automatically allow signed software to receive incoming connections].
- 8.14.8 Change *Ladibug* in the list to [Allow incoming connections]. If the software name was not listed, please click [+] to add new programs to the list, and start to use the software.



Block all incoming connect Blocks all incoming connection: such as DHCP, Bonjour, and IPS	s except those required for basic Internet services,
🕖 iTunes	e Allow incoming connections 🗧
	I software to receive incoming connections lid certificate authority to provide services accessed
Enable stealth mode	
Don't respond to or acknowled by test applications using ICMP	ge attempts to access this computer from the network 9, such as Ping.
?	Cancel

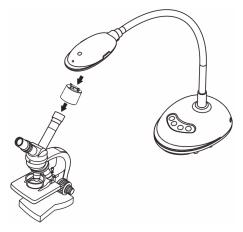


## Chapter 9 Connecting to Microscope

1 Mount the microscope adapter onto the microscope.

<Note> Please choose an appropriate microscope adapter. Microscope adapter accessories are applicable to eyepieces of Ø 28 mm.

2 Connect the lens with the microscope adaptor.



- 3 If the image is not clear
  - 3.1. Press the [FOCUS] button on both sides of the lens to activate the auto focus.



## Chapter 10 Troubleshooting

This chapter describes problems you may encounter while using DC125. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still exists, please contact our distributors or service center.

No.	Problems	Solutions
1	Boot without power signal	Ensure that the USB cable is connected.
2	Unable to focus	Probably the document is too close. Please pull the document away from the lens, and then press the [AF] button on both lateral sides of the lens.
3	DC125 cannot operate normally	The machine cannot operate normally probably because the power supply of the USB port at the front end of the computer is insufficient. Try to connect to a USB port at the rear end or a USB hub with a power adapter.
4	Cannot identify DC125	Outdated or incomplete OS versions might not be able to identify USB devices like DC125. Please use Windows XP SP2 or newer versions that are compatible.
5	Output screen flicker	The presetting value of Ladibug <sup>™</sup> current frequency is 60 (Hz). If current frequency of your local country is 50 (Hz), output screen flicker may occur during the use of Ladibug <sup>™</sup> . Please refer to <u>Chapter 6 - 6.2.4 and 6.3.4 Camera</u> <u>Settings</u> to change Power frequency to 50 (Hz).
6	When running Time Lapse function, Preview screen freezes	Connecting to USB Hub may cause insufficient band-width, leading to machine abnormalities. It is advised that the machine be connected to the computer directly via USB cable, without USB Hub.



### Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Manufacturer : Lumens Digital Optics Inc.

Product Name : DC125

Model Number : Document Camera

#### Responsible Party – U.S. Contact Information

Supplier : Lumens Integration, Inc.

4116 Clipper Court, Fremont, CA 94538, United States

e-mail : support@mylumens.com

#### **FCC Compliance Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

