



Lumens DC-F80 4K Document Camera User Manual

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Lumens[®]

Lumens DC-F80 4K Document Camera



Specifications

- **Product Name:** DC-F80 4K Document Camera
- **User Manual:** English

Safety Instructions

Operation

- Please use the product in the recommended operating environment, away from water or source of heat.
- Do not place the product on a tilted or unstable trolley, stand, or table.
- Please clean the dust on the power plug before usage. Do not insert the product's power plug into a multiplug to prevent sparks or a fire.
- Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
- Do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
- Unplug the product from the wall outlet and refer servicing to licensed service personnel when the need arises.

Package Contents

The package includes the following items:

- DC-F80 4K Document Camera
- USB cable (USB 2.0)

Product Overview

The DC-F80 4K Document Camera features:

- Lens/Lamp
- LED Indicator
- Extension angle control panel
- Support Arm

Extension angle

- Please only operate the document camera in the extended angles as illustrated. Improper usage may damage the machine.

Precautions for Operation

- When moving the device, do not grasp the front of the lens or the body. Please use both hands to hold the bottom of the device. Handling the device improperly may cause machine malfunction.

FAQ

Q: How can I download the latest versions of the user manual and software?

- **A:** To download the latest versions of the Quick Start Guide, multilingual user manual, software, driver, etc., please visit Lumens <https://www.MyLumens.com/support>

Q: What should I do if I encounter an electric shock?

- **A:** If you encounter an electric shock, immediately unplug the product from the wall outlet and seek medical assistance.

[Important]

To download the latest versions of the Quick Start Guide, multilingual user manual, software, driver, etc., please visit Lumens <https://www.MyLumens.com/support>

Copyright Information

- Copyrights © Lumens Digital Optics Inc. All rights reserved.
- Lumens is a trademark that is currently being registered by Lumens Digital Optics Inc.
- Copying, reproducing, or transmitting this file is not allowed if a license is not provided by Lumens Digital Optics Inc. unless copying this file is for backup after purchasing this product.
- To keep improving the product, Lumens Digital Optics Inc. hereby reserves the right to make changes to product specifications without prior notice. The information in this file is subject to change without prior notice.
- To fully explain or describe how this product should be used, this manual may refer to names of other products or companies without any intention of infringement.
- Disclaimer of warranties: Lumens Digital Optics Inc. is neither responsible for any possible technological,

editorial errors or omissions, nor responsible for any incidental or related damages arising from providing this file, using, or operating this product.

Safety Instructions

Always follow these safety instructions when using the product:

Operation

- Please use the product in the recommended operating environment, away from water or source of heat.
- Do not place the product on a tilted or unstable trolley, stand, or table.
- Please clean the dust on the power plug before usage. Do not insert the product's power plug into a multiplug to prevent sparks or a fire.
- Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
- Do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards.
- Refer all servicing to licensed service personnel.
- Unplug the product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cords are damaged or frayed.
 - If liquid is spilled into the product or the product has been exposed to rain or water.

Installation

- For security considerations, please make sure the standard hanging rack you bought is in line with UL or CE safety approbations and installation by technician personnel approved by agents.

Storage

- Do not place the product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- Do not place this product or accessories on top of vibrating equipment or heated objects.

Cleaning

- Disconnect all the cables before cleaning and wipe the surface with a dry cloth. Do not use alcohol or volatile solvents for cleaning.
- Batteries (for products or accessories with batteries)
- When replacing batteries, please only use similar or the same type of batteries.
- When disposing of batteries or products, please adhere to the relevant instructions in your country or region for disposing of batteries or products.

Precautions

- This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock. Do not remove the cover (or back).
- No user-serviceable parts inside. Refer servicing to licensed service personnel.
- This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, under part 15 of the FCC

Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used per the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice:

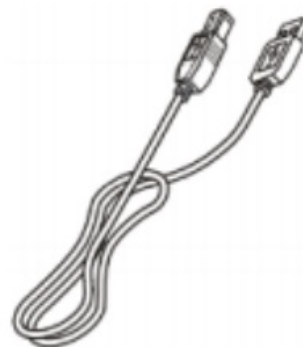
The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Package Contents

DC-F80

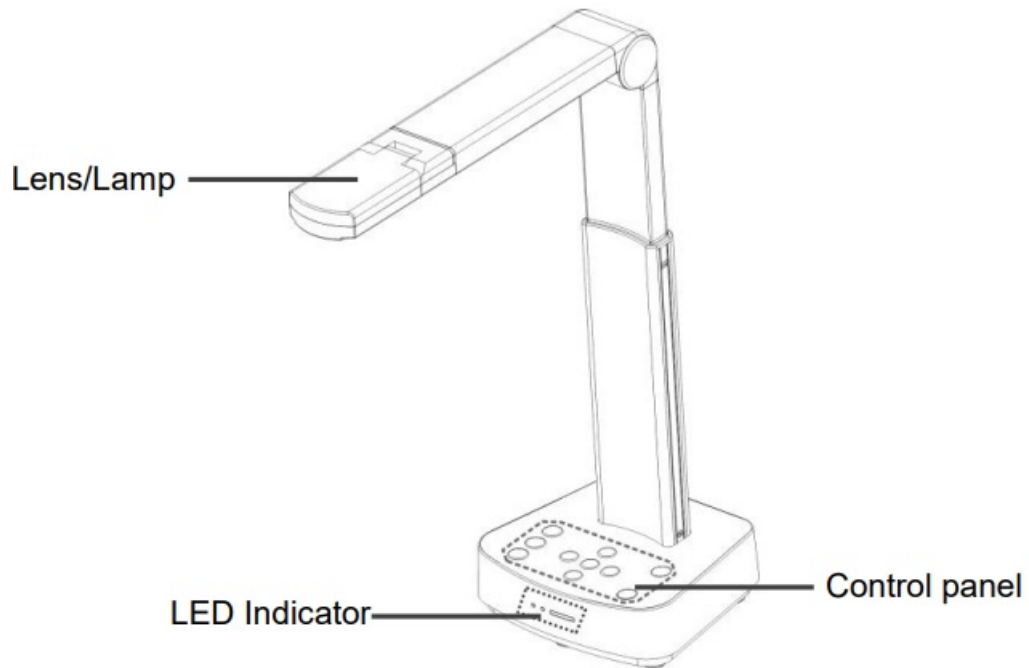


USB cable (USB 2.0)

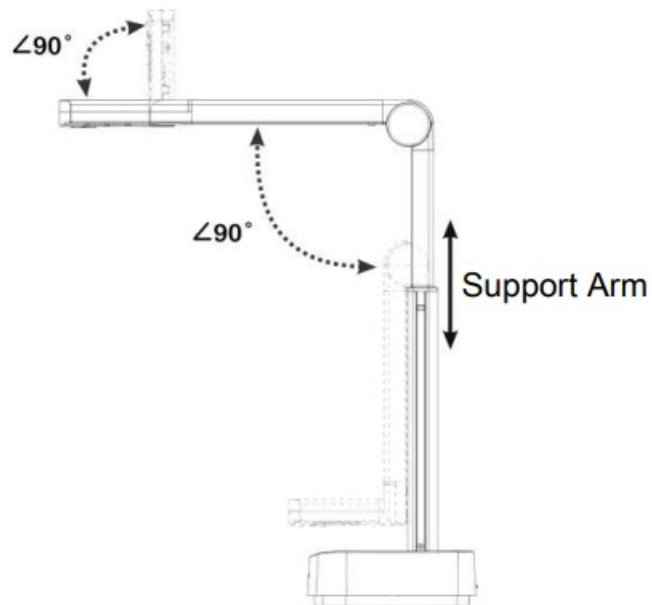


Product Overview

Overview

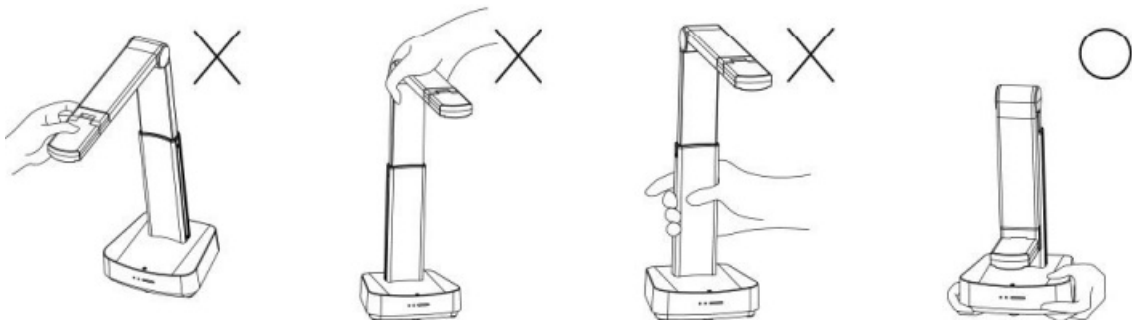


Extension angle



Note Please only operate in the extended angles as illustrated. Improper usage may damage the machine.

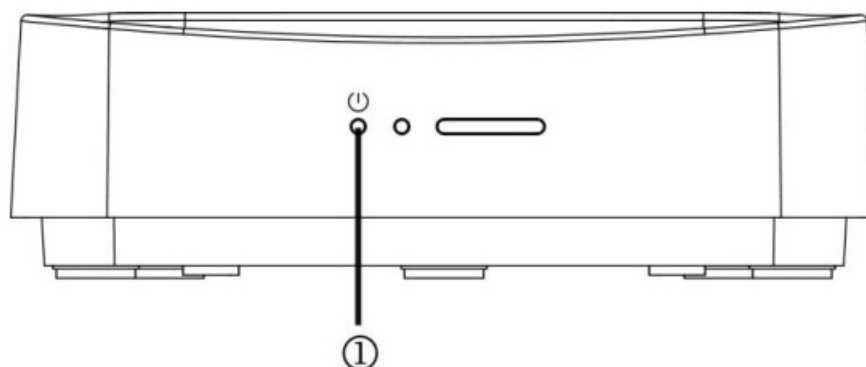
Precautions for Operation



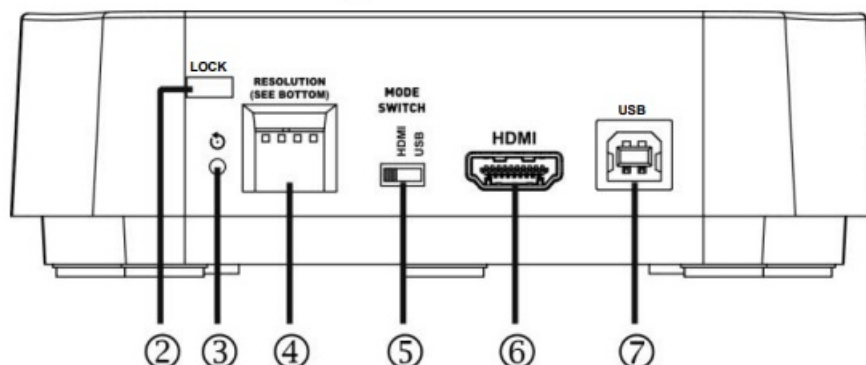
- **Note** When moving the device, do not grasp the front of the lens or the body.
- Please use both hands to hold the bottom of the device.
- Handling the device improperly may cause machine malfunction.

functions Introduction

Front View



Back View

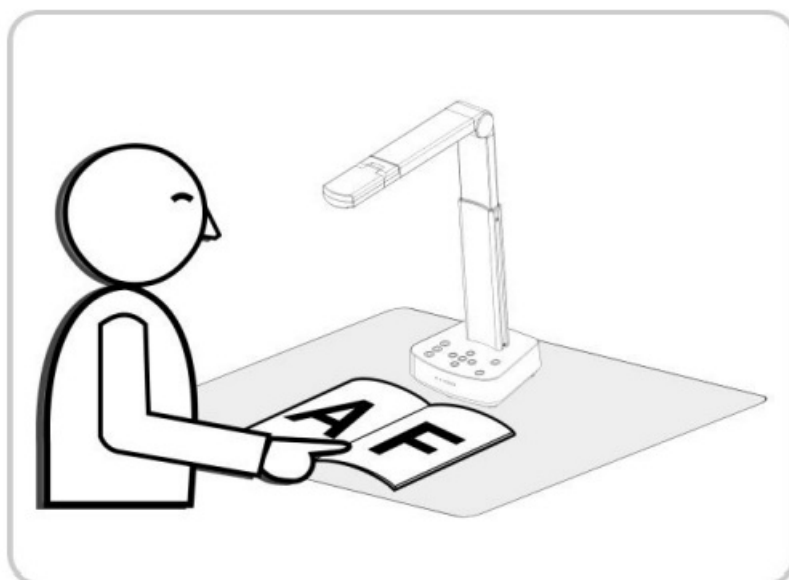
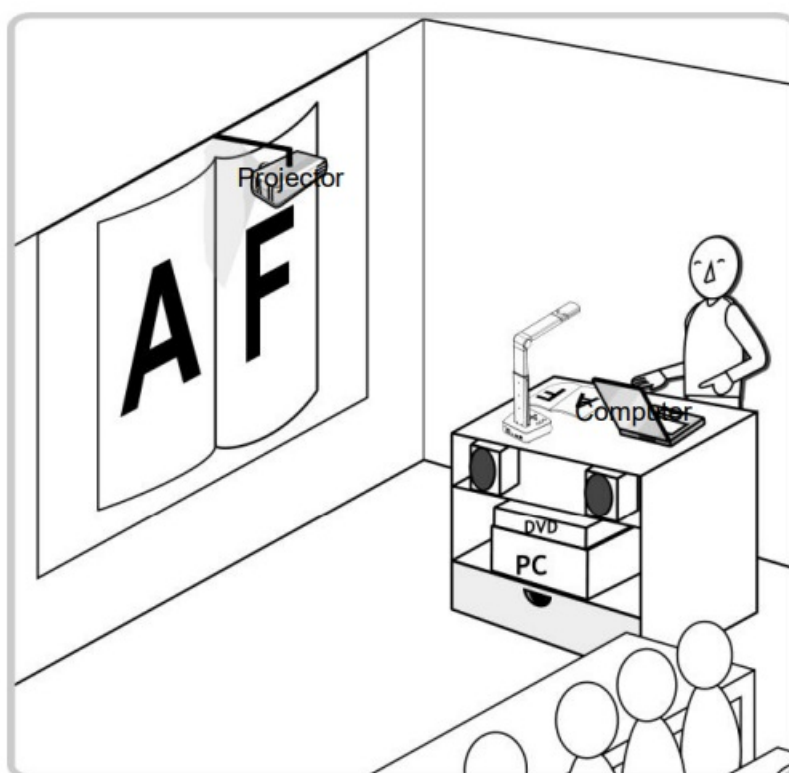


NO.	Item	Function Descriptions
1.	Power LED Indicator	Display the status of the machine. Please refer to 3.5 Description of LED indicator
2.	Kensington safety lock	Lock hole of a safety lock
3.	Reset button	Press the button for initialization to reset to the original factory settings
4.	DIP Switch Setting	Adjust the resolution setting. The default is 1920*1080/30 fps To switch the setting, please refer to Chapter 8 DIP Switch Setting
5.	Mode Switch Button	Switch Modes: HDMI/USB
6.	HDMI output port	Connect to HDMI output signal source
7.	USB Type-B port	The USB Type-B port is for connecting to the USB port of the computer which provides USB signal images and power

Description of LED indicator

Name	Indicator Status
Startup in progress, initialization	Flickering blue light
In use	Blue Light
In standby mode	No indicator
A startup failure or error has occurred	Flickering red light
Force to power off	Flickering blue light; no light after powering off

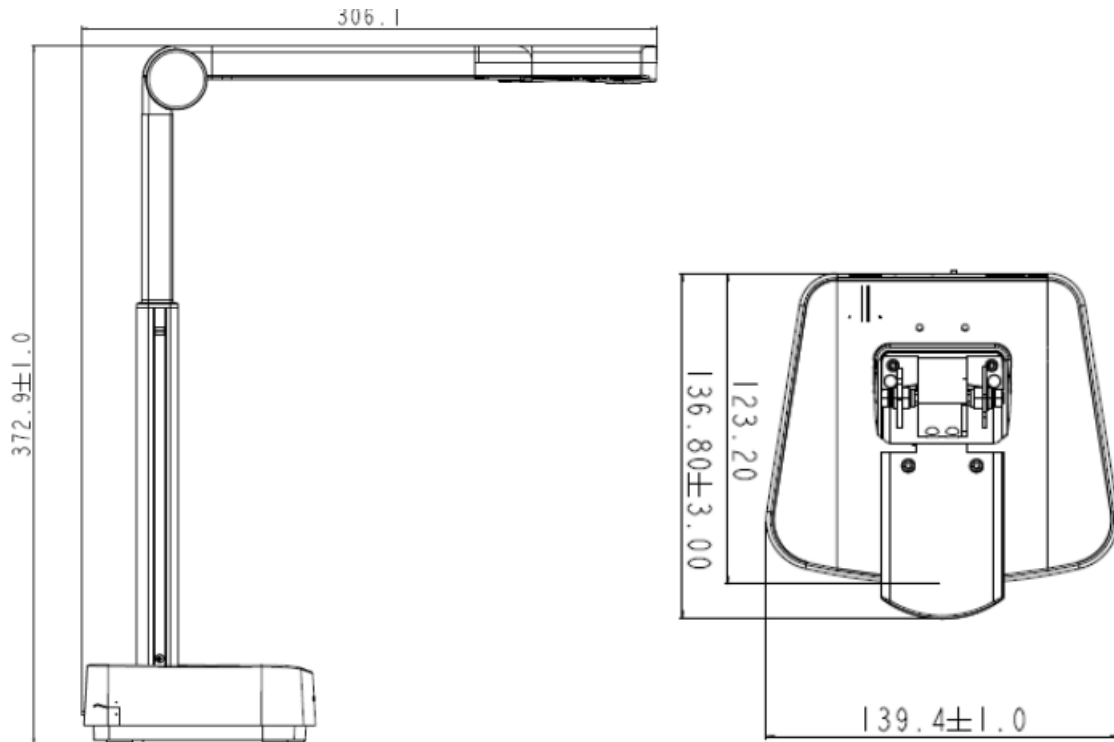
Relative position of the presenter and document



Installation and Connections

Machine Size

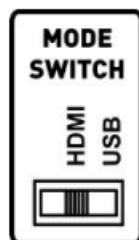
- **Length** x Width x Height: Extended 306 x 140 x 373 mm
- **Closed** 137 x 140 x 270 mm
- **Weight:** 1.2 kg



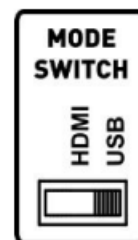
Installation and setup

- Please set up the DIP switch setting first. Refer to Chapter 8 DIP Switch Setting
- Please confirm that the product is switched to the desired mode (**HDMI/USB**)

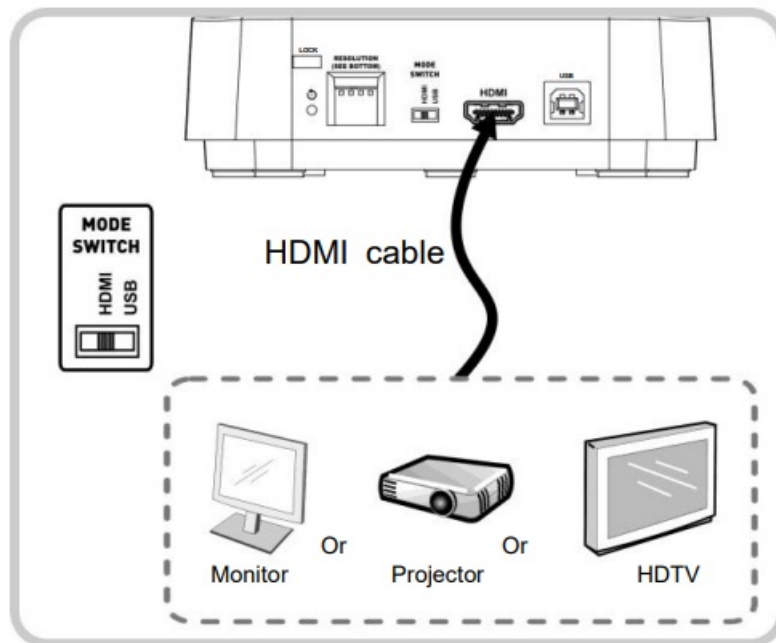
HDMI Mode



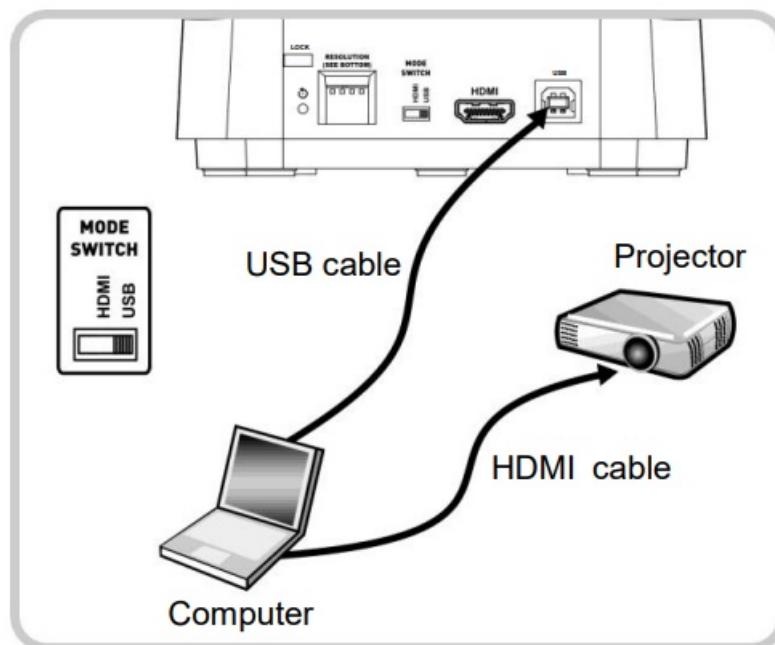
USB Mode



Connect to a projector, monitor, or HDTV (HDMI mode)



Connect to a computer and use Lumens™ software (USB)



- **<Remark>Please** download the relevant software from Lumen's website.

Installing Application Software

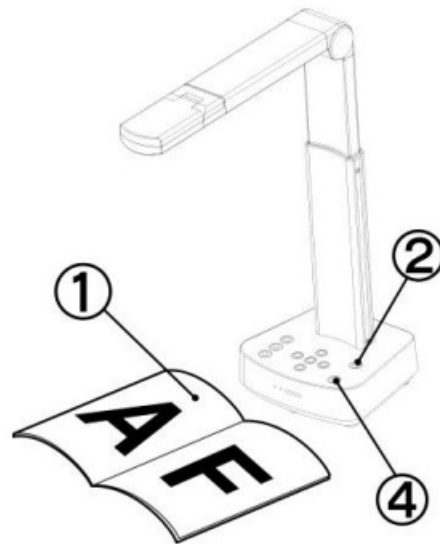
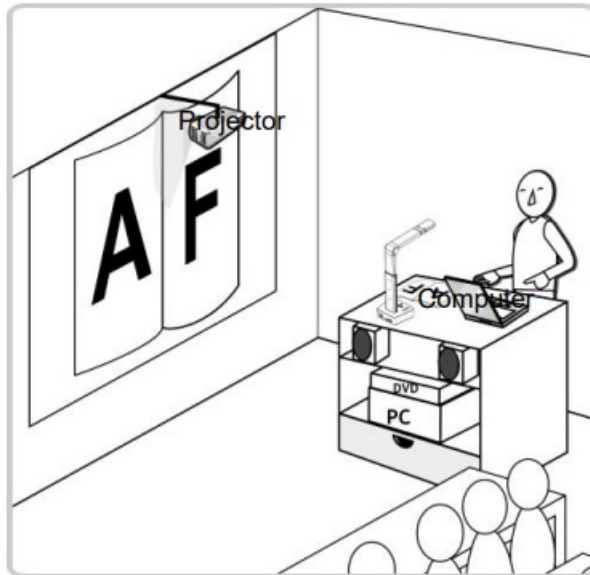
- The application software installed on the computer enables you to
- Control DC-F80.
- Capture and record images.
- Annotate the image, highlight important details, and save it.
- Support the full-screen function.
- **Note** Please download the relevant software from the Lumens website.
- For installation steps and software operation, please refer to the Ladibug™ 4K software user manual.



System Requirements

- **Windows System:** Windows 7 or later
- **Chrome** system
- **Mac System:** Mac OS X 10.12 and above


Start Using

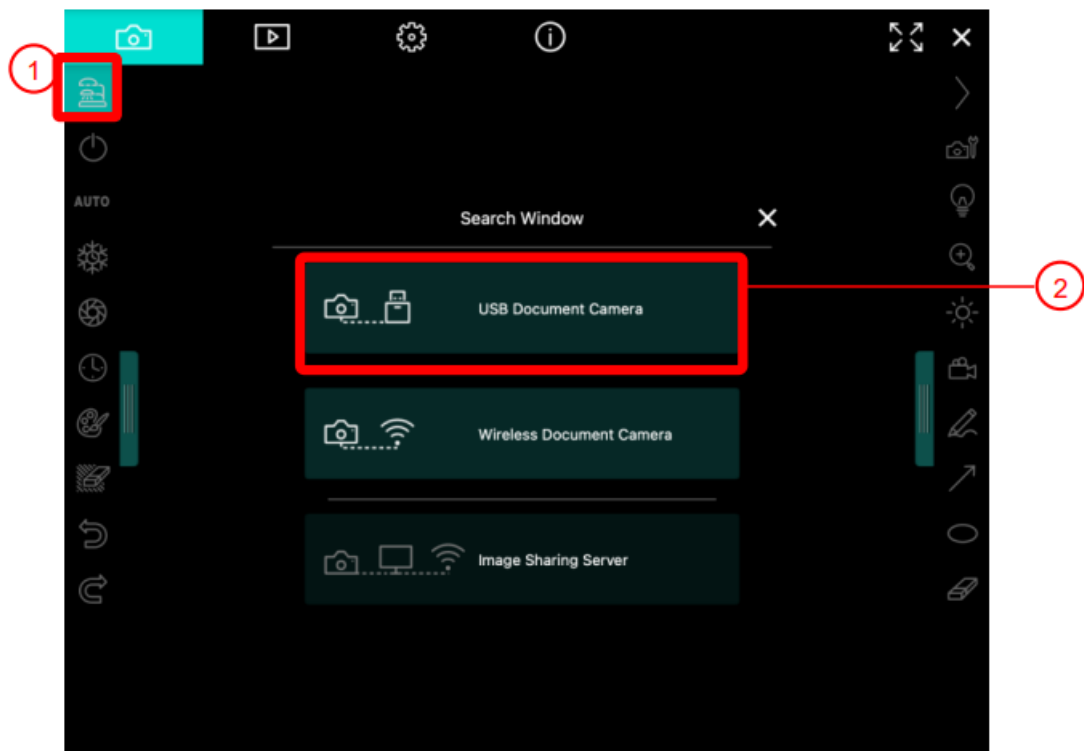
Direct Use (HDMI Mode)



1. Place an object to be displayed under the camera.
2. Power on the power  and adjust the operation mode according to the connection method.
3. Adjust the support arm and lens to the appropriate positions.
4. Press the [AUTO TUNE]  button to optimize the image.
5. You are ready to teach/present.

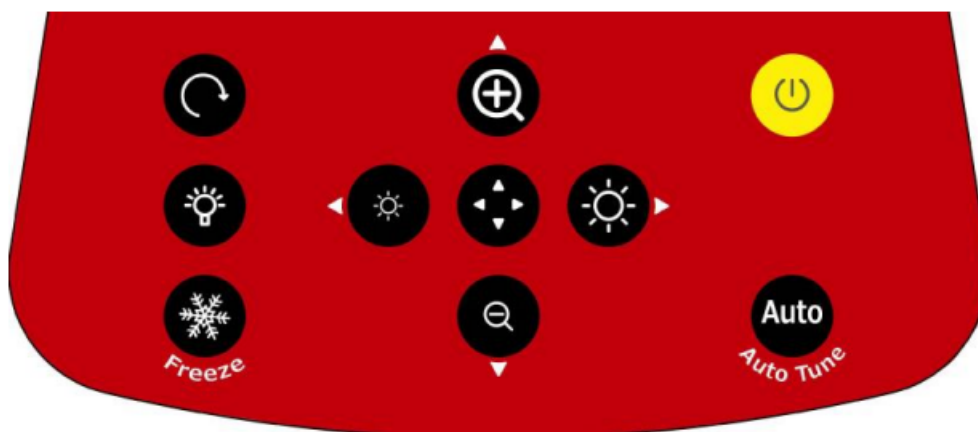
Use with Ladibug (USB Mode)

1. Switch to USB mode, and use a USB cable to connect DC-F80 and the computer
2. Open Ladibug, click  to open [Search Window] and select [USB Document Camera]



3. You can start using DC-F80

Introductions to Control Panel Buttons



Icon	Function Descriptions
	Power on and off ➤ Short press: Power on (under standby) ➤ Press and hold for 1 second: Power off (under power on) ➤ Press and hold for 10 seconds: Forcibly power off the system
Auto Auto Tune	Automatically adjust the image to have the best brightness and focusing performance
	Left, right, up, down buttons, used for moving in a direction at the partial enlarged mode
	Enable/Disable the partial enlarged mode
	Adjust the brightness of the image
	Zoom in/out images
	Rotate image: 0°/90°/180°/270°/Vertical flip/Horizontal flip
	LED lamp mode toggle switch: Off/Brightness 1/Brightness 2/Brightness 3 <Description> Brightness 3 is the brightest state
Freeze	Freeze the current image to remain temporarily on the screen. Press again to defreeze

Descriptions of Major Functions


I would like to automatically adjust the image to have the best brightness and focusing performance

- Press [Auto Tune] for the best brightness and focusing performance.



I would like to freeze the live image

- Press FREEZE to freeze the current image on the screen. Press again to lift the freeze.



I would like to turn on/off the lamp

- The default state of the lamp is of f . Press  to turn the LED lamp on or off. There are three levels of brightness.


I would like to zoom in/out images

- Press  to zoom in the image.
- Press  to zoom out the image.







I would like to adjust the brightness

- Press  to make it brighter.
- Press  to make it darker.

I would like to rotate the image

- Press  to rotate the image. (The sequence of switching is: 0°/90°/180°/270°/Vertical flip/Horizontal flip

I would like to enlarge a part of the image

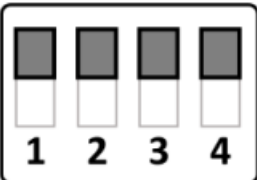
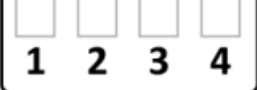

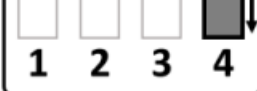
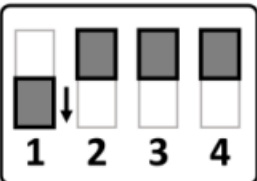
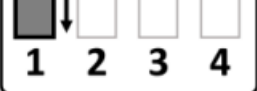

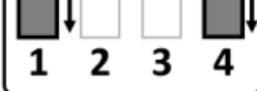
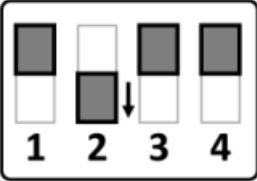
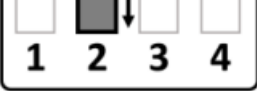
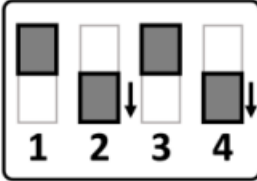
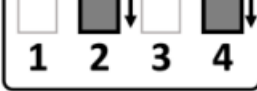
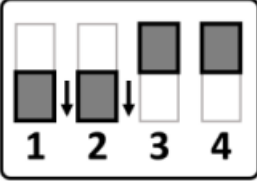
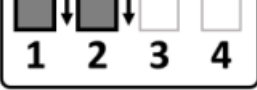
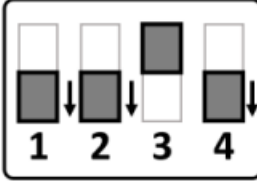
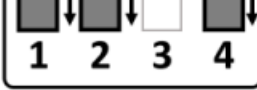
1. Press  to activate the partial enlarged mode.
2. Press , , , or  to move and view the partial enlarged images.
3. Press  to exit the partial enlarged mode.

DIP Switch Setting

Description of DIP

DIP	Function Descriptions
DIP1 & DIP2	Output Resolution
DIP3	OFF (Normal mode): 30/25 fps, applicable to general scene ON (High-speed mode): 60/50 fps, applicable to support rapidly changing scene (Only applicable to 1080P)
DIP4	OFF 60Hz ON 50Hz

Resolution Switch

Resolution	60Hz	50Hz
1920 x 1080	Off  On  1 2 3 4 (Default Values)	Off  On  1 2 3 4
3840 x 2160	Off  On  1 2 3 4	Off  On  1 2 3 4
1280 x 720	Off  On  1 2 3 4	Off  On  1 2 3 4
1024 x 768	Off  On  1 2 3 4	Off  On  1 2 3 4

Troubleshooting

- This chapter describes problems you may encounter while using DC F80. 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	Boot without power signal	Ensure that the USB cable is connected.
2	There is no image output from DC-F80	<ol style="list-style-type: none"> 1. Check the power. 2. Check all cable connections. Refer to Chapter 4 Installation and Connections in this manual. 3. Check if DIP switch is properly set. Please refer to Chapter 8 DIP Switch Setting in this manual for related settings.
3	Unable to focus	Probably the document is too close. Press [ZOOM -] on the control panel . Or pull the document away from the lens. And then press [Auto Focus] button.
4	When the device is turned on, the LED floodlight is off.	The default setting of the LED floodlight is "OFF", please use the control panel to set the LED floodlight as "ON".
5	Ladibug™ and other applications cannot be used simultaneously	Ladibug™ and other applications cannot be used simultaneously. Only one application can be executed at a time. Please close the currently running applications and then execute the application to be used.
6	The output image is too bright, too dark, or vague	Press [AUTO TUNE] button to automatically adjust the image to have the best brightness and focusing performance.
7	The operating steps in the manual are not applicable to the machine	<p>The operating steps in the manual may be not applicable to the machine due to improvement in functions.</p> <p>Please confirm the firmware of your machine and go to check for any updated version on the Lumens website.</p> <p>https://www.mylumens.com/support</p>

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



- **Manufacturer** Lumens Digital Optics Inc.
- **Product Name** DC-F80
- **Model Number** 4K 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,
2. this device must accept any interference received, including interference that may cause undesired operation.

Documents / Resources

<div><div>DC-F80 4K Document Camera</div><div>User Manual - English</div><div></div><div><div>Important!</div><div>Download the latest versions of the Lumens User Manual, including all updates, software, drivers etc., please visit Lumens: https://www.lumens.com/usa/</div></div><div></div></div>	<div>Lumens DC-F80 4K Document Camera [pdf] User Manual</div> <div>DC-F80, DC-F80 4K Document Camera, 4K Document Camera, Document Camera, Camera</div>
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References

- [Download | Lumens](#)
- [User Manual](#)