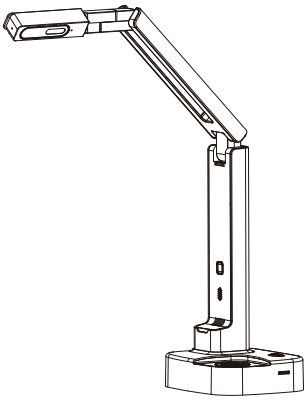
JOYUSING
Your Vision, Our Joy

Document Camera

User Manual



Attentions

Before use:

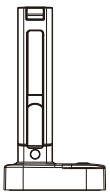
- It is advised to use the provided power adapter in the package with this product.
- Do not leave it under direct sunlight or by heaters. It maybe discolored or damaged.
- Do not place this product in any humid, dusty, or vibrating locations.
- Carry the product by holding the base in both hands. Never hold the product by the arm or the camera head.
- Use a soft, dry cloth for cleaning instead of any volatile solvent.
- When the device is not in use for a while, please turn off the power
- Fold the arm when the product will not be used for long time.

During use:

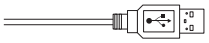
- Please prevent children from operating the device without supervision.
- Recommended environmental conditions: Temperature: 0°C - 40°C (32°F - 104°F).
- Humidity: 30% - 85% (No condensation).
- Use the product on a stable base, desk, or table.
- Do not turn or flip the camera head or arm to its limitation as below manual instructs.
- Do not point the camera lens directly at the sun. It may be damaged and fails to take pictures.
- Do not look directly to the LED lamps to prevent your eyes from being damaged.
- The product may not be operated properly if a USB hub is used to connect the product and a PC.
- Transfer the data from the TF card onto a device such as a PC to save a backup copy. Malfunction of the product or repairs may cause the data in the TF card to be deleted.
- Be careful to prevent the unit from dropping or overturning.
- Please prevent the camera head to hit the desk top or any other hard objects, or it can be damaged easily.

Packing List

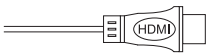
1.Document Camera



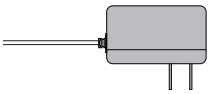
2.USB2.0 Cable



3.HDMI Cable



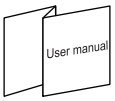
4.DC Adapter (Output:12V1A)



5.Remote Control



6. User Manual



Product Highlights

- 13.0MP 1/3.0” CMOS
- Image capture and processing,

  Audio & Video Recording.
- Auto Focus & 100x Digital Zoom Function.
- Flexible Camera Head with L/R 90° rotation.
- Picture-in-Picture (PIP) Mode.
- Connect directly to Projector / monitor
- 3 level dimmable LED brightness control.
- Built-in Microphone.
- Remote control included.
- Annotate directly without PC software installation and save into TF card.
- Compatible with Mac/Chrome/ Windows XP and above
- Software download: https://www.joyusing.com/download.html
- Detailed Instructions: https://www.joyusing.com/download.html

Image roam

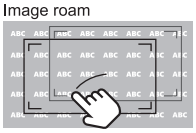
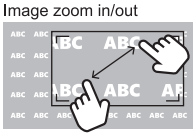
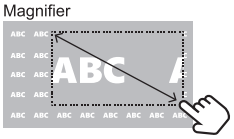


Image zoom in/out



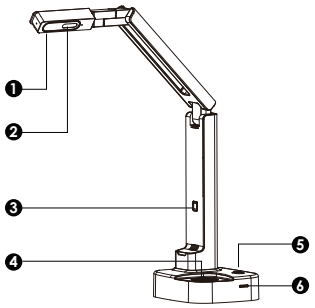
Magnifier

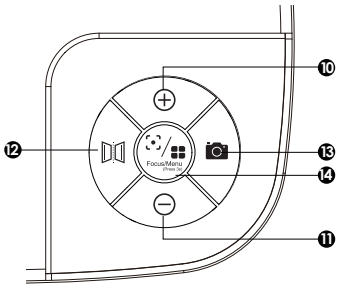




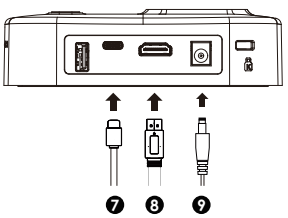
Product Preview

Parts identification





Ports Type

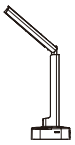


1. Camera Lens
2. LED Light
3. LED Light Switch
4. Control Buttons
5. Ports
6. TF Card Slot
7. USB Type-C
8. HDMI-OUT
9. DC-12V
10. Zoom-in
11. Zoom-out
12. Mirror
13. Snap
14. Auto focus/ Menu

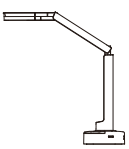
Product Preparation

Setting up

1.Lift up camera arm vertically.



2.Rotate the arm 180° to the reverse side.

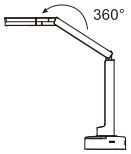


3.Lift up the camera head to be horizontal with the panel.

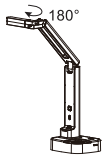


Camera moving parts illustration

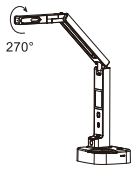
1.Camera arm 180° rotates.



2.Camera arm 135° flips.

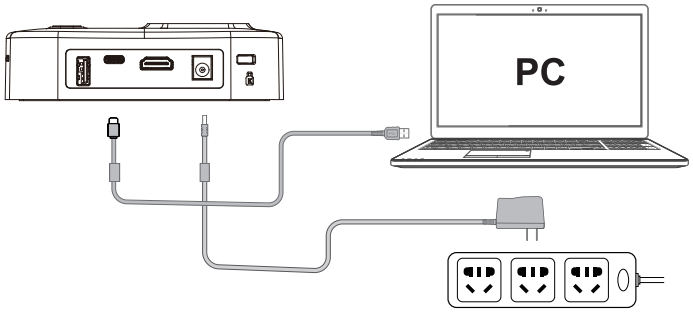


3.Camera head（Left:90°,Right:90°）rotates +135° flips.



PC Connection

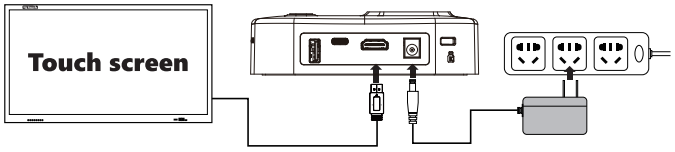
1.Plug in the power adapter to the power socket and Document Camera.
2.Connect the USB cable to the PC and Document Camera.
3.Install the software.



★ **Compatible with Mac/Chrome/Windows XP and above**
★ **Software download:https://www.joyusing.com/download.html**
★ **Detailed Instructions:https://www.joyusing.com/download.html**

PC-Less

1.Plug in the power adapter to power socket and Document Camera.
2.Connect the HDMI cable to the Document Camera and Touch screen.
3.Connect mouse via USB port(optional).



Document Camera and external equipment connections as below:

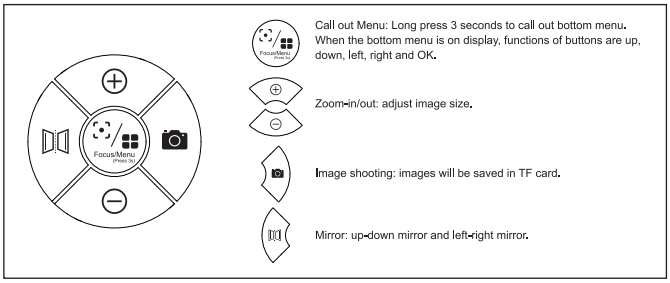
Document Camera Interface	Connection Cable	External Equipment Interface
HDMI_OUT	HDMI — HDMI	HDMI_IN

Menu in HDMI Display



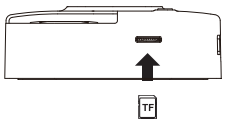
- Auto focus
- Magnifier
- Zoom in (Maximum 100x)
- Zoom out
- Rotate image by 180°
- Mirror image vertically and horizontally
- Freeze image
- Annotate on current image and annotation can be saved
- Take a photo of current image
- Record a video with built-in microphone
- Browse photos and videos
- Contrast captured photo with current image
- Picture in picture
- Resolution settings, change languages and other settings

Buttons Operation



Using the TF card

1.Insert the TF card into the TF card slot of the rear panel.



2.When TF card is inserted successfully, capture images will be saved automatically to TF card.

3.Push the TF card slightly with your finger, the TF card can be removed.

Trouble Shooting

Problems	Possible causes	Solutions
The device does not turn on in normal condition.	The USB cable is not well connected with power.	Reconnect the USB cable.
	The power adapter is not well connected to the device or the power socket.	Make sure the power adapter is connected correctly to the device and power socket.
	The power is not turned on.	Turn on the power.
No image display after device connection.	The device is not connected to the external equipment correctly.	Re-connect the device with the external equipment.
	The external equipment is not selected correctly.	Select the correct external equipment.
	The device is not switched to the correct source of signals.	Switch to the correct source of signals.
	Equipment resolution not right.	Select the right resolution from equipment or Document Camera.
The device fails to capture images or record videos.	TF card memory is insufficient.	Remove some files and clear up the memory space of TF.
The image is blurry.	The object is too close to the camera head.	Use Auto Focus or Manual Focus to adjust the focus.
The image is too dark.	The intensity of the lighting is insufficient.	Turn on the LED light and press the light button on the operating panel to adjust the brightness.
The image does not move.	Image Freeze function is activated.	Press again the Freeze function key on the control panel or the remote control to close the function.
The remote control does not respond.	The battery runs out.	Please replace with new batteries.
	The distance between the remote control and the device is too far.	Please shorten the distance between the remote control and the device.

Specifications

Sensor	1/3.0" CMOS 13.0MP
Resolution	4160*3120; 3840*2160(4K); 3264*2448; 1920*1080(1080P); 1280*960; 1280*720(720P)
Frame Rate	30fps@4K; 60fps@1080P
Zoom	100 X digital zoom
AF/AE/AW	YES
Shooting Size	< A3
Color Display	Color/Black &White/Negative
Image Processing	Contrast ratio, Brightness control, Sharpness, Saturation, Edge enhancement, Digital denoise, Freeze, Split, Picture-in-picture, Mirror, Image rotation, Annotation, USB control
Interface Ports	USB 2.0, HDMI OUT, TF card
HDMI	3840*2160 3264*2448 1920*1080 1280*720
Photograph (Analog)	JPEG, 13M
Video	30fps@4K; 60fps@1080P
Photograph (USB)	JPEG, 1080P, 5M, 13M
Kensington Slot	Yes
DC Power	EA 12V 1A
Built-in MIC	Yes
Control Panel button	Zoom in/out, Mirror, Snap, Auto Focus/Menu, Power, Light
Size	Folded: 236mm*132mm*109mm Open: 305mm*132mm*109mm
Weight	0.95kg