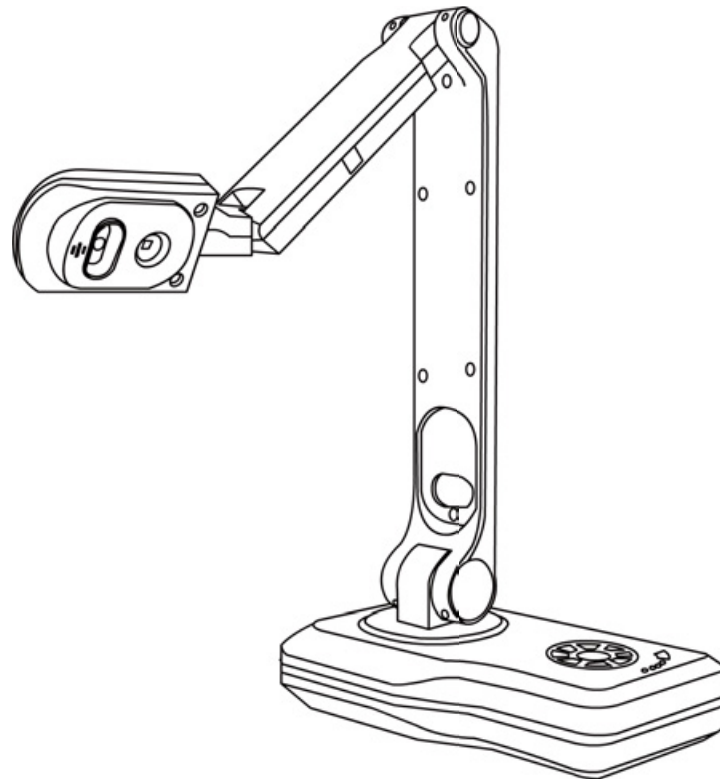




# DOCUMENT CAMERA V500



## USER MANUAL

V1.0 (20200909)

# CATALOGUE

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# 1. Safety Measures

Please be sure to follow the safety instructions when you are in setting and using document camera.

1. Do not tilt the document camera in using.
2. Do not place the document camera near the unstable carts, countertops, or desks.
3. Do not use document cameras at the edge of the water or heat source.
4. Using only accessory devices recommended by the original manufacturer.
5. Please use the power type indicated in the document camera. If you are not sure about it, please check with your distributor or local power company.
6. Please place the document camera in a place where the plug can be easily removed.
7. When using the plug, please be sure to follow the following safety measures in case of sparks or fires.
  - Please remove the dust from the plug before inserting it into the socket.
  - Please plug in it firmly.
8. Do not share wall sockets, extension wires, or porous sockets with multiple plugs in case of fire or electric shock.
9. Do not place the the wires of document cameras where they will be easily trampled, so as not to wear or damage the wires or plugs.
10. Please unplug the document camera before cleaning it. Please clean it with a wet cloth, do not use liquid or spray cleaner.
11. Do not block the external grooves or holes of digital document camera, because it will obstruct its ventilation and heat dissipation. Do not put the document camera on the sofa, carpet or other soft surface; Do not install the document camera in an embed manner unless proper ventilation is provided.
12. Do not plug foreign matter into the groove of the document camera. Please do not wet the document camera with liquid.
13. Do not operate the document camera on your own thoughts. Please operate it with specially instructed in the user manual. Opening or removing the outer cover may cause dangerous voltage or other hazards.
14. Please unplug the power during thunderstorms or long time without using. Do not place

the document camera or remote controller on vibrating things or hot objects, such as cars, oven, etc.

15. If you have the following problems, please unplug the digital document camera and ask for our after-sales & maintenance service

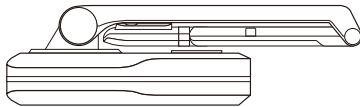
- When the power cable or plug is worn out or damaged.
- When the document camera is wet with liquid, rain, or water.

<Note>

- The remote controller with the wrong model battery may be unable to work. Please discard the old batteries as instructed
- Do not expose the device to rain or moisture in case it will cause fire or electric shock.

## 2. List of Accessories

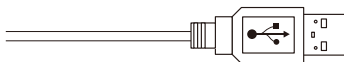
### 1.Document Camera



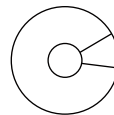
### 5.Remote Controller



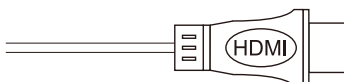
### 2.USB2.0 Cable



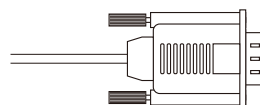
### 6.CD



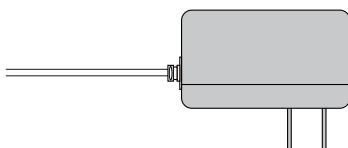
### 3.HDMI Cable



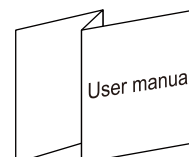
### 7. VGA Cable



### 4.DC Adapter (Output:12V1A)



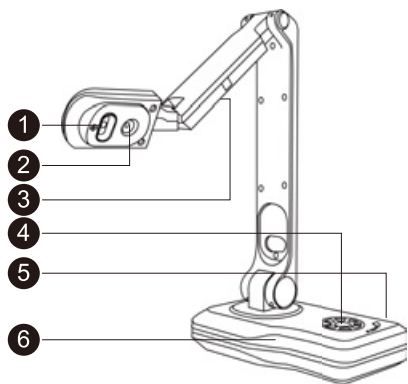
### 8.User Manual



# 3. Operating Instructions

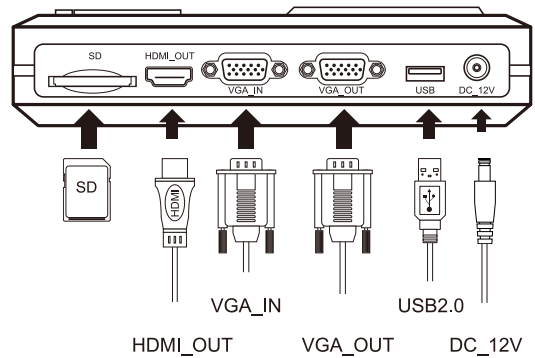
## ▶ Product Preview

### Parts identification

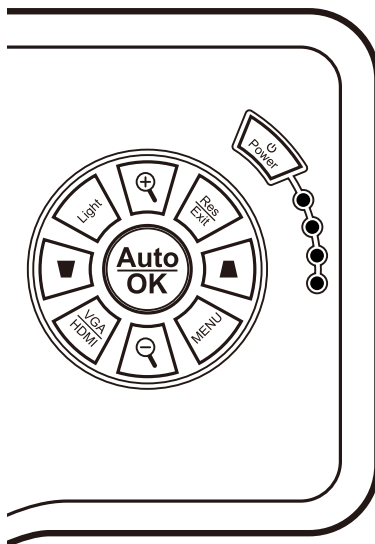


- 1-Camera Lens
- 2-LED Light
- 3-LED Lights
- 4-Control Buttons
- 5-Interface Ports
- 6-Base

### Side panel port illustration



## ▶ Operating panel illustration

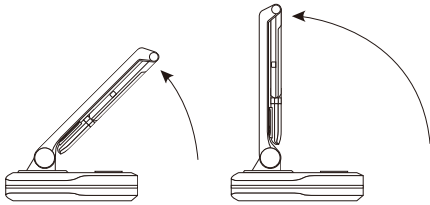


- Turn on the power
- Zoom in current image
- Zoom out current image
- Function selection
- Function selection
- Turn on/off and adjust the LED lights
- Press to realize the function/auto focus
- Change the resolution/back to main menu
- Change to VGA/HDMI
- Go to the main menu

## ► Product Preparation

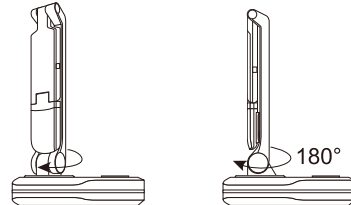
### Setting up

1. Lift up camera arm vertically.

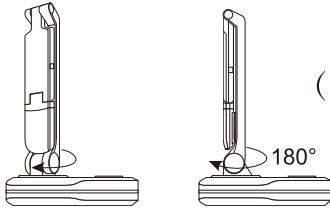


### Camera moving parts illustration

1. Camera arm 180° rotates.

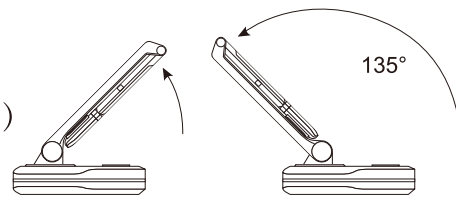


2. Rotate the arm 180° to the reverse side.

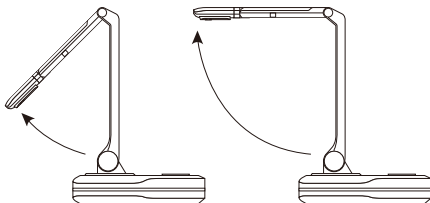


(Left:90°,Right:90°)

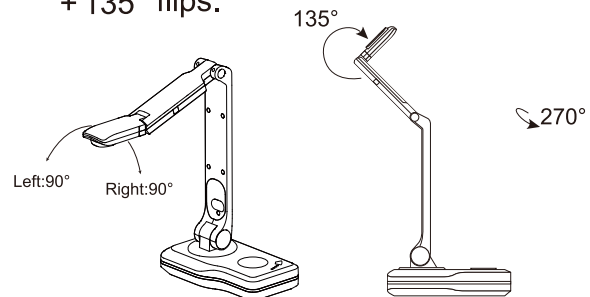
2. Camera arm 135° flips.



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



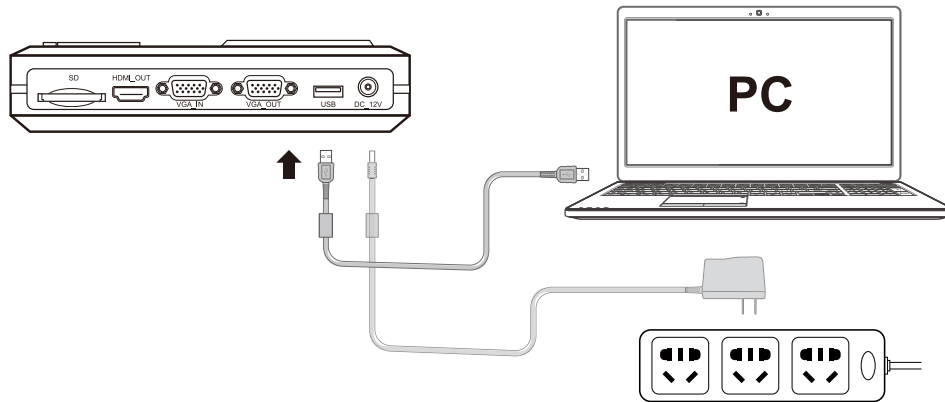
3. Camera head (Left:90°,Right:90°) rotates + 135° flips.



# 4. Installation and Connection

## PC Connection

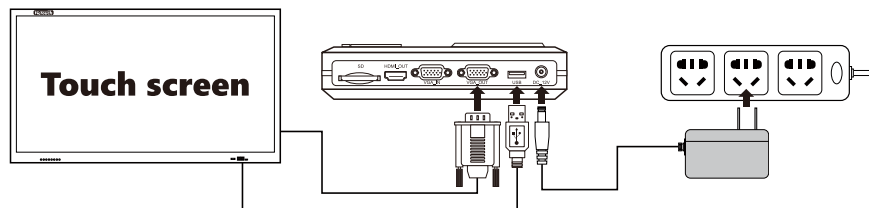
1. Plug in the power adapter to the power socket and Document Camera.
2. Connect the USB cable to the PC and Document Camera.
3. Install the software.



- ★ 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/VGA cable to the Document Camera and Touch screen.
3. Connect the USB cable to the Document Camera and Touch screen (touch usb port).



\*Calibration need to be done first for the touch function after connection.

Document Camera and external equipment connections as below:

Document Camera Interface	Connection Cable	External Equipment Interface
HDMI_OUT 		HDMI_IN 
VGA_OUT 		VGA_IN 
VGA_IN 		VGA_OUT 

## 5. Start to Work

















1. Please place the document you would like to scan under the document camera.
2. Turn on.
3. Adjust the document camera to the appropriate position.
4. Press the button of [AUTO/OK] to adjust the image to optimization. Then, you can start teaching.
  - If the lens is moved, please fix the camera again and press [AUTO/OK] to refocus.

### Function Description of Remote Controller and Off-line Software



















## 6. Function Description of Remote Control

NAME/ICON	FUNCTIUON DESCRIPTION	OPERATION METHOD
MENU 	For menu interface of the off-line program	Press the remote controller
RESOLUTION 	Optional resolution	Press the remote controller for 3s
VGA SWITCH 	Switchable signal source 1. Default the real time image 2.VGA or HDMI output	Press the remote controller for 3s Do as the instruction.
PHOTO 	Real-time pictures can be photographed and stored.	Insert SD card and press the remote controller
RECORD 	Real-time pictures can be recorded and stored.	Insert SD card and press the remote controller
ZOOM IN, ZOOM OUT, NEAR, FAR 	Up, down, left, right Zoom in: Zoom in for real time image Zoom out: Zoom in for real time image Near/far: The focal length can be adjusted and focus mode can be set	Press the remote controller
ONLINE 	Online or off-line is optional	Press the remote controller for 3s and then choose it
EXIT 	Back to last step	Press the remote controller
BROWSE 	Browse the photo album and video in SD card	SD
LIGHT 	LED light is controllable	Press the remote controller
FREEZE 	Freeze/unfreeze the screen	Press the remote controller
SPLIT 	Real time images and SD memory images can be split and contrasted.	Press the remote controller
TEXT/IMG 	Switch the format of real time images freely	Press the remote controller
ROTATE 	Real time images can be rotated 90/180/270°	Press the remote controller
Mirror 	Real time images can be adjusted vertically and horizontally	Press the remote controller
MONO/NEG 	Adjust the filter effect for images (color、MONO、NGE)	Press the remote controller

# 7. Off-line Interface Description



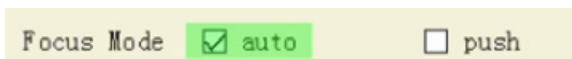
- |   |                                 |   |  |
|---|---------------------------------|---|--|
|  | Automatic Focusing.             |  | Contrast captured image with live image.                             |
|  | Magnify the selected area.      |  | Capture a still image.   |
|  | Zoom in the image.              |  | Record a video clip.   |
|  | Zoom out the image.             |  | Browse images and videos in SD card.                                 |
|  | Rotate image by 90/180/270/360. |  | Display captured images with live image on right top window.         |
|  | Mirror the current image.       |  | Annotate on the screen and the annotation can be saved into SD card. |
|  | Freeze the image.               |  | Camera settings and other settings.                                  |

## 5.3 Function Description for the Left Icons

### Annotate



Home, clear all, open, shape selected, line, save, repeal, eraser.



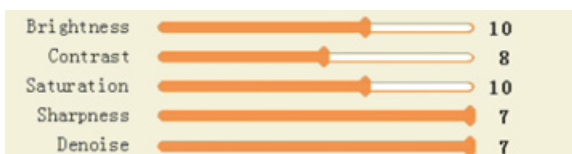
Focus mode can be set as auto or push.



You can adjust the focus length.



Filter effects and image modes are available.



The image parameters can be adjusted, if you slide the scroll bar to left or right, including brightness, contrast, saturation, sharpness, denoise, volume.



You can adjust the volume in details.



Light1 and light2 are available for you, and light1 has three level to control.



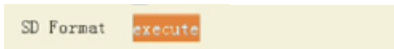
Selecting a stable flicker should be based on the local Hertz being used.



Eight languages are available for you to choose.



You can choose the detail resolution by tick.



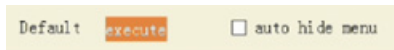
SD format is available.



The preview screen can be corrected by touch screen.



You can restore the default parameter or select auto hide menu.



Version NO. for Current off-line program.



Save all above settings and exit current screen.

## FAQ

NO	Questions	Solutions
1	Unable to focus	Maybe the file is too close with lens, so you can put a certain distance between them, and finally press the autofocus button again.
2	The image is mono	Please check the setting of image para. If it was set to mono, you can switch to color mode.
3	What kind of format does SD card support	Support FAT32
4	The projector shows blue when it is connected with the device	Please check whether the PC software is also running. If it really happens, you can use the remote control to select off-line.
5	VOA connection is working normal, but no image output	Please check your projector or large screen is in the right VGA_OUT port.
6	Built-in bluetooth mouse	Support