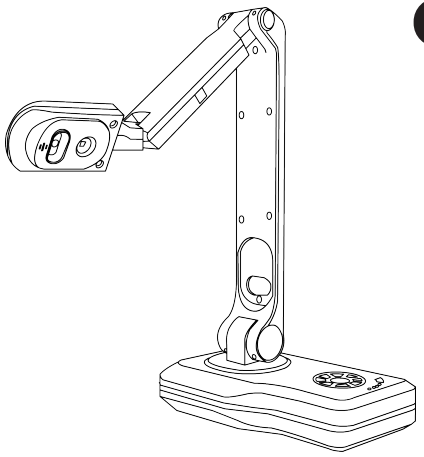
JOYUSING

# Document Camera

**User Manual**



# Attentions

**Before use**:

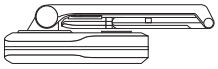
- It is advised to use the provided power adapter in the package with this product.
- Do not leave it under direct sunlight or by heaters. It maybe discolored or damaged.
- Do not place this product in any humid, dusty, or vibrating locations.
- Carry the product by holding the base in both hands. Never 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:**

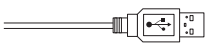
- Please prevent children from operating the device without supervision.
- Recommended environmental conditions: Temperature: 0°C - 40°C (32°F - 104°F).
- Humidity: 30% - 85% (No condensation).
- Use the product on a stable base, desk, or table.
- Do not turn or flip the camera head or arm to its limitation 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 SD 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 SD 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

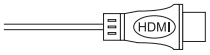
**1.Document Camera**



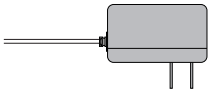
**2.USB2.0 Cable**



**3.HDMI Cable**




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



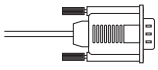
**5.Remote Control**



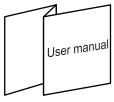
**6.CD (Optional)**



**7. VGA Cable (Optional)**



**8.User Manual**




# Product Highlights

- 8.0 Mega Pixel 1/3.2" CMOS(3264 × 2448).
- 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
- 5 level dimmable LED brightness control.
- Built-in Microphone.
- Remote control included.
- Annotate directly without PC software installation and save into SD card.
- Built-in large capacity battery, 9 hours continuous working time



- Support touch function when connected with Touch screen.

Image roam

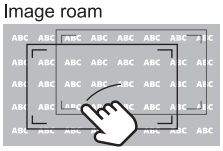
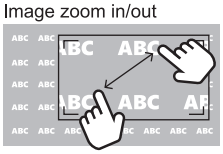
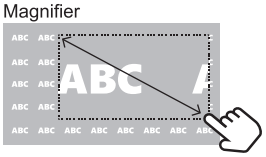


Image zoom in/out

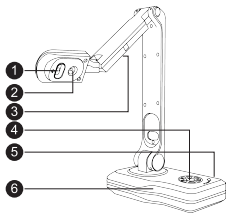


Magnifier



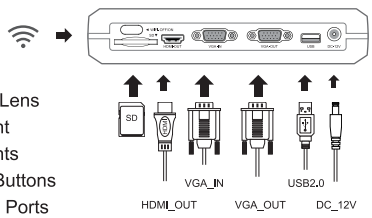
# Product Preview

**Parts identification**

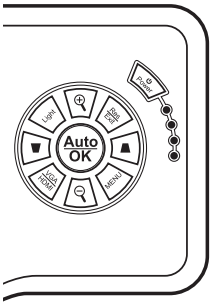


1-Camera Lens
2-LED Light
3-LED Lights
4-Control Buttons
5-Interface Ports
6-Base

**Side panel port illustration**




**Operating panel illustration**

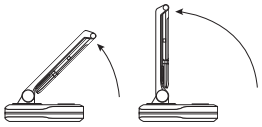



- Turn on the power
- Zoom in current image
- Zoom out current image
- Function selection
- Function selection
- Turn on/off and adjust the LED lights
- Press to realize the function/auto focus
- Change the resolution/back to main menu
- Change to VGA/HDMI
- Go to the main menu

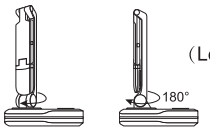
# Product Preparation

**Setting up**

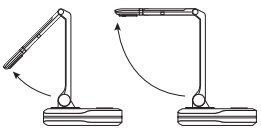
1.Lift up camera arm vertically.



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

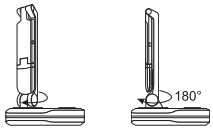



3.Lift up the camera head to be horizontal with the panel.

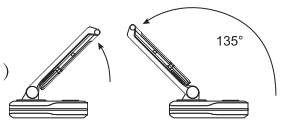


**Camera moving parts illustration**

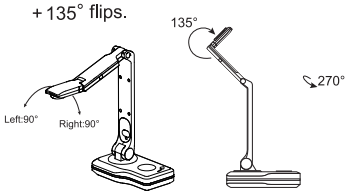
1.Camera arm 180° rotates.




2.Camera arm 135° flips.

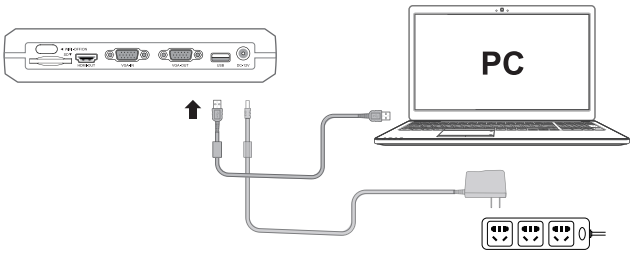



3.Camera head（Left:90°,Right:90°）rotates +135° flips.



# 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.




## Download software

### Software for Windows

Visit Joyusing Official Website:
**www.joyusing.com > Software > Joyusing-Visualizer**
Enter the URL
**https://www.joyusing.com/download-visualizer.html**

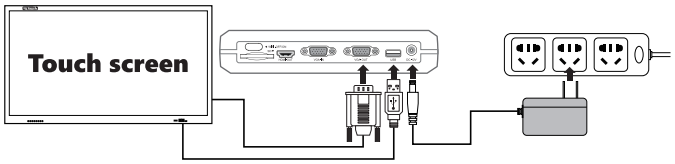



### Software on Apple Store

Mac system can directly search for ***Doccamera*** in the application store to download the software.

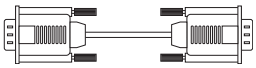
# PC-Less

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 |



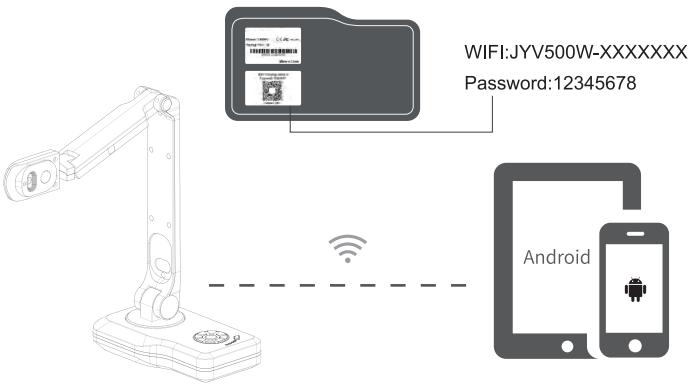
# Menu in HDMI/VGA Display

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

- pen
- line width
- Shape
- Color
- Erase
- block Clear
- Clear all
- repeal
- Save
- Home

# WiFi Connection

1. Scanning APP QR code
2. Download and install APP
3.Android settings ➡ WiFi & internet ➡ Find the device in available network list. ➡ Input password to connet
4.Open APP and connect WIFI




# 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. | SD card memory is insufficient. | Remove some files and clear up the memory space of SD. |
| 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. |
| Touch does not respond on Touch screen. | USB cable not well connected. | Reconnect the USB cable |
| | No calibration process after connection. | Do the calibration |

# Specifications

| | |
|---|---|
| Pickup Device | CMOS 1/3.2" 8MP |
| Resolution | 3264*2448(8MP) 2592*1944(5MP) 1920*1080(1080p) 1280*1024(SXGA) 1280*720 (720p) |
| Frame Rate | 60fps@1920*1080 |
| Zoom | 100X 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, VGA IN, VGA OUT, SD |
| HDMI &VGA | 1024*768@60HZ 1280*720@60HZ 1280*1024@60HZ 1920*1080@60HZ |
| Photograph (Analog) | JPEG, 8M |
| Video | 720P/30fps,1080P/15fps (AVI) |
| Photograph (USB) | 1080P, 8M |
| UAC | UAC, WIN, MAC MJPG10fps@3264*2448 MJPG10fps@2592*1994 MJPG30fps@1920*1080 MJPG30fps@1280*720 MJPG30fps@800*600 |
| DC Power | EA 12V 1A |
| Built-in MIC | YES |
| Control Panel button | Zoom in, Zoom out, Function Selection, Auto Focus/OK, Light, Menu, VGA/HDMI, Resolution/Exit, Power |
| Size | Folded: 312mm*110mm*85mm Open: 185mm*295mm*325mm |
| Weight | 1.1kg |