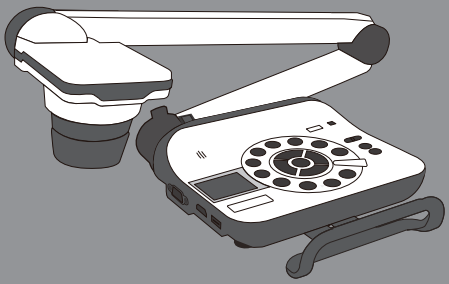
DC557

Document Camera



English

User manual

• **Welcome:**

Thanks for purchasing this product. Please read the instructions carefully before using this product.

• **FCC Compliance Statement (Class A):**
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.

• **Federal Communications Commission (FCC) Statement :**
This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules.
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

• **European Community Compliance Statement (Class A):**

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

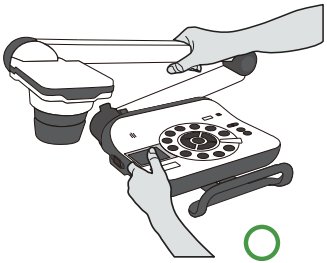
The symbol of the crossed out wheeled bin indicates this product should not be placed in municipal waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment.

Warning

1. Do not look directly at the LED light source,which may cause retinal damage.



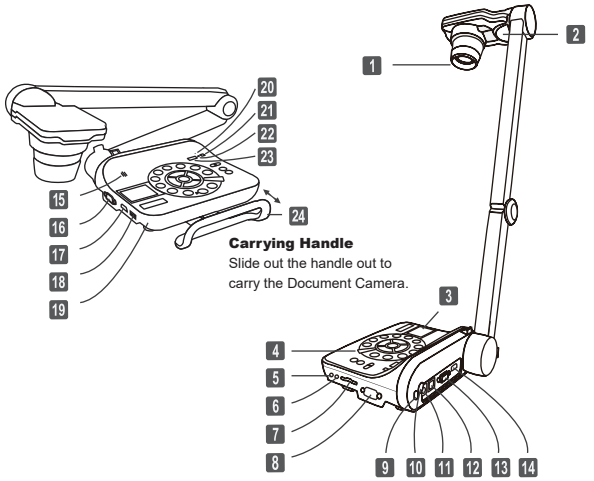
2. Carry the product by holding the lower part of the main unit in both hands. Never hold the product by the arm or the camera head only.



3. The camera can be damaged if it hits a desk surface or any hard object.
4. Never turn the arm in the opposite direction.

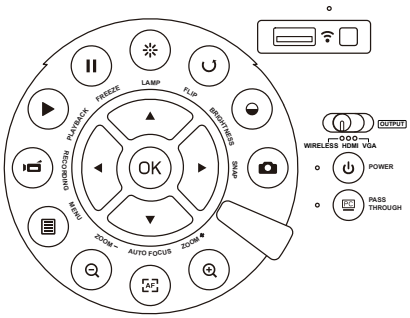
Preparing the Document Camera

» Knowing the Document Camera Parts



1. Camera Head
2. LED Lamp
3. LCD Display
4. Control Panel
5. Audio Output Port
6. Audio Input Port
7. SD Card Slot
8. RS232 Port
9. Anti-theft Slot
10. Remote Control Signal Receiver
11. DC 5V Power Socket
12. USB Port
13. VGA Output Port
14. HDMI Output Port
15. Speaker
16. VGA Input Port
17. HDMI Input Port
18. USB Port (For USB Flash Drive)
19. Remote Control Signal Receiver
20. Microphone
21. Wireless Connection Button
22. Wireless Connection Indicator
23. USB Port (For Wireless Dongle)
24. Carrying Handle

» Control Panel



Button	Function
	Enable wireless function
	Output switch
	Power on/off
	Pass the signal from PC
	Capture a still image
	Show/hide brightness adjustment bar.
	Invert image 180°
	Turn on/off the LED lamp and adjust the brightness.
	"Freeze" the current image or "Pause" the clip while playing video

Button	Function
	Enter playback mode to display recorded still images and video clips
	Record a video clip
	Show or hide Menu
	Zoom out
	One-time auto focus
	Zoom in
	Direction button

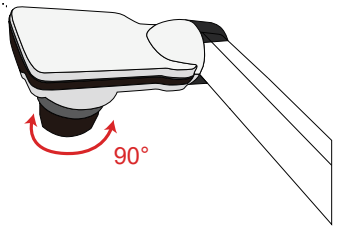
» Remote Control

Button	Function
	Brightness hotkey
	Power on / off
	Freeze current image. * Pause the clip while playing videos
ICON	Show or hide on-screen icons
	To show or hide OSD menu
	Playback mode to display recorded pictures and video clips
	Invert image 180°
	Select and adjust
	Record a video clip
	Capture a still image
/	Zoom out / Zoom in
AF	One-shot auto focus
/	Use the level bar to adjust the focus manually
2X	2X or 4X digital zoom
	Highlight function on / off
	Mask function on / off
	Macro / Normal switch



Button	Function
	Adjust highlighted / masked area size
	Set color for highlighted / masked area
VOLUME	Increase / decrease the sound volume.
	Picture in Picture function on / off *For displaying a still image as an insert while displaying another image.

- Infrared remote control can only be used in proximity to the unit.
- Remove the battery cover and load the batteries into the battery compartment correctly according to the "+" and "-" symbols.
- Be sure to use two AAA batteries. Do not use new and old batteries or different battery types together.



- **Camera Head**

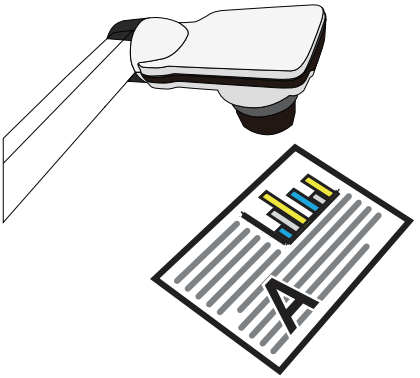
Roll the lens rotator to rotate image 90°.

- **Illumination Lamp**

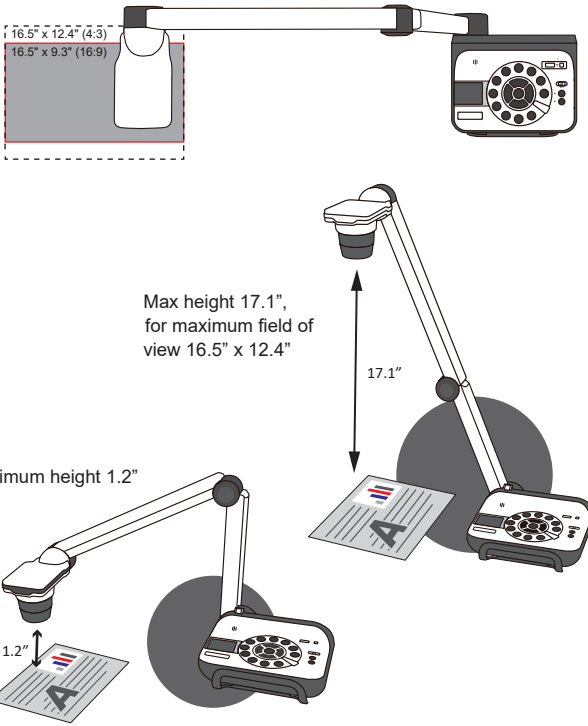
If you are in a dark environment, please turn the LED lamp on to get better exposure.



1. Press the LED lamp button ( ) on the base to turn on/off the LED lamp.
2. Adjust the brightness by pressing the lamp button ( )



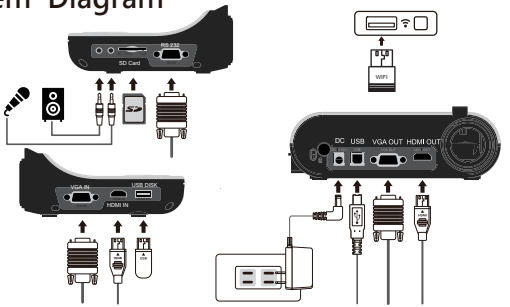
Recommended working area



If the document is not put in the recommend working area, the image should be rotated by FLIP button ( ) on control panel or remote control.

Making the Connections

System Diagram



Step 1 / Plugging in the Power Outlet

Use power adapter to connect DC IN connector on the product to a standard 100V~240V AC power outlet.

! The type of power adapter is depends on your country / region.

Step 2 / Output Resolution and Aspect Ratio.

Various output resolutions are available depending on the output and aspect ratio setting. Please refer to the table listed below :

Output	Aspect Ratio	Resolution		Output Button
HDMI	16:9	4K2K	3840x2160	
	16:9	Full HD	1920x1080	
	16:9	720P	1280x720	
VGA	4:3	UXGA	1600x1200	
	4:3	XGA	1024x768	
Wireless display	16:9	Full HD	1920x1080	

! When the output button is set to Wireless mode, the screen on the document camera will display the OSD to facilitate operations during wireless connections. If the output button is set to HDMI or VGA mode, the OSD will not be displayed to facilitate for real-time previewing.

Step 3 / Connecting with Components

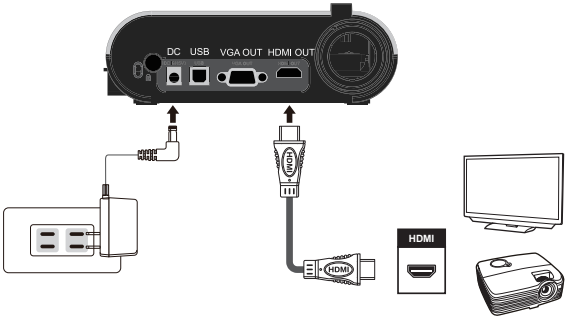
Product Port		Cable	Display Device Port	PC Port
VGA	RGB OUT-PUT		RGB INPUT	
	RGB INPUT			RGB OUTPUT
HDMI	HDMI OUT		HDMI-INPUT	
	HDMI IN			HDMI-OUTPUT
USB	TYPE B Port			TYPE A Port
Wireless display	WIRELESS		Miracast compatible display device	

Document camera will downgrade the output resolution automatically when the connected display device doesn't support such higher resolution.

▸ HD TV

- **Connect via HDMI OUTPUT**

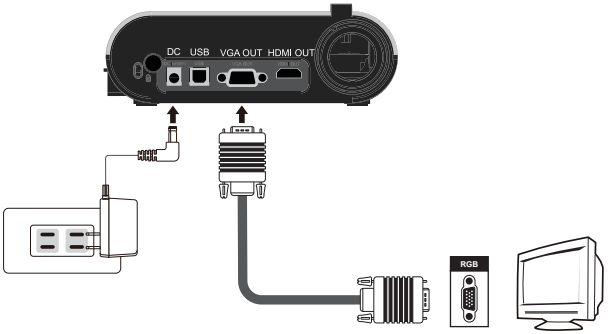
To display images, you can use HDMI cable to connect to your HD monitor's HDMI port via the HDMI OUT connector.



▸ Standard TV

- **Connect via VGA OUTPUT**

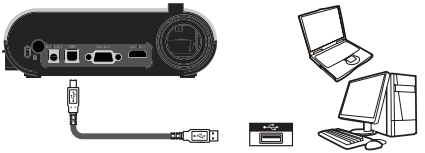
To display images, you can use VGA cable to connect to your television's RGB port via the VGA OUT connector.



▸ Using product as a PC cam

• Connect via USB

1. Connect the product to your computer
   Turn on your computer, then connect the accessory USB cable to the USB port of your computer.
   Make sure the connector and the port are aligned correctly.
2. Switch to PC Cam mode
   2-1 Connect the other end of the USB cable to the document camera.
   2-2 Turn on the document camera
   2-3 Press MENU ( ) → Setting → select USB Connect → select PC Cam ( ) and press OK button to confirm.
3. Launch PC Camera
   After the product is correctly connected to and detected by your PC, you are ready to use PC Camera function.



• Copying files to your computer

Please notice that the video clips are recorded in MOV format and are compiled as CLIPxxxx.mov (xxxx are four serial numbers).

Before viewing these videos on your PC, you may need to install some media programs.

1. Turn on the document camera.
2. Connect the product to your computer with USB cable.
3. Press MENU ( ) → select “USB Connect“ → choose “Disk“.

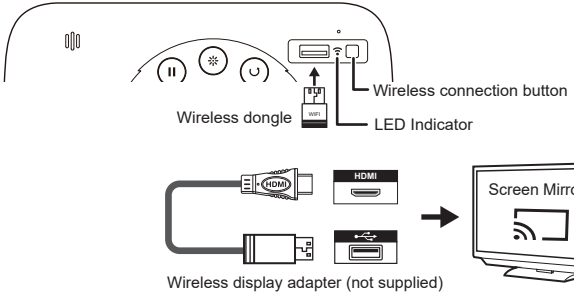
The built-in memory or external memory will be detected.

Then, You can view the image data on a SD card on the PC’s viewer software or simply cut/copy and paste the file to your PC.

The USB flash drive can't be read in the disk mode, please insert the USB flash drive directly to your computer to read the image data.

▸ Miracast Connection

Please make sure your display device supports Miracast function. If not, you can connect a Miracast wireless display adapter (not supplied) to your display device to implement Miracast function.



1. Plug in the Wireless dongle in the USB-A port of the document camera and press the Wireless connection button to enable the miracast function. The connection status can be checked with the LED indicator.

Status	Indication
Wifi waiting	Slow blinking blue
Wifi connecting	Fast blinking blue
Wifi connected	Solid blue

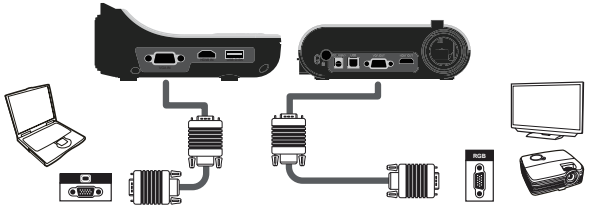
2. A list of available display devices is shown on the document camera screen.
3. Select the name of your display device and press “Enter”to start the connection. (The first connection to a display device may take some time to establish the connection.)
4. After a successful connection, document camera will mirror its live screen to the display device.
5. If you want to exit the connection, press the Wifi button again and select “Yes” to disconnect Wireless connection.

Only zoom +/- and auto focus functions are supported in Miracast mode.

• Passthrough Function

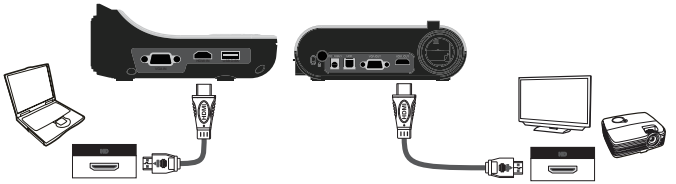
▸Connect via VGA cable

Use VGA cable to connect VGA IN connector on the product to the VGA OUT connector on the computer.



▸Connect via HDMI cable

Use HDMI cable to connect HDMI IN connector on the product to the HDMI OUT connector on the computer.



1. To display computer image, press PASSTHROUGH button (PC) on the control panel.
2. Press PASSTHROUGH button (PC) again to exit the Passthrough function.

> ! For laptop to output display mode, use the keyboard command (Fn + ▢/▣) to swtich between the display modes. For different command, please refer to your laptop manual.
>
> ! The signal is only pass through from VGA IN port to VGA OUT port or HDMI In port to HDMI Out port on document camera.

• Inserting and Ejecting a SD / SDHC card (Not supplied)

1. Insert a memory card (SD/SDHC) into the SD slot on the document camera.
2. When the card is inserted successfully, the icon ( ) will appear on screen and the internal memory will become inaccessible.
3. To remove the card, push the card to release it and then pull it out gently.

• Inserting a USB flash drive (Not supplied)

1. Insert a USB flash drive into the USB port on the document camera.
2. When USB the flash drive is inserted successfully, the icon ( ) will appear on screen and the internal memory or memory card will become inaccessible.

- When using a new memory card or USB flash drive, you are recommended to format it with the device. Do not turn off the device while formatting the SD card or USB flash drive.
- Even if your memory card or USB flash drive has been formatted on other devices, you may have to reformat it with the device.
- If no external storage devices are connected, all files will be saved in the built-in memory.

• Recording a video clip / Taking a still picture

1. Set the capture or record resolution.
2. Choose the focus mode according to distance to object:
   Normal mode for 3cm to ∞ @1X ; 30cm to ∞@17X.
   Macro mode ( ) or ( )(★) for 3cm to ∞. Use the Zoom button (/) to zoom in or zoom from the screen.
3. Press the Recording button ( ) to start recording and press it again to stop recording

Output Switch	Resolution Setting	Recording resolution
VGA	XGA	1024 x 768
	UXGA	
	720P	1280 x 720
	WXGA	1280 x 800
HDMI	720P	1280 x 720
	1080P	1920 x 1080
	4K	3840 x 2160

4. Press the Snap button ( ) to take a still picture.

- Adjusting the brightness

1. Press BRIGHTNESS button on the control panel ( ) or remote control ( ).
2. Use (◄ or ►) buttons to increase or decrease the brighness level.

- Zoom Function

Use the Zoom button (/) to zoom in or zoom out the screen.

- Adjusting the focus

• Automatic focus

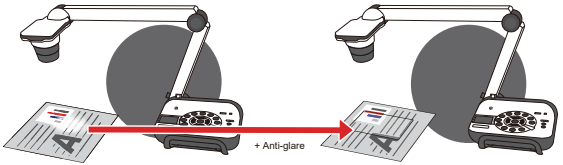
Press AF button (AF) to do a one-time auto focus.
This function provides a one-shot auto focus.

• Manual focus

Use the manual focus buttons (/) on remote control to finetune the focus.

- Anti-glare

Anti-glare sheet is a transparent plastic that is overlaid on top of shiny object or glossy surface to reduce the glare.
To use, simply place the anti-glare sheet on top of shiny object to glossy surface such as magazines to reduce light reflection.



- Playback

1. Press PLAYBACK button (▶)
2. The last recorded picture or video clip will play.
3. Use Up / Down button to choose files.
4. Press SNAP or RECORD button to exit the playback mode.

» Basic Operation

- **Menu options in Preview Mode**

Name	Icon	Option	Description
Brightness		-	Use the Right / Left buttons to make the image brighter / darker
Effect		Graphic	To improve the tint of color-based subjects such as pictures or figures.
		Text	The function is designed especially for text-based documents to which can be enhanced white and black subjects such as characters and lines.
		B&W	To output a black & white camera image.To make the image easier to view,select this when shooting black & white documents etc.
		Negative	To output a negative image.
White Balance		Auto	There are various modes (Auto, Flurescent, Tungsten and Custom) for users to choose and fit in different surroundings.
		Fluorescent	
		Tungsten	
		Custom	
Quick Zoom		2X / 4X	Set the quick zoom to 2X or 4X.
Macro		Normal	Select standard mode for focus distance from 25cm to infinite.
		Macro / Microscope	Select Macro/Microscope mode to take close-ups or while connecting to a microscope.
Image Size		0.8M / 2M / 5M / 8M / 13M	Select the desired still image resolution.
Video Mode		High Quality	Select the desired video quality.
		High Frame Rate	
Display Aspect Mode		Fill Screen	Scale the image to fill the entire screen.
		Native View	Preserve the entire image in its native aspect ratio.
Enable Wireless		-	Enable Miracast function.

Setting			
Beep		On / Off	Enable / disable beep sound
Icon		On / Off	Enable icons to be shown / hidden
Flicker		50Hz / 60Hz	Set flicker frequency to 50Hz or 60Hz. The flicker setting is based on the frequency standard of your local power supply.
USB Connection		Disk	Select “Disk” to enter Mass storage Mode
		PC cam	Select “PC Cam“ to enter PC Cam Mode
		Off	Disable USB function
HDMI Out		720P / 1080P / 4K	Adjust HD-OUTPUT resolution
VGA Out		XGA / UXGA	Adjust VGA-OUTPUT resolution
Language		-	Allows you select the language used for OSD
Clock		-	Set date and time
Format		No / Yes	Format the storage medium. Note that all files stored in the medium will be gone.
Reset default		No / Yes	Restore factory defaults. Note that your current settings will disappear.
Exit		-	Exit Menu.

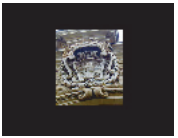
- **Menu options in Playback Mode**

Function	Icon	Option	Description
File Info		-	View the file’s title , saved date and time , size and the length of recording.
Slide show		On / Off	Start a slide show with selected interval time.
Volume		-	Use the Right / Left buttons to adjust volume
Delete one		Yes / No	Delete current file.
Delete all		Yes / No	Delete all images stored in the memory.
Exit		-	Exit Menu.

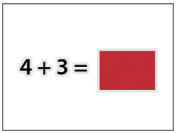
• Highlight function

1. Use the Highlight display to draw attention to a particular section of the output image.
2. Press the Highlight button (▭) on the remote control, and use the direction buttons to move the highlighted area.

• Mask function



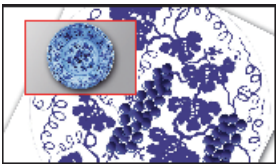
1. You can mask a section of the output image.
2. Press the Mask button (▭) on the remote control, and use the direction buttons to move the masked area.



- Press the Size button (✥) on the remote control, and use the direction buttons to adjust the highlighted / masked size.
- Press the Color button (🎨) on the remote control, and use the direction buttons to adjust the color of highlighted / masked area.

• PIP (Picture in Picture) function

1. Press the PIP button (▭) to display an around quarter-size still image on a live display.
2. Use the left or right button to move the still image to the top left and bottom left.
3. Use the up / down button to change the shift between still images.



• Connect to a microscope

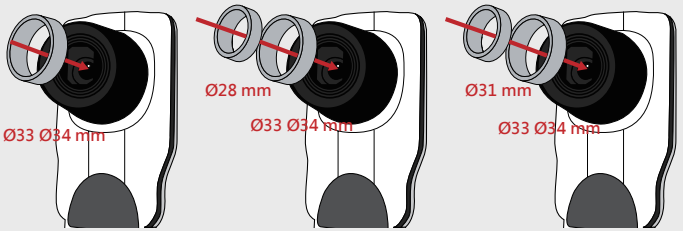
Connect to a microscope enables you to examine microscopic objects on a big screen.

1. Adjust the microscope and focus objects.
2. Choose an appropriate microscope adapter.
3. Microscope adapter accessories are applicable to Ø28mm,Ø31mm, Ø33mm, and Ø34mm eyepieces.

! For eyepieces of about Ø33mm and Ø34mm, only a microscope adaptor with Ø28 or Ø34mm label should be installed.

! For a Ø28mm eyepiece, insert the Ø28mm adapter into the microscope adapter.

! For a Ø31mm eyepiece, insert the Ø31mm adapter into the microscope adapter.



4. Mount the microscope adapter onto the Lens.
5. Switch the focus mode to Macro. Press MENU (▤)--> select Focus (⚙) -->select Macro or press Macro button (🌷)(★) on remote controller.

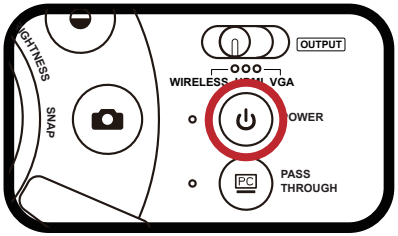
6. Connect the lens with microscope adapter to the microscope.

! If the image is not clear, please adjust the focus of microcope.

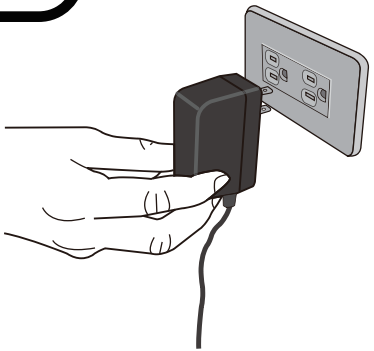
! Press the AF button (AF) or use the manual focus button on remote control to fine-tune the focus.

» Storing

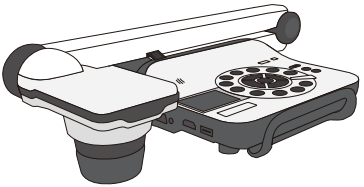
1. Power off the product by long pressing below button.



2. Unplug the AC adapter from the wall outlet. Disconnect the AC Adapter and all cables.



3. Fold the camera head and arms in the way shown in the figure.



» Troubleshooting

Problem	Cause	Solution
Cannot power on normally.	The AC adapter is not correctly connected to the wall outlet or the document camera.	Re-connect one end of the AC adapter to the document camera and the other end to a wall outlet.
Cannot take pictures and video clips.	Out of memory.	Free some space from the SD / MMC card or the internal memory.
	Using a “protected” SD card.	Set the SD card to be written in.
No image output after connecting.	The document camera is not correctly connected to the external device.	Re-connect all related cables with the external device correctly.
	Incorrect input type of display output device.	Set up correct input type of display output device.
	Incorrect output switch setting for display device.	Switch output switch to correct mode.
	PC pass through button indicator is on.	Press [PC] pass through button to turn off the function.
The image is fuzzy.	Probably the distance of object is too close to the lens.	Press AF button to auto focus or adjust by Manual Focus.
		Select Macro mode if the distance is less 30cm.
The image is reverse.	The document is not put in the recommend working area.	Press [↺] button to adjust the direction.
The image dose not move.	Camera image is set to Freeze [❙❙].	Press the [❙❙] button on the control panel again to un-pause.
Remote control cannot work.	No power.	Replace the AAA batteries in the remote control.
	Object is blocking the remote control signal receiver of the product.	Remove obstruction in front of the product.
	The distance of usage is too far.	Stand closer to the product to use the remote control.

Problem	Cause	Solution
The LCD screen displays “MEMORY ERROR” or “CARD ERROR” message or memory card cannot be read.	The format of the memory card is not compatible with the document camera.	Format the card.
	The memory card is corrupted.	Replace the memory card with a new one.
Cannot delete the pictures and video clips, and also cannot find them in the memory card.	The lost recordings are saved in the internal memory.	Lock for lost recordings in the internal memory.
Cannot view the video clips on my computer.	Software is not installed on the computer.	Install the software on your computer.
TV screen does notdisplay after connecting the product to TV.	The product is not correctly connected to the TV.	Reconnect the product to TV correctly.
Noises occur when viewing images on the LCD screen or on the computer.	The flicker setting does not match the standard of the country you are staying.	Adjust the flicker setting .For more information, please refer to the “Flicker Settings” table.
Takes time to connect in WiFi Miracast	The connection process between devices is not immediate, possibly due to various factors such as network issues, device configuration, or hardware limitations.	Restart the device.
Miracast cannot establish a connection with the WiFi or the projection device.	The projection device you want to cast from and the WiFi receiver need to support Miracast.	Ensure document camera is plugged in WiFi dongle and projection device is plugged in Wireless display adapter or Miracast receive function is on.

The contents in this manual are subject to change without prior notification.

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