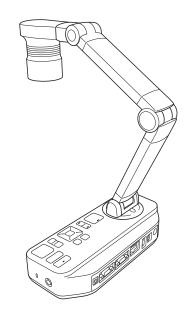


# ELPDC21

# Document Camera User's Guide





## Meaning of Symbols in the Guide

#### • Symbols for Safety

The documentation and this product use graphical symbols to show how to use this product safely.

The indications and their meaning are as follows. Make sure you understand and respect these caution symbols to avoid injury to persons or property.

🔥 Warning	This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.
🕂 Caution	This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

#### • Symbols for General Information

Attention	Indicates information that, if ignored, could cause the product to malfunction or cause damage.
	Indicates additional information and points which may be useful to know regarding a topic.
	Indicates a page where detailed information regarding a topic can be found.
[Name]	Indicates button names for the remote control or the control panel.
	Example: [Return] button
Menu Name	Displays Configuration menu items.
	Example:
	Select Brightness from Picture Quality.
	Picture Quality - Brightness



## **Safety Instructions**

Read this User's Guide and follow all safety instructions for your document camera. Keep this guide at hand for future reference.

**Environmental Precautions** 



Do not use or store the document camera or remote control in a hot location, such as near a heater, in direct sunlight, or in a closed vehicle. Thermal damage, fire, or malfunction may occur.

Do not use or store the document camera outdoors for an extended length of time, or where it may be exposed to rain, water, or excessive humidity. Fire or electric shock may result.

Do not use or store the document camera where it may be exposed to smoke, steam, corrosive gases, or excessive dust. Fire or electric shock may result.



Do not set up the document camera near high-voltage electrical wires or sources of magnetic fields. This may interfere with correct operation.

Operate in the proper environmental conditions. 🖝 "General Specifications" p.57

Do not place or store the document camera where it is accessible to small children. It may drop or tip over, causing personal injury.

Do not place the document camera where it may be exposed to vibration or shock.



#### **Electrical Precautions**

## 🕂 Warning

Never open any covers on the document camera except as specifically explained in this User's Guide. Never attempt to disassemble or modify the document camera. Refer all repairs to qualified service technicians.

Unplug the document camera from the outlet and contact your local dealer or Epson for help under the following conditions:

- If smoke, strange odors, or strange noises come from the device
- If liquid or foreign objects get inside the device
- If the device has been dropped or the housing has been damaged

Continuing to use under these conditions may result in fire or electric shock.

Do not attempt to use any adapter other than the AC adapter and power cord included with the device. Using an improper adapter may cause damage, overheating, fire, or electric shock.

Be sure to use the AC adapter with the proper voltage indicated in this guide. Use of a different power source may result in fire or electric shock.

If the AC adapter, power cord, or document camera is damaged, turn the power off, unplug the AC adapter from the electrical outlet, and contact your local dealer or Epson for help.

Do not touch the device, the AC adapter, or the plug with wet hands. Otherwise, you may receive an electric shock.

Do not use a power cord that is damaged. This may result in fire or electric shock. Take the following precautions when handling the power cord:

- Do not modify the power cord.
- Do not place heavy objects on the power cord.
- Do not bend, twist or pull the power cord excessively.
- Keep the power cord away from hot electrical appliances.

Take the following precautions when handling the plug. Failure to comply with these precautions could result in fire or electric shock.

- Do not overload wall outlets, extension cables, or power strips.
- Do not insert the plug into a dusty outlet.
- Insert the plug firmly into the outlet.
- Do not pull the power cord when disconnecting the plug; always be sure to hold the plug when disconnecting it.
- Do not touch the plug during an electrical storm. Otherwise, you may receive an electric shock.



## 🕂 Caution

Turn off the document camera and unplug it after use.

Make sure the power is turned off, the plug is disconnected from the outlet, and all cables are disconnected before moving the document camera.

If a malfunction occurs due to static electricity, thunder, and so on, the product begins recovery operations. During recovery operations, do not touch any switches on the product.

#### **Installation Precautions**

## 🚹 Warning

Do not use adhesives to prevent the screws from loosening and do not use oils or lubricants. This may cause the document camera housing to crack and could cause serious injury.

## 🕂 Caution

Do not place the document camera in an unstable location, such as on a shaky table or slanted surface. The document camera may drop or tip over, causing personal injury. If you use a table, cart, or stand, make sure it is stable and will not fall over.

When using the mounting points under the document camera to secure it to a table, cart, or stand, fasten the two bolts securely but do not overtighten them. Do not use adhesives.

Do not place the document camera in a poorly ventilated place where heat can accumulate.

Do not place the document camera on a carpet, blanket, and so on, or cover it during use.

Do not install the document camera in a hot location, such as near a heater.

Route cables so that they are not a tripping hazard. Otherwise, they could trip someone and cause a fall or injury.



#### **Cleaning Precautions**

## Warning

Use a dry cloth (or, for stubborn stains, a moist cloth that has been wrung dry) for cleaning. Do not use liquid, aerosol cleaners, or solvents such as alcohol, thinner or benzine.

Do not place any containers of liquid on top of or near the document camera.

Do not spill liquid or spray fine mist into the document camera. Liquids entering the document camera may cause malfunction, fire, or electric shock. If you spilled liquid, turn the power off, unplug the AC adapter from the electrical outlet, and contact your local distributor. Using the damaged device may cause fire or electric shock.

Never allow objects of any kind to enter any openings in the document camera. Do not leave objects, especially flammable objects, near the document camera. Doing so may result in fire or electric shock.



### Caution

Unplug the AC adapter from the outlet before cleaning to prevent electric shock.

#### **Usage Precautions**



Caution

Do not look into the lens when the LED illumination lamp is on. The bright light can damage your eyes.

Do not use excessive force when adjusting the document camera. The document camera may be broken, resulting in personal injury.

Do not place heavy objects on document camera. Otherwise, it may be damaged.

Do not try to press the arm flat or fold it backwards. Otherwise, it may be damaged.



**Battery Precautions** 

## **Marning**

Incorrect battery usage may cause batteries to rupture and leak battery fluid, which could result in fire, injury, or corrosion of the remote control. If battery fluid gets in your eyes, do not rub your eyes. Wash them well with clean water and contact a doctor immediately. If battery fluid enters your mouth, rinse immediately with plenty of water and contact a doctor immediately. If battery fluid comes in contact with your skin or clothes, wash with water to prevent possible skin damage. Keep batteries out of the reach of children; they are choking hazards and are very dangerous if swallowed. Prepare two replacement manganese or alkaline AA batteries. Do not install batteries of different types, or mix new and old batteries. Insert batteries so that the polarities (+ and -) are correct. Not doing so may cause leakage, overheating, or explosion. Be sure to replace both batteries with new ones of the same type. Not doing so may cause leakage, overheating, or explosion. Remove the batteries if you will not be using the remote control for a long period of time. When a battery runs down, take it out of the remote control immediately. If a used-up battery is left inside for a long time, gas emitted from the battery may cause leakage, overheating, explosion, or damage to the remote control. Do not expose batteries to heat, flame, or water.

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## Introduction

You can use this document camera to capture and project pages from books or other documents, and even three-dimensional objects. You can also use the software supplied to operate the document camera from a computer.

## Included Items

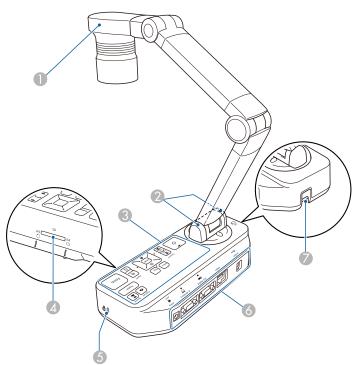
TOP

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- Remote control with 2 AA batteries
- Power cord and adapter
- Computer cable
- USB cable
- EPSON Document Camera Software CD-ROM
- Document CD-ROM
- Quick Start Guide
- Microscope adapter



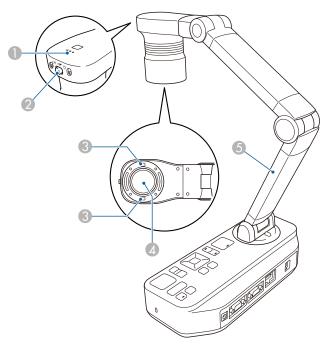
## Top/Side/Rear



	Name	Function
0	Camera head	"Camera Head" p.12
2	Remote receiver	Receives signals from the remote control.
3	Control panel	Control Panel" p.13
4	SD card slot	Lets you save and display images on an SD card. Tip: "Displaying Saved Images as a Slideshow" p.30
5	Security slot	The security slot is compatible with the Microsaver security system manufactured by Kensington.
6	Interface	■ "Interface" p.14

Name		Function
7		Lets you attach a commercially available security cable to lock the document camera in place.

## Camera Head



Name		Function
0	Microphone	Captures sound when you record a video.
2	[	Changes the LED lamp status in three steps: bright, dim, and off.
3	LED lamp	Provides additional light when there is not enough light on your document.
4	Camera lens	Captures the image.

### **Document Camera Parts**

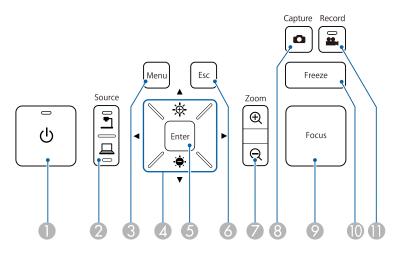
OP	

	Name	Function
5	Camera arm	Extends or retracts to adjust the height of the camera head.

#### Attention

Do not rub the lens with harsh materials or subject it to shock, as it can be easily damaged. Use a soft cloth to gently wipe the lens.

## **Control Panel**

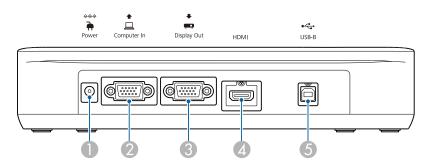


	Name	Function
0	[Ů] power button	Turns the document camera on or off.
2	[Source] button	Switches the output image to the device connected to the Display Out port.
		<ul> <li>Projects images (live or on an SD card) from the document camera.</li> <li>Projects images from a computer connected to the Computer In port.</li> </ul>

	Name	Function
3	[Menu] button	Opens and closes the menu.
4	[▲] [▼] [◀] [▶] buttons	When the menu screen is displayed, pressing these buttons selects menu items and setting values.
	[••••] [••••] buttons	Adjusts the brightness of the image if pressed while projecting images from the document camera.
	[ ◀ ] [ ▶ ] buttons	Adjusts the focus of the image if pressed while projecting images from the document camera.
6	[Enter] button	<ul> <li>When the menu is displayed, pressing this button confirms the current item.</li> <li>Displays the SD Card menu and images on the SD card if pressed while projecting live images.</li> <li>"Displaying a Slideshow (SD Card Viewer Function)" p.33</li> </ul>
6	[Esc] button	Stops the current function. When the menu is displayed, pressing this button moves to the previous menu level.
7	[Zoom] button [⊕] [⊖]	Enlarges or reduces the image without changing the projection size.
8	[Capture] button [ <b>D</b> ]	Captures still images. Captures Images" p.31
9	[Focus] button	Focuses the image automatically. The document camera cannot focus on objects that are approximately 10 cm (4 inches) or less from the surface of the camera lens.
10	[Freeze] button	Freezes live images. Press the button again to resume projection.
0	[Record] button	Starts and stops video recording.

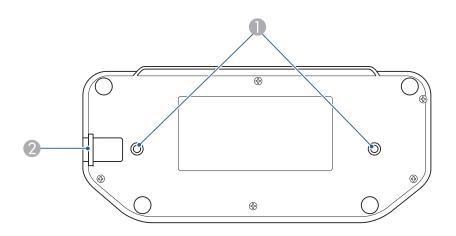


## Interface



	Name	Function
0	Power (AC adapter/DC In) port	Connects the supplied power cord and adapter.
2	Computer In port	Inputs image signals from a computer.
3	Display Out port	Outputs images to image devices such as projectors.
4	HDMI port	Outputs images and audio to a video device that is compatible with HDMI signals.
6	USB-B (TypeB) port	Connects the document camera to your computer with the USB cable supplied. By using the software supplied, you can operate the document camera from a computer.

## Base



	Name	Function
0	Mounting points	You can attach the document camera to a table, cart, or stand with commercially available M4 bolts. You can thread them to a maximum depth of 9 mm (0.35 inch). Attention Fasten the bolts securely but do not overtighten them. Do not use adhesives.
2	Security cable installation point	Lets you attach a commercially available security cable to lock the document camera in place.

#### **Remote Control** Source A/V Mute Search **ə** (J Projector Source Computer Camera <u>•</u> ക Auto Focus Freeze Capture 0 Rotate Image Record $\mathbf{O}$ **#**. • Esc Menu ▲ 15 💪 Enter ◄ Brightness Zoom Focus Ø Ð ▲ × Q ▼ 12 Single Split Camera SD Card Viewer **EPSON** Document Camera

#### Projector operations

	Name	Function
0	[也] power button	When used with an Epson projector, turns the projector on or off.* You cannot operate the document camera with this button.
2	[A/V Mute] button	Turns the video and audio of an Epson projector on or off.*
3	[Source Search] button	Changes the input source connected to an Epson projector.*

\* This is not supported by some projectors. For more details, contact your local dealer or the nearest service center provided in this guide.

☞ "Epson Projector Contact List" p.51

#### **Document camera operation**

	Name	Function
4	[U] power button	Turns the document camera on or off. You cannot operate a projector with this button.
5	[Auto Focus] button	Focuses the image automatically. The document camera cannot focus on objects that are approximately 10 cm (4 inches) or less from the surface of the camera lens.
6	[Rotate Image] button [ <b>C</b> ]	Lets you turn an image upside-down.
7	[Menu] button	Opens and closes the menu.
8	[▲] [▼] [◀] [▶] buttons	When the menu screen is displayed, pressing these buttons selects menu items and setting values.
9	[Enter] button	<ul> <li>When the menu is displayed, pressing this button confirms the current item.</li> <li>Displays the SD Card menu and images on the SD card if pressed while projecting live images.</li> </ul>

## **Remote Control Buttons**

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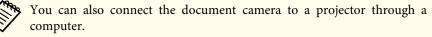
	Name	Function
0	[Brightness] button [-┯-] [-┯-]	Adjusts the projected image brightness.
0	[SD Card Viewer] button	Projects images and movies on the SD card as a slideshow. Press the [Single] button to display the image on one screen, and press the [Split] button to display two images on the left and right. Tipsplaying a Slideshow (SD Card Viewer Function)" p.33
12	[Camera] buttons	Projects live images from the document camera.
<b>B</b>	[Zoom] button [⊕] [⊖]	Enlarges or reduces the image without changing the projection size.
14	[Focus] button [▲] [▼]	Adjusts the focus of the image manually.
(5	[Esc] button	Stops the current function. When the menu is displayed, pressing this button moves to the previous menu level.
16	[Record] button	Starts and stops video recording.
0	[Capture] button [	Captures still images.
18	[Freeze] button	Freezes live images. Press the button again to resume projection.
19	[Source] button	Switches the output image to the device connected to the Display Out port. []: Projects images from a computer connected
		to the Computer In port.
		[ <b>_</b> ]: Projects images (live or on an SD card) from the document camera.
20	Remote control light- emitting area	Outputs remote control signals.



## Connecting

Follow the instructions in this section to set up the document camera.

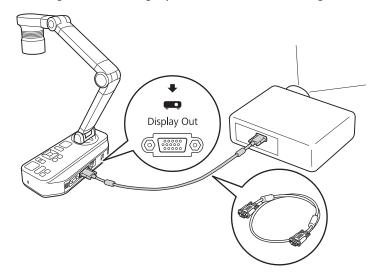
You can connect the document camera directly to image devices, such as a projector or external monitor, using a computer cable or HDMI cable.



Connecting to a Projector Using a Computer" p.20

### **Connecting Using a Computer Cable (Supplied)**

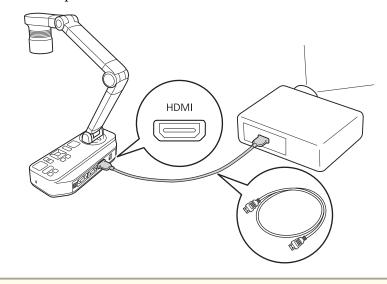
Connect the Display Out port on the document camera to a projector using the computer cable. Images (live or on an SD card) from the document camera are output from the projector. Audio is not output.



## **Connecting Using an HDMI Cable**

Connect the HDMI port on the document camera to a projector using an HDMI cable (commercially available). Images (live or on an SD card) from

the document camera are output from the projector. Only audio from the SD card is output.



When image devices that support the HDMI CEC standard are connected to the document camera, operations for the document camera and the image device can be linked together. Set HDMI Link on the document camera. Function - HDMI Link p.41

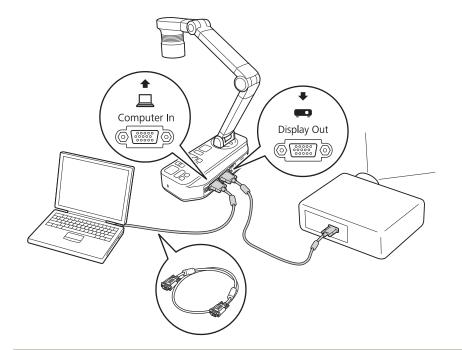
For necessary settings on the image device, see the documentation provided with the device.

#### When Using a Computer

When the Computer In port on the document camera is connected to a computer using a computer cable, you can project PowerPoint slides or images from any other application from a projector.

TOP





• This connection method is only available when the document camera is connected to a computer using a computer cable. If the computer you are using does not have a VGA output port, connect the computer directly to the projector.

• Images on the computer connected to the document camera are only output from the Display Out port.

You can switch the projected image between  $[\square]$  or  $[\square]$  using the [Source] button on the document camera or the remote control.

- $[\square]$ : Projects images from a computer.
- []: Projects images (live or on an SD card) from the document camera.

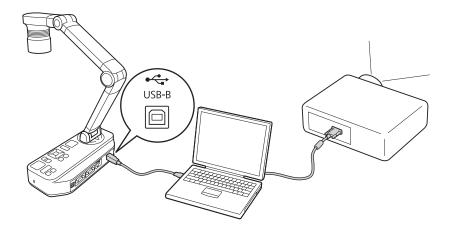
## **Connecting to a Projector Using a Computer**

When the document camera is connected to a computer using a USB cable, you can operate the document camera from the computer. Using the software supplied, you can save images and video, adjust picture quality, zoom, and so on.

☞ "Using the Computer Software" p.44

Connect the USB-B port on the document camera to a computer using a USB cable.

Next, connect the computer to the projector. The cable used to create the connection differs depending on the computer and projector you are using. See the documentation provided with the computer and projector you are using.



- You cannot project images by directly connecting the document camera to a projector with a USB cable.
  - Connect the document camera to a USB 2.0 port of a computer. If you connect it to a USB 3.0 port, it may not function properly.
  - Do not connect multiple document cameras to one computer at the same time.

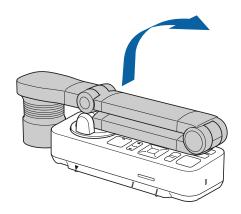
20



## Projecting



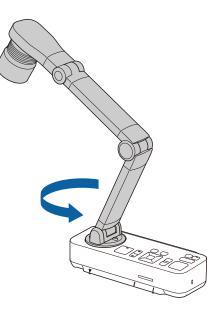
Raise the camera arm with one hand while holding the base of the camera with your other hand.

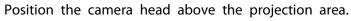


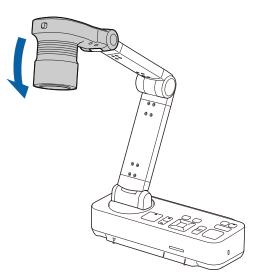
2

3

Rotate the camera arm as shown.



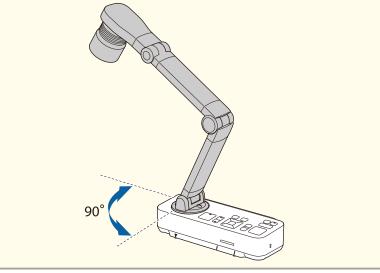




#### Attention

Do not try to press the arm flat or fold it backwards. Otherwise, the document camera may be damaged.

The camera arm can only rotate within the range shown below.



TOP

## Plugging In and Turning On

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TOP

Connect the document camera to the projector with a cable before turning on the document camera. 🖝 "Connecting" p.17

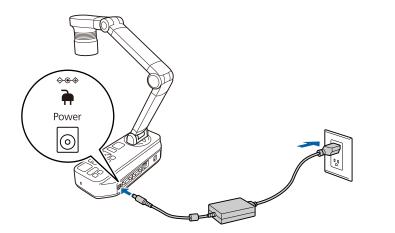


Connect the power cord as shown and plug the cord into a wall outlet.



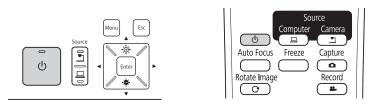
Select the appropriate source on the projector depending on the port to which you connected.

Live images from the document camera are projected from the projector.





Press the [0] power button on the document camera or remote control.



The power indicator flashes blue. When startup is complete, the power indicator and the camera indicator are lit blue. Startup takes approximately 15 seconds.



Turn on your projector.

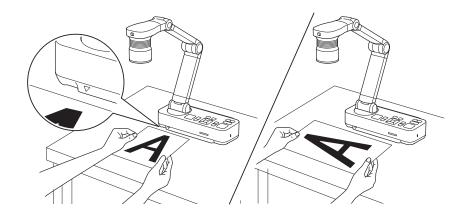
## Projecting



1

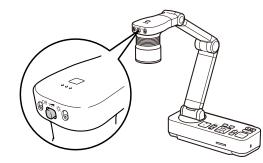
Place your document on the table under the camera head. Align the center of your document with the  $\bigtriangledown$  mark on the side of the document camera.

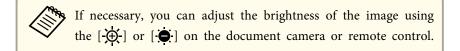
- When projecting A4-size or letter size paper, align the edge of the paper with the guides on the side of the document camera.
  - The maximum paper size that can be projected is A3 landscape.



2

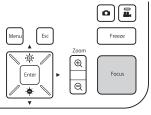
Slide the [-O-] lamp switch to illuminate the document.

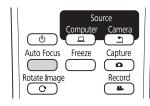






Press the [Focus] button on the document camera or the [Auto Focus] button on the remote control.





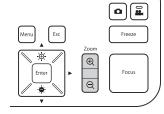
The focus is adjusted automatically.

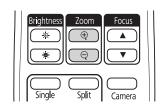


To sharpen hard-to-focus objects, use the  $[\triangleleft]/[\triangleright]$  buttons on the document camera, or the [Focus] buttons  $[\triangleleft]/[\checkmark]$  on the remote control.



To zoom in on part of the image, press the [Zoom] -  $[\oplus]$  button on the document camera or remote control. Press the [Zoom] -  $[\odot]$  button to zoom out.





## Projecting





• You can zoom up to 12x optically and 10x digitally. (When the optical zoom rate reaches the maximum value, it switches to the digital zoom.)



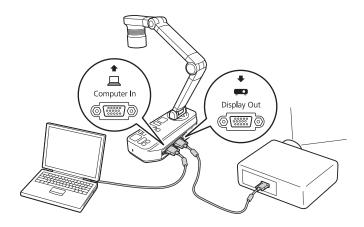
When using the optical zoom:

[Adjust Zoom] Adjust Zoom	0	0
$[\oplus, / \bigcirc]$ Adjust		
When using the digital zoom: [Adjust Zoom] Adjust Zoom	0	
[ ①, / Q, ]Adjust		
• To enable the digital zoom, pres	s the [Menu] b	utton and set

- To enable the digital zoom, press the [Menu] button and set Image > Digital Zoom to On.
- When using the digital zoom, you can scroll (Pan/Tilt) the enlarged image by pressing the [▲], [▼], [◀], and [▶] buttons.
- Image quality declines when using the digital zoom function.

## Switching the Projected Image

When a computer is connected to the document camera, you can switch the image projected from the projector using the [Source] button on the document camera or the remote control.



 $[\square]$ : Projects images from a computer.

[]: Projects images (live or on an SD card) from the document camera.



### **Outputting Images and Sound**

When connecting multiple devices to one document camera, the image and audio are output as follows.

#### When [ $\square$ ] is selected using the Source button

- Display Out port: Images from the computer
- HDMI port: Live images from the document camera
- USB-B port: Live images from the document camera and audio from the internal microphone

Images on the computer connected to the document camera are only output from the Display Out port.

#### When [\_] is selected using the Source button

When projecting live images from the document camera

- Display Out port: Live images from the document camera
- HDMI port: Live images from the document camera
- USB-B port: Live images from the document camera and audio from the internal microphone



When recording live images or taking photos using the document camera, images and audio cannot be output from the USB-B port.

When projecting images from an SD card

- Display Out port: Images from the SD card
- HDMI port: Images and audio from the SD card



When a computer is connected to the USB-B port, the SD card viewer is unavailable.

### Freezing an Image

Press and release the [Freeze] button on the document camera or the remote control to freeze the image.

After freezing the image, you can remove your document while leaving its image displayed on the screen. Place your next document under the camera lens and press the [Freeze] button again; your presentation continues without interruption.

## **Projecting Small Objects**

To project a small object, lower the camera arm. You can place the camera head within approximately 10 cm (4 inches) of the object.

To zoom in on part of the image, press the [Zoom] -  $[\oplus]$  button on the document camera or remote control. Press the [Zoom] -  $[\odot]$  button to zoom out.

### **Displaying Whiteboard Images**

You can use the document camera to display a lecture or presentation at the front of a room, or to capture images of a whiteboard or chalkboard.

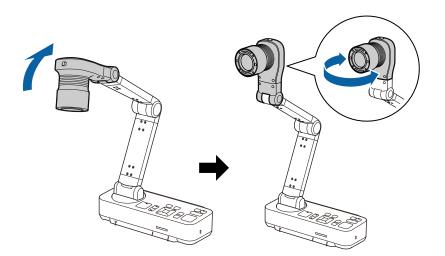


Press the [Rotate Image] button [ $\bigcirc$ ] on the remote control to turn an image upside-down. You can also rotate the image by pressing the [Menu] button and then selecting **Image** > **Image Rotation** > **180 degrees**.



Rotate the camera head and set it in the direction of the object.

2



Press the [Focus] button on the document camera or the [Auto Focus] button on the remote control.

Menu Esc		Freeze
Enter	Zoom (D) Q	Focus

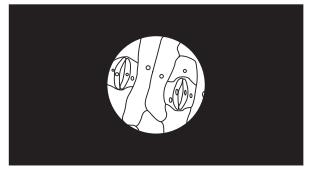
So	urce
Computer	Camera
Auto Focus Freeze	Capture
Rotate Image	Record
C	

The image is automatically focused.

You can make an audio/video recording of your projection. The recorded images are saved to the SD card.

☞ "Recording Movies" p.32

### Projecting Through a Microscope



Projected image

To display objects as seen through a microscope, use the included microscope adapter.

/ 🔊 •

- Before installing the document camera, make the following settings:
- Focus the microscope and adjust the zoom

- Press the [Menu] button, and then select Image > Microscope > On.

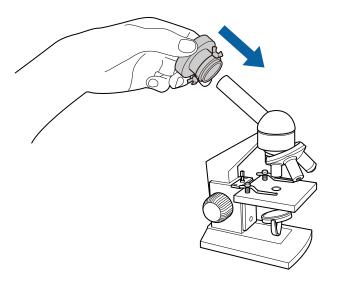
• Images may not be displayed correctly depending on the optical properties of your microscope.



Attach the microscope adapter to the microscope's eye piece.

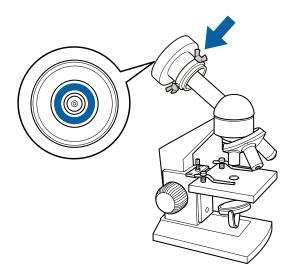
TOP

Projecting



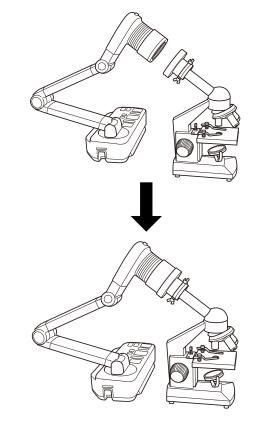
2

With the microscope's eye piece in the center of the microscope adapter, tighten the three screws on the microscope adapter to secure it in place.



3

Adjust the height and angle of the camera head, and then attach it to the microscope adapter.



TOP

## **Turning Off**

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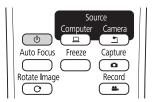
TOP

Turn off the document camera after use.



Press the  $[\bullet]$  power button on the document camera or remote control.

		Menu Esc
ت ا	Source	
		•



The following message is displayed on the projected image.

Do you want to turn off the document camera?

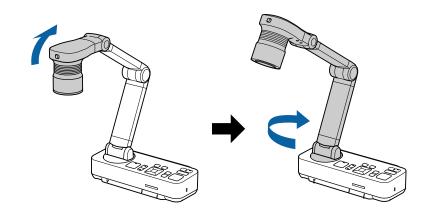
Yes: Press 🕲 button No : Press any other button

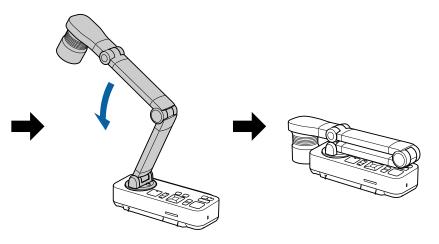
2

Press the [也] power button again.

The projected image disappears, and the power indicator turns off.

B Disconnect the power cord and any other connected cables, and then fold down the camera arm.







## **Displaying Saved Images as a Slideshow**

You can save live images from the document camera to an SD card and then display the saved images and movies as a slideshow.

This section explains how to perform operations using the document camera or the remote control. You can save images using software on your computer.

- - FAT16 SD cards (up to 2 G) and FAT32 SDHC cards (up to 32 GB) are supported.
  - EX-FAT SDXC cards are not supported.
  - SD cards with a security function cannot be used.

#### **Attention**

In the following situations, data on the SD card may be lost or corrupted.

- If the card is subjected to static electricity or electronic noise
- If the card is not handled correctly
- If a malfunction occurs or during repairs
- If damage occurs due to a natural disaster

Note that Epson accepts no responsibility for lost or corrupted data, even if the loss occurs during the warranty period.



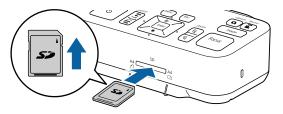
31

You can save images from the document camera to an SD card as still images.

- Images are saved in JPEG format (1920 x 1080).
- You can change the background color for the image in **Background Color**. When **White** is set and the image is saved, if you print the image on white paper, the area around the image may not stand out. **Function** - **Background Color** p.41



Insert an SD card into the SD card slot on the document camera.

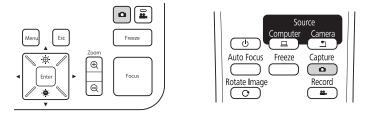




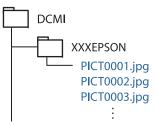
Project the image you want to save.



Press the [Capture] [] button to capture the image.



The number of photos available is displayed at the top right of the screen next to , and captured images are saved to the following folder on the SD card:





Repeat steps 2 and 3 for any additional images you want to save.

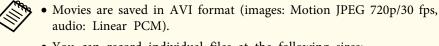
If there is no space on the SD card, the message "No free space on the SD Card." is displayed, and the image is not saved.

## **Recording Movies**

TOP

32

You can save images and audio from the document camera to an SD card as movies.

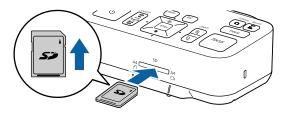


- You can record individual files at the following sizes: Capacity: up to 2 GB
- Recording time: up to approximately 29 minutes

If the maximum capacity or recording time are exceeded while recording, the movie up to that point is saved and the recording ends.

- You can check the amount of available free space on the SD card in SD Card Info. 🖝 SD Card - SD Card Info. p.43
- Set Sleep Mode to Off to prevent the power turning off while recording. **Function** - Sleep Mode p.41

Insert an SD card into the SD card slot on the document camera.

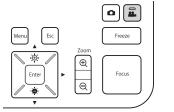


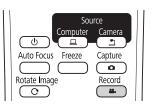


Project the image you want to save.

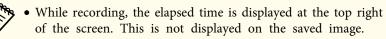
3

Press the [Record] button [22] to start recording.





The recording indicator is lit blue while recording.



- If there is no space on the SD card, the message "No free space on the SD Card." is displayed, and the movie is not saved.
- Do not remove the SD card while recording.
- The following operations are available while recording. Freeze, Zoom (Pan/Tilt), Auto Focus, Brightness adjustment, Focus adjustment

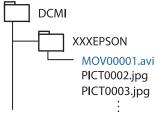
Note that operation sounds are also recorded.

• While recording, a blue screen is displayed on the computer connected to the document camera using a USB cable.



To stop recording, press the [11] button again.

While saving recordings, the recording indicator flashes blue, and when saving is complete the indicator turns off. Movies are saved to the following folder on the SD card:



TOP

You can display images saved on an SD card as a slideshow.

This function is unavailable in the following situations:

- When the document camera is connected to a computer using a USB cable
- When recording a movie
- When a 480p signal is being output from the HDMI port Files that can be played as a slideshow

Туре	File Type	Notes
Still im- ages	JPEG (DCF-compliant)	Files with a resolution over 7680 x 5760 pixels cannot be played.
Movies	AVI (images: Motion JPEG, audio: Linear PCM)	Files that are larger than 2 GB cannot be played.

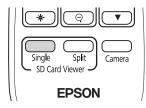


You can also display files that were not captured by the document camera as a slideshow. To display files, they must be saved to the specified folder. See the following for more details.

☞ "SD Card Problems" p.49



Press the [Single] button on the remote control.



The final file and thumbnail on the SD card are displayed.



You can start a slideshow using the [Enter] button on the document camera or the remote control. Press the [Enter] button while projecting a live image, and then select **Single Screen** from the **SD Card** menu.



Thumbnails



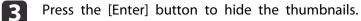


If a file cannot be displayed because it is damaged or too big, a black screen is displayed.



Press the  $[\P]$  [ $\blacktriangleright$ ] buttons to select the thumbnail for the file you want to display.

Press the  $[\blacktriangle]$   $[\checkmark]$  buttons to change the thumbnails page.



[◀] button: Displays the previous file.

[**b**] button: Displays the next file.

[Esc] button: Displays the thumbnails again.

Hide the thumbnails, and then press the [Enter] button to play the movie.



Press the [Enter] button to pause/play the movie.

1		P
	-	

Press the [Menu] button to access the following functions.

	_	
Rotate to Right <sup>*1</sup>	Rotates the image 90 degrees to the right.	
Rotate to Left*1	Rotates the image 90 degrees to the left.	
Delete	Deletes the selected file.	
Split Screen <sup>*1</sup>	The screen switches to a split screen display, and you can display a live image and an image on the SD card on the left and right.	
Return to Camera	The slideshow is closed and a live image is displayed.	

Thumbnail*2	Displays thumbnails.	
	Displays inalionalis.	

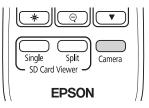
- \*1 This is not available while a movie is being displayed.
- \*2 This is not displayed while thumbnails are displayed.

#### Attention

If the images on the SD card are rotated when displayed by the document camera, the original image can be saved as the rotated image. Backup data on the SD card to other media as often as necessary.



End the slideshow by pressing the [Camera] button on the remote control.



You can also close the slideshow by pressing the [Esc] button when thumbnails are displayed.

# Dividing the Screen and Displaying Two Images (Split Screen)

You can display live images and images on an SD card side-by-side on the screen. You can also display two images on an SD card at the same time.

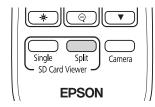
TOP

#### Displaying live images and images on an SD card



2

Press the [Split] button on the remote control.



A live image and an image on the SD card are displayed side-by-side on the screen.

You can start the split screen projection using the [Enter] button on the document camera or the remote control. Press the [Enter] button while projecting a live image, and then select **Split Screen** from the **SD Card** menu.



Press the [4] [b] buttons to select the thumbnail for the image you want to display.

Press the  $[\blacktriangle]$   $[\checkmark]$  buttons to change the thumbnails page.



When projecting a live image from the document camera, you cannot display a movie from the SD card.



Press the [Enter] button to hide the thumbnails.

- $[\blacktriangleleft]$  button: Displays the previous file.
- [ ] button: Displays the next file.
- [Esc] button: Displays the thumbnails again.



Press the [Menu] button to access the following functions. Some functions are not available depending on the image being projected.

Rotate to Right	Rotates the image 90 degrees to the right.	
Rotate to Left	Rotates the image 90 degrees to the left.	
Single Screen	Changes to a single image display.	
Flip	Switches the images on the left and right.	
Camera/SD Mode SD/SD Mode	Changes the combination of displayed images. • Live Image and Image on SD card • Two Files on SD Card	
Return to Camera	The slideshow is closed and a live image is displayed.	
Thumbnail*	Displays thumbnails.	

\* This is not displayed while thumbnails are displayed.



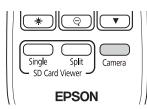
You can use the following adjustment functions for live images. Brightness adjustment, Focus adjustment (automatic and manual), Freeze, Zoom (Pan/Tilt)



End the slideshow by pressing the [Camera] button on the remote control.

TOP



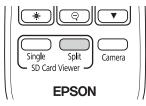


You can also close the slideshow by pressing the [Esc] button when thumbnails are displayed.

#### Displaying two images on an SD card



Press the [Split] button on the remote control.



A live image and an image on the SD card are displayed side-by-side on the screen.



You can start the split screen projection using the [Enter] button on the document camera or the remote control. Press the [Enter] button while projecting a live image, and then select **Split Screen** from the **SD Card** menu.





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Press the [Menu] button on the document camera or the remote control, and then select **SD/SD Mode**.

[Split Screen ]		
	Return	
Rotate to Right		
Rotate to Left		
Single Screen		
Flip		
SD/SD Mode 🕗		
Return to Camera		

Two files on the SD card are displayed side-by-side on the screen. You can change the file surrounded by the orange frame.

Press the  $[\P]$  [ $\clubsuit$ ] buttons to select the thumbnail for the file you want to display.

Press the  $[\blacktriangle]$   $[\checkmark]$  buttons to change the thumbnails page.

To move the orange frame between the right and left of the screen to re-select the file, press the [Menu] button while thumbnails are displayed, and then select **Change Focus**.



[Split Screen ]		
	Return	
Rotate to Right		
Rotate to Left		
Change Focus 🕗		
Single Screen		
Camera/SD Mode		
Return to Camera		

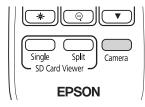
Left Source	Right Source
SD Card Movie	SD Card Image



- - -

Movies cannot be displayed on the right-hand side of the screen.

- **5** Press the [Enter] button to hide the thumbnails.
  - [◀] button: Displays the previous file.
  - [▶] button: Displays the next file.
  - [Esc] button: Displays the thumbnails again.
- 6 End the slideshow by pressing the [Camera] button on the remote control.





You can also close the slideshow by pressing the [Esc] button when thumbnails are displayed.

#### Available combinations for the Split Screen function

Left Source	Right Source
Live Image	SD Card Image
SD Card Image	Live Image
SD Card Image	SD Card Image



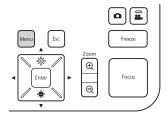
## Image Adjustments and Effects

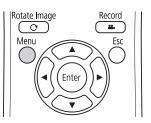
The document camera provides a full range of image adjustments and effects, including freeze image, black-and-white, and the ability to change the display for color images.

## Using the On-screen Menu

Press the [Menu] button on the document camera or remote control to view the on-screen menu. See the following for details on each item in the on-screen menu.

☞ "On-Screen Menu Table" p.40





The following menu is displayed:

Image	<b>9</b>	Return
	White Balance	Auto
Function	Focus Lock	On
	Image Mode	Normal
SD Card	Digital Zoom	On
	Color/B&W/Negative	Color
Info	Image Rotation	Normal
	Microscope	Off
	Noise Reduction	Off
	Advanced	
	Reset	

Use the  $[\blacktriangle]$   $[\checkmark]$   $[\checkmark]$   $[\checkmark]$  buttons to navigate the menu and adjust the settings. Press [Enter] to select a setting. When you are done adjusting the settings, press the [Menu] or [Esc] button to close the menu and save your settings.

The menu cannot be displayed when connecting to a computer using a USB cable.



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## Image Menu

Setup Item	Explanation/Select
White Balance	Select the setting according to the lighting in the room where you are using the document camera. Auto*: Automatically adjusts the image color according to the display environment. Cloudy: Suitable for use in cloudy weather.
	Daylight: Suitable for use in fair weather.
	Fluorescent: Suitable for use in a room with fluorescent lighting.
	Incandescent: Suitable for use in a room with incandescent lamps.
Focus Lock	Enables or disables the auto-focus while zooming.
	On: Disables auto-focus while using the optical zoom.
	Off: Enables auto-focus while using the optical zoom.
Image Mode	You can select from the following settings to adjust for the image type you are displaying:
	Normal*: Default setting.
	Text: Suitable for projecting black-and-white text.
	Display: Suitable for projecting images from a tablet display, and so on.
Digital Zoom	Adjusts the digital zoom settings.
	On: Enables digital zoom operations after performing the optical zoom.
	Off*: Disables digital zoom operations.
Color/B&W/Negative	Select the display method for color images.
	Color*: Displays the image in color.
	Black&White: Displays the image in black-and-white.
	Negative: Displays a photographic negative in true color.
Image Rotation	Lets you rotate the image.
	Normal*: Displays the image as it actually is.
	180 degrees: Displays the image upside-down.
Microscope	Optimizes the image settings for use with a microscope.
	On: Sets the optimal image settings for use with a microscope.
	Off*: Returns to the normal settings.
Noise Reduction	Settings related to Noise Reduction for the live image.
	Off: Deactivates Noise Reduction.
	NR1, NR2, NR3: Enables Noise Reduction. Use this setting if noise occurs.



Setup Item	Explanation/Select	
Advanced	Makes advanced settings of live image.	
	Exposure: Adjusts the light volume of images.	
	Contrast: Adjusts the difference between bright and dark areas of images.	
	Color Adjustment: Adjusts the reddish and bluish colors of the whole image.	
	Edge Enhancement: Adjusts the emphasis on the contours of the image.	
	Gamma: Adjusts the coloring that occurs while displaying the image.	
Reset	Resets the Image menu settings to the default values.	

\* Default setting at time of purchase

## **Function Menu**

Setup Item	Explanation/Select	
Output Resolution	Sets the output resolution when connecting a computer cable to the Display Out port.	
	Auto*: Sets automatically according to the resolution of the image device.	
	XGA 1024x768	
	WXGA 1280x800	
	WXGA 1360x768	
	SXGA 1280x1024	
	Full HD 1920x1080	
HDMI Output	Sets the output resolution when connecting an HDMI cable to the HDMI port.	
	Auto*: Sets automatically according to the resolution of the image device.	
	SDTV (480p)	
	HDTV (720p)	
	HDTV (1080p)	
Mic. Volume	Sets the volume for the internal microphone.	



Setup Item	Explanation/Select	
HDMI Link	When image devices that support the HDMI CEC standard are connected to the document camera, operations for the document camera and the image device can be linked together.	
	HDMI Link: Set to On <sup>*</sup> to enable the HDMI Link function. The changes are enabled when you turn off the document camera.	
	Power On Link: When this is set to On, the document camera's live image is projected from the connected device when the projector is turned on (the default setting is Off).	
	Power Off Link: When this is set to On, the document camera turns off when the connected device is turned off (the default setting is Off).	
Sleep Mode	Operation settings when the document camera is inactive.	
	On: The power automatically turns off if the document camera is inactive for a certain amount of time.	
	Off*: The power remains on even if the document camera is inactive for a certain amount of time.	
Sleep Mode Timer	Sets the time from when the document camera is last operated until the power automatically turns off in Sleep Mode.	
	1 to 6 hour(s)	
Background Color	Select the display background for the projected image.	
	Black*	
	White	
Flicker Reduction	Eliminates flicker when giving presentations in regions with different electrical systems.	
	50Hz*	
	60Hz	
Language	Changes the on-screen menu language.	
Reset	Resets the Function menu settings to the default values.	

\* Default setting at time of purchase



## SD Card Menu

You can only make settings when an SD card has been inserted in the document camera.

Setup Item	Explanation/Select	
Single Screen	The slideshow starts.	
Split Screen	Split screen projection starts.	
SD Card Info.	Displays information about the SD card.	
	Memory Status: Displays the usage ratio of the SD card.	
	Recordable Images: Displays the number of images that can be stored on the SD card.	
	Total Memory: Displays the total capacity of the SD card.	

#### Info Menu

Setup Item	Explanation
Output(HDMI)	Displays the set content for HDMI Output. 🖝 "Function Menu" p.41
Output(RGB)	Displays the output resolution for the image signal.
Version	Displays the firmware version for the document camera.
Serial Number	Displays the serial number for the document camera.



## **Using the Computer Software**

The included software lets you operate the document camera from a computer. The software also lets you capture live images and record them as movies.

## **Using Easy Interactive Tools**



When using the Easy Interactive Tools camera screen, you can display images from the document camera on a computer connected via a USB cable. You can adjust the image size, brightness, and so on, and save it as an image file or a movie file.

For more details on Easy Interactive Tools, see the *Easy Interactive Tools* Operation Guide.



When projecting an image using a projector that supports the interactive pen or touch operations, you can operate the Easy Interactive Tools on the projected image.

#### **Operating Requirements**

#### Windows

OS	Windows Vista*	Ultimate 32 bit
		Enterprise 32 bit
		Business 32 bit
		Home Premium 32 bit
		Home Basic 32 bit
	Windows 7	Ultimate 32/64 bit
		Enterprise 32/64 bit
		Professional 32/64 bit
		Home Premium 32/64 bit
		Home Basic 32 bit
	Windows 8	Windows 8 32/64 bit
		Windows 8 Pro 32/64 bit
		Windows 8 Enterprise 32/64 bit
	Windows 8.1	Windows 8.1 32/64 bit
		Windows 8.1 Pro 32/64 bit
		Windows 8.1 Enterprise 32/64 bit

CPU	Intel Core2 Duo 1.2 GHz or faster Recommended: Intel Core i3 or faster
Amount of Mem ory	1 GB or more Recommended: 2 GB or more
Hard Disk Space	100 MB or more
Display	Resolutions no lower than XGA (1024 x 768) and no higher than WUXGA (1920 x 1200) Display color of 16-bit color or more

\* Service Pack 2 or later

	Х	OS
--	---	----

OS*	OS X 10.7.x	
	OS X 10.8.x	
	OS X 10.9.x	
	OS X 10.10.x	
CPU	Intel Core2 Duo 1.2 GHz or faster	
	Recommended: Intel Core i5 or faster	
Amount of Mem	1 GB or more	
ory	Recommended: 2 GB or more	
Hard Disk	100 MB or more	
Space		
Display	Resolutions no lower than XGA (1024 x 768) and no higher than WUXGA (1920 x 1200) Display color of 16-bit color or more	

\* Requires QuickTime 7.7 or later.

## Installing



• The software should be installed by a user with administrator access. • Close all running applications before starting the installation.

#### Windows



- Turn on your computer.
- Insert the EPSON Document Camera Software CD-ROM in your 2 computer.

The installer screen is automatically displayed.

Select Drawing on the Camera screen on the installer screen to 3 start installation.

#### OS X



- Turn on your computer.
- Insert the EPSON Document Camera Software CD-ROM in your 2 computer.
  - The installer screen is automatically displayed.
- Double-click the Install Navi icon in the EPSON window. 3
  - Select Drawing on the Camera screen on the installer screen to start installation.

## Uninstalling





4

Click Start, and then Control Panel.



- Click Uninstall a program.
- Select Easy Interactive Tools Ver.X.XX, and then click Uninstall.

#### Windows 8/Windows 8.1



Select Search on the Charms, and then search for Easy Interactive Tools Ver.X.XX.



Right-click (press and hold) Easy Interactive Tools Ver.X.XX, and then select **Uninstall** from the app bar.



Select Easy Interactive Tools Ver.X.XX, and then select Uninstall.



2



- Run Easy Interactive Tools Uninstaller from the Tools folder.
- Follow the on-screen instructions to uninstall. 3



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## **Using Other Software**

You need to install TWAIN Driver for Epson Document Camera (Ver. 2.00 or later) to use software that supports TWAIN. (Supports Windows only)

### Installing



Turn on your computer.

- Insert the EPSON Document Camera Software CD-ROM in your computer.
- B Double-click Computer TWAIN Driver for Epson Document Camera - setup.exe.

The installer screen is automatically displayed.

A Follow the instructions on the screen to install all the software.

## Uninstalling

Windows Vista/Windows 7



Click Start - Control Panel.

- 2
- Click Uninstall a program.
- B Select TWAIN Driver for Epson Document Camera Ver.X.XX, and then click Uninstall.

#### Windows 8/Windows 8.1



Select **Search** from the Charm bar, and then search for **TWAIN Driver for Epson Document Camera Ver.X.XX**.





Right-click (and hold) on **TWAIN Driver for Epson Document Camera Ver.X.XX**, and then select **Uninstall** from the application bar.



Select **TWAIN Driver for Epson Document Camera Ver.X.XX**, and then select **Uninstall**.



# **Solving Problems**

## **Operation Problems**

#### No image appears on the screen

- After you press the [ $\emptyset$ ] power button, wait a few moments for the image to appear. It takes approximately 15 seconds for the document camera to output an image.
- Make sure all necessary cables are securely connected and the power is on for the projector and the document camera.
- Connecting the Document Camera Directly to a Projector" p.18
- ☞ "Connecting to a Projector Using a Computer" p.20
- If you have connected a laptop, see the following.
- ☞ "Problems Connecting a Laptop" p.50
- To project live images from the document camera, press the [Source] []] button on the document camera or the remote control.
- Select the correct source on your projector. The source refers to the port on the projector to which you have connected the cable.
- Press the projector's power button to wake it from standby or sleep mode. Make sure the image has not been "muted" or turned off. Also see if your document camera is in sleep mode.

## **Image Quality Problems**

The image is fuzzy or out of focus

If the surroundings are dark and the contrast in the projected image is low, the document camera's auto focus function may not work correctly. Press the [◀] [▶] buttons on the document camera or the [Focus] buttons [▲] [▼] on the remote control, and then adjust the contrast manually.

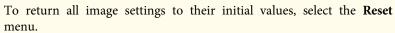
- Make sure the camera head is at least 10 cm (4 inches) away from the object you are viewing.
- If you are using a projector to display the image, check its focus.

#### The image brightness or colors are incorrect

- To illuminate your document, slide the [-•••] lamp switch on the side of the camera head.
- Press the [+] or [+] button to increase or decrease image brightness.
- Set the White Balance setting to Auto to adjust the color automatically. If the colors are still not correct, select the best setting for the type of lighting in your environment (Cloudy, Daylight, Fluorescent, or Incandescent).
- ☞ "Image Menu" p.40
- If the document camera was used with a microscope, make sure you set the **Microscope** setting to **Off** when you return to displaying documents.
- ☞ "Image Menu" p.40

#### Other image problems

- If the image is stretched or has black bars, change the **Output Resolution** or the **HDMI Output** from the **Function** menu.
  - ☞ "Function Menu" p.41



☞ "Image Menu" p.40

## **SD Card Problems**

#### Some images do not appear

Check the file format when copying images to the SD card from a computer.

- Images must be DCF-compliant, JPEG files to be displayed, such as from a digital camera. Do not edit the images, as this may change their format and prevent them from being displayed.
- Images must be named using the format ABCD1234.JPG, where ABCD is any combination of upper- or lowercase letters and 1234 is any combination of numbers. (For example: Pict0001, Pict0002)
- Images must be placed in a folder named DCIM\123ABCDE, where 123 is any combination of numbers and ABCDE is any combination of upper- or lowercase letters. If this folder structure does not exist, first create a folder named DCIM, then create a folder within it with the desired name. (For example: 100EPSON)

#### Image files do not have the correct time stamp

The document camera does not have a built-in clock. Therefore, when you view captured image files from your computer, the actual time they were created is not displayed.

#### **Problems Connecting a Laptop**

If images are not displayed from a PC laptop, you need to set up the laptop to display on an external monitor. If images are not displayed from a Mac laptop, you need to set up the laptop for mirrored display. (See your laptop manual for details.)

#### • Windows

Hold down the laptop's **Fn** key and press the key labeled with  $\exists$ / $\Box$  or **CRT/LCD**. (See your laptop manual for details.) Wait a few seconds for an image to appear. To display on both the laptop's monitor and the projector, try pressing the same keys again. If the same image is not displayed by the laptop and projector, check the Windows **Display** utility to make sure the external monitor port is enabled and extended desktop mode is disabled. (See your computer or Windows manual for instructions.)

#### • OS X

From the **Apple** menu, open the **System Preferences** utility and select **Displays**. Click the **Arrangement** tab and select the **Mirror Displays** checkbox.

## **Epson Projector Contact List**

See the following contact list if any problems occur when using the document camera outside Japan.

See the Web Home Page provided with each contact for the latest contact information. If the country you are in is not provided, see the main home page, www.epson.com.

#### **EUROPE**

ALBANIA ITD Sh.p.k. http://www.itd-al.com

AUSTRIA Epson Deutschland GmbH http://www.epson.at

BELGIUM Epson Europe B.V. Branch office Belgium http://www.epson.be

BOSNIA AND HERZEGOVINA NET d.o.o. Computer Engineering http://www.net.com.ba

BULGARIA Epson Service Center, Bulgaria http://www.kolbis.com

CROATIA MR servis d.o.o. http://www.mrservis.hr

CYPRUS Mechatronic Ltd. http://www.mechatronic.com.cy

CZECH REPUBLIC Epson Europe B.V. Branch Office Czech Republic http://www.epson.cz

DENMARK Epson Denmark http://www.epson.dk

ESTONIA Epson Service Center, Estonia http://www.epson.ee

FINLAND Epson Finland http://www.epson.fi

FRANCE and DOM-TOM TERRITORIES Epson France S.A. http://www.epson.fr

GERMANY Epson Deutschland GmbH http://www.epson.de

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GREECE Oktabit S.A. http://www.oktabit.gr

HUNGARY Epson Europe B.V. Branch Office Hungary http://www.epson.hu

IRELAND Epson (UK) Ltd. http://www.epson.ie

ISRAEL Epson Israel http://www.epson.co.il

ITALY Epson Italia s.p.a. http://www.epson.it

KAZAKHSTAN Epson Kazakhstan Rep. Office http://www.epson.kz

LATVIA Epson Service Center, Latvia http://www.epson.lv

LITHUANIA Epson Service Center Lithuania http://www.epson.lt LUXEMBURG Epson Europe B.V. Branch office Belgium http://www.epson.be

MACEDONIA Digit Computer Engineering http://www.digit.com.mk

NETHERLANDS Epson Europe B.V. Benelux sales office http://www.epson.nl

NORWAY Epson Norway http://www.epson.no

POLAND Epson EUROPE B.V. Branch Office Poland http://www.epson.pl

PORTUGAL Epson Ibérica S.A.U. Branch Office Portugal http://www.epson.pt

ROMANIA Epson Europe B.V. Branch Office Romania http://www.epson.ro

RUSSIA Epson CIS http://www.epson.ru



## UKRAINE

**Epson Kiev Rep Office** http://www.epson.ua

SERBIA AVG d.o.o. Beograd http://www.a-v-g.rs

SLOVAKIA Epson EUROPE B.V. Branch Office Czech Republic http://www.epson.sk

SLOVENIA Birotehna d.o.o http://www.birotehna.si

#### SPAIN Epson Ibérica, S.A.U. http://www.epson.es

SWEDEN Epson Sweden http://www.epson.se

SWITZERLAND Epson Deutschland GmbH Branch office Switzerland http://www.epson.ch

TURKEY Tecpro Bilgi Teknolojileri Tic. ve San. Ltd. Sti. http://www.tecpro.com.tr UK

Epson (UK) Ltd. http://www.epson.co.uk

# Indication of the manufacturer and the importer in accordance with requirements of EU directive

Manufacturer: SEIKO EPSON CORPORATION Address: 3-5, Owa 3-chome, Suwa-shi, Nagano-ken 392-8502 Japan Telephone: 81-266-52-3131 http://www.epson.com/

Importer: EPSON EUROPE B.V. Address: Atlas Arena, Asia Building, Hoogoorddreef 5,1101 BA Amsterdam Zuidoost The Netherlands Telephone: 31-20-314-5000 http://www.epson.com/europe.html

## **AFRICA**

http://www.epson.co.za or http://www.epson.fr

SOUTH AFRICA Epson South Africa http://www.epson.co.za

## **MIDDLE EAST**

Epson (Middle East) http://www.epson.ae

## NORTH, CENTRAL AMERICA & CARIBBEAN ISLANDS

CANADA Epson Canada, Ltd. http://www.epson.ca

COSTA RICA Epson Costa Rica, S.A. http://www.epson.co.cr

MEXICO Epson Mexico, S.A. de C.V. http://www.epson.com.mx

ECUADOR Epson Ecuador http://www.epson.com.ec

U.S.A. Epson America, Inc. http://www.epson.com

## SOUTH AMERICA

ARGENTINA Epson Argentina S.R.L. http://www.epson.com.ar

BRAZIL Epson do Brasil http://www.epson.com.br

CHILE Epson Chile S.A. http://www.epson.cl

COLOMBIA Epson Colombia Ltd. http://www.epson.com.co

PERU Epson Peru S.A. http://www.epson.com.pe

VENEZUELA Epson Venezuela S.A. http://www.epson.com.ve

## ASIA AND OCEANIA

AUSTRALIA Epson Australia Pty. Ltd. http://www.epson.com.au

CHINA Epson (CHINA) CO., Ltd.

#### http://www.epson.com.cn

HONG KONG Epson Hong Kong Ltd. http://www.epson.com.hk

INDIA Epson India Pvt., Ltd. http://www.epson.co.in

INDONESIA PT. Epson Indonesia http://www.epson.co.id

#### JAPAN SEIKO EPSON CORPORATION TOYOSHINA OFFICE

http://www.epson.jp

KOREA Epson Korea Co., Ltd. http://www.epson.co.kr

MALAYSIA Epson Malaysia Sdn. Bhd. http://www.epson.com.my

NEW ZEALAND Epson New Zealand http://www.epson.co.nz PHILIPPINES Epson Philippines Co. http://www.epson.com.ph

SINGAPORE Epson Singapore Pte. Ltd. http://www.epson.com.sg

TAIWAN Epson Taiwan Technology & Trading Ltd. http://www.epson.com.tw

THAILAND Epson (Thailand) Co., Ltd. http://www.epson.co.th





## Notices



## **General Specifications**

Product name		ELPDC21
Dimensions		Open (W × D × H): $270 \times 328 \times 502$ mm ( $10.6 \times 12.9 \times 19.8$ inches)
		Folded (W × D × H): $375 \times 122 \times 120$ mm (14.8 × 4.8 × 4.7 inches)
Type of sensor		1/2.7 inch CMOS sensor
Lens		F=3.4-5
Effective pixels		2 megapixel (1920 × 1080)
Imaging area		1080p: 29.7 × 52.6 cm (11.7 × 20.7 inches)
Focus adjustment		Automatic/manual
Zoom adjustment		12x optical zoom (at infinity)
		10x digital zoom
Frame rate		Up to 30 fps
Internal microphone		1 (monaural input)
Power supply	AC adapter	100to 240 VAC ±10%, 50/60 Hz
	Main unit	12 VDC
Power consumption	,	Operating: 13 W
		Standby: 0.2 W
Operating temperature		+5 to +35C, without condensation
Storage temperature		-10 to +60C, without condensation
Operating humidity		20 to 80% RH, without condensation
Storage humidity		10 to 90% RH, without condensation
Weight		Approx. 2.6 kg



Input port	Computer In port	1	Mini D-Sub15-pin (female)
Output port	Display Out port	1	Mini D-Sub15-pin (female) Output: SXGA (1280 x 1024)/XGA (1024 x 768)/WXGA (1280 x 800)/HD (1360 x 768)/1080p (1920 x 1080)
	HDMI port <sup>*1</sup>	1	HDMI Output: SDTV (480p)/HDTV (720p, 1080p)
Connector port	USB-B port <sup>*2</sup>	1	USB connector (TypeB) Output: VGA/SVGA/XGA/SXGA/WXGA/720p/1080p
	SD card slot	1	SD/SDHC card compatible

\*1 HDMI CEC is supported, however, the operation of all compatible devices is not guaranteed.

\*2 USB 2.0 is supported, however, the operation of all USB compatible devices is not guaranteed.

This product is also designed for IT power distribution system with phase-to-phase voltage 230V.



The following table lists the meaning of the safety symbols labeled on the equipment.

No.	Symbol mark	Approved standards	Meaning
0		IEC60417 No.5007	"ON" (power) To indicate connection to the mains.
2	0	IEC60417 No.5008	"OFF" (power) To indicate disconnection from the mains.
3	Ç	IEC60417 No.5009	Stand-by To identify the switch or switch position by means of which part of the equipment is switched on in order to bring it into the stand-by condition.
4	$\triangle$	ISO7000 No.0434B IEC3864-B3.1	Caution To identify general caution when using the product.
5		IEC60417 No.5041	Caution, hot surface To indicate that the marked item can be hot and should not be touched without taking care.
6		IEC60417 No.6042 ISO3864-B3.6	Caution, risk of electric shock To identify equipment that has risk of electric shock.
7		IEC60417 No.5957	For indoor use only To identify electrical equipment designed primarily for indoor use.
8		IEC60417 No.5926	Polarity of d.c. power connector To identify the positive and negative connections (the polarity) on a piece of equipment to which a d.c. power supply may be connected.

No.	Symbol mark	Approved standards	Meaning
0		IEC60417 No.5001B	Battery, general On battery powered equipment. To identify a device for instance a cover for the battery compartment, or the connector terminals.
0	(+ (+ –	IEC60417 No.5002	Positioning of cell To identify the battery holder itself and to identify the positioning of the cell(s) inside the battery holder.
0		IEC60417 No.5019	Protective earth To identify any terminal which is intended for connection to an external conductor for protection against electric shock in case of a fault, or the terminal of a protective earth electrode.
(2)	Ţ	IEC60417 No.5017	Earth Indicates a grounding port when No. 11 is not explicitly called for.
(3)	$\sim$	IEC60417 No.5032	Alternating current To indicate on the rating plate that the equipment is suitable for alternating current only; to identify relevant terminals.
(4)		IEC60417 No.5031	Direct current To indicate on the rating plate that the equipment is suitable for direct current only; to identify relevant terminals.
6		IEC60417 No.5172	Class II equipment To identify equipment meeting the safety requirements specified for Class II equipment according to IEC 61140.
6	$\bigcirc$	ISO 3864	General prohibition To identify actions or operations that are prohibited.

No.	Symbol mark	Approved standards	Meaning
		ISO 3864	Contact prohibition To indicate injury that could occur due to touching a specific part of the equipment.
13	⊴X≩⊑_		Never look into the optical lens while the projector is on.
()	₽≣×		To indicate that the marked item don't place anything on projector.
20		ISO3864 IEC60825-1	Caution, laser radiation To indicate the equipment has a laser radiation part.
2)		ISO 3864	Disassembly prohibition To indicate a risk of injury, such as electric shock, if the equipment is disassembled.
22	∢ <del>××</del> ☆		Indicates that you should not look into the lens while the LED is on.

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#### **DECLARATION of CONFORMITY**

According to 47CFR, Part 2 and 15 Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers

We:	Epson America, Inc.
Located at:	3840 Kilroy Airport Way
	MS: 3-13
	Long Beach, CA 90806
Tel:	562-981-3840

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR 2.909. 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.

Trade Name: Type of Product: Model: EPSON Document Camera ELPDC13/ELPDC21

#### FCC Compliance Statement For United States Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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 in accordance with 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 interference to radio and 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 receiver.
- Connect the equipment into 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.

#### WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

#### For Canadian Users

### CAN ICES-3 (B) / NMB-3 (B)

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TOP

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