Important Safety Instructions

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

| **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. |

Environmental Precautions

<table>
<thead>
<tr>
<th><strong>Warning</strong></th>
</tr>
</thead>
</table>
| Do not leave the document camera or the remote control with batteries inside a vehicle with the windows closed, in places where they will be exposed to direct sunlight, or in other places that may become extremely hot. 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 the document camera in places where smoke from cigarettes may be present, where it will be exposed to greasy smoke, humidity, or steam (such as cooking areas or near humidifiers), or where there is a lot of heat or dust. This can adversely affect the quality of the projected images. |

<table>
<thead>
<tr>
<th><strong>Caution</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not set up the document camera near high-voltage electrical wires or sources of magnetic fields. This may interfere with correct operation.</td>
</tr>
</tbody>
</table>

Operate in the proper environmental conditions. ☞ p.78

Do not place or store the unit where it is accessible to small children. The unit may drop or tip over, causing personal injury.  
Do not place the document camera where it will be subject to a lot of 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 refer all repairs to qualified service technicians 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 distributor. Using the damaged device may cause fire or electric shock.

Do not touch the device, the AC adapter, or the plug with wet hands. This may cause electric shock.

Do not use the power cable that is damaged. Fire or electric shock may result.

- Do not modify the power cable.
- Do not place heavy objects on top of the power cable.
- Do not bend, twist or pull the power cable excessively.
- Keep the power cable 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 cable 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.

**Installation Precautions**

**Warning**

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

**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 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, etc. or cover it during use.

**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 unit.
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.
Do not insert or drop metal, flammable, or foreign objects into the document camera's vents or openings nor leave them nearby. Doing so may result in fire, electric shock, or burns.
**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, or it may be damaged.
Do not try to press the arm flat or fold it backwards, or it may get damaged.

**Battery Precautions**

**Warning**
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 liquid from a battery gets in your eyes, do not rub your eyes. Wash them well with clean water and contact a doctor immediately. If liquid enters your mouth, rinse immediately with plenty of water and consult a doctor. If liquid from the battery comes in contact with your skin or clothes, wash with water to prevent possible skin damage.
Keep batteries out of the reach of children. Batteries are a choking hazard and are very dangerous if swallowed.
Prepare two replacement manganese or alkaline AA batteries. Do not use any other kinds of batteries.
Insert batteries so that the polarities (+ and -) are correct. Not doing so may cause leakage, overheating, or explosion.
Do not use a new battery and an old battery, or different types of batteries at the same time. 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 discharged 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 heat batteries or put them into fire or water.
When you throw away the batteries, follow your area’s regulations regarding disposal or recycling.
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Introduction

You can use the Epson ELPDC20 document camera to capture and project pages from books or other documents, and even three-dimensional objects. With the included software, you can create time-lapse photos and annotate images produced by the document camera.
### Included Items

- Remote control with 2 AA batteries
- Power cord and adapter
- VGA cable
- USB cable
- Software CD
- User's manual CD
- Quick Start
- Microscope adapter
**Top/Side/Rear**

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Camera head</td>
<td>&quot;Camera Head&quot; p.11</td>
</tr>
<tr>
<td>2 Remote receiver</td>
<td>Receives signals from the remote control.</td>
</tr>
<tr>
<td>3 Control panel</td>
<td>&quot;Control Panel&quot; p.11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Security slot</td>
<td>The security slot is compatible with the Microsaver security system manufactured by Kensington. p.17</td>
</tr>
<tr>
<td>5 Interface</td>
<td>&quot;Interface&quot; p.12</td>
</tr>
<tr>
<td>6 Security bar</td>
<td>Lets you attach a commercially available security cable to lock the document camera in place. p.17</td>
</tr>
<tr>
<td>7 SD card slot</td>
<td>Lets you save and display images on an SD card. p.37</td>
</tr>
</tbody>
</table>
**Document Camera Parts**

### Camera Head

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Microphone Captures sound when you record a video.</td>
</tr>
<tr>
<td>2</td>
<td>Lamp switch Changes the LED lamp status in three steps: bright, dim, and off.</td>
</tr>
<tr>
<td>3</td>
<td>LED lamp Turn on this lamp when there is not enough light on your document.</td>
</tr>
<tr>
<td>4</td>
<td>Camera lens Captures the image.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>[ ] button Turns the document camera power on or off.</td>
</tr>
<tr>
<td>2</td>
<td>[Source] button Projects images from the document camera.</td>
</tr>
<tr>
<td>3</td>
<td>[ ] Projects images from a computer.</td>
</tr>
<tr>
<td>4</td>
<td>[Menu] button Opens and closes the menu.</td>
</tr>
</tbody>
</table>
### Document Camera Parts

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. [ ▲ ] [ ▼ ] [ ◄ ] [ ► ] button</td>
<td>When the menu screen is displayed, pressing these buttons selects menu items and setting values.</td>
</tr>
<tr>
<td>[ ■ ] button</td>
<td>Adjusts the image Brightness.</td>
</tr>
<tr>
<td>[Enter] button</td>
<td>When the menu is displayed, pressing this button confirms the current item.</td>
</tr>
<tr>
<td>5. [Esc] button</td>
<td>Stops the current function. When the menu is displayed, pressing this button moves to the previous menu level.</td>
</tr>
<tr>
<td>6. [Zoom] button [ ‼ ] [ ‼ ]</td>
<td>Enlarges or reduces the image without changing the projection size. p.26</td>
</tr>
<tr>
<td>7. [Focus] button</td>
<td>Press the [Focus] button to automatically focus the image. The unit cannot focus on objects that are approximately 10 cm (4 inches) or less from the surface of the camera lens.</td>
</tr>
<tr>
<td>8. [F] button</td>
<td>If you press and release the button, the image is frozen. If you press and hold the button, the still image is saved. p.38</td>
</tr>
<tr>
<td>9. [ ] button</td>
<td>Starts and stops video recording.</td>
</tr>
</tbody>
</table>

### Interface

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Composite port</td>
<td>Outputs composite video signals to a projector or external monitor.</td>
</tr>
<tr>
<td>2. Power (AC adapter) port</td>
<td>Connects the supplied power cord and adapter.</td>
</tr>
<tr>
<td>3. Computer In port</td>
<td>Inputs image signals from a computer.</td>
</tr>
<tr>
<td>4. Display Out port</td>
<td>Outputs image signals to a projector.</td>
</tr>
<tr>
<td>5. HDMI port</td>
<td>Outputs image signals to a video device or computer that is compatible with HDMI signal.</td>
</tr>
<tr>
<td>6. USB-A (TypeA) port</td>
<td>Lets you annotate live images by connecting a commercially available USB mouse. p.32 Lets you save and display images on a USB drive.</td>
</tr>
<tr>
<td>7. USB-B (TypeB) port</td>
<td>Connects the document camera to a computer via the supplied USB cable when using the included software.</td>
</tr>
<tr>
<td>8. Mic In port</td>
<td>Connects a commercially available microphone when recording audio and video.</td>
</tr>
</tbody>
</table>
### Base

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Mounting points</td>
<td>You can attach the document camera to a table, cart, or stand with commercially available M4 bolts.</td>
</tr>
<tr>
<td>2 Security bar</td>
<td>Lets you attach a commercially available security cable to lock the document camera in place.</td>
</tr>
</tbody>
</table>

![Document Camera Parts Diagram](image-url)
Remote Control Buttons

Remote Control

Projector operations

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>① [ ] button</td>
<td>When used with an Epson projector, turns the projector on or off.* You cannot operate the document camera with this button.</td>
</tr>
<tr>
<td>② [A/V Mute] button</td>
<td>Turns the video and audio of an Epson projector on or off.*</td>
</tr>
<tr>
<td>③ [Source Search] button</td>
<td>Changes the input source connected to an Epson projector.*</td>
</tr>
</tbody>
</table>

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

Document camera operation

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>④ [ ] button</td>
<td>Turns the document camera on or off. You cannot operate a projector with this button.</td>
</tr>
<tr>
<td>⑤ [Auto Focus] button</td>
<td>Press the [Auto Focus] button to automatically focus the image. The unit cannot focus on objects that are approximately 10 cm (4 inches) or less from the surface of the camera lens.</td>
</tr>
<tr>
<td>⑥ [Freeze] button</td>
<td>Freezes the current image; press the button again to continue.</td>
</tr>
<tr>
<td>⑦ [Menu] button</td>
<td>Displays and closes the menu.</td>
</tr>
<tr>
<td>⑧ [ ] [ ] [ ] [ ] buttons</td>
<td>When the menu or Help screen is displayed, pressing these buttons selects menu items and setting values.</td>
</tr>
<tr>
<td>⑨ [Enter] button</td>
<td>When the menu is displayed, pressing this button confirms the current item.</td>
</tr>
</tbody>
</table>
### Remote Control Buttons

<table>
<thead>
<tr>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Esc] button</td>
<td>Stops the current function. When the menu is displayed, pressing this button moves to the previous menu level.</td>
</tr>
<tr>
<td>[Snapshot] button</td>
<td>Captures still images.</td>
</tr>
<tr>
<td>[Record] button</td>
<td>Starts and stops video recording.</td>
</tr>
<tr>
<td>[Zoom] button</td>
<td>Enlarges or reduces the image without changing the projection size. <a href="#">p.26</a></td>
</tr>
<tr>
<td>[Brightness] button</td>
<td>Adjusts the image brightness.</td>
</tr>
<tr>
<td>[Source] button</td>
<td></td>
</tr>
<tr>
<td>Remote control light emitting area</td>
<td>Outputs remote control signals.</td>
</tr>
</tbody>
</table>
When you're not using the document camera, simply fold its arm down as shown.

**Caution**

Do not try to press the arm flat or fold it backwards, or it may get damaged.
You can secure the document camera by fastening a cable to the security bar, shown below, or by inserting a Kensington anti-theft cable into the Kensington security port.

In addition, you can attach the document camera to a table, cart, or stand at the mounting points indicated below. Use M4 bolts; you can thread them into the document camera case to a maximum depth of 9 mm (0.35 inch).

**Attention**
Fasten the bolts securely but do not overtighten them. Do not use adhesives.
Connecting

Follow the instructions in this section to set up the document camera and give a presentation.
You can connect the document camera to a projector using a standard VGA cable, composite video cable, or HDMI cable, or to other video equipment such as an external monitor.

Choose the type of cable you will use, based on the type of port that's available on your projector or other video equipment:

- **VGA port** (computer monitor style)
  - VGA cable (included)

- **Composite video port** (yellow "RCA" style)
  - Composite video cable

- **HDMI port**
  - HDMI cable

2 Connect the document camera by one of the following methods:

**VGA connection**

1. Display Out port
2. VGA cable

**Composite video connection**

1. Composite port
2. Composite video cable

You can also use the document camera with a computer. p.21
When connecting with a USB cable, video from other output ports is not displayed.
When two or more cables are connected, the priority of video output is HDMI > Display Out > Composite.
Connecting to a Computer

When you connect the document camera to your computer, you can use the included software to capture, edit, and play back still images and videos. Connecting to a computer also lets you display PowerPoint slides or other applications. You can easily switch back to the live camera image at any time.

How you connect to your computer depends on the software you plan to use:

- To use the included software, see "Connect for Use with the Document Camera Software" p.21 below.
- If you don’t plan to use the software or it's not installed on your computer, see "Connect for Use Without the Document Camera Software" p.22.

Connect for Use with the Document Camera Software

This connection method lets you use the included software, as well as display PowerPoint slides or images from another application on your computer. Make sure you’ve already installed the software. p.54

1. Connect the document camera to your computer with a USB cable, as shown.

2. Connect your computer to your projector using a VGA cable.

3. Follow the instructions on p.55 to use the document camera software.
If an image doesn’t appear on the screen, the document camera’s USB Mode may be set to Mass Storage; see p.65 to change the setting. If you connected a laptop, see p.65 to check your laptop settings.

Connect for Use Without the Document Camera Software

This connection method lets you display PowerPoint slides or images from another application on your computer, but you can’t use the included software.

1. If you’re using a desktop computer, disconnect the monitor from your computer.

2. Connect a VGA cable from your computer’s monitor-out port to the document camera’s Computer In port.

3. Connect a second VGA cable from the document camera’s Display Out port to your projector.

- If you connected a laptop but the image doesn’t appear on the screen, check your laptop settings.  
- A video signal from the Computer In port can only be output from a Display Out port.
Projecting
1. Connect the power adapter as shown and plug the adapter into a wall outlet.

2. Press the [◊] power button to turn on the document camera. It takes about 20 seconds for the document camera to output an image.

3. Turn on your projector.

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

When you're done using the document camera, press the [◊] power button twice to turn it off, disconnect any cables, and fold down the camera arm.  

p.16
Positioning the Document Camera

1. Raise the camera arm while holding the body with your other hand.

2. Rotate the camera arm as shown below.

3. Position the camera head above the display area.
Attention
Do not try to press the arm flat or fold it backwards, or it may get damaged.
The camera arm can only rotate within the range shown below.

Projecting

1. Place your document on the table under the camera head. Align the center of your document with the △ mark on the side of the document camera.

- You can quickly align letter- or A4-size 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 lamp switch to illuminate the document.

If necessary, you can adjust the brightness of the image using the [+] or [–] on the document camera or remote control.
Press the [Focus] button on the document camera or the [Auto Focus] button on the remote control. Your document is automatically focused.

To sharpen hard-to-focus objects, press the [Menu] button and select **Image > Focus**. Use the [ ] and [ ] arrow buttons to adjust the focus.

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

- To enable the digital zoom, press the [Menu] button and set **Image > Digital Zoom** to **On**.
- You can zoom up to 14x optically and 10x digitally. When the optical zoom rate reaches the maximum value, it switches to the digital zoom.

### Freezing an Image

Press and release the [ ] button to freeze the image. (If you press and hold the button, it saves the image. 📷 p. 38)

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 button again; your presentation continues without interruption.
Displaying Small Objects Up Close

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

To further enlarge an object, press the [Zoom] - [+] button on the document camera or remote control. Press the [Zoom] - [-] button to zoom out.
Displaying Live Action or 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 [Menu] button and select Image > Image Rotation to 180 degrees to display the image upside-down.

1. Raise and rotate the camera head to face the front of the room.

2. Press the [Focus] button on the document camera or the [Auto Focus] button on the remote control. The image is automatically focused.

You can make an audio/video recording of the live presentation in the document camera's 1GB internal memory, on an inserted SD card, or with a connected USB drive or computer.

p.39, p.59
To display objects as seen through a microscope, use the included microscope adapter.

- Adjust the focus and zoom of a microscope before attaching to the document camera.
- Images may not be displayed correctly depending on the optical properties of your microscope.

1. Press the [Menu] button and select Image > Microscope > On. This optimizes the brightness, contrast, and other image settings for use with a microscope.

   After setting Microscope to On in step 1, if you then adjust the brightness and zoom manually, the Microscope setting changes to Off.

2. Attach the microscope adapter to an eye piece of a microscope.

3. Tighten three screws on the microscope adapter to be fixed, so that the eye piece of the microscope comes to the center of the microscope adapter.

4. Adjust the height of the camera arm and the angle of the camera head, then attach the camera head with the microscope adapter.
When a USB mouse is connected to the document camera, the annotation tools are displayed on the live camera image and you can add handwritten or graphic annotations with the USB mouse.

- When the computer is connected with the USB-B port, you cannot use the annotation tools described in this chapter. Use the annotation tools in the included software. p.56
- USB mouse devices that require installation of a driver cannot be used. Also, some USB mouse models may not be compatible.

1 Connect a USB mouse to the document camera.

2 The annotation tool bar is displayed on left side of the screen.

3 Select a tool. Click the icon with the left mouse button on the annotation tool bar.
For example, when you draw a square:
Use the left mouse button to draw lines or graphics or erase with an eraser.

4 Disconnect the USB mouse to end the annotation.

- You cannot use the on-screen menu while annotating.
- Images with your annotations cannot be saved.
If you've connected a computer (p.21), you can show PowerPoint slides or images from any other application on your computer. You can easily switch back-and-forth between your computer application and the live camera image.

- If you've connected your computer with a USB cable (p.21), you can use the document camera software to display captured images and videos, or use another application of your choice. To display the live camera image, make sure you've selected Capture mode in the document camera software. (p.55)

When you connect with USB cable, you cannot switch to computer image if you press the [ ] button.

- If you've connected your computer with a VGA cable (p.22), use the document camera's [Source] buttons to switch between your computer and the live camera image:

  To display your computer image (such as a PowerPoint presentation), press the [Source] - [ ] button on the document camera or remote control.

  To switch back to the live camera image, press the [Source] - [ ] button.
Displaying a Split Screen

If you have images saved in the document camera's internal memory or on an SD card or USB drive (p.37), you can display two images at the same time.

When connecting to a computer with a USB cable, you cannot use this function.

1 Press the [Menu] button and select Memory > Split Screen.

You see this setup screen, with the left image highlighted:

2 Use the [▲] and [▼] arrow buttons to select the source for the highlighted image. You can select from these sources:

- **Live Display** to display the camera image
- **Internal Memory** to display an image stored in internal memory
- **SD Card** to display an image stored on an SD card, if one is inserted
- **USB Flash Drive** to display an image stored on a USB drive, if one is connected

- Images on the SD card or USB drive must be stored in the proper format to be readable. p.65
- When **USB Flash Drive** is not displayed, even if one is connected, set **USB Mode** to **Application**.

3 Press the [Enter] button to confirm the selection.
If you select **Internal Memory, SD Card, or USB Flash Drive** as the source, you see a screen that lets you select which image to use:

Use the `[▲] [▼] [◄] [►]` arrow buttons to highlight the image you want to display, and press [Enter] to select it.
Select **Return** to finish setting up the split screen.

Repeat steps 2 through 4 to select the source for the right side.

You cannot display the live camera image or video on both sides of the screen.

Once you're done setting up both sides of the screen, press `[►] then press [Enter]. The selected images appear side-by-side on the screen.

When connecting to a projector with an HDMI cable, the movie's audio is also played.

To exit split screen mode, press [Menu] or [Esc].
Saving Images and Displaying a Slideshow

Images captured by the document camera can be saved not only in the internal memory but also on an SD card or USB drive. Also, stored images can be imported or exported between the document camera and an SD card or USB drive. You can view them as a slideshow or on a connected computer.

- SD and SDHC cards are supported.
- USB drives with a security function cannot be used.
- When connecting to a computer with a USB cable, you cannot use the functions described in this chapter except for "Viewing and Managing Files from Your Computer" p.43.
Captured still images are stored in the internal memory, an SD card, or a USB drive. If there is more than one save destination, the priority is as follows: USB drive > SD card > the internal memory. If the save destination only has a small capacity remaining, the image is saved in the next destination.

Images are saved in JPEG format.

1. Insert an SD card face-up or connect a USB drive, if needed.

2. Display the live camera image you want to save. Adjust any settings, as needed.

3. Press the [■] button to capture the image. Press and release when you use the remote control, press and hold when you use the control panel.

You see the number displayed in the upper right of the screen, and the image is saved.

Using the control panel, if you press and release the button without holding it, the image is frozen on the screen instead of being saved in memory.

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

If all of the save destinations only have a small capacity remaining, "The memory is full." is displayed and the image is not saved.
The document camera’s live image is recorded in the internal memory, an SD card, or a USB drive. If there is more than one save destination, the priority is as follows: USB drive > SD card > the internal memory. If the save destination only has a small capacity remaining, the image is saved in the next destination.

- Movies are saved in AVI format.
- Media formatted to FAT32 can be recorded to up to 4 GB for each file. Media formatted to FAT16 can be recorded to up to 2 GB for each file.

1. Insert an SD card face-up or connect a USB drive, if needed.

2. Display the live camera image you want to save. Adjust any settings, as needed.

Motor noises by zoom or focus may be picked up by the internal microphone. Make sure you adjust the zoom or focus settings before starting a recording, or use an external microphone to record the audio. p.39

3. Press the button to start recording.

The elapsed time displayed while recording is not displayed on the saved image.

4. To stop recording, press the button again.

- If all of the save destinations only have a small capacity remaining, "The memory is full." is displayed and the image is not saved.
- If the memory becomes full during recording, the image recorded up to that point is saved and recording stops.
- Do not disconnect the SD card or USB drive while recording.

Connecting an External Microphone

If you connect an external microphone to the document camera, the audio from the microphone is also recorded along with a movie.
• Press the [Menu] button and select **Function > Ext. Mic. Volume** to adjust the recording volume of the external microphone.
• When an external microphone is connected, the internal microphone is disabled.
• Plug-in power is not supported.
• Live audio from a microphone cannot be output.

1 Mic In port
The stored images in the internal memory can be exported to an SD card or USB drive. Also, the stored images on an SD card or USB drive can be imported to the internal memory. The steps below explain how to export images in the internal memory.

1. Insert an SD card face-up or connect a USB drive, if needed.

2. Press the [Menu] button and select Memory > Internal Memory.

3. Use the [▲] [▼] [◄] [►] arrow buttons to highlight each image you want to export, and press [Enter] to select it. (Press [Enter] again to deselect it.) A checkmark is added to each selected image.

4. Select Export(SD) or Export(USB) and press [Enter].

5. Do one of the following:
   - Disconnect the SD card or USB drive
   - If you want to leave the SD card or USB drive in the document camera, press [Menu] or [Esc] to close the screen.
If you want to remove the SD card, press in on the card and then pull it straight out of the slot. The SD Card screen automatically closes.

When USB Flash Drive is not displayed even if one is connected, set USB Mode to Application.
You can use your computer with a USB cable to access files stored in the camera’s internal memory. Before using the document camera like this, you have to change the function of its USB port as described below.

1. Connect the document camera to your projector with a VGA cable, composite video cable, or HDMI cable.  

2. Turn on the document camera and projector.

3. Press the [Menu] button and select **Function > USB Mode**. Change the setting to **Mass Storage**.

4. Disconnect the projector from the document camera.

5. Now connect the document camera to your computer with a USB cable.

The document camera’s internal memory appears as an external drive on your computer.

- The document camera does not have a built-in clock. Therefore, when you view files from your computer, they won’t show the actual time they were created.
- 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 normally.

6. Use your computer to view the files, or to copy, move, or delete them.

- If you copy images from your computer to the document camera, they must be in the proper format to be readable.

7. When you’re done, disconnect the computer.

- Before disconnecting the USB cable, make sure your files have finished copying. Otherwise, they may be damaged.

8. Reconnect the projector.

9. Press the [Menu] button and select **Function > USB Mode**. Change the setting back to **Application**.

- If you don’t change the setting back, you won’t be able to see a live camera image when you use the document camera software. If you don’t plan to use the software, you don’t need to change the setting back.
Once you have stored images in the document camera’s internal memory or on an SD card or USB drive, you can display a slideshow.

In addition to images captured with the document camera, you can display images stored in the inserted SD card or connected USB drive. You can also display images copied to the document camera from your computer (p.43), but they must be in the proper format.

1. Press the [Menu] button and select Memory.

2. Select Internal Memory (to view images in internal memory), SD Card (to view images on your SD card, if inserted), or USB Flash Drive (to view images on your USB drive, if connected).

You see a screen like this:

3. To rotate an image, use the [▲] [▼] [◄] [►] arrow buttons to highlight it and press [Enter] to select it. (Press [Enter] again to deselect it.) A checkmark is added to the image. In the same way, select any additional images you want to rotate. Select Rotate. All checkmarked images are rotated 90 degrees clockwise.

Image quality may decrease slightly after rotating an image. Also, if your photo is time-stamped, the date will be changed to a default value.

4. Use the [▲] [▼] [◄] [►] arrow buttons to highlight each image to be displayed in the slideshow, and press [Enter] to select it. (Press [Enter] again to deselect it.) A checkmark is added to the selected images.

   To add checkmarks to all images, choose Select All. To remove all checkmarks, choose Select All again.

5. Select Play/Slideshow to display the first image in the slideshow. To start or stop the movie, press [Enter].

   When connecting to a projector with an HDMI cable, the movie’s audio is also played.

6. Press [►] to advance to the next image. Press [◄] to return to the previous image.

7. End the slideshow by pressing [►] while the last image is displayed. Or press [Menu] or [Esc] to end the slideshow at any time.
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 display negative film in true color.
Press the [Menu] button on the document camera or remote control to view the on-screen menu. For details of each item in the screen menu, see p.48.

You see this screen:

Use the [▲][▼][◄][►] arrow buttons to navigate the menu and adjust the settings. Press [Enter] to select a setting. When you're done adjusting the settings, press the [Menu] or [Esc] button to close the menu and save your settings.
Making Image Adjustments

Basic image adjustments such as focus, zoom, and brightness are discussed in "Displaying a Document or Other Materials" p.25. You can make these further adjustments by pressing the [Menu] button to open the Image menu.

When projecting a live image, you can adjust the Image menu settings.

Image Menu

- **White Balance**
  Adjusts the image color based on the lighting in the room where you’re presenting. Select from **Auto** (to adjust the image automatically), **Cloudy**, **Daylight**, **Fluorescent** (to lessen blue tones), or **Incandescent** (to lessen yellow tones).

- **Focus**
  Lets you manually adjust the focus if auto-focus doesn't produce a sharp enough image.

- **Focus Lock**
  When **On** is selected, auto-focus is disabled while zooming.

- **Image Mode**
  You can select from the following settings to adjust for the image type you are displaying from the camera:
  - **Normal**: default setting
  - **Text**: for projecting black-and-white text
  - **Display**: for directly projecting the display of a tablet device etc.

- **Digital Zoom**
  When **On** is selected, the digital zoom is enabled after the optical zoom.

- **Color/B&W/Negative**
  Displays the image in color or black-and-white. To show a photographic negative in true color, select **Negative**.

- **Image Rotation**
  Lets you rotate an upside-down image.

- **Microscope**
  Optimizes the brightness, contrast, and other settings for use with a microscope. ♦ p.30

- **Noise Reduction**
  When **On** is selected, noise in the live image is removed. If the delay in projected images bothers you, select **Off**.

- **Advanced**
  For conducting advanced settings of the live image. Use the [↓] and [↑] arrow buttons to adjust the parameters.

  - **Exposure**
    If the projected image is too dark or too bright to reproduce the original colors, you can adjust the light volume. Set **Exposure** to a positive value if the overall image is dark and to a negative value if it is bright.

  - **Contrast**
    Adjusts the difference between bright and dark areas of images. Set it to a positive value to project vivid images and to a negative value to project monotone images.

  - **Color Adjustment**
    Adjusts the reddish and bluish colors of the whole image.

  - **Edge Enhancement**
    Emphasizes the contours of the image. Set it to a positive value for sharp images and to a negative value for soft images.

  - **Gamma**
    Adjusts the coloring that occurs while displaying the image. When a smaller value is selected, the dark areas of images become brighter, but the lighter areas may become over-saturated. When a larger value is selected, you can reduce the overall brightness of the image to make the image sharper.

- **Reset**
  Lets you return the image settings to their standard (default) values.
## Adjusting Other Settings (On-screen Menu List)

### Image Menu

<table>
<thead>
<tr>
<th>Setup Item</th>
<th>Explanation/Select</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>White Balance</strong></td>
<td>Adjusts the image color based on the lighting in the room where you're presenting.</td>
</tr>
<tr>
<td><strong>Auto</strong></td>
<td>Automatically adjusts the image color according to the display environment.</td>
</tr>
<tr>
<td><strong>Cloudy</strong></td>
<td>Suitable for use in cloudy weather.</td>
</tr>
<tr>
<td><strong>Daylight</strong></td>
<td>Suitable for use in fair weather.</td>
</tr>
<tr>
<td><strong>Fluorescent</strong></td>
<td>Suitable for use in a room with fluorescent lighting.</td>
</tr>
<tr>
<td><strong>Incandescent</strong></td>
<td>Suitable for use in a room with incandescent lamps.</td>
</tr>
<tr>
<td><strong>Focus</strong></td>
<td>Lets you manually adjust the focus if auto-focus doesn't produce a sharp enough image.</td>
</tr>
<tr>
<td><strong>Near</strong></td>
<td>Adjusts the focus in.</td>
</tr>
<tr>
<td><strong>Far</strong></td>
<td>Adjusts the focus out.</td>
</tr>
<tr>
<td><strong>Focus Lock</strong></td>
<td>Sets the auto-focus lock while zooming.</td>
</tr>
<tr>
<td><strong>On</strong></td>
<td>Disables auto-focus while using the optical zoom.</td>
</tr>
<tr>
<td><strong>Off</strong></td>
<td>Enables auto-focus while using the optical zoom.</td>
</tr>
<tr>
<td><strong>Image Mode</strong></td>
<td>Selects the setting to adjust for the image type you are displaying from the camera.</td>
</tr>
<tr>
<td><strong>Normal</strong></td>
<td>Default setting.</td>
</tr>
<tr>
<td><strong>Text</strong></td>
<td>Suitable for projecting black-and-white text.</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>Suitable for directly projecting the display of a tablet PC etc.</td>
</tr>
<tr>
<td><strong>Digital Zoom</strong></td>
<td>Adjusts digital zoom settings.</td>
</tr>
<tr>
<td><strong>On</strong></td>
<td>Enables digital zoom operation after the optical zoom.</td>
</tr>
<tr>
<td><strong>Off</strong></td>
<td>Disables digital zoom operation after the optical zoom.</td>
</tr>
<tr>
<td><strong>Color/B&amp;W/Negative</strong></td>
<td>Displays the image in color or black-and-white.</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Displays the image in color.</td>
</tr>
<tr>
<td><strong>Black&amp;White</strong></td>
<td>Displays the image in black-and-white.</td>
</tr>
<tr>
<td><strong>Negative</strong></td>
<td>Displays a photographic negative in true color.</td>
</tr>
<tr>
<td><strong>Image Rotation</strong></td>
<td>Lets you rotate an upside-down image.</td>
</tr>
<tr>
<td><strong>Normal</strong></td>
<td>Displays the image as it actually is.</td>
</tr>
<tr>
<td><strong>180 degrees</strong></td>
<td>Displays the image upside-down.</td>
</tr>
<tr>
<td><strong>Microscope</strong></td>
<td>Optimizes the image settings if using with a microscope.</td>
</tr>
<tr>
<td><strong>On</strong></td>
<td>Sets the optimal image settings for use with a microscope.</td>
</tr>
<tr>
<td><strong>Off</strong></td>
<td>Returns to the normal settings.</td>
</tr>
</tbody>
</table>
## Adjusting Other Settings (On-screen Menu List)

<table>
<thead>
<tr>
<th>Setup Item</th>
<th>Explanation/Select</th>
</tr>
</thead>
</table>
| Noise Reduction  | Settings related to Noise Reduction.  
On: Activates Noise Reduction. Use this setting if noise occurs.  
Off: Deactivates Noise Reduction. |
| Advanced         | Makes advanced settings of live image.  
Exposure: Adjusts the light volume of projected 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 value.                               |

## Function Menu

<table>
<thead>
<tr>
<th>Setup Item</th>
<th>Explanation/Select</th>
</tr>
</thead>
</table>
| USB Mode        | Changes how the document camera functions when connected with a USB cable.  
Application: Enables use of a USB drive and the included software. This is the default setting when turned on.  
Mass Storage: Lets you use a computer to view images stored in the internal memory. |
| Ext. Mic. Volume| Adjusts the recording volume from an external microphone.                           |
| HDMI Output     | Sets the output resolution when connecting with an HDMI cable.  
Auto: Automatically set according to the resolution of the output device.  
SDTV (480p)  
HDTV (720p)  
HDTV (1080p) |
| Output Resolution| Sets the output resolution when connecting with a VGA cable.  
Auto: Automatically set according to the resolution of the output device.  
XGA 1024x768  
WXGA 1280x800  
WXGA 1360x768  
SXGA 1280x1024  
Full HD 1920x1080 |
<table>
<thead>
<tr>
<th>Setup Item</th>
<th>Explanation/Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Format</td>
<td>Selects the video output signal.</td>
</tr>
<tr>
<td></td>
<td>NTSC</td>
</tr>
<tr>
<td></td>
<td>PAL</td>
</tr>
<tr>
<td>Flickerless</td>
<td>Eliminates flicker when giving presentations in regions with different electrical systems.</td>
</tr>
<tr>
<td></td>
<td>50Hz</td>
</tr>
<tr>
<td></td>
<td>60Hz</td>
</tr>
<tr>
<td>Language</td>
<td>Changes the on-screen menu language.</td>
</tr>
<tr>
<td>Sleep Mode</td>
<td>Operation settings when the document camera is inactive.</td>
</tr>
<tr>
<td></td>
<td><strong>On</strong>: The power automatically turns off if the document camera is inactive for a certain amount of time.</td>
</tr>
<tr>
<td></td>
<td><strong>Off</strong>: The power remains on even if the document camera is not being used.</td>
</tr>
<tr>
<td>Sleep Mode Timer</td>
<td>Sets the time from when the document camera is last operated until when the power automatically turns off.</td>
</tr>
<tr>
<td></td>
<td><strong>1 to 6 hour(s)</strong></td>
</tr>
</tbody>
</table>
## Memory Menu

<table>
<thead>
<tr>
<th>Setup Item</th>
<th>Explanation/Select</th>
</tr>
</thead>
<tbody>
<tr>
<td>Split Screen</td>
<td>Simultaneously displays two images from the internal memory, an SD card, a USB drive, or the live image.</td>
</tr>
<tr>
<td></td>
<td><strong>Left Source:</strong> Selects the image to be projected on the left side.</td>
</tr>
<tr>
<td></td>
<td><strong>Right Source:</strong> Selects the image to be projected on the right side.</td>
</tr>
<tr>
<td>Internal Memory</td>
<td>Operations related to the internal memory.</td>
</tr>
<tr>
<td></td>
<td><strong>Export(SD):</strong> Exports the selected images to an SD card.</td>
</tr>
<tr>
<td></td>
<td><strong>Export(USB):</strong> Exports the selected images to a USB drive.</td>
</tr>
<tr>
<td></td>
<td><strong>Play/Slideshow:</strong> Displays the selected images in a slideshow.</td>
</tr>
<tr>
<td></td>
<td><strong>Select All:</strong> Selects all images in the internal memory.</td>
</tr>
<tr>
<td></td>
<td><strong>Delete:</strong> Deletes selected images.</td>
</tr>
<tr>
<td></td>
<td><strong>Rotate:</strong> Rotates selected images 90 degrees clockwise and saves them.</td>
</tr>
<tr>
<td>SD Card</td>
<td>Operations related to an SD card.</td>
</tr>
<tr>
<td></td>
<td><strong>Import:</strong> Imports selected images to the document camera's internal memory.</td>
</tr>
<tr>
<td></td>
<td><strong>Play/Slideshow:</strong> Displays the selected images in a slideshow.</td>
</tr>
<tr>
<td></td>
<td><strong>Select All:</strong> Selects all images on an SD card.</td>
</tr>
<tr>
<td></td>
<td><strong>Delete:</strong> Deletes selected images.</td>
</tr>
<tr>
<td></td>
<td><strong>Rotate:</strong> Rotates selected images 90 degrees clockwise and saves them.</td>
</tr>
<tr>
<td>USB Flash Drive</td>
<td>Operations related to a USB drive.</td>
</tr>
<tr>
<td></td>
<td><strong>Import:</strong> Imports selected images to the document camera's internal memory.</td>
</tr>
<tr>
<td></td>
<td><strong>Play/Slideshow:</strong> Displays the selected images in a slideshow.</td>
</tr>
<tr>
<td></td>
<td><strong>Select All:</strong> Selects all images on a USB drive.</td>
</tr>
<tr>
<td></td>
<td><strong>Delete:</strong> Deletes selected images.</td>
</tr>
<tr>
<td></td>
<td><strong>Rotate:</strong> Rotates selected images 90 degrees clockwise and saves them.</td>
</tr>
</tbody>
</table>
## Info Menu

<table>
<thead>
<tr>
<th>Setup Item</th>
<th>Explanation</th>
</tr>
</thead>
</table>
| Memory Capacity | **Free Space**: Displays the remaining capacity of the document camera’s internal memory.  
                   **Total Size**: Displays the total capacity of the document camera’s internal memory. |
| Number of Files | Displays the number of files saved in the document camera’s internal memory. |
| Version         | Displays the firmware version of the document camera.         |
Using the Included Software

The included software lets you use the document camera to capture still images, make time-lapse movies, record live videos with audio, and edit and play back captured files. The software also lets you annotate images from the document camera with text and graphics, and upload your videos to popular websites. Before starting, follow the instructions in this section to install the software.

For detailed help when using the software, do one of the following:
Windows: Press F1 or select Application Help from the Extras menu.
Mac OS X: Select Help from the menu bar.
Installing the Software

You can install the software on a Windows or Mac OS X computer. See p.80 for system requirements.

1. Press the [()] power button to turn on the document camera.
2. Connect the document camera to your computer with a USB cable. p.21
3. Insert the CD labeled "ArcSoft Application Software for Epson Document Camera" into your computer.
4. When you see the license agreement, click Yes.
5. Follow the instructions on the screen to install all the software.

When you see a screen asking if you want to install the Button Manager and TWAIN Driver for Epson Document Camera (Windows only), be sure to allow the software to install.

Uninstalling the Software

Follow these steps if you need to uninstall the software.

Windows

2. Windows XP: Select Control Panel > Add or Remove Programs.
5. Windows XP: Click Change/Remove.

Mac OS X

1. Open the Applications folder.
1 Connect the document camera to a computer with a USB cable.  
   p.21

2 Start the software:
   • Windows: From Programs or All Programs, select ArcSoft Application Software for Epson Document Camera. If the software does not start, install the Windows Media Player.
   • Mac OS X: Open the Applications folder, then double-click ArcSoft Application Software for Epson Document Camera. You see the screen shown below.

If you see a message that the document camera is not found, make sure it is connected and turned on. Then click the Connect button in the upper-right corner of the screen.

1 Main modes (capture, edit, and file management)
2 Capture album (previously captured images)
3 Capture buttons (still image, burst, time-lapse, and video)
4 Live Annotation button
5 Preview area (live camera image)
6 Connect button
You can annotate live images from the document camera with text and graphics while giving a presentation. When you capture an image, your annotations will be included with the image; if you record your presentation as a video, the recording will show your annotations as they're being added.

You can also annotate still images after they've been captured using the Edit screen. p.60

1. If necessary, click the Capture button to enter Capture mode. Your live camera image appears in the preview area.

2. Click the Live Annotation button.

3. Select a drawing tool, such as Pen, Line, or Text.

4. Change the properties of the selected tool.

5. Use the selected tool to add text and graphics.

6. To clear an annotation, use the Eraser tool or click the Undo button to clear the last change you made. To clear all annotations, select the Eraser tool and then click the Clear all button that appears above the preview area.

To save an annotated image, click the Take Picture button at the bottom of the screen. p.57
To record a video that shows annotations as they're being made, see p.59.
You can capture a still image or a quick series of images (called a burst).

1. If necessary, select the settings you want to use. Click the Settings button and select the Image tab.

   - Select the default image format, quality level, and other properties.
   - Choose the number of photos, up to 10, that will be captured with each burst (5 is the default).

2. To capture a still image, click the Take Picture button.

3. To capture a quick series of images, click the Burst button.

Your captured image(s) appear in the Capture album on the left side of the screen. To display a captured image through your projector, double-click the image or right-click it and select Preview.
You can record a time-lapse movie to show gradual changes that occur over several hours.

1. Click the **Settings** button and select the **Time Lapse** tab.
   - Set the time interval between each frame (5 seconds minimum).
   - Set the total capture duration (up to 72 hours).
   Click **OK** to close the Settings screen.

2. Click the **Start Time Lapse** button to begin capturing images.

When the process is done, the time-lapse movie or image appears as an icon in the Capture album on the left side of the screen. To display the movie through your projector, double-click the icon or right-click it and select **Preview**.
You can make an audio/video recording of your presentation. Set the resolution under Full HD (1920×1080).

1. If necessary, select the settings you want to use. Click the Settings button and select the Video tab.
   - Select the default video format, quality level, and other properties.
   - Set the maximum duration of each video (up to 8 hours) and see how much hard disk space it will use.

2. To capture sound, click the Settings button, select the Audio tab, and select ELPDC20 from Audio Device.

3. Click the Record Video button to start recording. Click Record Video again to stop.
   You can also use the [ REC ] button on the control panel to start and stop recording.

Your movie appears as an icon in the Capture album on the left side of the screen. To display the movie through your projector, double-click the icon or right-click it and select Preview.

When you connect with the computer, you cannot use two document cameras at the same time.

### Compatible File Format

<table>
<thead>
<tr>
<th>Type</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Still images</td>
<td>.jpg/.bmp</td>
</tr>
<tr>
<td>Videos</td>
<td>Windows: .wmv/.avi/.mpg</td>
</tr>
<tr>
<td></td>
<td>Mac OS X: .mov</td>
</tr>
</tbody>
</table>
You can use the Edit screen to improve the quality (such as brightness and contrast) of captured pictures and videos. With still images, you can zoom in on part of the image, rotate the image, or flip it to create a mirror image. You can also annotate still images. While viewing a video, you can pause it and capture a still image from the current frame.

1. Click the **Edit** button to enter Edit mode.

2. For detailed help when using the software, do one of the following:
   Windows: Press **F1** or select **Application Help** from the **Extras** menu.
   Mac OS X: Select **Help** from the menu bar.
Managing Saved Files

You can use the File Management screen to sort and locate captured images and videos. By rating them and applying “tags” or descriptive text, you can make it easier to find them later on.

1. Click the 📖 **File Management** button to enter **File Management** mode.

2. For detailed help when using the software, do one of the following:
   - Windows: Press **F1** or select **Application Help** from the ** Extras** menu.
   - Macintosh: Select **Help** from the menu bar.
You can easily upload your videos to popular video-sharing websites, such as YouTube and SchoolTube.

This feature is not available for Apple Macintosh systems.

1. Click the Edit button.
2. Select a video.
3. Select a website.
4. Follow the instructions on the screen to log in, provide a title for your video and other descriptive information, and upload the file.
Solving Problems
**Operation Problems**

No image appears on the screen

- After you press the [Power] button, wait a few moments for the image to appear. It takes about 20 seconds for the document camera to output an image.
- Make sure your projector is connected. ❯ p.19
  If you're connecting it through a computer, see p.21.
- If you've connected a laptop, see "Problems Connecting a Laptop" p.65.
- The document camera may be set to display an image from your computer. Press the [Source] button on the document camera or remote control to display the live camera image.
- Select the correct source on your projector. The source refers to the port on the projector to which you've connected the video cable. If you're using a VGA cable, the source may be called something like "Computer" or "PC".
- Make sure your projector is turned on and not in sleep mode. Make sure its picture has not been "muted" or turned off.
- If you made a USB connection, the document camera's USB Mode setting may be set to Mass Storage. You need to change this setting to Application. First disconnect the USB cable, then reconnect to the projector using a VGA cable, composite video cable, or HDMI cable. Press the [Menu] button and select Function > USB Mode, then change the setting to Application. Now you can use the USB cable to display the image.

**Image Quality Problems**

The image is fuzzy or out of focus

- The document camera needs hard edges or sharp lines in the image to be able to focus properly. If the image has only soft edges, try placing a different document under the camera lens while adjusting the focus. Or focus the image manually with the Focus adjustment in the Image menu. ❯ p.47
- Make sure the lens is at least 10 cm (4 inches) away from the object you're viewing.
- If you're using a projector to display the image, check its focus.

The image brightness or color isn't correct

- 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. ❯ p.47
  If the color is still not correct, choose the setting for the type of lighting you're presenting under (Cloudy, Daylight, Fluorescent, or Incandescent).
- If the document camera was used with a microscope, be sure to turn the Microscope setting off when you return to displaying ordinary documents. ❯ p.47

Other image problems

- If the image is stretched or has black bars, you may need to change the Output Resolution in the Function menu.

If you think some settings may have been changed, you can use the Reset option to return all the image settings back to their standard values except the Output Resolution setting. ❯ p.47
Problems Using an SD Card

Certain images don't appear

If you use your computer to copy images to the document camera's internal memory or an SD card, you need to make sure their format is correct:

- Images must be DCF-compliant JPEG files to be displayed, such as from a digital camera. Avoid editing your 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, etc.
- 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 doesn't exist, first create a folder named DCIM, then create a folder within it with the desired name (for example, 100EPSON).

Image files don't 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, they won't show the actual time they were created.

Problems Connecting a Laptop

If you've connected a laptop computer (☞ p.21) but the image doesn't appear on the screen, check the following:

- Windows:
  Hold down the Fn key and press the function key (such as CRT/LCD) that lets you display on an external monitor. On most systems, the CRT/LCD key lets you toggle between the LCD screen and the projector, or display on both at the same time. Check your monitor settings to make sure both the LCD screen and the external monitor port are enabled. From the Control Panel, open the Display utility. Click the Settings tab, then click Advanced. The method for adjusting the settings varies by brand; you may need to click a Monitor tab, then make sure the external monitor port is set as your primary display and/or enabled. See your computer's documentation or online help for details.
- Mac OS X:
  From the Apple menu, select System Preferences, then click Display or Displays. Select VGA Display or Color LCD, click Arrangement or Arrange, and make sure Mirror Displays is checked.

Problems Using a USB Drive

Images stored on a USB drive are not displayed

The document camera's USB Mode setting may be set to Mass Storage. Press the [Menu] button and select Function > USB Mode, then change the setting to Application.

There are no images stored on the USB drive

The document camera's USB Mode setting may be set to Mass Storage. Press the [Menu] button and select Function > USB Mode, then change the setting to Application.

Problems Using the Document Camera Software

The buttons on the document camera don't work with the software

When you installed the software, the Button Manager and TWAIN Driver for Epson Document camera (Windows only) weren't installed. Reinstall all
the software, being sure to allow the Button Manager and TWAIN Driver for Epson Document camera to install.

You don't see the live camera image on your computer

The document camera's USB Mode setting may be set to Mass Storage. You need to change this setting to Application. First disconnect the USB cable, then reconnect to the projector using a VGA cable, composite video cable, or HDMI cable. Press the [Menu] button and select Function > USB Mode, then change the setting to Application. Now you can use the USB cable to display the image.
Where to Get Help

Addresses and phone numbers are subject to change. For the most current information, check the website of your regional sales office listed below. If you don’t find one in your area, visit Epson’s main website at www.epson.com.

Europe

ALBANIA
ITD Sh.p.k.
Gjergji Center, Rr Murat
Toptani Tirana
04000 Tirana - Albania
Tel: 00355 4 2234025
Fax: 00355 4 2232990
Web Address:
http://content.epson.it/about/int_services.htm

AUSTRIA
EPSON DEUTSCHLAND GmbH
Buropark Donau Instrasse 1-2
A-3400 Klosterneuburg
Tel: +43 (0) 2243 - 40 181 - 0
Fax: +43 (0) 2243 - 40 181 - 30
Web Address:
http://www.epson.at

BELGIUM
EPSON Europe B.V.
Branch office Belgium
Belgicastraat 4 - Keiberg
B-1930 Zaventem
Tel: +32 2/ 7 12 30 10
Fax: +32 2/ 7 12 30 20
Hotline: 070 350120
Web Address:
http://www.epson.be

BOSNIA AND HERZEGOVINA
NET d.o.o. COMPUTER ENGINEERING
Vukovarska 24
88000 Mostar
Tel: 00387 36449660
Fax: 00387 36449669
Web Address:
http://content.epson.it/about/int_services.htm

BULGARIA
EPSON Service Center, Bulgaria
c/o ProSoft Central Service
Akad. G. Bonchev SRT. bl.6
1113 Sofia
Tel: 00359 2 979 30 75
Fax: 00359 2 971 31 79
Email: info@prosoft.bg
Web Address:
http://www.prosoft.bg

CROATIA
MR SERVIS
Dugoselska cesta 5
10370 Rugvica
Tel: 00385 16401111
Fax: 00385 13654982
Web Address:
http://content.epson.it/about/int_services.htm
Where to Get Help

CYPRUS
MECHATRONIC LTD
88 Digenis Akritas Avenue
"Loizides Centre 2" - 2nd Floor
CY-1061 Nicosia
Tel: 00357 22582258
Fax: 00357 22582222
Web Address:
http://content.epson.it/about/int_services.htm

CZECH REPUBLIC
EPSON EUROPE B.V.
Branch Office Czech Republic
Slavickova 1a 63800 Brno
E-mail: infoline@epson.cz
Web Address:
http://www.epson.cz
Hotline: 800 142 052

DENMARK
EPSON Denmark
Transformervej 6 2730 Herlev
Tel: 44508585
Fax: 44508586
Email: danmark@epson.dk
Web Address:
http://www.epson.dk
Hotline: 70279273

ESTONIA
EPSON Service Center, Estonia
c/o Kulbert Ltd. Sirge 4, 10618
Tallinn
Tel: 00372 671 8160
Fax: 00372 671 8161
Web Address:
http://www.epson.ee

FINLAND
Epson Finland
Rajatorpantie 41 C FI-01640
Vantaa
Web Address:
http://www.epson.fi
Hotline: 0201 552090

FRANCE and DOM-TOM TERRITORIES
EPSON France S.A.
150 rue Victor Hugo BP 320
92305 LEVALLOIS PERRET
CEDEX
Web Address:
http://www.epson.fr
Hotline: 0821017017

GERMANY
EPSON Deutschland GmbH
Otto-Hahn-Strasse 4 D-40670
Meerbusch
Tel: +49-(0)2159-538 0
Fax: +49-(0)2159-538 3000
Web Address:
http://www.epson.de
Hotline: 01805 2341 10

GREECE
EPSON Italia s.p.a.
ITALY
EPSON Italia s.p.a.
Via M. Vigano de Vizzi, 93/95
20092 Cinisello Balsamo (MI)
Tel: +39 06. 660321
Fax: +39 06. 6123622
Web Address:
http://www.epson.it
Hotline: 02 26830058

KAZAKHSTAN
EPSON Kazakhstan Rep Office
97, Samal-2, bldg A1, 5th floor
Business Center “Samal Towers”
Almaty 050051, Kazakhstan
Phone +7 727 3560260
Fax +7 727 3560260
Web Address:
http://www.epson.ru

LATVIA
EPSON Service Center, Latvia
c/o ServiceNet LV
Jelgavas 36
1004 Riga
Tel.: 00 371 746 0399
Fax: 00 371 746 0299
Web Address:
http://www.epson.lv

LITHUANIA
EPSON Service Center, Lithuania

HUNGARY
EPSON EUROPE B.V.
Branch Office Hungary
Infopark setany 1.
H-1117 Budapest
Hotline: 06 800 14 783
E-mail: infoline@epson.hu
Web Address:
http://www.epson.hu

IRELAND
Epson (UK) Ltd.
Westside, London Road
Hemel Hempstead, Herts HP3 9TD
Web Address:
http://www.epson.ie
Hotline: 01 679 9015

ISRAEL
Epson Israel
2 Habonim st.
Ramat Gan
Tel: +972-3-5751833
Fax: +972-3-575161
Web Address:
http://www.epson.co.il

ITALY
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Via M. Vigano de Vizzi, 93/95
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Fax: +39 06. 6123622
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KAZAKHSTAN
EPSON Kazakhstan Rep Office
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Business Center “Samal Towers”
Almaty 050051, Kazakhstan
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Fax +7 727 3560260
Web Address:
http://www.epson.ru

LATVIA
EPSON Service Center, Latvia
c/o ServiceNet LV
Jelgavas 36
1004 Riga
Tel.: 00 371 746 0399
Fax: 00 371 746 0299
Web Address:
http://www.epson.lv

LITHUANIA
EPSON Service Center, Lithuania
LUXEMBURG
EPSON Europe B.V.
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B-1930 Zaventem
Tel: +32 2/ 7 12 30 10
Fax: +32 2/ 7 12 30 20
Hotline: 0900 43010
Web Address: http://www.epson.be

MACEDONIA
DIGIT COMPUTER ENGINEERING
Bul. Partizanski Odredi 62 Vlez
II mezanin
1000 Skopie
Tel: 00389 2 3093393
Fax: 00389 2 3093393
Web Address: http://content.epson.it/about/int_services.htm

NETHERLANDS
EPSON Europe B.V.
Benelux sales office
Entrada 701
NL-1096 EJ Amsterdam
The Netherlands
Tel: +31 20 592 65 55
Fax: +31 20 592 65 66
Hotline: 0900 5050808
Web Address: http://www.epson.nl

NORWAY
EPSON NORWAY
Fjordveien 3
1363 Hovik NORWAY
Hotline: 815 35 180
Web Address: http://www.epson.no

POLAND
EPSON EUROPE B.V.
Branch Office Poland
ul. Bokserska 66
02-690 Warszawa
Poland
Hotline: (0) 801-646453
Web Address: http://www.epson.pl

PORTUGAL
EPSON Portugal
R. Gregório Lopes, n° 1514
Restelo 1400-195 Lisboa
Tel: 213035400
Fax: 213035490
Hotline: 707 222 000
Web Address: http://www.epson.pt
Where to Get Help

ROMANIA
EPSON EUROPE B.V.
Branch Office Romania
Strada Ion Urdareanu nr. 34
Sector 5, 050688 Bucuresti
Tel: 00 40 21 4025024
Fax: 00 40 21 4025020
Web Address:
http://www.epson.ro

RUSSIA
EPSON CIS
Schepkina street, 42, Bldg 2A,
3rd floor
129110, Moscow, Russia
Phone +7 (495) 777-03-55
Fax +7 (495) 777-03-57
Web Address:
http://www.epson.ru

UKRAINE
EPSON Kiev Rep Office
Pimonenko street, 13, Bldg 7B,
Office 15
04050, Kiev, Ukraine
Phone +38 (044) 492 9705
Fax +38 (044) 492 9706
Web Address:
http://www.epson.ru

SERBIA AND MONTENEGRO
AVG DOO BEOGRAD
Dunavska 86
11000 Beograd
Tel: 00 381 11 275 40 75
Tel: 00 381 11 328 44 88
Fax: 00 381 11 328 18 70
Web Address:
http://content.epson.it/about/int_services.htm

SLOVAKIA
EPSON EUROPE B.V. Branch Office Czech Republic
Slavickova 1a 638 00 Brno
Hotline: 0850 111 429 (national costs)
Email: infoline@epson.sk
Web Address:
http://www.epson.sk

SLOVENIA
BIROTEHNA d.o.o
Litijska Cesta 259
1261 Ljubljana - Dobrunje
Tel: 00 386 1 5853 410
Fax: 00386 1 5400130
Web Address:
http://content.epson.it/about/int_services.htm

SPAIN
EPSON Ibérica, S.A.
Av. de Roma, 18-26
08290 Cerdanyola del Vallés
Barcelona
Tel: 93 582 15 00
Fax: 93 582 15 55
Hotline: 902 28 27 26
Web Address:
http://www.epson.es
Where to Get Help

SWEDEN
Epson Sweden
Box 329 192 30 Sollentuna
Sweden
Tel: 0771-400134
Web Address: http://www.epson.se

SWITZERLAND
EPSON DEUTSCHLAND GmbH
Branch office Switzerland
Zweigniederlassung Kloten
Steinackerstrasse 34
CH-8302 Kloten
Tel: +41 (0) 43 255 70 20
Fax: +41 (0) 43 255 70 21
Hotline: 0848448820
Web Address: http://www.epson.ch

TURKEY
TECPRO
No: 10 Kat 1/2 Kagithane 34410
Istanbul
Tel: 0090 212 2684000
Fax: 0090212 2684001
Info: bilgi@epsonerisim.com
Web Address: http://www.epson.com.tr

UNITED KINGDOM
Epson (UK) Ltd.
Westside, London Road
Hemel Hempstead Herts HP3 9TD
Tel: (01442) 261144
Fax: (01442) 227227
Hotline: 08704437766
Web Address: http://www.epson.co.uk

Africa
Contact your dealer
Web Address: http://www.epson.co.za
Email: support@epson.co.za
or http://www.epson.fr

SOUTH AFRICA
Epson South Africa
Grnd. Flr. Durham Hse, Block 6
Fourways Office Park
Cnr. Fourways Blvd. & Roos Str.
Fourways, Gauteng, South Africa.
Tel: +27 11 201 7741
/ 0860 337766
Fax: +27 11 465 1542
Email: support@epson.co.za
Web Address: http://www.epson.co.za

Middle East
Epson (Middle East)
Where to Get Help

P.O. Box: 17383 Jebel Ali Free
Zone Dubai
UAE (United Arab Emirates)
Tel: +971 4 88 72 1 72
Fax: +971 4 88 18 9 45
Email: supportme@epson.eu
Web Address:
http://www.epson.ae

North and Central America

CANADA
Epson Canada, Ltd.
185 Renfrew Drive
Markham,
Canada, L3R 6G3
Tel: 905-709-9475
or 905-709-3839
Web Address:
http://www.epson.ca

COSTA RICA
EPSON Costa Rica
De la Embajada Americana,
200 Sur y 200 Oeste
Apartado Postal 1361-1200 Pavas
San Jose, Costa Rica
Tel: 800-EPSONCR
(800-3776627)
Web Address:
http://www.epson.co.cr

MEXICO
EPSON Mexico, S.A. de C.V.
Boulevard Manuel Avila
Camacho 389
Edificio 1, Conjunto Legaria
Col Irrigación, C.P. 11500
México, DF
Tel: (52 55) 1323-2052
/ (52 55) 1323-2096
/ (52 55) 1323-2127
Web Address:
http://www.epson.com.mx

ECUADOR
Epson Ecuador
Tel: 604-4220 (Guayaquil)
Tel: 04-604-4220 (otras ciudades)
Web Address:
http://www.epson.com.ec

UNITED STATES
Epson America, Inc.
3840 Kilroy Airport Way
Long Beach, CA 90806
Tel: 562-276-4394
Web Address:
http://www.epson.com

South America

ARGENTINA
EPSON Argentina SRL.
BRAZIL
Epson Do Brasil
Av. Tucunáre, 720
Tamboré Barueri,
São Paulo, SP Brazil CEP
06460-020
Tel: (55 11) 3956-6868
Web Address:
http://www.epson.com.br

CHILE
Epson Chile S.A.
La Concepción 322 Piso 3
Providencia, Santiago, Chile
Tel: (562) 484-3400
Web Address:
http://www.epson.cl

COLOMBIA
Epson Colombia Ltda.
Calle 100 No 19-54 Piso 7
Bogotá, Colombia
Tel: (57 1) 523-5000
Web Address:
http://www.epson.com.co

PERU
Epson Peru S.A.
Av. Canaval y Moreyra 590
San Isidro, Lima, 27, Perú
Tel: (51 1) 418 0210
Web Address:
http://www.epson.com.pe

VENEZUELA
Epson Venezuela S.A.
Calle 4 con Calle 11-1
Edif. Epson La Urbina Sur
Caracas, Venezuela
Tel: (58 212) 240-1111
Web Address:
http://www.epson.com.ve

Asia and Oceania

AUSTRALIA
Epson Australia Pty.Ltd
3, Talavera Road, N.Ryde NSW
2113, Australia
Tel: 1300 361 054
Web Address:
http://www.epson.com.au

CHINA
Epson (China) Co., Ltd.
Where to Get Help

7F, Jinbao Building,
No.89 Jinbao Street,
Dongcheng District,
Beijing, China
Zip code: 100005
Tel: (86-10) 85221199
FAX: (86-10) 85221123
Hotline: 400-810-9977
Web Address:
http://www.epson.com.cn

HONG KONG
Epson HONG KONG Ltd.
Unit 715-723, Trade Square,
681 Cheung Sha Wan Road,
Cheung Sha Wan, Kowloon,
HONG KONG
Support Hotline: (852) 2827 8911
Fax: (852) 2827 4383
Web Address:
http://www.epson.com.hk

INDIA
EPSON INDIA PVT. LTD.
12th Floor, The Millenia, Tower A, No. 1
Murphy Road, Ulsoor, Bangalore 560 008
India
Tel: 1800 425 0011
/1860 3000 1600
Web Address:
http://www.epson.co.in

INDONESIA
PT. EPSON INDONESIA
Wisma Kyoei Prince, 16th Floor,
Jalan Jenderal Sudirman Kav. 3,
Jakarta 10220, Indonesia
Tel: 021-5723161
Web Address:
http://www.epson.co.id

JAPAN
SEIKO EPSON CORPORATION
TOYOSHINA OFFICE
VP CS / Quality Assurance Dept.
6295 Tazawa, Toyoshina, Azumino-shi,
Nagano-ken, 390-8285
Tel: 0263-87-5814
Fax: 0263-87-5813
Web Address:
http://www.epson.jp

KOREA
EPSON KOREA CO., LTD.
11F Milim Tower, 825-22
Yeoksam-dong, Gangnam-gu,
Seoul, 135-934 Korea
Tel: 82-2-558-4270
Fax: 82-2-558-4272
Web Address:
http://www.epson.co.kr

MALAYSIA
Epson Malaysia SDN. BHD.
3rd Floor, East Tower, Wisma Consplant 1
No.2, Jalan SS 16/4,
47500 Subang Jaya, Selangor DE,
Malaysia.
Tel: 03 56 288 288
Fax: 03 5621 2088
Web Address:
http://www.epson.com.my

NEW ZEALAND
Epson New Zealand
Level 4, 245 Hobson St
Auckland 1010
New Zealand
Tel: 09 366 6855
Fax 09 366 6865
Web Address:
http://www.epson.co.nz

PHILIPPINES
EPSON PHILIPPINES CORPORATION
8th Floor, Anson’s Centre,
#23 ADB Avenue, Pasig City
1605
Philippines
Tel: 632-7062609
Web Address:
http://www.epson.com.ph

SINGAPORE
EPSON SINGAPORE PTE. LTD.
1 HarbourFront Place #03-02
HarbourFront Tower One
Singapore 098633.
Tel: 6586 3111
Fax: 6271 5088
Web Address:
http://www.epson.com.sg

TAIWAN
EPSON Taiwan
Technology & Trading Ltd.
14F, No. 7, Song Ren Road,
Taipei, Taiwan.
Tel: (02) 8786-6688
Fax: (02) 8786-6633
Web Address:
http://www.epson.com.tw

THAILAND
EPSON (Thailand) Co., Ltd.
42th Floor, Empire Tower,
195 South Sathorn Road,
Yannawa, Sathorn, Bangkok 10120,
Thailand.
Tel: 02 685 9899
Fax: 02 685 9889
Web Address:
http://www.epson.co.th
Notices
## General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>ELPDC20</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>- Open (W × D × H): 210 × 312 × 477 mm (83 × 12.3 × 18.8 inches)</td>
</tr>
<tr>
<td></td>
<td>- Folded (W × D × H): 367 × 122 × 120 mm (14.4 × 4.8 × 4.7 inches)</td>
</tr>
<tr>
<td><strong>Type of sensor</strong></td>
<td>1/2.7 inch CMOS sensor</td>
</tr>
<tr>
<td><strong>Lens</strong></td>
<td>F=3.4-5</td>
</tr>
<tr>
<td><strong>Effective pixels</strong></td>
<td>2 megapixel (1920 × 1080)</td>
</tr>
<tr>
<td><strong>Imaging area</strong></td>
<td>A3 landscape (29.7 × 41.9 cm) (11.7 × 16.5 inch)</td>
</tr>
<tr>
<td><strong>Focus adjustment</strong></td>
<td>Automatic/manual</td>
</tr>
<tr>
<td><strong>Zoom adjustment</strong></td>
<td>14x optical (at infinity), 10x digital</td>
</tr>
<tr>
<td><strong>Frame rate</strong></td>
<td>Up to 30 fps</td>
</tr>
<tr>
<td><strong>Internal memory</strong></td>
<td>1GB</td>
</tr>
<tr>
<td><strong>Internal microphone</strong></td>
<td>1 (monaural input)</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>AC adapter, ELPDC20</td>
</tr>
<tr>
<td></td>
<td>- 100-240VAC ±10%, 50/60Hz</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>Operating: 17 W</td>
</tr>
<tr>
<td></td>
<td>Standby: 0.48W</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
<td>+5 to +35°C (41 to 95°F), non-condensing</td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
<td>-10 to +60°C (14 to 140°F), non-condensing</td>
</tr>
<tr>
<td><strong>Operating humidity</strong></td>
<td>20 to 80% RH, non-condensing</td>
</tr>
<tr>
<td><strong>Storage humidity</strong></td>
<td>10 to 90% RH, non-condensing</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 3.0 kg (6.6 lb)</td>
</tr>
<tr>
<td><strong>Input port</strong></td>
<td>Computer In port, 1 Mini D-Sub15-pin (female)</td>
</tr>
<tr>
<td></td>
<td>Mic In port, 1 Stereo mini pin jack (monaural input)</td>
</tr>
</tbody>
</table>
## Specifications

| Output port          | Display Out port | 1 | Mini D-Sub15-pin (female)  
| Output: SXGA/WXGA(1280x800)/WXGA(1360x768)/XGA/Full HD |
| Composite port       | 1               | RCA pin jack  
| Output: NTSC/PAL     |
| HDMI port            | 1               | HDMI  
| Output: SDTV(480p)/HDTV(720p, 1080p) |
| Connector port       | USB-A port*     | 1 | USB connector (TypeA)  
| USB-B port*          | 1               | USB connector (TypeB)  
| Output: QVGA/VGA/SVGA/SXGA/XGA |
| SD card slot         | 1               | SD/SDHC card compatible |

* USB 2.0 is supported. However, the operation of all USB compatible devices is not guaranteed.
System Requirements

These system requirements are for using the included software:

**Windows:** Microsoft Windows 7 32/64-bit, Windows Vista 32-bit, Windows XP (Service Pack 3 or later)

**Mac OS X:** Mac OS X 10.5 to 10.7

**CPU:** Pentium 4 1.4 GHz or higher (Windows XP)/Pentium 4 2.4 GHz or higher (Windows Vista/Windows 7)/PowerPC G5 1.8 GHz processor or Intel Core processor

**Memory:** 512 MB or more

**Available hard disk space:** 300 MB or more of available hard disk space is required before installation

**Monitor:** SVGA (800 x 600) or higher resolution

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

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la class B est conforme à la norme NMB-003 du Canada.
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
Telephone: (562) 290-5254

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: Epson
Type of Product: Document camera
Model: ELPDC20
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