Epson DC-21

Epson DC-21 High-Definition Document Camera User Manual

Model: DC-21

Introduction

The Epson DC-21 High-Definition Document Camera is designed to capture and display various materials, including books, 3D objects, and experiments, with high clarity. It features HD 1080P resolution, a large imaging sensor, and HDMI connectivity. The device supports 12x optical zoom and 10x digital zoom, and includes a microscope adapter for magnified viewing. It also allows for audio and video recording with a built-in microphone and offers convenient freeze and capture functions. Lessons can be saved to an SD card or directly to a computer.



Image: The Epson DC-21 High-Definition Document Camera in its operational state, showcasing its adjustable arm and camera head.

What's in the Box

Upon unboxing your Epson DC-21 Document Camera, please verify that all components listed below are present:

- DC-21 document camera unit
- AC power adapter with power cord
- USB cable
- Application software CD

- Remote control (requires 2 AA batteries, included)
- VGA cable
- Microscope adapter
- User's Guide CD
- Quick Start guide
- Warranty card
- Soft carrying case



Image: A visual representation of all items included in the Epson DC-21 Document Camera packaging, including the camera, cables, remote, and carrying case.

Setup

1. **Unpack and Position:** Carefully remove the document camera and all accessories from the packaging. Place the camera on a stable, flat surface. The camera arm can be adjusted for optimal viewing.
2. **Connect Power:** Connect the AC power adapter to the camera's power input port and then plug it into a standard electrical outlet.

3. **Connect to Display/Computer:**
    - **HDMI Connection (for HD display):** Use an HDMI cable (not included) to connect the camera's HDMI output port to an HDMI input port on your projector, monitor, or TV.
    - **VGA Connection (for analog display):** Use the provided VGA cable to connect the camera's VGA output port to a VGA input port on your projector or monitor.
    - **USB Connection (for computer control and saving):** Connect the provided USB cable from the camera's USB port to a USB port on your computer. This connection is necessary for using the included application software and saving files directly to your computer.
4. **Install Software:** Insert the application software CD into your computer's CD/DVD drive and follow the on-screen instructions to install the necessary drivers and software. This software enhances functionality, including advanced capture options and integration with your computer.
5. **Insert Batteries into Remote:** Open the battery compartment on the remote control and insert the two AA batteries, ensuring correct polarity.
6. **Power On:** Press the power button on the document camera or the remote control to turn on the device.



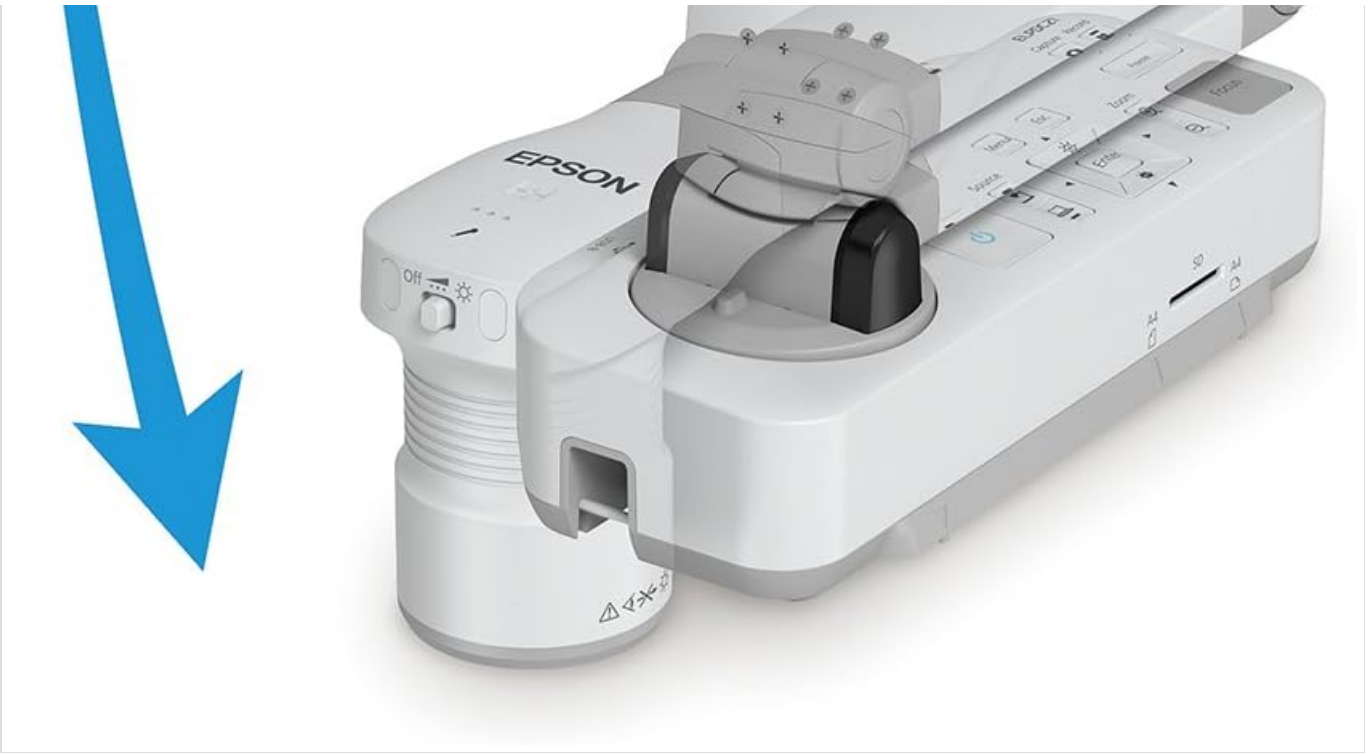


Image: A sequence showing the Epson DC-21 Document Camera transitioning from a compact, folded state to an extended, operational position, illustrating its adjustable arm.

Operating Instructions

This section details the primary functions and controls of your Epson DC-21 Document Camera.

Basic Operation

- **Power On/Off:** Use the power button on the unit or remote.
- **Adjusting the Camera Arm:** The multi-jointed arm allows for flexible positioning of the camera head over your subject. Ensure the arm is stable after adjustment.
- **Focus:** The camera features an auto-focus function. For manual adjustment, use the "Focus" buttons on the control panel or remote to achieve optimal clarity.
- **Zoom:**
  - **Optical Zoom (12x):** Use the dedicated optical zoom buttons to magnify or reduce the view without loss of image quality.
  - **Digital Zoom (10x):** Further magnify the image digitally. Note that digital zoom may introduce some pixelation at higher levels.
- **Freeze Function:** Press the "Freeze" button to pause the live image on the display, allowing you to discuss a specific frame while the physical object can be moved.
- **Capture Function:** Press the "Capture" button to take a still image of the current view. Images can be saved to an inserted SD card or directly to a connected computer via the application software.

Advanced Features

- **Video Recording:** The DC-21 can record video at 30 frames per second. Audio can be captured simultaneously using the built-in microphone. Video files are saved to an SD card or connected computer.
- **Microscope Adapter:** Attach the included microscope adapter to the camera lens to connect the document camera to a microscope eyepiece. This allows for projection of magnified microscopic images. Ensure the adapter is securely fastened and the microscope's light source is properly adjusted for clear viewing.

- **SD Card Usage:** Insert an SD card into the designated slot on the camera for direct storage of captured images and videos. Ensure the SD card is formatted correctly (refer to the User's Guide CD for details).



Image: The Epson DC-21 Document Camera positioned next to an Epson projector in a classroom, demonstrating its use for displaying objects to an audience.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your document camera.

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses to gently wipe the camera lens. Avoid using abrasive cleaners or excessive pressure, which can scratch the lens.
- **Cleaning the Body:** Wipe the exterior of the camera with a soft, dry cloth. For stubborn marks, a slightly damp cloth with mild soap can be used, followed by a dry cloth. Ensure no liquid enters the device.
- **Storage:** When not in use, fold the camera arm into its compact position and store it in the provided soft carrying case. Store the camera in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Avoid sharp bends or kinks in the power and data cables to prevent damage.

Troubleshooting

This section addresses common issues you might encounter with your Epson DC-21 Document Camera.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No image on display/projector.	Camera not powered on. Incorrect input selected on display. Loose or faulty video cable.	Ensure camera is powered on. Select the correct HDMI or VGA input on your display device. Check all cable connections; try a different cable if available.
Image is blurry or out of focus.	Auto-focus issue. Lens is dirty. Subject too close/far.	Use the manual focus buttons to adjust. Clean the camera lens as per maintenance instructions. Adjust the camera arm height or subject position.
Video quality is not 1080p.	Misunderstanding of specifications. Display device limitation.	While still images are 1080p, recorded video resolution is 720p at 30fps. This is a design specification of the DC-21. Ensure your display device supports 1080p resolution for optimal still image viewing.
Camera arm is difficult to position or does not stay.	Joints are stiff or loose.	Apply gentle, firm pressure when adjusting. If joints are excessively loose and do not hold position, contact support.
Glare on the projected image.	External light source interference. Subject material reflectivity.	Adjust room lighting or reposition the camera to minimize reflections. If the subject is glossy, try adjusting the angle of the camera or using diffuse lighting.

Specifications

Feature	Detail
Model Number	DC-21
Resolution (Still Image)	HD 1080p
Video Capture Resolution	720p (at 30fps)
Optical Zoom	12x
Digital Zoom	10x
Connectivity	HDMI, VGA, USB
Audio	Built-in microphone
Storage	SD card slot, PC via USB
Included Accessories	Microscope Adapter, Remote Control, Carrying Case, Software CD
Product Dimensions	17.3 x 8.6 x 7.2 inches
Item Weight	10.1 pounds

Feature	Detail
Color	White
Manufacturer	Epson

Warranty Information

Epson products typically come with a limited warranty covering defects in materials and workmanship. Specific warranty terms, duration, and conditions are provided with your product documentation, including the warranty card found in the box. Please refer to this document for detailed information regarding your product's warranty coverage and how to make a claim.

For additional protection, extended protection plans may be available for purchase separately. These plans are not part of the standard manufacturer's warranty.

Support

For further assistance, technical support, or to download the latest software and drivers, please visit the official Epson support website. You can typically find support resources by searching for "Epson Support" and your product model "DC-21".

Have your product's serial number ready when contacting support for faster service.

Note: No official product videos from the seller were found in the provided data.

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