

UVP PhotoDoc-It™ Imaging System

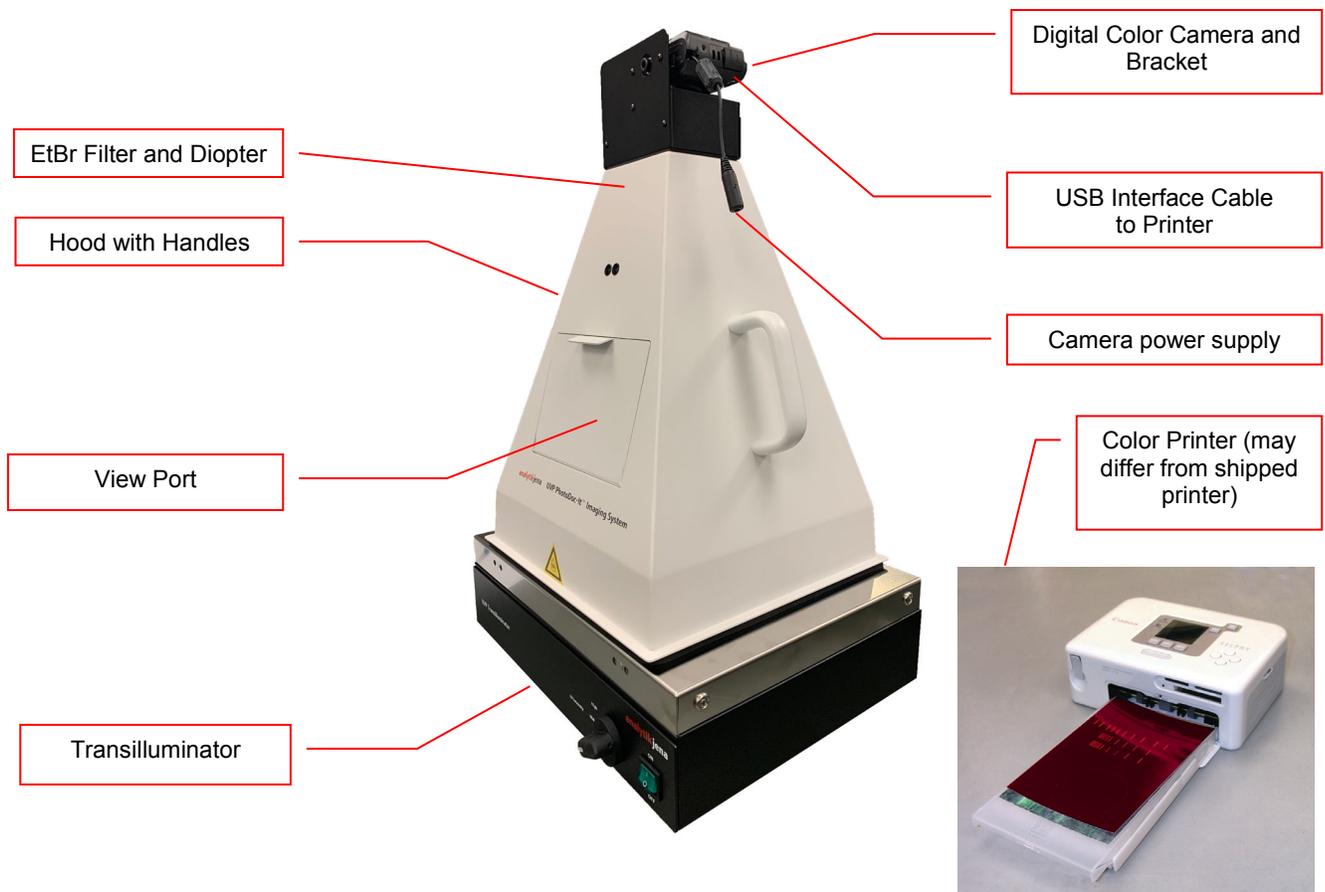


analytikjena
An Endress+Hauser Company

Components

The PhotoDoc-It Imaging System is a simple, stand-alone gel documentation system with no computer required. The PhotoDoc-It is designed to fit over a UVP Transilluminator and combines the equipment listed below. Refer to the inventory list/photo below for components.

- Hood Enclosure
- Digital Color Camera
- Ethidium Bromide (EtBr) Filter
- UV Transilluminator (optional)
- View Port
- Color Printer with paper and ink for 108 prints
- USB Interface Cable



Hood Enclosure

The PhotoDoc-It hood enclosure provides a darkroom environment to reduce ambient and reflective light when taking pictures. Two handles allow the hood to easily be moved.

Camera

The high resolution digital color camera includes a built-in optical zoom lens.

Ethidium Bromide Filter

The Ethidium Bromide (EtBr) emission filter is installed inside the hood at the Analytik Jena US factory. The filter is used to absorb UV and IR radiation from the transilluminator and to enhance the band image signal generated by ethidium bromide-stained gels. The filter can be removed when imaging non-fluorescent media (protein gels, colony plates, etc.) to produce brighter images. Additional filters are available. Contact AJ US for information.

Transilluminator

An ultraviolet transilluminator may be shipped with the system (included components can be verified according to the system packing slip). The transilluminator includes an ultraviolet blocking cover; however, the cover should be removed when the hood is used with the transilluminator.

Gel Viewer Window

The Gel Viewer Window is comprised of a UV blocking material to provide UV-safe sample viewing without removing the hood. Opening the Gel Viewer Window allows users to view the actual gel without exposure to UV and without having to turn off the UV transilluminator.

Color Printer

Print 4x6" lab quality color prints on the compact color printer supplied with the system. A supply of 108 sheets is included with the printer. (Note: Printer received may look different than printer pictured in this manual)

System Set-Up

The PhotoDoc-It System is designed to be simple to both set up and use. System components include:

- Hood Enclosure
- Digital Color Camera
- Ethidium Bromide Filter
- Transilluminator
- Color Printer
- USB Interface Cable

CAUTION: Do not install the system in places with high moisture, dust or high temperature. Do not use any oil or petroleum-based cleaners on the cabinet. Use only a mild soap or detergent solution for cleaning. Ensure that the system is unplugged during cleaning.

NOTE: Keep the equipment away from motors or other large magnetic equipment.

Placing the Hood on the Transilluminator

The hood enclosure is used with a Benchtop UV transilluminator. Additional instructions for the transilluminator are supplied in a separate manual.

CAUTION: All UVP transilluminators are powerful sources of UV radiation that can cause damage to unprotected eyes and skin. Before operating any unit, be sure all personnel in the area are properly protected, including wearing UV-blocking eyewear. Refer to Replacement Parts/Accessories for UV-blocking eyewear ordering information.

1. Remove the UV blocking clear cover from the transilluminator if it has been previously assembled. (The UV blocking cover is recommended for use when operating the transilluminator without the hood enclosure installed.)
2. Connect the power cord to the back of the transilluminator and to a power source. The transilluminator switch is on the front of the unit.
3. Place the PhotoDoc-It hood on top of the transilluminator.



PhotoDoc-It with Color Printer
(See cover image for updated product color)

Ethidium Bromide Filter Removal/Installation

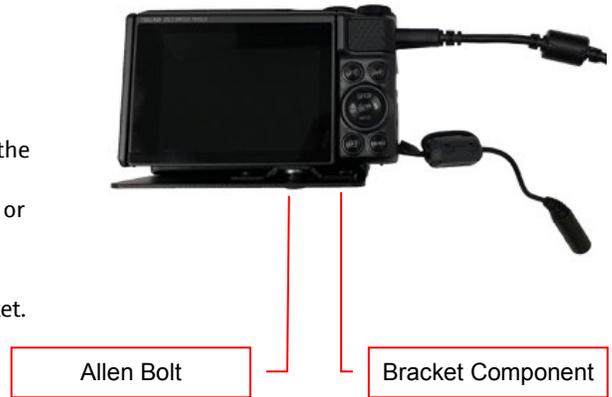
The Ethidium Bromide filter is installed inside the hood enclosure at the Analytik Jena US factory. Installation or removal should not be required during normal use. However, to remove or replace the filter, turn the hood upside down, loosen the thumbscrews and remove the filter tray. To install, insert the filter into the tray, install the tray, tighten the thumbscrews and place the hood in the upright position. If the filter comes with an arrow printed on the side, the arrow should point towards the camera.

Camera Setup

The PhotoDoc-It camera comes installed from the factory in its bracket and attached to the system's darkroom hood enclosure.

1. Plug the camera's pre-installed power supply into a wall outlet or surge protector.
2. Plug the supplied USB interface cable into the camera and the printer. This cable includes a controller (**Printer Controller Switch**) for switching the camera-to-printer connection on or off.

Should the camera need to be removed, use the provided Allen wrench to unscrew the black Allen bolt on the front of the bracket.



PhotoDoc-It Camera and Bracket

Camera Buttons

1. Power On/Off Button
2. Camera Shutter Button
3. Camera Mode Settings Dial (should be set to auto)
4. Function Set Button (center) and Navigation Selector
5. Menu Button
6. Playback Button
7. Zoom Toggle



Printer Installation

1. **Install the ink cartridge:** Open the panel on the right side of the printer. Insert the ink cassette into the printer until it clicks firmly into place. Close the cover.
2. **Insert the paper cassette:** Open the panel on the front of the printer. Slide the lid off of the paper cassette. Place paper in the cassette with the shiny side up. Try not to touch the shiny side of the paper. Close the lid. A portion of the paper should be seen through the opening. Insert the cassette into the slot on the printer.
3. Attach the **power cord** to the printer and plug into a wall outlet or surge protector.
4. Attach the **USB interface cable** under the terminal cover on the side of the camera to the USB port on the left side of the printer.

System Operation

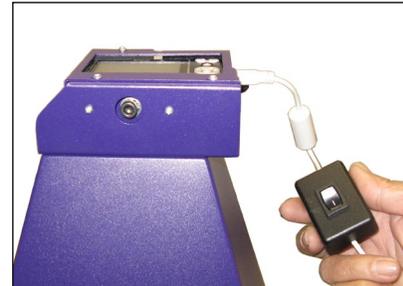
Ensure Correct Camera Settings

The following camera settings are preset at the Analytik Jena US factory before the system is shipped. Check to ensure that these camera settings are preset correctly. Ensure camera mode is set to "Auto".

1. Press the **Power On/Off Button (1)** to turn the camera on.
2. Press the **Menu Button (5)** and ensure that the "Flash Setting" is **off**. Press the **Menu Button (5)** again to return to the main menu.
3. Press the **Power On/Off Button (1)** again to turn the camera off.

Preparing to Capture an Image

1. Turn the UV transilluminator **OFF**.
2. Remove the hood from the top of the transilluminator.
3. Place the sample to be imaged in the center of the filter glass.
4. Place the hood on top of the transilluminator.
5. Turn the transilluminator **ON**.



Printer Controller Switch
(See cover image for updated product color)

Capturing an Image

1. Press the **Power On/Off Button (1)** to turn the camera on.
NOTE: Prior to taking a picture, ensure that the Printer Controller Switch is set to **O** (off).
2. Ensure that the flash is deactivated prior to taking pictures (see "Ensure Correct Camera Settings" above for instructions on deactivating the flash).
3. Use the **Zoom Toggle (7)** to zoom in and out to obtain the appropriate image size.
4. Press and hold the **Camera Shutter Button (2)** halfway down to focus. When the camera finishes focusing, it will beep. One or more green AF frames will appear where the subject is in focus.
5. Capture the image by fully pressing the **Camera Shutter Button (2)**.

Printing an Image

1. Make sure the printer is plugged in. (**Note:** The supplied printer may look different than the printer shown.)
2. Set the Printer Controller Switch, shown above, to the (On) position.
3. Press the **Printer On Button**.
4. Make sure the printer is connected to the camera.
5. On the camera, press the **Playback Button (6)** to turn on the image preview. Use the left and right buttons on the camera's **Navigation Selector (4)** to scroll through the camera's saved images. Press playback button again to return to camera capture.
6. Once the desired image has been found, press the **Function Set Button (4)**.
7. Press the **Function Set Button (4)** again to print.



For additional printer instructions, refer to the Canon printer manual.

Downloading Images to a PC

To connect the PhotoDoc-It to a PC:

1. Turn off the UV transilluminator.
2. Disconnect the USB interface cable from the printer.
3. Connect the USB interface cable between the camera and the PC.
4. Set the USB interface cable's Printer Controller Switch to **I** (on).
5. In Windows Explorer, click on **Canon Camera**. From here, images may be opened, copied, deleted or printed as desired.



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.