Biolmaging

UVP UVsolo *touch*

Simplified Gel Documentation

analytikjena
An Endress+Hauser Company

UVP UVsolo *touch*

The UVP UVsolo touch is a compact, easy-to-use, stand-alone system for gel documentation. It is designed to acquire gel images easily and without any need for training. Thus it is ideal for multi-user laboratories and practical trainings.

Gel documentation, or the gel imaging process, involves recording and measuring labeled nucleic acid and protein in various types of media such as agarose or acrylamide.

The UVP UVsolo *touch* streamlines this process with live view, all exposure time, zoom and aperture setting changes displayed in real-time on the 11.6 inch screen. Saturation monitoring allows for easy capture of fully quantifiable images. The UVP UVsolo *touch* system includes a light-sensitive monochrome camera with a high resolution of 5 megapixels. A highly sensitive zoom lens allows for high-contrast image acquisition. The system is controlled by a touch screen with intuitive image acquisition software.

UVP UVsolo *touch*

Streamlined Gel Documentation

All-in-one design for streamlined gel documentation

- High resolution 5.0 MP camera
- Lens is easily accessible for adjustment of aperture, zoom and focus
- Filter tray with Ethidium Bromide filter; additional filters are available
- Large 11.6" touch screen with user-friendly software optimizes image capture
- Easy access data storage for saving images on the USB drive, to the system or network computer
- Unique viewing window allows UV-safe viewing of gels without opening the door
- Wide front door; safety switch turns the UV light off when the door is open
- Side access doors for gel repositioning and cutting while viewing the gel on the screen
- Compact design maximizes laboratory bench space
- Choice of UV Transilluminator – single, dual or triple wavelength UV Transilluminator models

Integrated Capture Software with Touch Screen Simplicity

The system is controlled by a touch screen with intuitive image acquisition software.

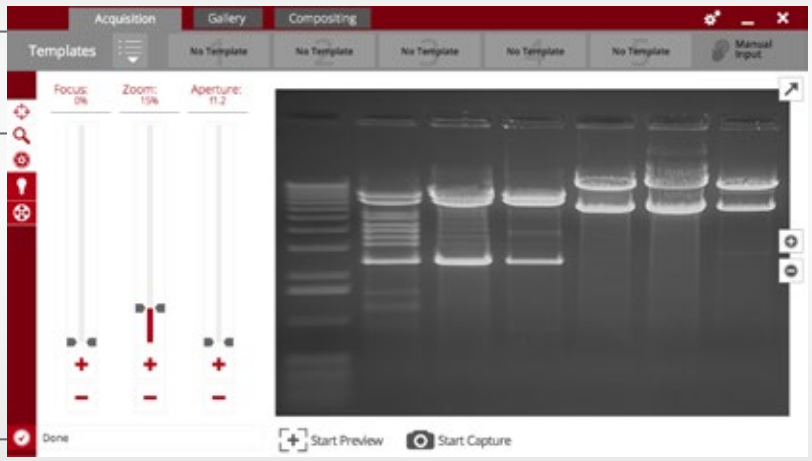
With Live View, all exposure time, zoom and aperture setting changes are displayed in real-time on the 11.6 inch screen. Saturation monitoring allows for easy capture of fully quantifiable images. Gel images are saved as TIF or JPG on a USB storage device, the internal computer memory or on a network computer via wireless LAN or ethernet connection using a USB-to-Ethernet adapter. For prints, a printer with USB interface can be connected to the UVP UVsolo *touch*.

Preview, capture and save gel images with easy access controls:
Acquisition tab enables ease of access to fine tune auto and manual image capture modes, histogram and saturation. Exposure can be adjusted with customizable exposure times. Save images in multiple formats including TIFF and JPEG formats.

Templates with defined settings automate routine, repeat experiments

Manual capture mode designed for fine tuning image capture settings

Preview, capture and save gel images with easy access controls



Select language preference options: Choose from English (standard), Chinese (simplified), Turkish, Japanese, Spanish, Korean, Russian, Portuguese and German

Optimized Gel Documentation and Analysis

The main application of the UVP UVsolo *touch* is saving and printing gel images. VisionWorks® software allows for gel analysis.

After installing the optional VisionWorks® analysis software on a separate personal computer, users of the UVP UVsolo *touch* can import gel images and conduct calculation of fragment sizes or quantify sample material in a few simple steps.

Documentation of colored gels

The image acquisition of non-fluorescent gels (e.g. silver or Coomassie Blue stained polyacrylamide gels) can be accomplished with the optional Visi-White converter plate. Such plates are directly placed on top of the UV transilluminator. The plate converts the UV light to visible light, similar to the light of a white light table.

Transilluminators

Seven different UV Transilluminator options are available based on filter size and UV wavelength (Filter sizes: 20 x 20 cm, 21 x 26 cm or 25 x 26 cm; Wavelength: 1UV 302 nm, 2UV 302/365 nm or 3UV 254/302/365 nm, 100-115 V/ 60 Hz or 230 V/50 Hz).

UVP UV transilluminator

Converter plates

For blue light excitation of fluorescent dyes, a UV-to-blue converter plate can be used. In addition, a UV to long-wave UV plate is available for less risk of damage excising nucleic acid fragments from gels.

Visi-Blue and Visi-White Converter Plates

Maximum UV Protection for Users

We keep safety in mind, ensuring safe operation for all users.

Opening the front door automatically switches off the UV light. A UV-safe gel viewing window in the front door allows a direct and safe view to the fluorescent gel under UV illumination for visual control. For cutting gels under UV illumination, two side-access doors are included. For cutting fragments from a gel with the main door is opened, a UV override switch allows to deactivate the safety switch-off. Closing the door automatically re-activates the UV protection switch. This ensures safe operation for subsequent users.

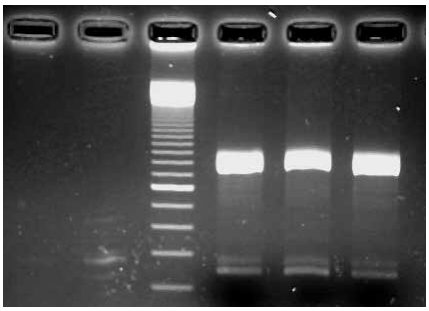
Easy exchange of emission filters:
For use of different fluorescent dyes, the emission filter positioned inside the filter tray can easily be exchanged manually.

Technical Data

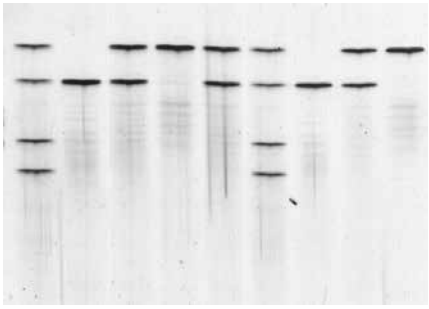
Specifications/features	UVP UVsolo *touch*
Camera/Lens	GelCam 315, 5.0 MP, with 8-48mm, f/1.2 manual zoom lens
Darkroom features	▪ 11.6" large articulating touch screen ▪ Wide front door with UV safety switch ▪ Gel viewer window ▪ Epi white light ▪ Side access doors ▪ USB ports ▪ Emission filter tray
Accessories included	▪ Ethidium bromide filter ▪ Choice of transilluminator (Filter sizes: 20 x 20 cm, 21 x 26 cm or 25 x 26 cm; Wavelength: 1 UV 302 nm, 2UV 302/365 nm or 3 UV 254/302/365 nm, 100-115 V/60 Hz or 230 V/50 Hz)
Dimensions: H x W x D	780 x 361 x 338 mm (30.7 x 14.2 x 13.3 inch)
Wireless network capability	Wireless network capable, Wi-Fi, accessory for wired-to-ethernet connection available

Applications

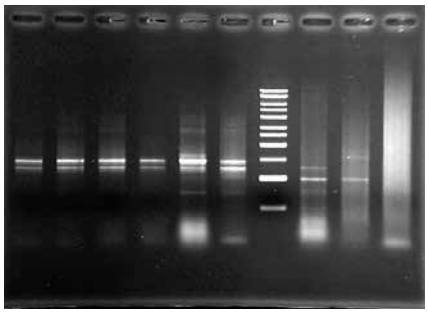
- Fluorescent DNA gels
- Fluorescent protein gels
- Colorimetric protein gels



Ethidium bromide stained agarose gel (UV light)



Silver stained polyacrylamide gel (white light)



Ethidium bromide stained agarose gel (UV light)

Order Information

Order number		Description	
230 V	**115 V**	**UVP UVsolo *touch***	**Transillumimnator**
849-00502-2	849-00502-4	UVP UVsolo *touch*, M-20V	20 x 20 cm, 302 nm
849-97-0762-02	849-97-0762-01	UVP UVsolo *touch*, M-26V	21 x 26 cm, 302 nm
849-00503-2	849-00503-4	UVP UVsolo *touch*, M-26XV	25 x 26 cm, 302 nm
849-97-0761-02	849-97-0761-01	UVP UVsolo *touch*, LM-20	20 x 20 cm, 302/365 nm
849-97-0763-02	849-97-0763-01	UVP UVsolo *touch*, LM-26	21 x 26 cm, 302/365 nm
849-97-0764-02	849-97-0764-01	UVP UVsolo *touch*, LMS-20	20 x 20 cm, 254/302/365 nm
849-97-0765-02	849-97-0765-01	UVP UVsolo *touch*, LMS-26	21 x 26 cm, 254/302/365 nm
		Accessories	
849-00401-0		Emission filter, 50 mm square, with transmission range 510 - 560 nm, for e.g. SYBR® Green stains	
849-00402-0		Emission filter, 50 mm square, with transmission range 520 - 620 nm for e.g. SYBR® Gold stains	
849-20510-0		UVP Visi-White™ Converter plate, UV-to-white, 21 cm x 26 cm filter size	
849-20511-0		UVP Visi-White™ Converter plate, UV-to-white, 25 cm x 26 cm filter size	
849-20520-0		UVP Visi-Blue™ Converter plate, UV-to-blue, 21 cm x 26 cm filter size, 460 nm - 470 nm	
849-20521-0		UVP Visi-Blue™ Converter plate, UV-to-blue, 25 cm x 26 cm filter size, 460 nm - 470 nm	
		Software	
849-00202-0		VisionWorks® analysis software for gel images in TIF, JPG, BMP, GIF or PNG format.	

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Pictures: Analytik Jena US
Subject to changes in design and scope of delivery as well as further technical development.

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