



Bio-Rad GelDoc GO imaging system

Purchased in 2021 by the Department of Microbiology and Immunology



For detailed operating instruction, download the user manual with QR code or by going to Bio-Rad.com

Work flow

1. Power on
2. Sign in
3. Place gel or blot on the TRAY
4. Pull out drawer and center TRAY, push in DRAWER
5. Select image size
6. Select the application
7. Select exposure time
8. Capture image
9. Export image
10. Sign out
11. Power off
12. Clean
13. Complete survey (accessed by QR code)

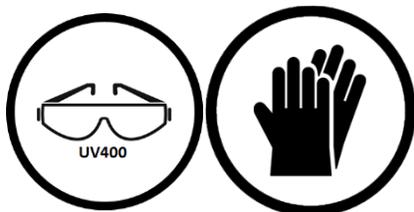
Warnings

Warning: Transilluminators are powerful sources of UV radiation, which can cause serious damage to unprotected eyes and skin. The accessory UV Shield (#12012164) provides some UV protection. However, the shield does not protect others standing in the area around the imager. In this configuration, the system is rated as Risk Group 3 (most hazardous) for actinic UV (200–400 nm) per IEC 62471:2009 “Photobiological safety of lamps and lamp systems.” When viewing around the UV shield at a distance of 20 cm, the measured actinic UV emission is approximately 4 W/m², with a permissible exposure time of about 7 seconds.



PPE

Gloves, safety glasses (UV rated)



Applications

Fluorescence	Yes	UV Tray
Chemiluminescence	No	
Colorimetry	Yes*	White Tray (Not available) Contact Department office for details

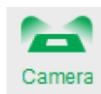
Login

Press the system on/off button to turn on the machine. From the main screen select your user name. If this is your first time, setup a new user account.

Setup new user

Enter a user name following this format <**First initial_ last name_Lab name**> Ex. <D_Watson_Heinrichs> and select create. Accounts not following this format will be deleted during maintenance.

Acquisition (P. 59)



While in CAMERA VIEW, place your sample on the TRAY. There are centering templates that can be used to center your gel or blot if it conforms to standard sizes. Once your gel or blot is on the TRAY, pull out the sample DRAWER, place the TRAY on the DRAWER, and close the DRAWER.

Image size

Select your image size or create a custom area. Pre-set options include: small: 10.5 x 7cm, medium: 15.5 x 10.3cm, large: 21 x 14cm.

Application (P.53)

Choose an application category: nucleic acid gels, protein gels, or blots. Then pick a sub-category. Each sub-category has an icon displaying the recommended TRAY.

Icon	Sample Tray Name	Applications for the UV/Stain-Free Tray	
	UV/Stain-Free tray	<input type="checkbox"/> Colorimetric Blot	<input type="checkbox"/> Coomassie Fluor Orange
	White Tray	<input type="checkbox"/> Ethidium Bromide	<input type="checkbox"/> GelGreen
	Blue Tray	<input type="checkbox"/> GelRed	<input type="checkbox"/> Oriole
		<input type="checkbox"/> Ponceau S	<input type="checkbox"/> Stain-Free blot
		<input type="checkbox"/> Stain-Free gel	<input type="checkbox"/> SYBR® Gold
		<input type="checkbox"/> SYBR® Green	<input type="checkbox"/> SYBR® Safe
		<input type="checkbox"/> SYPRO Ruby	<input type="checkbox"/> SYPRO Ruby Blot
		<input type="checkbox"/> UView	

Exposure settings (P.67)

It is recommended to first use auto exposure settings. Advanced exposure settings are found in the Bio-Rad manual.

Excising bands (P.77)

WARNING: Sharp cutting tools can easily damage the surface of the TRAY. Use a chopping motion rather than a sawing motion.

WARNING: Improper use of the instrument, guards, and PPE during this procedure can cause damage to skin and eyes.

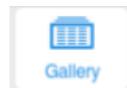
Read the full Bio-Rad documentation for the correct procedure.

View, merge, and modify images (P.81)

Please refer to the Bio-Rad manual for instructions.

Exporting files (P.105)

Images can be exported to a USB drive. While in GALLERY



view, select one or more images for export.



Tap Send/Save on the bottom toolbar and the network and export settings menu will open. You can select the destination folder and the image formats you would like to export. Press Send/Save to complete the export.

Log out and cleaning (P.135)

Log out of the machine by tapping the LOG OUT icon on the top right menu and then shut off the machine by pressing the power button if no one is waiting to use it.

Cleaning all surfaces that are in contact with gels or blots is imperative to keeping this machine in working order. Salts, stains, and chemicals that are left on surfaces can damage the working surfaces and severely shorten the operating life of this device. Chemicals left on the outer surfaces can pose a danger to other users. **Support your community and clean up after each use.**

Clean the tray, UV shield (if used) and illuminator with a non-abrasive wipe and 70% alcohol. If Comassie was used, continue cleaning until no color is visible coming on to the cleaning wipe. Paper towel and water can be used to clean the outer surface of the machine.

Available Supplies

1 box of non-abrasive wipes, 1 bottle of 70% isopropyl alcohol, 1 bottle of water, 1 roll of paper towel.

Contacts

Basic support

David Watson: dwatso25@uwo.ca

Advanced support

Bio-Rad technical support: 1-800-268-0213

New account help, problems, maintenance issues, supply issues

Brad Shrum: bshrum2@uwo.ca



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Please take this 30 second survey and let us know how we are doing.



<https://forms.gle/9NvVzxNFJuBMo65V7>