

ChemiDoc™ and ChemiDoc MP Imaging Systems

Safety and Regulatory Compliance

Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case users will be required to correct the interference at their own expense.

Important Safety Information

Please read these instructions before operating the ChemiDoc MP or ChemiDoc Imager.

These instruments are suitable for research use only. Therefore, they must be used only by specialized personnel who know the health risks associated with the reagents that are normally used with these instruments.



Warning: The imaging of some applications involves ultraviolet (UV) illumination. These instruments should be used only by trained personnel who know the health risks associated with the UV radiation normally associated with these instruments. Users should be trained on the appropriate personal protective equipment (PPE) for working with UV light to minimize UV exposure.

To perform band excision using the blot/UV/stain-free tray, the transilluminator drawer is pulled out with the UV source enabled. This exposes the user to UV radiation, which can cause permanent damage to the eyes and skin. In its lowered position, the instrument's acrylic shield provides some UV protection. However, in its raised position, it does not provide complete protection to the user, and it does not protect others who are standing in the area around the imager.

To protect users and bystanders, these procedures must be followed:

- Protect all skin surfaces (including the neck, ears, and hands). Before performing band excision, the user and anyone near the imager must put on personal protective equipment, including UV protective safety glasses, a face shield, lab coat, and gloves. A typical and reasonable expectation of use is 3 operations per user per day for 3 minutes each
- Bystanders without protective gear must stand at least 1.5 meters (5 feet) away from the imager and limit their exposure to no more than 1 hour per day

Note: There is no exposure to UV radiation with the blue or white trays. No protective gear is necessary when excising bands with these trays.

BIO-RAD

Warranty

These imaging systems are warranted against defects in materials and workmanship for 1 year. If any defect occurs in these instruments during this warranty period, Bio-Rad Laboratories, Inc. will repair or replace the defective parts at its discretion without charge. The following defects, however, are specifically excluded:

- Defects caused by improper operation
- Repair or modification done by anyone other than Bio-Rad Laboratories, Inc. or the company's authorized agent
- Use of spare parts supplied by anyone other than Bio-Rad Laboratories, Inc.
- Damage caused by accident or misuse
- Damage caused by disaster
- Corrosion caused by improper solvents or samples


General Precautions

- Read the user guide carefully
- Use the instrument only for the intended purpose of gel and blot image acquisition in research laboratories
- Connect the instrument to a grounded power source and to a circuit breaker
- Do not pour liquids on or inside the instrument
- Clean the sample tray after use

Regulatory Notices

The ChemiDoc MP and ChemiDoc Imaging Systems are designed and certified to meet EN 61010, the internationally accepted electrical safety standard, EMC regulations, and TUV requirements. Certified products are safe to use when operated in accordance with this safety guide. Do not modify or alter this instrument in any way. Modification or alteration of this instrument will





- Void the manufacturer's warranty
- Void the regulatory certifications
- Create a potential safety hazard

 **Caution:** Bio-Rad Laboratories, Inc. is not responsible for any injury or damage caused by use of these instruments for purposes other than those for which they are intended or by modifications of an instrument not performed by Bio-Rad Laboratories, Inc., or an authorized agent.

Alert Icons

Alert icons call attention to caution and warning paragraphs in this document. The icon indicates the type of hazard addressed (see Table 1).

Table 1. How alert icons are used.

Icon	Explanation
	General Indicates a potential hazard requiring special attention. This icon is used when the hazard or condition is of a general nature.
	Electrical Hazard Indicates a potential hazard requiring special attention when you are working with electricity or electrical equipment.
	Extreme Heat and Flammable Materials Indicates a potential hazard requiring special attention when you are working with extreme heat and flammable materials.
	Radiation Hazard Indicates a potential hazard requiring special attention when you are working with UV radiation.


Levels of Potential Risk

Each alert icon appears in a paragraph type in the user guide that indicates the level of potential risk posed by the hazard or action described.

Cautions

A caution alerts you to take or avoid a specific action that could result in loss of data or damage to the instrument. A caution can also indicate that, if the precaution against a potential hazard is not taken, minor or moderate injury might occur.

Example

 **Caution:** With the exception of cleaning or replacing light bulbs, refer all servicing to qualified Bio-Rad personnel or their agents.

Warnings

A warning precedes instructions for an action that, if not followed correctly, could cause serious injury or death to the operator, serious or total loss of data, or serious damage to the instrument.




Example

 **WARNING!** Keep the UV shield open for as little time as possible.

Instrument Safety Warnings

Before you operate the instrument, carefully read the contents of Table 2.

Table 2. Safety cautions and warnings for the instrument.

Icon	Explanation
	Caution: With the exception of cleaning or replacing light bulbs, refer all servicing to qualified Bio-Rad personnel or their agents. If you experience technical difficulties with the instrument, contact Bio-Rad to schedule service. The instrument should not be modified or altered in any way. Alteration voids the manufacturer's warranty and might create a potential safety hazard for the user.
	WARNING! If the tray interlock is defeated, there is a possibility of UV-B radiation hazard due to UV-B light exposure. Exercise caution when servicing the instrument.
	WARNING! This instrument must be connected to an appropriate AC voltage outlet that is properly grounded.

Notice

The ChemiDoc MP and ChemiDoc Imaging Systems are intended for laboratory use only. These devices are meant for use by specialized personnel who know the health risks associated with reagents used in electrophoresis. The UV light source is computer controlled, and proper interlocks are implemented to avoid users' accidental exposure to UV radiation. Bio-Rad Laboratories, Inc. is not responsible for any injury or damage caused by use of these instruments for purposes other than those for which they are intended, or for instrument modifications not performed by Bio-Rad Laboratories, Inc. or an authorized agent.

Power Safety Information

Voltage Setting Information

The ChemiDoc and ChemiDoc MP Imaging Systems have a universal power supply that automatically chooses the correct voltage for your country or region.

Fuses

The imaging systems have two user-serviceable fuses, F1 and F2, which are located on the rear panel and are a part of the power entry module. See Replacing the Fuses on page 171 of the instrument user guide. The user guide can be accessed by tapping the help "?" icon in the main toolbar when logged in as a user.



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