

Getting Started with the ChemiDoc™ Pro Imaging System

Set Up the Environment

The ChemiDoc Pro Imaging System with Image Lab Touch Software requires a space of 45 x 62.5 x 45 cm (W x D x H) and a clearance of at least 15.5 cm from each side for ventilating the instrument and accessing the AC power cord. The imager should be placed on a sturdy, level laboratory bench or table away from excessive heat and moisture. The imager's operating temperature range is 10–28°C. The imager contains a universal power supply supporting a voltage range of 100–240 VAC.

The imaging system arrives boxed and strapped to a shipping pallet. As you unpack the imaging system, set aside the packing materials and store them. They will be useful if the imaging system must be relocated.

Remove the Imager from the Box

- 1 Position the box next to the table or bench where you plan to place the imager.
- 2 Remove the outer walls of the cardboard box and cut and remove the straps surrounding the pallet, imager, and accessory box.
- 3 Remove the accessory box.



- 4 Remove the packing foam from the top of the imager.



- 5 Remove the foam wedge in front of the imager (not shown in images).
- 6 Remove the plastic bag covering the imager (not shown in images).

Remove the Imager from the Pallet

Warning: Two people are required to lift the imager.

- 1 Have one person stand at the front of the imager and the other person stand at the back.
- 2 Each person should place both hands under the side of the imager at the central handrail.



- 3 Lift the imager straight up and place it on a level laboratory bench or table.

Remove the Thumb Screws and Shipping Brackets Inside the Imager

Caution: Do not turn on the imager while the thumb screws and shipping brackets are in place.

- 1 Remove the orange labels and open the transilluminator door.

Caution: The system's optics are inside. Do not touch the mirror or camera.

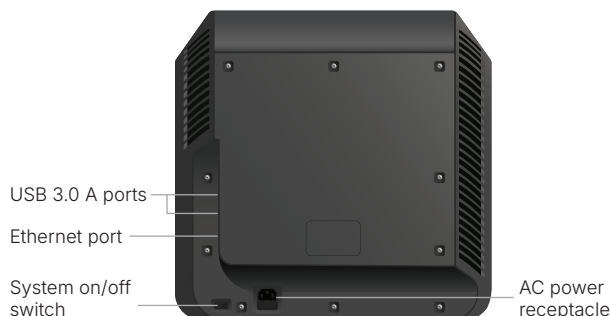
- 2 Remove the foam insert on the tray. Using the orange strings as a guide, locate and carefully unscrew the thumb screws from the shipping brackets.
- 3 Remove the shipping brackets from each side of the transilluminator drawer.



Set Up the Imager

The imager ships with a power cable for AC 115/240 VAC outlets. The female end of the cable fits in the power receptacle located at the back of the imager.

- 1 Locate the AC power receptacle on the back of the imager and connect the power cable to it. Plug the other end of the power cable into an AC outlet and turn the system **on/off** switch to the **on** position.



- 2 For network access, connect an Ethernet LAN network cable to the Ethernet port on the back of the imager. Connect the other end of the cable to an Ethernet network port.

Alternatively, the ChemiDoc Pro Imaging System can be connected to a network via WiFi. Insert a supported WiFi dongle into a USB 3.0 A port on the back of the instrument. See the ChemiDoc Pro Imaging System User Guide for further information on connecting via WiFi.

Note: When saving an image, specify the path to the network folder where you want to save your image files. Multiple path names can be saved. Each saved path name appears in the dropdown list of destinations upon tapping **Save to Network**.

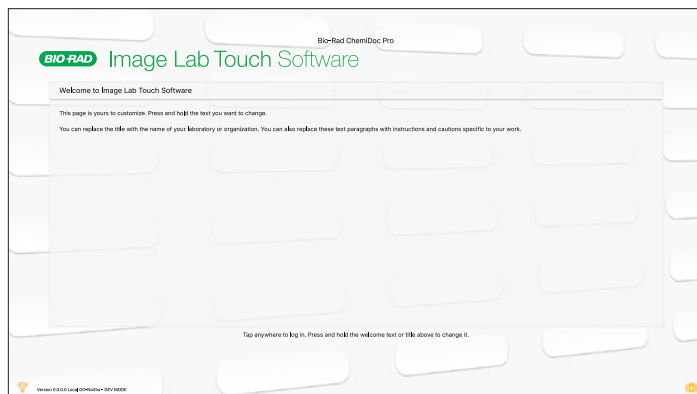
For BR.io cloud platform access, setup will be available after starting up and logging in to the imager for the first time.

- 3 On the front of the imager, tap the system **on/off** button to turn on the imager. Turning on the imager initializes the camera, computer, and Image Lab Touch Software.



First-Time Login

When the imaging system is turned on, Image Lab Touch Software initializes and the Welcome screen appears.



- 1 Tap anywhere on the touch screen.
- 2 Using the onscreen keyboard, tap in a user name and then tap **Create**. The system prompts you to choose whether to be an administrator and displays information to help you decide.
Note: An administrator must log in with a password. If no administrator has been specified, users can log in without a password.
- 3 If you do not want to be an administrator, tap **No**.
- 4 To become an administrator, tap **Yes** and create a password in the box that appears. When the Administrator Options dialog box appears, select the desired options for managing Image Lab Touch user accounts.
Note: When assigning administrators to the system, it is recommended to have two admin accounts per system.
- 5 After choosing your options, tap **Close**. The camera view of the imaging stage appears.

Set Up and Connect the BR.io Platform

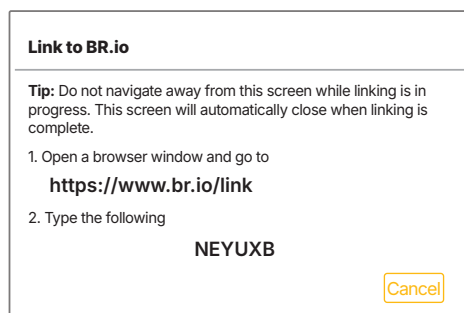
The BR.io cloud platform is a Bio-Rad solution for cloud data management. The BR.io platform can be accessed from a web browser; no software installation is necessary.

- 1 To set up a new BR.io account or access an existing account, type **BR.io** in the web address bar on a computer or other device with internet access.
- 2 Log in or create a new account.
- 3 Set up your dashboard.

Linking the ChemiDoc Pro System to a BR.io Account

Note: Before linking the ChemiDoc Pro instrument to a BR.io account, you must have a user password for the ChemiDoc Pro System.

- 1 Tap **User Settings** in the main toolbar.
- 2 Tap **BR.io Account**.
- 3 Tap **Link** to link the account. The ChemiDoc Pro touch screen displays a message while it retrieves an authentication code. Once retrieved, the Link to BR.io dialog box appears, as shown in the example below.



- 4 Follow the on-screen procedures.
- 5 When the ChemiDoc Pro successfully links to the BR.io platform, the BR.io icon appears enabled on the menu bar.



In the BR.io platform, the Instrument Manager displays the connected instrument.

See the ChemiDoc Pro Imaging System User Guide for more information.

Check the Imager Setup

Check to ensure the following:

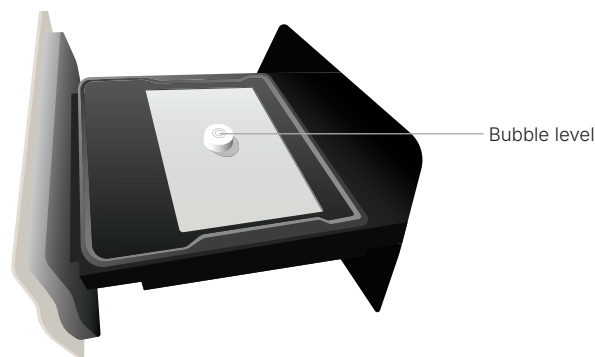
- The imager has been placed on a laboratory workbench surrounded by the required amount of space
- The system **on/off** switch (back) and the system **on/off** button (front) are turned on
- The camera view is visible

Level the Imager

To work properly and ensure the best imaging, the imager must be situated on a level surface, such as a laboratory bench or table. Level placement prevents samples—especially gel samples—from sliding on the sample tray.

To check whether the imager is level:

- 1 Locate the bubble level in the Imager Accessory Kit.
- 2 Power on the instrument.
- 3 On the Welcome Screen, tap the **suitcase icon**.
- 4 Tap **Level the Imager**.
- 5 Pull the transilluminator handle door to open.
- 6 Place a sample imaging tray on the imaging stage.



- 7 Place the bubble level at the approximate center of the sample tray.
- 8 Close the drawer.
- 9 Tap the green **Level the Imager** button. The image of the bubble appears on the screen.
 - If the entire bubble is visible inside the level's inner ring, the imager is level; no adjustments are necessary
 - If the entire bubble is not visible inside the level's center ring, raise or lower the instrument's feet to level it
- 10 Adjust the level by lifting the instrument and rotating the feet as applicable to move the bubble to the center.
 - To raise the instrument, rotate the feet outward
 - To lower the instrument, rotate the feet inward
 - Adjust each foot until the bubble appears in the center of the inner ring
- 11 When the entire bubble is visible inside the inner ring, tap the blue **Level the Imager** button and remove the level from the sample tray.
- 12 Tap outside the leveling box to return to the Welcome Screen.

Set Up the Printer

The ChemiDoc Pro Imaging System supports the Sony UP-X898MD Printer (sold separately).

To set up the printer:

- 1 Connect the printer's power cord to an electrical outlet.
- 2 Connect one end of the supplied USB cable to the USB port on the back of the printer.
- 3 Connect the other end of the USB cable to one of the USB ports on the back of the imager.

Warning: Transilluminators are powerful sources of UV radiation, which can cause serious damage to unprotected eyes and skin. The accessory UV Shield for the GelDoc™ Go Gel Imaging System (catalog #12012164) can be used with the ChemiDoc Pro Imaging System and provides some UV protection for the person standing directly in front of the system but does not protect others standing nearby. With the UV shield in place, the system is rated as Risk Group 3 (most hazardous) for actinic UV (200–400 nm) per IEC standard 62471:2009 "Photobiological safety of lamps and lamp systems."

When performing band excision, the user and other lab personnel in proximity to the imager must use protective gear including UV-protective safety glasses, a face shield, a lab coat, and gloves to ensure that no skin is exposed.

When excising bands while viewing through the UV shield, a typical and reasonable expectation of use is three operations per day per user for 3 min each.

When near the UV transilluminator at a viewing angle not protected by the UV shield at a distance of 20 cm, the measured actinic UV emission is up to 10 W/m², with a permissible exposure time of approximately 3 sec. Bystanders without protective gear must stand at least 1.5 m from the imager and limit their exposure to no more than 1 hr per day.

Image Analysis Software

Images acquired on the ChemiDoc Pro Imaging System can be imported into Image Lab Software and Image Lab Software, Security Edition or exported to the BR.io platform for image analysis.

Visit bio-rad.com/ImageLab for licenses and upgrades for Image Lab Software (available for Windows and Mac operating systems). Registered users can log in to their account or register as new users to download a free copy of Image Lab Software from the Bio-Rad website. Image Lab Software and Image Lab Software, Security Edition are also available for purchase on a USB drive. Visit bio-rad.com/ImageLab to learn more about the Image Lab family of software.

Find Out More

Visit bio-rad.com/ChemiDocPro to learn more about the instrument and to download the full version of the user guide.

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The ChemiDoc Pro Imaging System uses the Linux operating system, which contains software licensed under the following licenses as well as others:

Lesser Gnu Public License v 2.0, 2.1, 3.0
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BSD License

Image Lab Touch software is based in part on the work of the Cimg project (<http://cimg.eu/>). See license for details at www.cecill.info/licences/Licence_CeCILL-C_V1-en.html.

Image Lab Touch is based in part on libraries from GCC runtime and the Gnu C library.



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