IMAGING

Stain-Free Software Upgrade Quick Start Guide

Stain-Free Imaging on the Gel Doc™ XR+ and ChemiDoc™ XRS+ Systems

This guide will walk you through the steps to install Image Lab™ software version 5.1 beta.

Note: If you already have Image Lab software installed, then you will have to run the installer twice. First to uninstall the previous version, and then a second time to install version 5.1 beta. Alternatively, you may use Control Panel/Uninstall a Program to remove the previous version first.

1 Installing Image Lab software version 5.1 beta

- After you have downloaded Image Lab software, proceed to installing the software by double clicking **Setup**
- Click **Next** to launch the installation wizard
- Select **"I accept the terms"** and click **Next**
- Click **Next** to install Standard Edition
  Note: If you are in a regulated environment, you may wish to install the Security Edition. You will need to have purchased a Security Edition license from Bio-Rad Laboratories, Inc. to install the Security Edition. If you already have the Security Edition and have activated your license, reactivation of Image Lab is not necessary.
- Click **Next** to install to the default location or change to install to a different folder
- Click **Install** to begin installation. Click **Finish** to complete installation. Installation of Image Lab software version 5.1 beta is now complete

Gel Doc XR+ System ChemiDoc XRS+ System

Fig. 1. Gel Doc XR+ and ChemiDoc XRS+ camera locations.

- If you are upgrading a Gel Doc XR+ system, it is now stain-free enabled and ready to image stain-free gels. For upgrading Image Lab software on a ChemiDoc XRS+ system, a flat fielding calibration step will be required. Take a look at the camera on your imager if you are unsure which Bio-Rad imager you have (see Figure 1)

2 Performing flat fielding calibration (optional step for Gel Doc XR+)

- To perform flat fielding you will need an orange fluorescent reference plate (catalog #170-8008)
  Note: To obtain an orange fluorescent reference plate, required for flat fielding calibration, contact Bio-Rad tech support at: **lsg.techserv.us@bio-rad.com** or **1-800-4-BIORAD, option 2**.
- Select **Edit** in the menu bar of Image Lab software
- Then select **Instrument Setup**
- In the Flat Field section of the Instrument Setup window click **Reset** (see Figure 2)
- Click **Skip** to bypass the lens flat fielding calibration because this procedure was done during installation of the imager

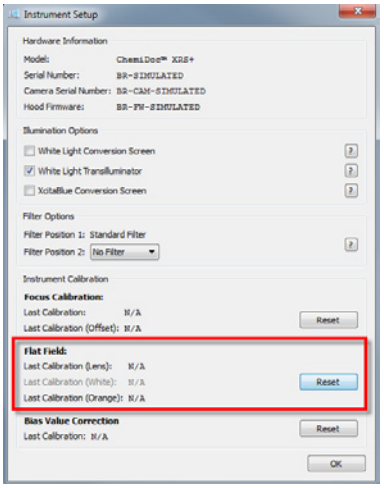

Fig. 2. Instrument Setup window.

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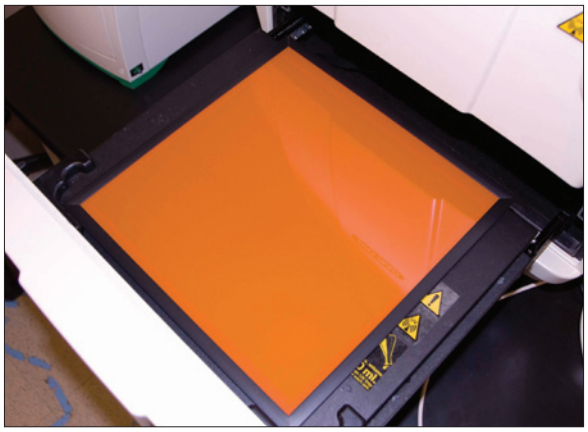
- Go to the imaging hood and center the orange plate on the imaging stage, then close the door



- Click **Start Calibration**. On the upper right side of the hood, move the filter to position 1, then click **OK**. The flat fielding procedure will take a few minutes

- When the procedure is complete remove the orange plate. Click **OK** two times to exit out of the Instrument Setup window

Congratulations! Your Bio-Rad imager is now stain-free enabled. This additional calibration step generates flat field correction profiles needed to account for nonuniformity of the UV light source and is critical for accurate stain-free total protein normalization.

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Bio-Rad Laboratories, Inc.

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Web site *www.bio-rad.com* ***USA*** *800 424 6723* ***Australia*** *61 2 9914 2800* ***Austria*** *01 877 89 01* ***Belgium*** *09 385 55 11* ***Brazil*** *55 11 5044 5699*
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