# FlashGel™ Camera and Capture Software

## Software Install Instructions and User's Guide for version 3.2

*Compatible with FlashGel™ Camera serial numbers LNZ/2012 and higher*

**For support on units with serial numbers smaller than LNZ/2012, please contact Scientific Support.**

### Introduction

Capture data from the FlashGel™ System right at your bench top. Say good bye to darkrooms and UV light. Complete separation and documentation safely, at your bench, in minutes. This simple digital camera in an enclosed hood connects directly to your Windows® laptop, PC, or PDA via USB cable.

Real-time separation and documentation

- Complete your gel run and image capture in just 5 minutes.
- Watch DNA migrate – on the FlashGel™ Dock or on your computer screen.
- Photograph gels at the bench – without UV light

The FlashGel™ Camera offers

- Sharp, clear, high-resolution images
- Simple user interface
- Small, compact design

### Quick Start Guide

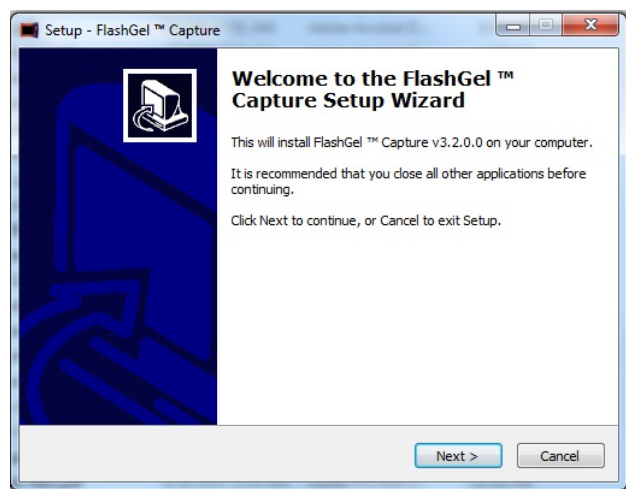**Note: Do not plug camera into computer until after software is installed.**

1. Insert install CD into drive.

*Note If AutoRun is disabled on your machine, open CD folder and execute the Setup.exe file.*

2. Walk though setup wizard (Figure 1).
   a. Select destination location.
   b. Select start menu folder.
   c. Click Install.

*Note: Three drivers will be loaded during the install process. Some operating systems may have an additional prompt to install these drivers. You'll want to install these.*

**Figure 1: Setup Wizard**

**Using FlashGel™ Capture**

Starting the application

Please ensure the camera is connected and the camera hood is placed securely over the FlashGel™ Dock

Launch the application from the desktop icon or Start Menu. (Figure 2).

**Figure 2: FlashGel™ Capture Desktop Icon**



FlashGel ™
Capture

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Viewing a FlashGel™ Image

As soon as the application starts, you will see the software interface. (Figure 3).

**Figure 3**



*Note: The camera is setup for the low-light conditions expected when viewing a FlashGel™ Cassette.*

*Note: If you remove the hood, the image will appear bright.*

To take a photo, mount the camera on the cassette/dock and turn on the FlashGel™ Dock Light. You will see an image of the gel with the default contrast and brightness settings. If needed the brightness setting, 🔆, and contrast settings, ◑, may be adjusted to optimize the image by using the + or – buttons to adjust the contrast and/or brightness. It is not recommended to leave the camera in place while the gel is running in order to avoid excess heating. The contrast and brightness settings will revert to default values when the software is restarted.

**Figure 4**



Capturing and saving an image

To capture a still image at any time, simply click the Capture button. (Figure 5).

**Figure 5: Capture Button**

 This action will show a Save As dialog and give you the opportunity to enter a filename and choose between three image types; BMP, JPG, or TIF.

On subsequent occasions (and even after restarting the application), FlashGel™ Capture will remember the name and location of the last file you saved. Furthermore, the program will append a sequential number to the last filename you saved, meaning that you simply have to click Save to continue. e.g. if your initial filename was "Test", subsequent filenames would be "Test1", "Test2", "Test3"….

Printing an image

**Figure 6: Print Button**



To print an image at any time, simply click the Print button. (Figure 6).

This action will show a print dialog that will enable you to select the printer of choice and subsequently print the image.

**Camera Specifications**

| | |
|---|---|
| Hood Dimensions: | 10 cm [W] x 11 cm [L] x 16 cm [H] |
| Camera Type: | Digital/CMOS |
| Image File Type: | .JPG, .TIF, .BMP |
| Image Resolution: | 1280 x 960 |
| Bit Depth: | 8 bit |

**Software/Hardware Requirements**

| |
|---|
| Windows® XP (SP3 or higher), Windows Vista® or Windows® 7 (32-bit or 64-bit),Windows® 8 |
| 1 GHz |
| 512MB RAM |
| USB 1.1 port (2.0 recommended) |

## Ordering Information

| Cat. No. | Product | Size/Format |
|---|---|---|
| 57040 | FlashGel™ Camera | One size |
| 57067 | FlashGel™ System | Includes: FlashGel™ Dock, FlashGel™ Camera; box of 9 FlashGel™ DNA Cassettes 1.2% agarose, 12+1 well single-tier format; FlashGel™ Loading Dye and FlashGel™ DNA Marker. |

## Related Products

### FlashGel™ Starter Packs

| Cat. No. | Product | Size/Format |
|---|---|---|
| 57025 | FlashGel™ Dock | One size |
| 57026 | FlashGel™ DNA Starter Pack | Includes: FlashGel™ Dock, box of 9 FlashGel™ DNA Cassettes 1.2% agarose, 12+1 well single-tier format; FlashGel™ Loading Dye and FlashGel™ DNA Marker. |
| 57024 | FlashGel™ RNA Starter Pack | Includes: box of 9 FlashGel™ RNA Cassettes 1.2% agarose, 12+1 well single-tier format; Formaldehyde Sample Buffer; FlashGel™ RNA Marker; and AccuGENE™ Molecular Biology Water. FlashGel™ Dock sold separately. |
| 57050 | FlashGel™ Recovery Starter Pack | Includes: box of 9 FlashGel™ Recovery Cassettes, 1.2%, 8+1 well double-tier format; FlashGel™ Loading Dye; FlashGel™ Recovery Buffer; FlashGel™ QuantLadder; Visualization Glasses and Control Fragment. FlashGel™ Dock sold Separately. |

## Warranty and Liability

This product was produced utilizing the highest practical standards of materials, workmanship, and design. Lonza Rockland, Inc. warrants that the product has been tested and will meet or exceed published specifications. This warranty is valid only if the product has been operated and maintained according to the instructions provided.

Lonza Rockland, Inc. warrants this product to be free from defects in materials and workmanship under normal service for one year from date of shipment. If the product proves defective during this period, Lonza Rockland, Inc., will repair or replace it at Lonza Rockland, Inc.'s option, free of charge, if returned to Lonza Rockland, Inc. postage prepaid. This warranty does not cover: damage in transit, damage caused by carelessness, misuse or neglect, normal wear through frequent use, damage caused by solvent corrosion, damage caused by improper handling or user alteration, nor unsatisfactory performance as a result of conditions beyond Lonza Rockland, Inc.'s control. Lonza Rockland, Inc. shall not be liable for any damage or injury to persons or property of any kind arising out of the purchase or use of the product. Any claim made by the buyer against Lonza Rockland, Inc. with respect to the product shall be waived by buyer unless made within thirty days of delivery. In no event shall Lonza Rockland, Inc.'s liability with respect to any such claim exceed the purchase price actually paid by buyer. Lonza Rockland, Inc., shall in no event be liable for incidental nor consequential damages, including without limitation, lost profits, loss of income, loss of business opportunities, loss of use and other related damages, however caused, nor any damage arising from the incorrect use of the product. Each party hereto shall be excused from liability for failure to perform due to any cause beyond its reasonable control, except that this clause shall not operate to relieve buyer of the obligation to pay the purchase price for merchandise delivered.

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Some components and technology of the FlashGel™ System are sold under licensing agreements. The nucleic acid stain in this product is manufactured and sold under license from Molecular Probes, Inc. and the FlashGel™ Cassette is sold under license from Invitrogen IP Holdings, Inc. and is for use only in research applications or quality control, and is covered by pending and issued patents. Dark Reader is a trademark of Clare Chemical Research, Inc. Microsoft and Vista are trademarks of Microsoft Corporation. All other trademarks herein are marks of the Lonza Group or its affiliates.

The FlashGel™ Dock technology contains Clare Chemical Research, Inc. Dark Reader® transilluminator technology and is covered under US Patents 6,198,107; 6,512,236; and 6,914,250. The electrophoresis technology is licensed from Temple University and is covered
under US Patent 6,905,585.

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