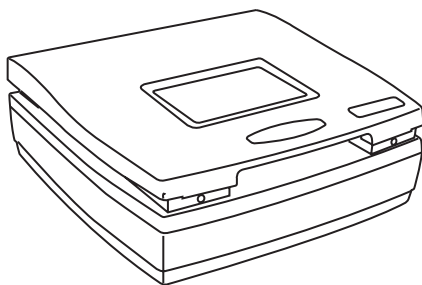




SafeViewER™ Imager  
Cat. No. E1001

## User Manual



## Welcome

### Notice to Purchasers

**abm**'s products are guaranteed to meet required quality control standards at the time of shipment. Notice of problematic products must be made within 10 days of receipt. This product warranty limits **abm**'s liability to the replacement of the product only.

### Technical Support

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## Preface

### Copyright

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### Disclaimer

The contents of this manual have been checked carefully for accuracy, and every effort has been made to ensure that there are no errors. However, **abm** makes no guarantee as to the accuracy of the contents of this document and reserves the right to make changes to the contents without prior warning. Specifications, software and hardware bundles are subject to change without notice. Not responsible for typographical errors.

I49-005536, A  
11/20247

## FCC Compliance Statement

This equipment (Model: SafeViewER™ Imager - E1001) has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can emit radio frequency energy. If not installed and operated according to the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**NOTE: A shielded Hi-Speed USB interface cable with ferrite core installed on the gel scanner connector end must be used with this equipment.**

**Caution: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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## 1.0 Introduction

- Thank you for choosing **abm**'s SafeViewER™ Imager.
- Read this manual carefully before using this device and follow the instructions for safe operation.
- Keep this manual in an appropriate place to refer to as necessary.
- **abm** cannot guarantee any safety if the device is used for any objects or purposes other than the intended use or used by any procedures other than those mentioned in this manual.
- The contents of the manual are subject to change without notice due to the improvement of the device's performance or functions.
- Contact an **abm** sales representative or agent if any instructions in this manual are unclear or if there are any inaccuracies.
- No part of this manual may be reproduced in any form without the expressed written permission of **abm**.
- Please read pages 5-7 carefully as it contains important safety notices.
- Only trained or authorized personnel should operate this SafeViewER™ Imager.
- Only qualified service personnel or authorized agents should install and conduct maintenance on this device.
- Always use **abm** spare parts. **abm** will not be responsible for any adverse consequences as a result of the user using accessories that were not obtained from **abm**. However, users can contact **abm** to verify the suitability of these accessories before using them.
- Users should arrange for regular inspection and maintenance of the device according to the recommended specified time intervals.
- Due to the differences between models and the improvement of products, the actual product may differ slightly from the diagrams included in this manual.
- The end user has an obligation to be responsible for his or her own safety.
- Always use appropriate protective equipment when using the SafeViewER™ Imager.
- It is the end user's responsibility to understand the product's proper function and operational characteristics. This device should be used only for its intended purpose or functions. Any alterations or modifications void the warranty.










## 2.0 Safety Precautions

Before using your scanner, carefully read the following safety guidelines, which outline the proper operation of the scanner and its accessories to prevent injury or damage to users and equipment.










### Interpretation of Symbols

	CAUTION	This indicates a hazardous situation that, if not addressed, could result in injury or damage to users or equipment.
	WARNING	This indicates a hazardous situation that, if not addressed, could result in serious injury or death to users.


### Power Supply:

	Use a power source only with a power rating specified on the marking label.
 	Ensure that the device power is turned off before connecting or disconnecting the cables.
 	Insert the plug completely into the outlet, as a loose connection may cause arcing and result in fire.
 	Hold the plug or connector to disconnect the cable; otherwise, if you pull the cable only, it may damage the core wire and result in fire or electric shock.
	Place and route the power supply cord such that it is not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the cord near the power plugs, convenience receptacles, and at the point where it exits from the outlet.
	When the scanner is left unattended and unused for long periods of time, unplug it from the wall outlet.





## Moving and Storing the Gel Scanner:

	Always ensure that the scanner is stored properly before shipping or moving it. Quick stops, excessive force, and uneven surfaces may cause the product to overturn when moving.
 	Do not hit or drop the scanner. The scanner may be damaged if it receives a strong jolt, which may result in fire or electric shock if the scanner is used without being repaired.
 	Do not place the scanner on any slippery, slanted, or unstable surface. The product may slide or fall, causing serious injury to people as well as serious damage to the product.
 	Do not use the scanner near water. Never spill liquid of any kinds on the product, or it may result in electric shock or other hazards.
	This scanner should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
	Do not store the scanner in which it may be exposed to direct sunlight.

## Using the Gel Scanner:





	Before using the scanner, make sure the area of the glass surface is clear from obstacles.
---	--

## Maintenance and Service:

	When the scanner is going to be cleaned, ensure to turn off the power of the device and unplug the power cable from the AC outlet.
	When you need a repair service, unplug the scanner from the power outlet and consult qualified service personnel.
	When replacement parts are required, use replacement parts that are specified by the manufacturer or have the same characteristics as the original parts.
	For safety reasons, ensure the device is inspected before use. Additionally, perform regular inspections at least once a year.



## Blue-LED Light:

	The scanner's blue-LED is classified as Risk Group 1 (RG1), indicating very low risk. Under normal operation, the light emitted from the blue-LED does not pose a danger to human eyes.
	In order to protect your eyes, do not stare directly at the light of the blue-LED in any circumstances without using an appropriate shielding or filter plate to shield blue light.
	When using the blue-LED for gel excising or observation, ensure you use the filter plate included with your scanner package. Alternatively, use an appropriate shield or eye protector with your scanner to prevent damage from direct blue light to your eyes.
	For details on how to use the supplied filter plate, refer to section of this manual titled "Using the Filter Plate".

### 3.0 Understanding Your SafeViewER™

The SafeViewER™ Imager is a gel imaging device specifically designed for use with SafeView™ DNA Stains (Cat. No. G108, G108-G, G108-R and G680), which provides safer alternatives to the toxic chemical Ethidium Bromide by eliminating contamination risks. It is the most sensitive and environmentally friendly gel documentation system available. It protects the user in two ways: by using LED instead of harmful UV light and replacing Ethidium Bromide with carcinogen-free SafeView™ DNA Stains. This system ensures user safety and supports both gel documentation and sample preparation (gel-cutting) applications.

## 3.1 FEATURES OF THE SafeViewER™

The SafeViewER™ comes with several important features, including the following:

- High sensitivity of fluorescence — SafeViewER™ goes perfectly with global EtBr-alternative stain brands. The SafeViewER™ can achieve a high sensitivity of 0.008 ng/μl.
- Space-saving compact design — The modern and compact design of the SafeViewER™ makes it perfect for small rooms and laboratories, saving desk space while keeping storage space neat and clean.
- Hi-Speed USB connecting port — High-Speed USB (USB 2.0) supports data transfer speeds of up to 480 Mbps and offers plug-and-play connectivity for hassle-free installation.
- abm ViewOS — The easy and user-friendly interface of abm ViewOS stores gel images in a computer readable format, offering easy and quick access and management.
- Easy to operate, clean and maintain — The SafeViewER™ requires minimal maintenance which is ideal for busy working environments.

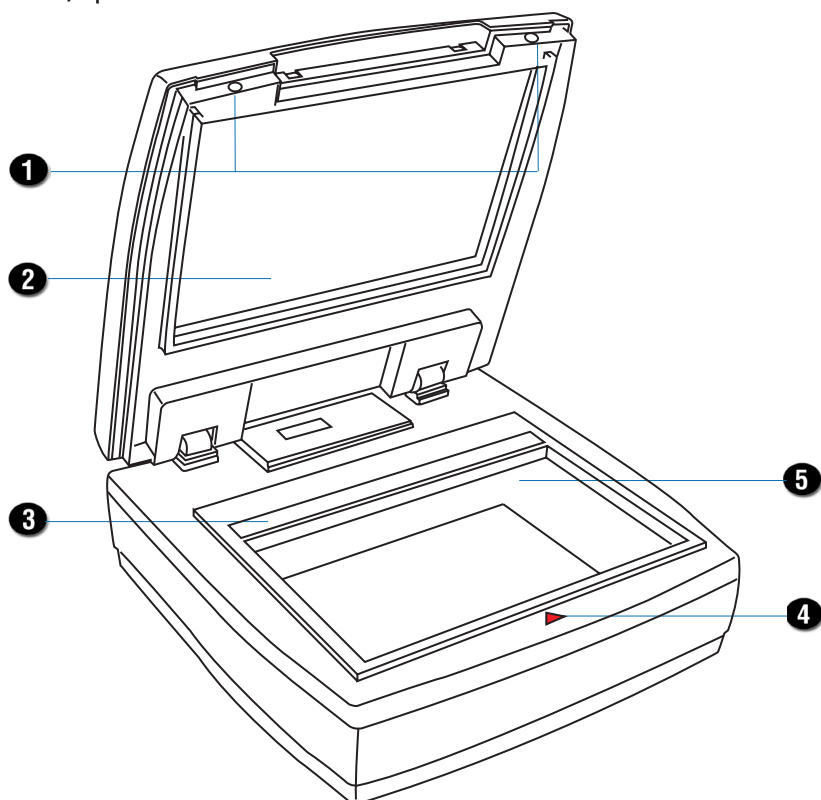
## 3.2 SYSTEM REQUIREMENTS

In order to use your SafeViewER™ your computer must satisfy the following system requirements:

- CD-ROM drive (for installing software)
- Color display with 24-bit color output capability
- 512 MB RAM or above
- 300 MB HDD or above
- Pentium IV PC or higher with Hi-Speed USB (USB 2.0)
- Microsoft Windows 7 or higher

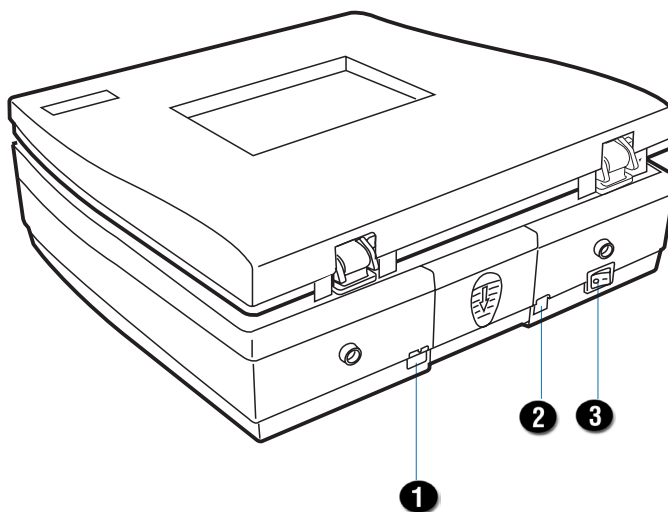
### 3.3 TAKING A CLOSER LOOK

Front/Open View:



No.	Name	Function
1	Holes (2)	Used to hang up a filter plate when lighting up blue-LED for gel excising or observation.
2	Scanner Lid	The top cover of the scanner.
3	Rear Glass Surface	For scanner calibration.
4	Red Arrow Mark	Used to align a gel properly.
5	Front Glass Surface	The place to put a gel for scanning, excising or observing.

Rear View:



No.	Name	Function
1	Hi-Speed USB Port	Connects the Hi-Speed USB (USB 2.0) cable to the computer.
2	Power Connector	Connects the scanner to the power adapter.
3	Power Switch	Turns the scanner on or off.

## 4.0 Initial Set-up

In order to ensure that the scanner works properly, follow the four steps below to set up your scanner.

1. Unboxing the Package Contents
2. Installing the Software
3. Unlocking the Scanner
4. Connecting the Scanner

### NOTES:

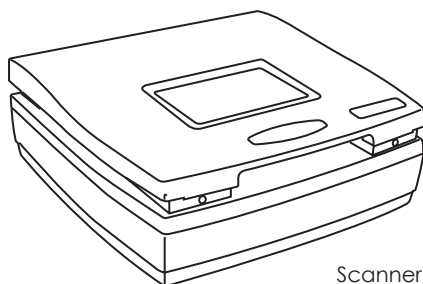
**Before unpacking, inspect the shipping carton for any signs of mishandling or damage first. The scanner's packing carton and padding material have been carefully chosen to prevent damage to the unit in shipping and can withstand a reasonable amount of pressure.**

**After unpacking your scanner package, refer to the next section to ensure that you received all of the parts necessary for scanner setup. If there are any damaged or missing parts, notify the shipper immediately or contact customer service.**

**Save the carton and all packing materials. If you need to ship the scanner later, it is recommended that you should repack it using the original wire ties, plastic bags, foam supports and cartons, which protects your scanner from unnecessary damage.**

#### 4.1: UNBOXING PACKAGE CONTENTS

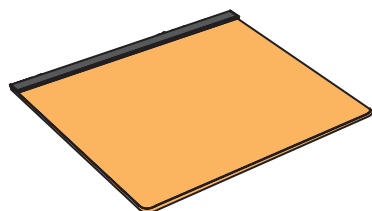
After you have unpacked your scanner package, please check for the major components listed below.



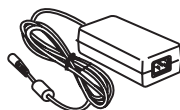
Scanner



Power cord



Filter plate



Power adapter



Hi-Speed USB cable

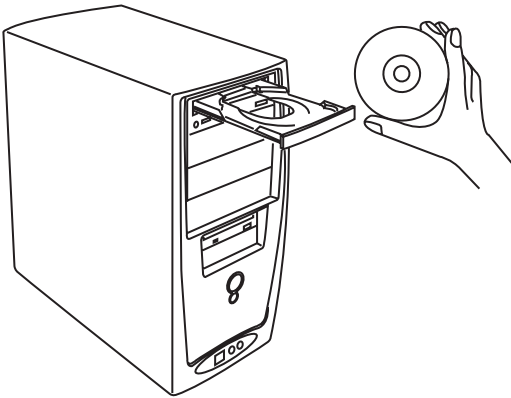


Software CD

## 4.2 INSTALLING THE SOFTWARE

Important: Do not remove the yellow stickers from your scanner until you are told to do so. You must install all software before connecting your scanner. Always close any open programs and turn off Anti-virus utilities before installing the software.

1. Turn on your computer.
2. Place the abm ViewOS Software CD into a drive.



3. Follow the on-screen instructions to install the driver and software.

**NOTE: If the abm ViewOS Software Installer screen does not come up automatically, double-click the following in succession: "My Computer"; the CD icon; then cdsetup.exe to start the installer program.**

4. To install the software on the abm ViewOS Software CD, click each software program in the order that it appears on the screen to install, and follow the on-screen instructions.
5. Click EXIT on the abm ViewOS Installer screen when all the software has been installed.
6. Restart your computer.

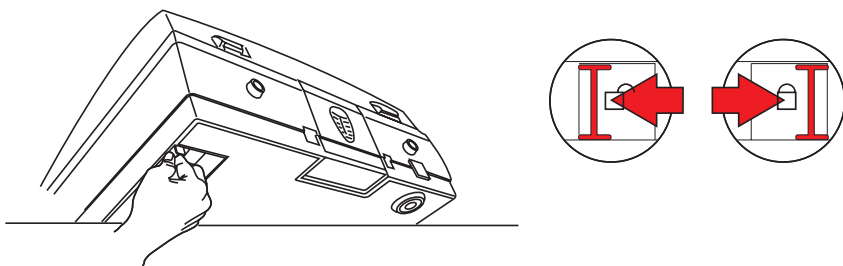
### Drivers & Software Upgrades

After completing the software installation, if you find that the installed drivers or software do not function properly with your product or computer system, please visit [www.abmgood.com](http://www.abmgood.com) to download and install any required updates.

### 4.3 UNLOCKING THE SCANNER

With the scanner power off, tilt the scanner and locate the locking switch at the bottom right corner of the scanner. Do not turn the scanner upside down when attempting to unlock, as this may damage the scanner's mechanism.

1. Push the locking switch to the position as indicated in the graphic, with the icon on the lock showing as "unlocked".

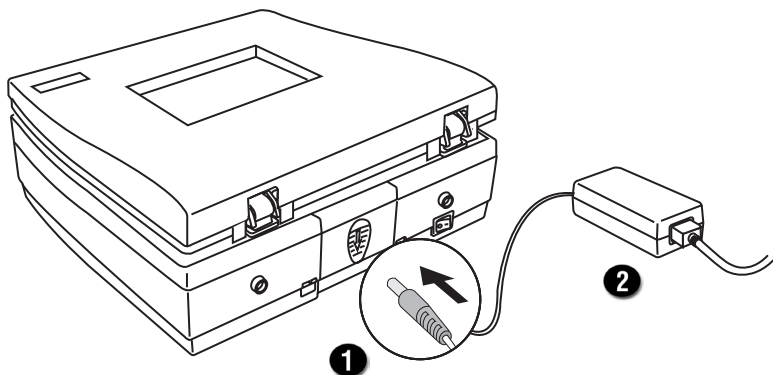


**NOTE:** To lock the scanner (for shipping and other purposes), turn the locking switch to the "Locked" position. When locking the scanner, do not turn the scanner upside down.

### 4.4 CONNECTING THE SCANNER

#### To the Power adapter

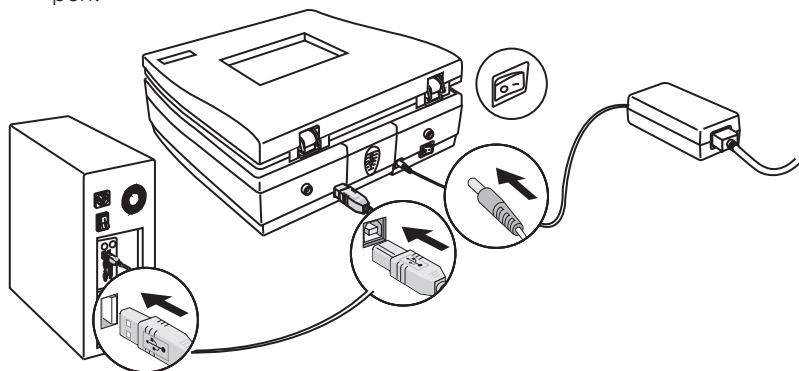
1. Connect the power adapter to the back of the scanner.
2. Plug one end of the power cord into the power adapter, and plug the other end of the power cord into a wall outlet or other power source.



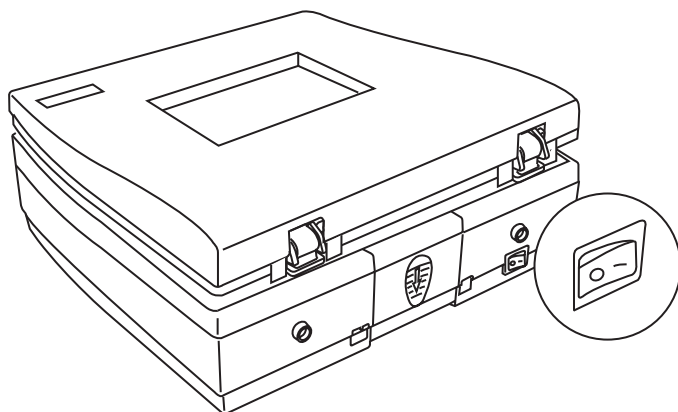


**To the Hi-Speed USB Cable**

3. Connect one end of the Hi-Speed USB cable to your scanner.
4. Connect the other end of the Hi-Speed USB cable to the computer's USB port.



5. Turn the Power switch on the back of the scanner to "On," and the scanner will be ready to scan immediately.



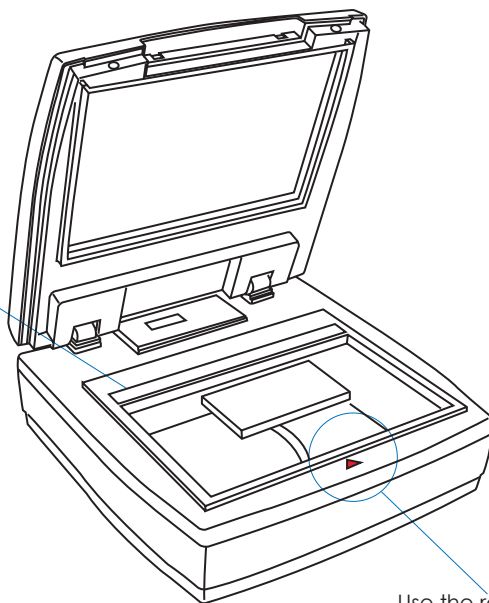
## 5.0 Digitizing a Gel

### 5.1 POSITIONING A GEL

1. Lift up the scanner lid.
2. Place a gel to be scanned on the scan bed. Use the red arrow mark at front of the scanner to align the scanned gel at the center.
3. Lower the scanner lid down.

**Important:**

Make sure that the calibration window on the glass surface is kept clear and free of obstruction at all times.



Use the red arrow mark at the front of the scanner to align the gel

**NOTE:** When closing the scanner lid, make sure that it has been shut tightly; otherwise, the light may leak and generate poor scan quality.

## 5.2 SCANNING A GEL

abm ViewOS is a software designed by **abm** for gel scanning. Its simple and user-friendly interface enables you to easily start the scanning process.

1. Follow the procedures for "Positioning a Gel" to place the gel to be scanned on the scanner glass surface.
2. Launch abm ViewOS by clicking the program icon on the desktop of the computer.
3. Click the Image Capture button on the control panel to start scanning.

When done, the scanned images will be automatically saved into the folder defined in Settings window. At the same time, the scanned images will be displayed in thumbnail sizes in the Thumbnail View area and labeled with the file name, grouped by a date, time and number.

Click the image in the Thumbnail View area to enlarge it and display it in the Preview area.

Refer to the section "Understanding the abm ViewOS Software" in this manual for details about how to change a folder or a name for a scanned image in the Settings window.

4. If necessary, adjust the exposure time for a scanned gel by dragging the Exposure Time bar to the left to decrease or to the right to increase. Alternatively, you can click the Plus (+) or Minus (-) buttons next to the bar to modify the exposure time.

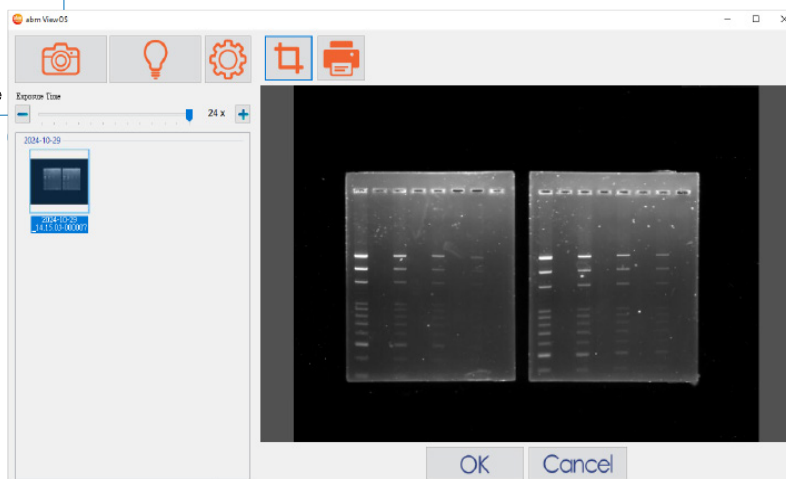
When done, click the Image Capture button again. A new thumbnail-size image will be displayed in the Thumbnail View area.

5. To delete an image in the Thumbnail View area, use the mouse to select the desired image and press the Delete key on the keyboard. To delete multiple images at once, hold down the Ctrl key on the keyboard, use the mouse to select the images one by one, and then press the Delete key.

Image Capture

Exposure

Time



Thumbnail View area

Preview area

## 6.0 Excising or Observing a Gel

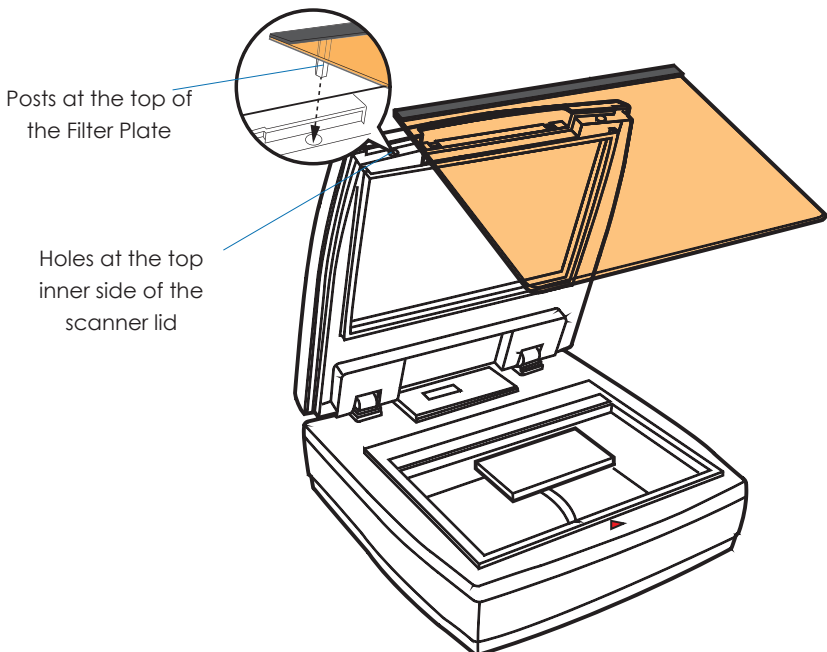
### 6.1 USING THE FILTER PLATE

Included with the scanner package is a Filter Plate, which can be used with the SafeViewER™ for gel excision or observation using the blue-LED. Follow the steps below to install the Filter Plate on the scanner and to perform your scan.

1. Follow the procedures in the section "Positioning a Gel" to place a gel to be scanned on the scan bed.
2. Follow the procedures (steps 2 and 3) for "Scanning a Gel" to launch the abm ViewOS software and to perform a scan of the gel.
3. To install the Filter Plate on the scanner:

A. Lift up the scanner lid.

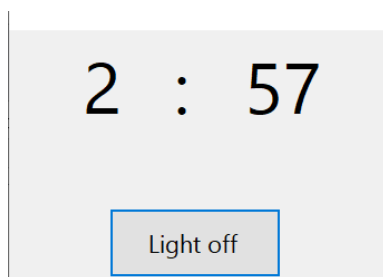
B. Locate two holes at the top inner side of the scanner lid and then insert posts at the top of the Filter Plate into the holes as shown below. When done, make sure that the Filter Plate has been attached to the scanner tightly.



- Next, click the "Light up" button on the control panel

When the button is clicked, the blue-LED will move to a predefined position and light up.

Once the blue-LED is activated, a window will appear on the screen displaying a countdown clock (3 minutes) to indicate the remaining time for gel excision or observation directly on the scan bed. When finished, click the "Light Off" button to close the window.



**NOTE: If the blue-LED light is turned on for 3 minutes, you will be forced to wait at least 2 minutes to restart the use of the scanner.**

Light Up Button



Thumbnail View area

Preview area

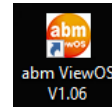
## 7.0 Understanding the abm ViewOS Software

In previous sections, you have learned how to use the SafeViewER™ together with the abm ViewOS software to process basic scan jobs. This section provides more detailed descriptions of the functions and commands within the abm ViewOS software, which may help you use it more effectively.

### 7.1 LAUNCHING abm ViewOS

abm ViewOS can be launched in a stand-alone mode.

From stand-alone mode: Double-click the abm ViewOS icon on the desktop, or choose Start, Programs, abm ViewOS for Windows, and then abm ViewOS.

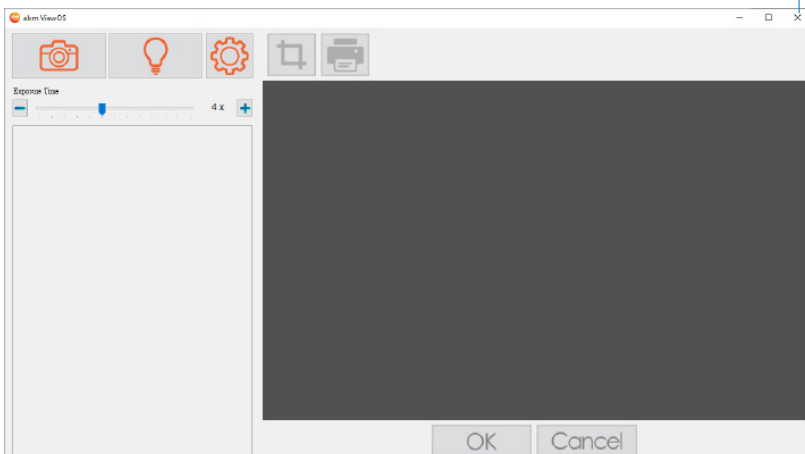


After being launched, the main control panel will appear on the screen.

### 7.2 EXITING abm ViewOS

To exit abm ViewOS, click on the Exit button on the upper right side of the main control panel.

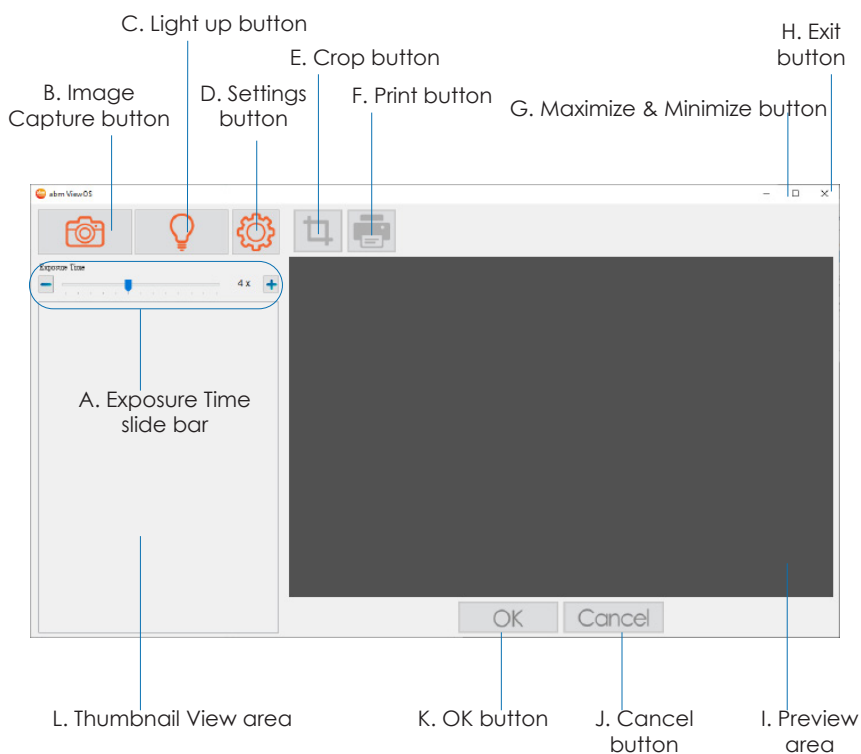
Click here to exit  
abm ViewOS



### 7.3 MAIN CONTROL PANEL

The main control panel is the prominent window and includes the various commands and tools for controlling the scanner.

#### Elements of the Main Control Panel

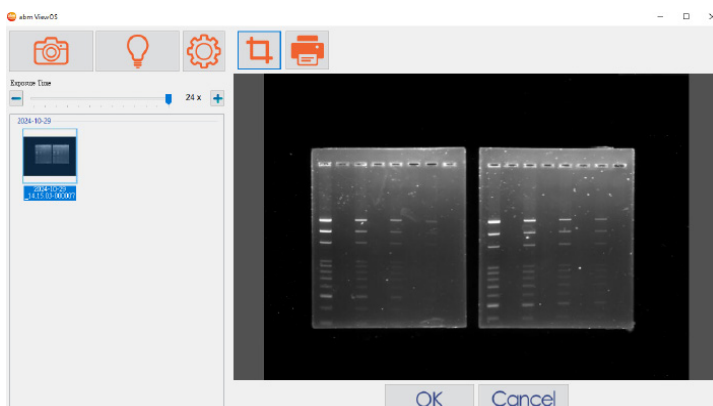




- A. Exposure Time Slide Bar: Drag the slider left or right to decrease or increase the exposure time of the scanned image. Alternatively, use the Plus/Minus (+/-) buttons next to the slider to adjust the exposure time.
- B. Image Capture button: Click this button to start scanning.
- C. Light up button: Click this button to turn on the blue-LED for gel excision or observation on the scan bed.
- D. Settings window button: Click the Settings button to activate the Settings Window where you can adjust settings related to your gel scanning.
- E. Crop button: The Crop Button allows you to crop and remove the unselected area from the image.
- F. Print button: The Print button allows you to print out the image selected in the Thumbnail View area.
- G. Maximize & Minimize button: Click the Maximize/Minimize button to maximize/minimize abm ViewOS.
- H. Exit button: Click the Exit button to close the abm ViewOS scanning software.
- I. Preview area: This area shows an enlarged view of the thumbnail selected in the Thumbnail View area.
- J. Cancel button: Click the Cancel button to abandon what you framed by using the Crop button.
- K. OK button: Click the OK button to save the area where you framed on the selected image by using the Crop button as a separate image file.
- L. Thumbnail View area: This area shows thumbnails of scanned images or cropped images.

## Image Capture Button

The Image Capture button scans the images on your scanner and delivers the images to your selected folder. The scanned image will be displayed in the Thumbnail View area when the scan is done.



## Light Up Button

The Light up button moves the blue-LED light to an assigned position and turns it on for gel excision or observation on the scan bed.



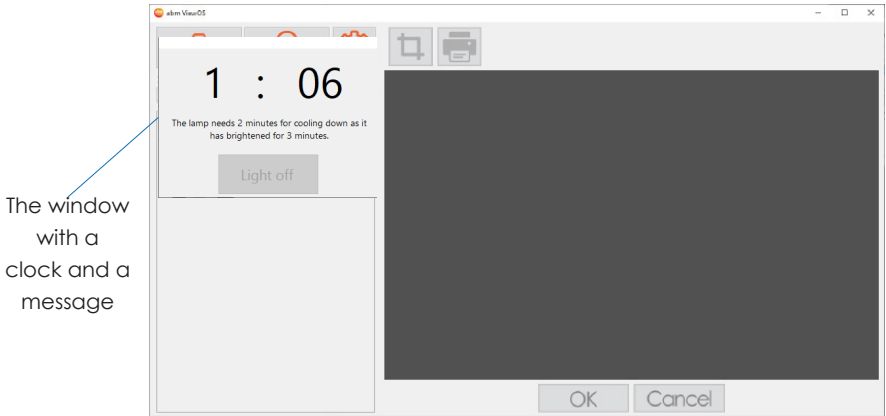
When the button is clicked, the blue-LED will move to a predefined position and light up.

Once the blue-LED is activated, a window will appear on the screen displaying a countdown clock (3 minutes) to indicate the remaining time for gel excision or observation directly on the scan bed. When finished, click the "Light Off" button to close the window.

2 : 57

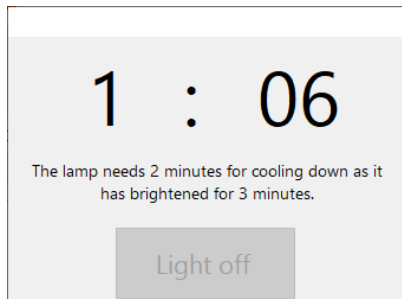
Light off

Please note that if the blue-LED light remains on for three minutes, the current timer window will be replaced by a new window displaying a message indicating that the lamp needs two minutes to cool down. The new timer (2 minutes) will then begin counting down.



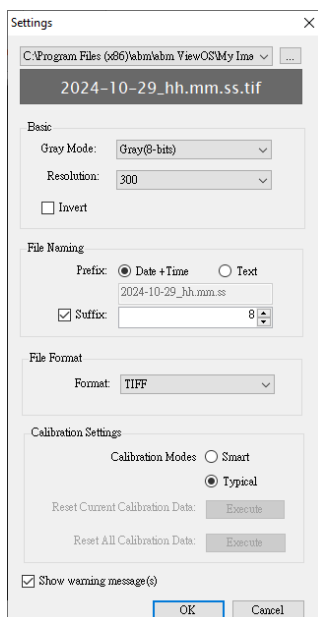
When this window appears on the screen, you have to wait at least 2 minutes for the blue-LED light of the scanner to cool down.

When the 2-minute countdown finishes, the timer window will automatically close. You can then restart and use the scanner.



## Settings Button

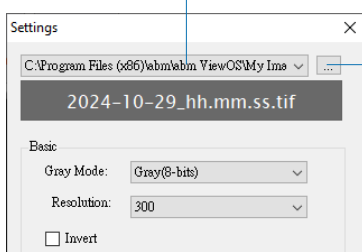
The Settings button activates the Settings window in which you can adjust parameters related to output scanned gel images, such as file name, save location, output format, and more.



## File's Saving Location

This is the folder to store scanned images. To specify a folder of your own, click the icon (...) next to the file's saving location box.

File's saving location box



Click to toggle through a list of folders which can be assigned to save scanned images.

## Gray Mode

The Gray Mode box shows you the image type of the current scan job.

- Gray (8-bits): Grayscale images use shades of gray to simulate gradations of color or tonal values, and contain 8 bits per pixel.
- Gray (16-bits): Grayscale images use shades of gray to simulate gradations of color or tonal values, and contain 16 bits per pixel.

## Resolution

The Resolution box shows the resolution settings. The options are 150, 300 and 600 dpi. The default value is 300 dpi.

## Invert

If this option is checked, the colors of the gel image will be inverted automatically when the gel image is captured. For example, white becomes black and black becomes white.

## File Naming

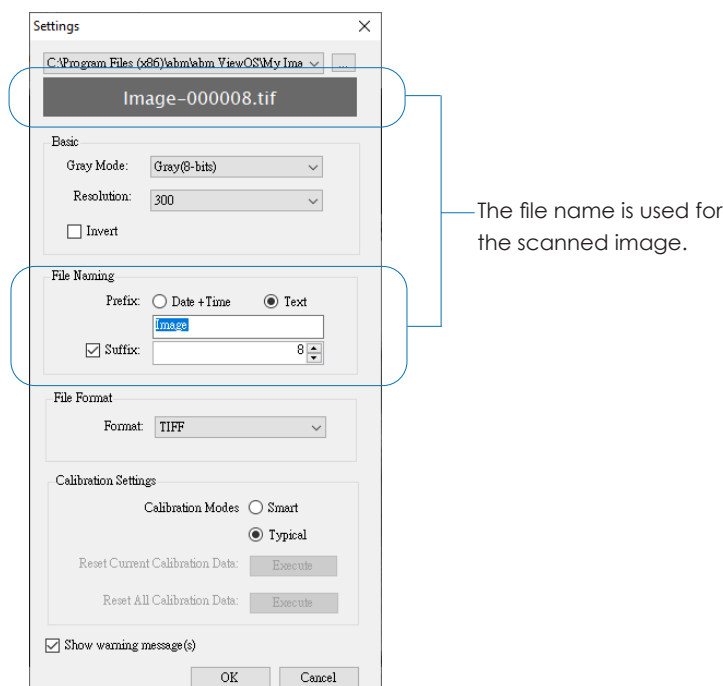
Here, you can give a file name to the scanned image.

Prefix: This option lets you decide a root file name for the scan image.

If "Date+Time" is checked, the file name consists of the date and time when you scan the image. For example, if you see a file labeled with "2017-03-14\_08.51.52", it means that this file was created on March 14, 2017 at 08:51.52 AM.

If "Text" is checked, you are allowed to enter a root file name in the edit box below "Prefix". "Image" is the default.

Suffix: If this option box is checked, the drop-down menu allows you to select a starting number to append to the root file name. For example, if "Text" is checked, and the Suffix option is enabled and set to "5," the saved file name will be "Image-000005."



## File Format

Here, you can select a file format when saving a file. The options are TIFF and JPEG.

The JPEG option is active only when the Gray Mode is set as Gray(8-bits).

## Show Warning Message(s)

If this option is checked, the software will display warning messages when you want to delete images from the Thumbnail View area.

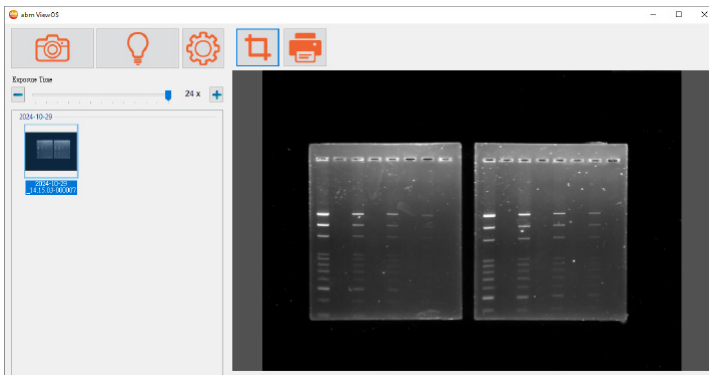
## Crop Button

The Crop button lets you to crop and remove the unselected area from the image in the Preview area. The newly cropped image will appear in the Thumbnail View area as a new image file when done. This button can be activated only when the gel image is selected in the Thumbnail View area.

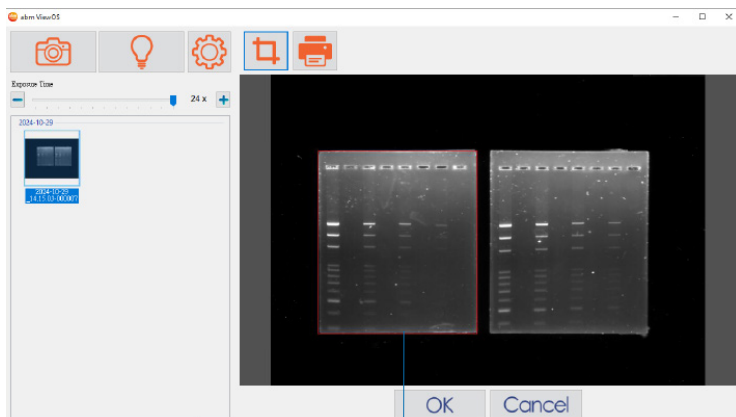


To use the Crop button:

1. Click to select an image from the Thumbnail View area. The selected image will appear in the Preview area.

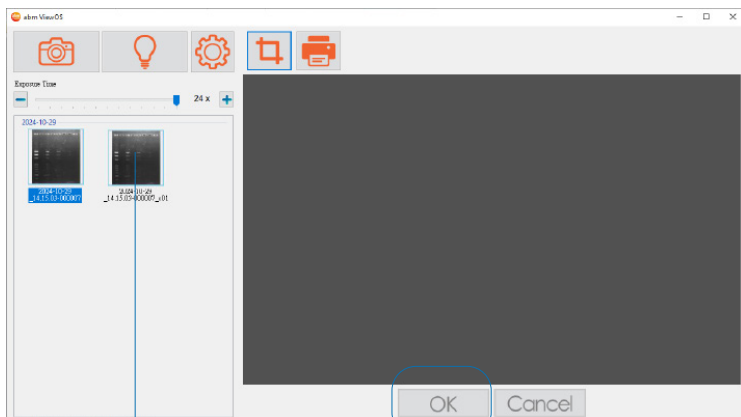


2. Click the Crop button, then select the desired area by dragging the mouse over the image and clicking the left mouse button.
  - When done, drag on the edge or a corner of the framed area to determine the final size of the cropping area if necessary.
  - To remove the selected area of the image, click the Cancel button at the bottom of the Preview area. The selected frame will automatically disappear.
  - To reselect an area to crop, repeat the procedure mentioned above.



Drag to select an area to crop

- When done, click the OK button at the bottom of the Preview area. A new after-cropped image will then appear in the Thumbnail View area. It will be saved in the folder in which you specified in the Setting window.



The cropped image



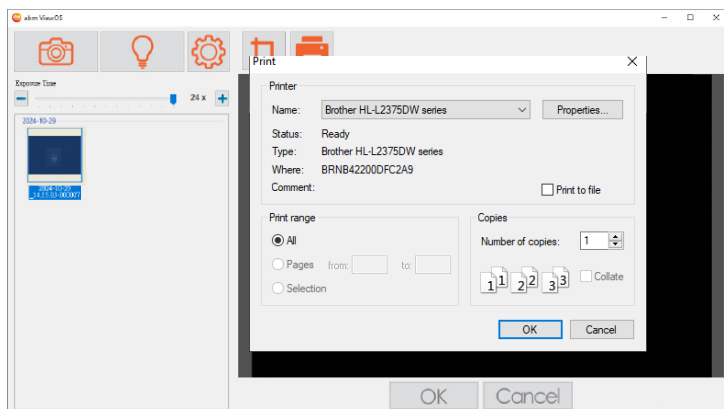
## Print Button

The Print button lets you print the selected gel image through the connected printer. This button can be activated only when the gel image is selected in the Thumbnail View area



To print the selected image:

1. Click to select an image from the Thumbnail View area. The selected image will appear in the Preview area.
2. Click the Print button to activate the Print window.
3. Assign a connected printer and adjust settings if necessary. When done, click OK to start the printing.



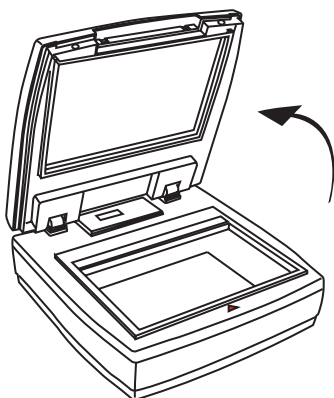
## 8.0 Appendix

### 8.1 CARE AND CLEANING

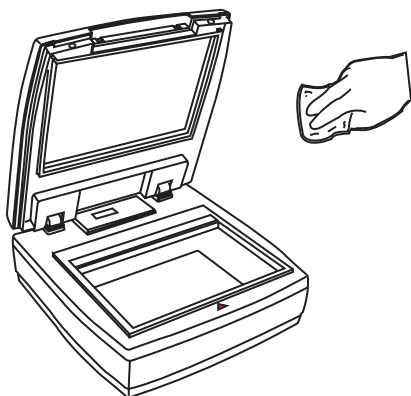
To ensure optimal performance for the SafeViewER™, it is important to clean the rear and front glass surfaces of the scanner on a regular basis.

#### Cleaning the Glass Surfaces

1. Lift up the scanner lid.



2. Use the included cleaning cloth or a soft, non-abrasive and lint-free cloth to gently wipe the rear and front glass surface areas on the scanner's flatbed.



**NOTE:** Do not use any detergents, synthetic cleaning solutions, cleaning naphtha, or other solvents to clean the glass surface directly.

## 8.2 MAINTENANCE

After long term usage, the parts inside your scanner, such as the light source, may become worn out, and problems such as insufficient light supply may occur. In these cases, contact your local dealers or wholesalers for maintenance services.

**NOTE: Your scanner requires a professional to perform any necessary service or maintenance. Do not attempt to repair or maintain it yourself, as this could pose risks to both you and the scanner.**

## 8.3 TROUBLESHOOTING

If you encounter any problems, check the section below and follow the suggested solution if your problem is listed. You may also want to go over installation steps 1 to 4 as described in the "Initial Setup" section of this document to make sure that you have followed all procedures properly.

1. The "Add/Remove Hardware Wizard" appears on your screen.
  - Click the "Cancel" button and close the abm ViewOS.
  - Disconnect the Hi-Speed USB cable from the back of your computer, and refer to the installation instructions in this document.
2. When trying to scan, an error message appears on your screen that reads, "Can't Find Scanners".
  - Make sure your scanner is unlocked (see "4.3 Unlocking the Scanner").
  - Make sure your scanner is connected to your computer and plugged in to a power source (see "4.4 Connecting the Scanner").
  - Uninstall and reinstall the abm ViewOS software.
3. After clicking scan, a blank screen appears.
  - Make sure your scanner is unlocked (see "4.3 Unlocking the Scanner").
  - Uninstall and reinstall the abm ViewOS software.
4. Other gel scanning issues.
  - Make sure you place the gel properly on the scan bed. Do not block the calibration area.
  - Uninstall and reinstall the abm ViewOS software.

## 8.4 SPECIFICATIONS

<b>Type</b>	Desktop flatbed gel scanner
<b>Light Source</b>	Blue LED
<b>Scanning Modes</b>	16-bit grayscale (Approx. 65,536 shades of gray) 8-bit grayscale (Approx. 256 shades of gray)
<b>Resolution</b>	600 dpi
<b>Sensitivity</b>	0.008 ng/μl
<b>Scanning Area</b>	7" x 5" (177.8 mm x 127 mm)
<b>Interfaces</b>	Hi-Speed USB (USB 2.0)
<b>Dimensions (L x W x H)</b>	12" x 12" x 5" (304.8 mm x 304.8 mm x 127 mm)
<b>Weight</b>	10.56 pounds (4.8 kg) 11 pounds (5 kg) (With the Filter Plate)
<b>Voltage</b>	AC 100V-240V, 50-60 Hz, 1.5A max. (Input) DC 15V, 2.5A (Output)
<b>Power Consumption</b>	37.5 W max
<b>Power Supply (AC/DC adapter)</b>	Voltage: AC 100V to 240V MFR: HARD Model No.: HDAD38W101
<b>Environment</b>	Operating temperature: 41° to 104°F (5° to 40°C) Relative humidity: 20% to 85%

**Important:** Specifications, software bundles, and accessories are subject to change without notice. Not responsible for typographic errors.