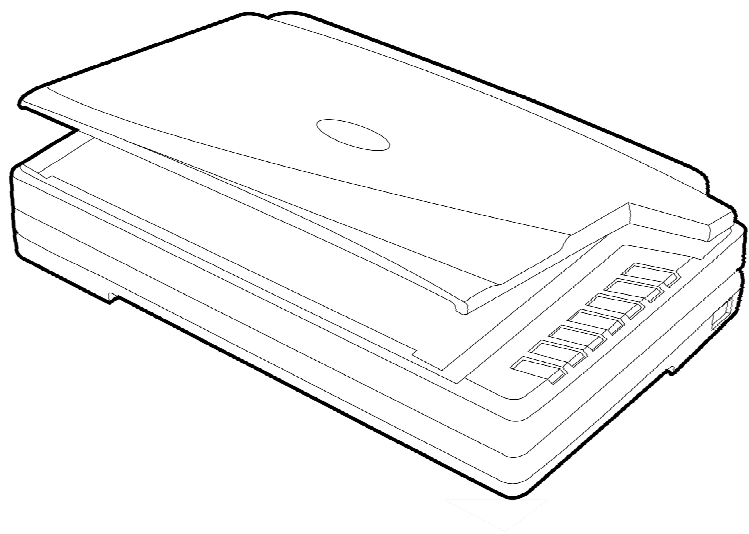




Scanner User's Guide

OpticPro



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Environmental Information

Recycle or disposal at end-of-life information, please ask local distributors or suppliers for recycle and disposal information. The product is designed and produced to achieve sustainable environmental improvement. We strive to produce products in compliance with global environmental standards. Please consult your local authorities for proper disposal.

The product packaging is recyclable.

Attention for recycling (For EU country only)

Protect your environment! This product should not be thrown into the household waste container. Please give it to the free collecting center in your community.

Screen Examples in This Manual

The screen shots in this guide were made with Mac OS X 10.12. If you are using Mac OS X 10.13 / 10.14 / 10.15, your screen will look somewhat different but functions the same.

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INTRODUCTION

Thank you for choosing us as your scanner supplier. Your new scanner will improve the professionalism of your day-to-day computing tasks by allowing you to input images and electronic text into your computer system.

Like all of our products, your new scanner is thoroughly tested and backed by our reputation for unsurpassed dependability and customer satisfaction. We hope you will continue to turn to us for additional quality products as your computing needs and interests grow.

HOW TO USE THIS GUIDE

This User's Guide provides instructions and illustrations on how to install and operate your scanner. This guide assumes the user is familiar with Apple Mac OS X. If this is not the case, we suggest you learn more about Apple Mac OS X by referring to your Apple Mac OS X manual before using your scanner.

The Introduction section of this manual describes the box contents and minimum computer requirements to use this scanner. Before you start installing your scanner, check the box contents to make sure all parts are included. If any items are damaged or missing, please contact the vendor where you purchased your scanner or our customer service directly.

Chapter I describes how to install the scanner's software and connect the scanner to your computer. Note: The scanner connects to your computer through the Universal Serial Bus (USB). If your computer does not support USB technology, you will need to purchase a USB interface card to add USB capabilities to your computer, or buy and install USB connectors if your motherboard has USB capabilities. This guide assumes that your computer is USB-ready and has a free USB port.

Chapter II describes how to use your scanner.

Chapter III describes how to maintain and clean your scanner.

Chapter IV contains technical support information that can help you solve simple problems.

Appendix A contains the specifications of the scanner you purchased.

Appendix B contains our customer service, the limited warranty agreement and FCC statement concerning the product.

CONVENTIONS OF THIS GUIDE

Bold —Represents commands or contents on your computer screen.

ALL CAPS —Important note or first use of an important term in a chapter.

Italic —Represents buttons on your scanner OR important notes.

A Note about Icons

This guide uses the following icons to point out information that deserves special attention.



Warning

A procedure that must be followed carefully to prevent injury, or accidents.



Attention

Instructions that are important to remember and may prevent mistakes.



Information

Optional tips for your reference.

SAFETY PRECAUTIONS



Warning

Before using this device, please read the following important information to eliminate or reduce any possibility of causing damage and personal injury.

1. Usage, the product is for indoor use in dry locations. Moisture condensation may occur inside this device and cause malfunction at these conditions:
 - when this device is moved directly from a cold to a warm location;
 - after a cold room is heated;
 - when this device is placed in a damp room.
- To avoid the moisture condensation, you are recommended to follow the procedure:
 - i. Seal this device in a plastic bag for it to adapt to room conditions.
 - ii. Wait for 1-2 hours before removing this device from the bag.
2. Do use the AC adapter, power cable and USB cable provided with the scanner. Use of other AC adapter and cables may lead to malfunction.
3. Keep the space around the AC adapter and power cable clear in case you need to

quickly unplug the AC adapter during emergencies.

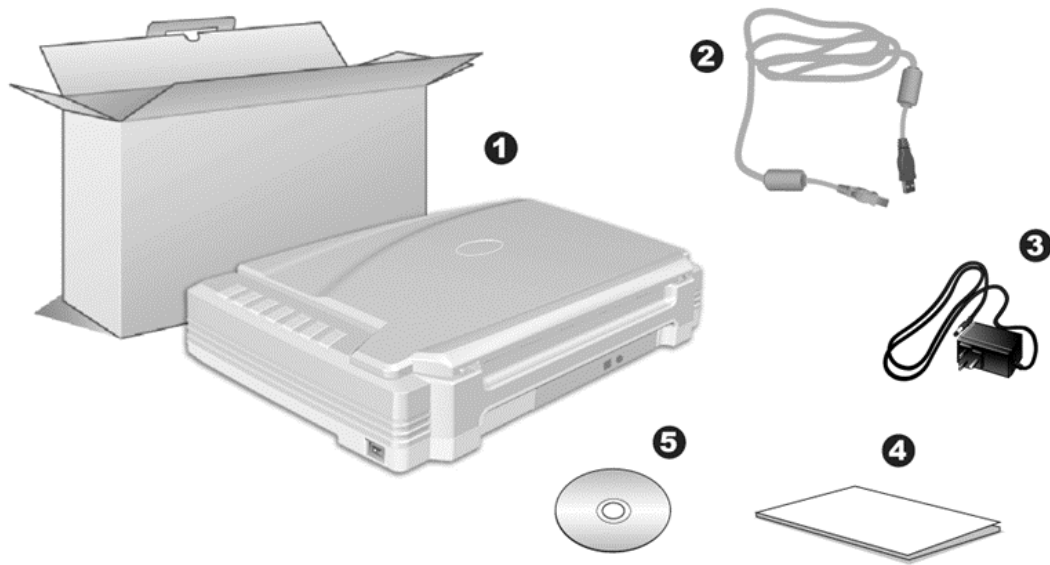
4. Damaged wire could cause fire or electrical shock. Keep the power cord straight and without being twisted, bended, or scraped.
5. Unplug this device if you don't need to use it for a certain period of time, such as, during night or long weekend, to avoid any risks of causing fire.
6. Do not attempt to disassemble the scanner. There is danger of an electrical shock and opening your scanner will void your warranty.
7. Be sure not to bump or knock the scanner glass as it is fragile and could break.
8. Do not subject the scanner to excessive vibration. It may damage the internal components.

MINIMUM SYSTEM REQUIREMENTS¹

- PC with Intel Core i5 processor or higher
- 4 GB RAM or higher (For maximum A3 size@1600 dpi scanning, allocated 20 GB Virtual Memory at least.)
- Available USB 2.0 port
- DVD-ROM Drive
- 800 MB Free Hard Disk Space
- Video card that supports 16-bit color or greater
- Operating System: Apple Mac OS X 10.12 / 10.13 / 10.14 / 10.15

¹ Higher requirements might be needed when scanning or editing a large quantity of image data. The system requirements here are only a guideline, as in general the better the computer (motherboard, processor, hard disk, RAM, video graphic card), the better the results.

Box Contents²

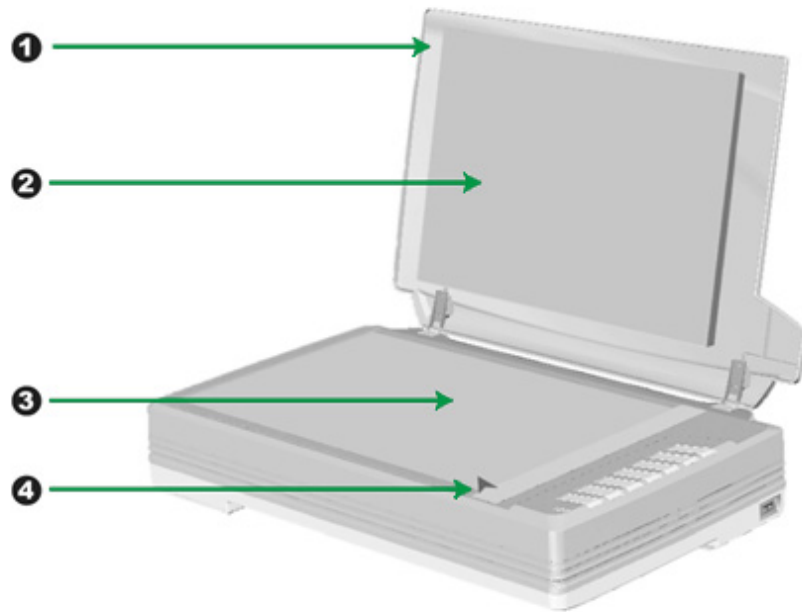


1. Scanner³
2. USB Cable
3. AC Adapter
4. Quick Guide
5. Mac Setup/Application DVD-ROM

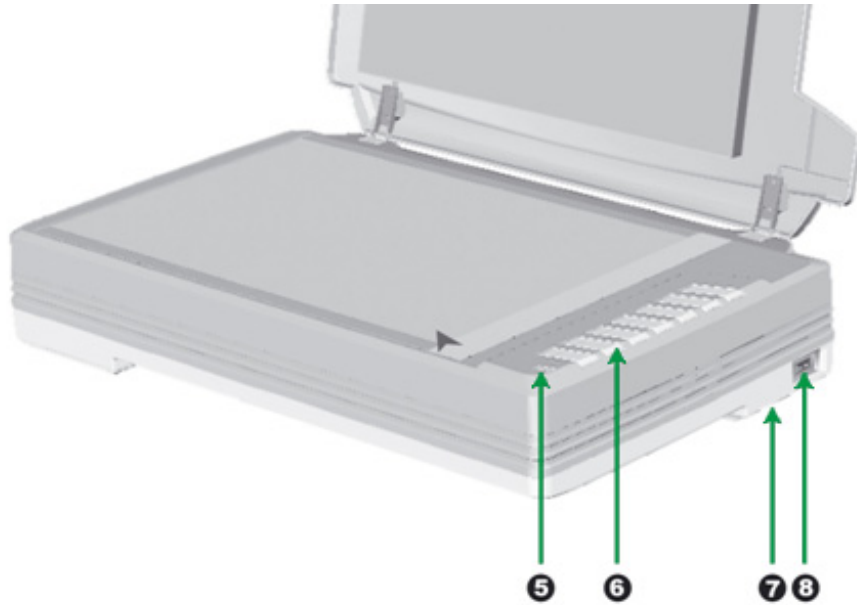
² Save the box and packing materials in case you need to transport this scanner in the future.

³ The scanner illustration(s) in this manual may appear different than from the actual scanner itself.

SCANNER OVERVIEW



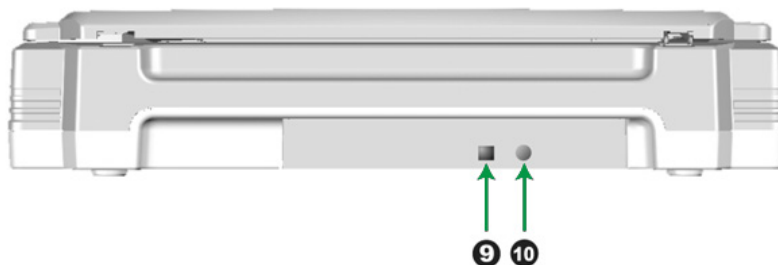
1. DOCUMENT COVER— Helps keep the paper in place and protects the scanner glass.
2. DOCUMENT PAD— Keeps the paper in place and improves accuracy of image quality.
3. SCANNER GLASS— Where you put items for flatbed scanning.
4. REFERENCE MARK— Align your paper with this reference mark for flatbed scanning.



5. **POWER LED**— Indicates the scanner status.

Light	Status
Green	The scanner is turned on, ready to scan images.
Orange	The scanner is in standby mode. Simply press any scanner button on the scanner panel and the scanner will return back to the normal status.
Off	The scanner is off, either because the power is not turned on, or because the power cord is not properly plugged into an AC power outlet.

6. **SCANNER BUTTONS**—You may press any button to perform a predefined scanning task.
7. **SCANNER LOCK** (located on the scanner's underside)— Holds your scanner head in place during transportation.
8. **POWER SWITCH**— Use this to turn the scanner ON or OFF.



9. **USB PORT**— Connects the scanner to a USB port on your computer by the USB cable included.
10. **POWER RECEPTOR**— Connects the scanner to a standard AC power outlet by the AC adapter included.

CHAPTER I. INSTALLING THE SCANNER

Before installing your scanner, please verify that you have all of the proper components. A list of the package contents is provided in the “Box Contents” section of this guide.

SOFTWARE INSTALLATION REQUIREMENTS

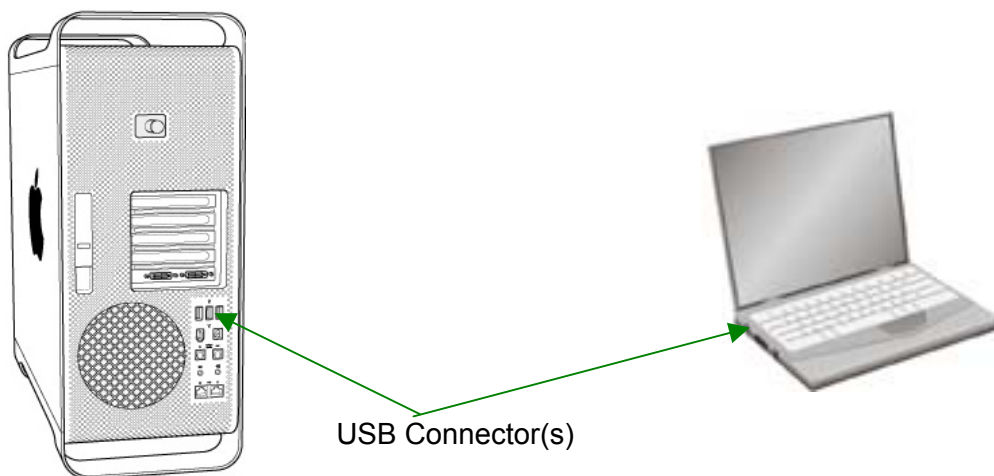
Your scanner comes with the scanner’s driver and the task management software (Plustek MacAction). All of these software applications use approximately 400 megabytes of hard disk space after they are installed into your computer. To ensure ample room for the installation, as well as for scanning and saving images, a minimum of 1 GB of hard disk space is recommended.

The USB scanner can only operate under the Apple Mac OS X 10.12 / 10.13 / 10.14 / 10.15 operating system.

HARDWARE REQUIREMENTS

This scanner connects to your computer through the Universal Serial Bus (USB) which supports HOT PLUG AND PLAY. To determine whether your computer is USB-capable, you must check the rear of your PC to locate a USB jack that looks like the picture below. If you are having trouble in locating the USB port on your computer, please refer to the hardware manual that came with your computer.


Upon examination, you should find one or two rectangular USB ports, which usually appear as shown below.



If you don't find such USB ports on your computer, then you need to purchase a certified USB interface card to add USB capabilities to your computer.

INSTALLING AND SETTING UP THE SCANNER

Please follow the step-by-step procedures described below to install the Plustek scanner.



Attention

Choose a Proper Site First!


- Always place your scanner on a level, smooth and strong surface before proceeding the scanner setup or any scanning task. Tilted or uneven surface may cause paper-feeding errors, scanner damage or personal injury.
- Avoid using the scanner in a dusty environment. Dust particles and other foreign objects may damage the unit.


Step 1. Unlock Your Scanner

This scanner is designed with a locking mechanism to hold the scanning head in place during transportation. Before you connect your scanner with the computer, ensure to unlock your scanner first.

To unlock the scanner, slide the locking switch on the scanner's underside toward the back panel of the scanner until it snaps into place. Refer to the "Standby Mode

To save power consumption, the scanner will enter the standby mode after it is idle for a while. You may disable the standby mode or define an idle time for the scanner to automatically enter the standby mode.

1. Right-click the icon  in the Dock, and then choose **Scanner Utility** in the pop-up menu that opens.
2. In the **Standby Mode** section of the Scanner Utility window that opens, click the button of your option:
 - a. To disable the Standby Mode: Click the button before **Disable Standby Mode**.
 - b. To automatically enter the Standby Mode (Sleep): Click the button before **Sleep** and then click the up or down arrows to set a default time for the scanner to automatically enter the Standby Mode.



Information

You may disable the standby mode or define an idle time for the scanner to automatically enter the standby mode. You may press any scanner button to wake up the scanner from power saving.

3. Click on **OK** button to save settings and exit.

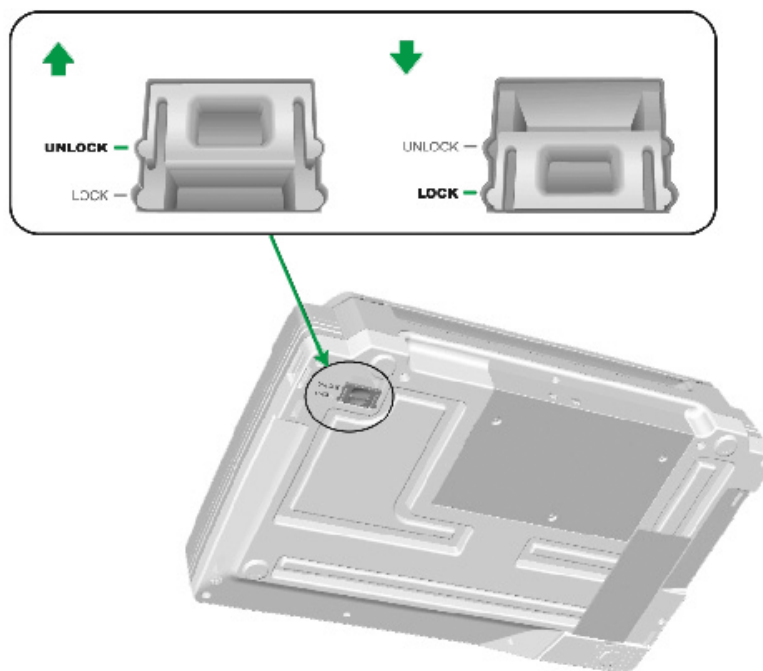


Warning

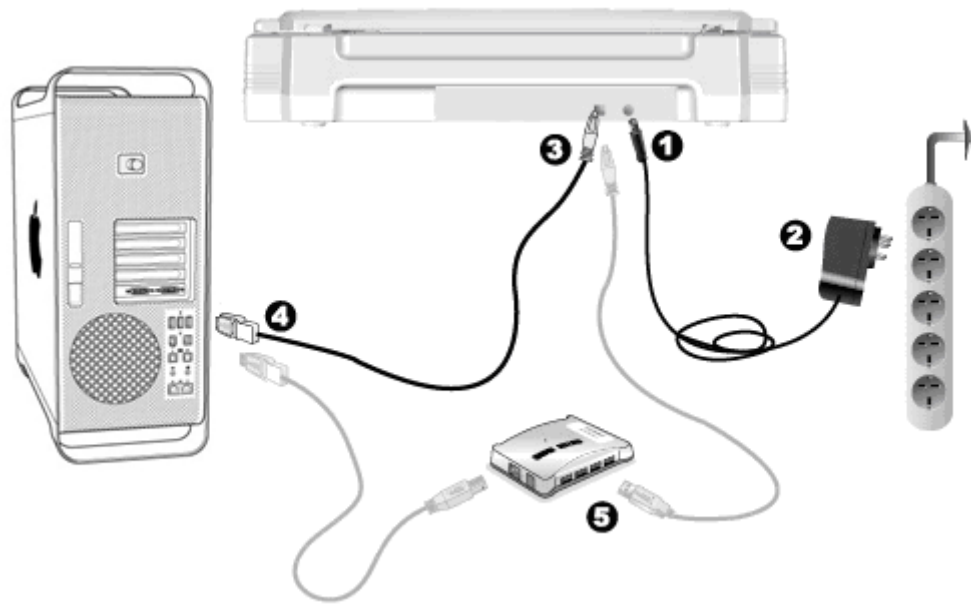
- To completely shut down the scanner, press the power switch on the side of the scanner.
- If the scanner will not be used for a long period of time, shut down the scanner and then disconnect the power cable from the power outlet.

Alternatively you may click **Default** to restore the default settings. You may press any scanner button to wake up the scanner from power saving.

Scanner Lock” section of this guide for more details.



Step 2. Connecting the Scanner to Your Computer




Attention

Please make sure the scanner is turned OFF before you plug or unplug the scanner power adapter.

1. Plug the AC adapter into the scanner's power receptor.
2. Plug the other end of the power cable into a standard AC power outlet.
3. Plug the square end of the included USB cable to the USB port at the rear of the scanner.
4. Plug the rectangular end of the USB cable to an available USB port on your computer.
5. If you plan to connect your scanner to a USB hub⁴, make sure that the hub is connected to the USB port in your computer. Next, connect the scanner to the USB hub.


Step 3. Installing the Software

1. Switch on the scanner power from the side of the scanner.
2. Insert the Mac Setup/Application DVD-ROM, included with your scanner, into your DVD-ROM drive and a **Plustek Scanner** DVD icon  will show on the desktop of your Mac OS X.
3. Double-click on the DVD icon, and a window will pop up displaying the file folder.
4. Double-click on the setup file **Setup**, and the Scanner Installer will start to guide

⁴ The USB hub is not included with the scanner.

you through the installation. Follow the on-screen guide in the installer window.

5. You will be prompted to enter your Mac administrator password. Enter the password to continue the installation. **Note: Only the Mac administrator can perform the installation. Please make sure that you log in the Mac OS as an administrator.**
6. When the installation finishes, click the **Close** button to exit the installer.

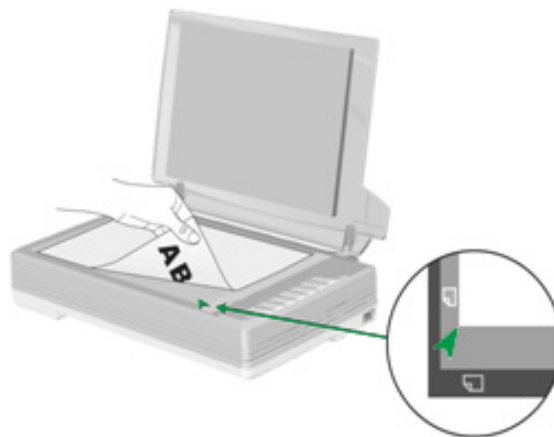
	Save the Setup/Application DVD in case you need to reinstall the driver and software in the future.
Attention	



Step 4. Testing the Scanner

The following describes how you can check if the scanner is properly functioning with your computer and the scanning software. Before testing your scanner, double check to make sure that all connections are securely fastened.

To test the flatbed scanning:

1. Open the scanner's document cover. Place the document onto the scanner glass headfirst and face-down. Align the top left corner of the document with the arrow on the reference mark.



2. Gently close the document cover.
3. Do one of the following to open the Button Configuration window:
 - Click the icon  in the Dock.
 - Right-click the icon  in the Dock, and then choose **Button Configuration** in the pop-up menu that opens.

4. Clicking the **File** icon on the left pane in the Button Configuration window displays its current button settings on the right pane. In the Button Configuration window, keep in mind the default saving folder show in the “Saving folder” dropdown list.
5. Press the **File** button on the scanner and the scanning starts immediately. You’ll see a scanned image of the document in the default saving folder; your scanner is working properly.

CHAPTER II. SCANNING

Your scanner needs to be driven by certain type of software program. Since all documents or images (whether text or pictures) that are acquired from the scanner are treated by your computer as images, most scanning will probably be done from an image-editing program where you can view, edit, save and output the scanned images.

What about scanning text documents and editing them in a word processor? This is the role of Optical Character Recognition (OCR) software. OCR software converts the image files that are created from scanning text documents into text files that can be viewed, edited and saved by word processors.

The MacAction program, seamlessly integrating the operation of your scanner with your computer and other peripherals, provides a quick and convenient way to perform various scanning functions. With MacAction, you don't need to adjust settings every time you scan. Simply press any button on the scanner's front panel or click any scanning menu item of MacAction on the screen. The scanner starts to scan your paper documents and transfer them to your assigned destination. The destination can be a printer, your e-mail program, files on your disk drives, an image-editing program, etc.

Please refer to the online help of each program to guide you through any questions you may have while scanning within that program.

This chapter describes three important steps of scanner operations. Read them thoroughly and follow the instructions to ensure correct use and optimal scanner performance.

Step 1. Preparing Documents

Step 2. Placing Documents

Step 3. Scanning Documents

PREPARING DOCUMENTS

Proper document preparation prior to the scan can prevent paper feed errors and damages to the scanner.

- Checking Document Conditions

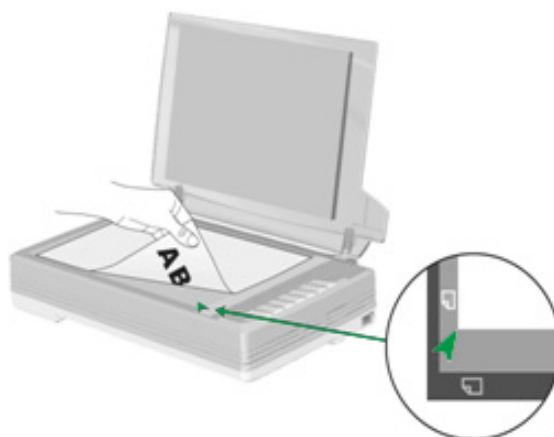
Checking Document Conditions

Make sure the paper sizes of your documents are acceptable by the scanner. Refer to "Appendix A: Specifications4F" of this guide for more information.

PLACING DOCUMENTS

Using the Flatbed

1. Open the scanner's document cover.
2. Place the document onto the scanner glass headfirst and face-down. Align the top left corner of the document with the arrow on the reference mark.



3. Gently close the document cover.

SCANNING DOCUMENTS

There are 3 different ways to operate the scanner:

1. By scanning from the scan buttons on the scanner.
2. By scanning from MacAction's Execute menu on the screen.
3. By scanning from the icon in the left side of the MacAction window.

The MacAction software is automatically installed to your system along with the scanner driver.



Attention

Before you start scanning, check the following:

- Your scanner has been unlocked and the power of both your computer and scanner is turned on.
- Paper is appropriately placed on the scanner flatbed glass.

Scanning from the Scanner's Panel or On-screen MacAction's Execute Menu




The settings for each button on the scanner's panel are configured through MacAction. MacAction offers you quick access to the most frequently-used scanning

functions. They are especially useful when you need to repeatedly scan with the same settings and send images to the same destination.

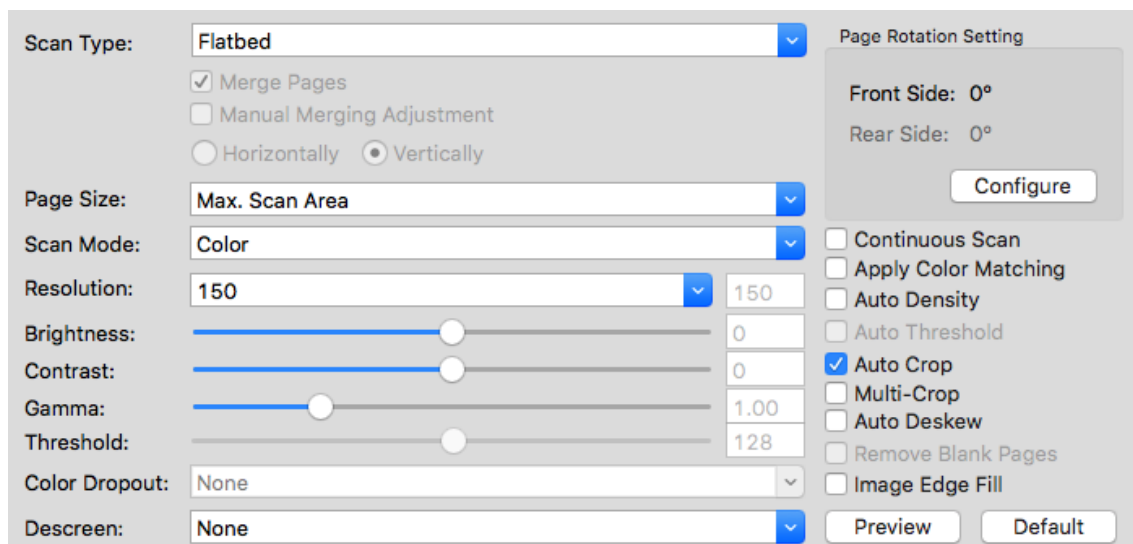
Buttons on the scanner panel will be used in this guide to demonstrate the scanner operations. You may also use MacAction's on-screen Execute menu to perform the same scanning tasks.

Configure Button Settings

Before performing your first scan via scanner buttons, you are recommended to configure the button settings to your needs and preferences first. There are three ways to configure or view the button settings of MacAction:

- Double-click the icon  in **Finder > Applications > Plustek > Your scanner model name**.
- Click the icon  in the Dock.
- Right-click the icon  in the Dock, and then choose **Button Configuration** in the pop-up menu that opens.

Within the “Button Configuration” window, you can find a row of icons running through the left side of the window. Each icon corresponds to a button on your scanner's panel (as well as MacAction's on-screen Execute menu). Clicking any icon on the left pane and its current button settings are displayed immediately on the right pane. You may adjust the settings as desired.

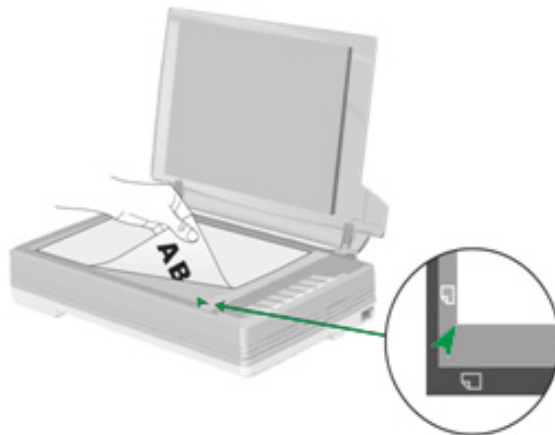


Click the **Help** button within the Button Configuration window for more information about the settings.

Scan from the Buttons

Scanning documents or images from this scanner is very easy. Follow the two steps described below:

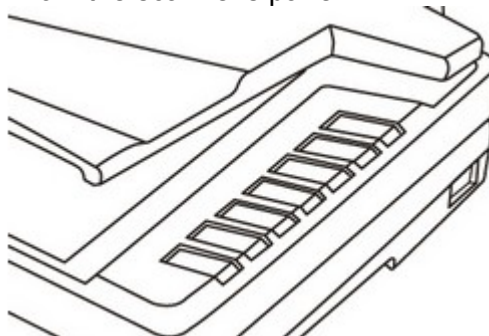
1. Place the document or images onto the scanner. (Refer to “Chapter II. Scanning” of this guide for more information in placing paper on the flatbed glass properly.)




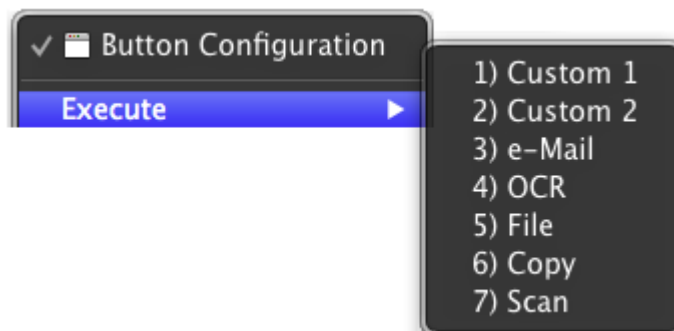
Attention

Place only text documents for OCR purposes. Do not scan a photo using the OCR button.

2. Do one of the following to start scanning:
 - Press the button from the scanner's panel.



- Right-click the icon  in the Dock, and then choose Execute in the pop-up menu that opens. Click the desired button function item in the pop-up menu.

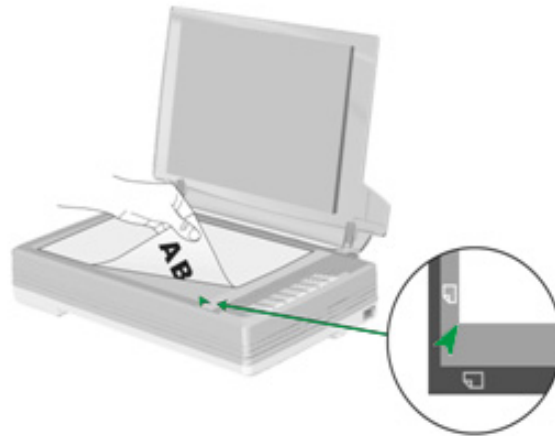


The scanner starts to scan immediately and carry out the corresponding action according to the settings you have set up in the Button Configuration window.

Scanning from the Icon in the Left Side of the MacAction Window

You can perform scanning task by double-clicking the icon in the left side of the MacAction window. Follow the steps described below:

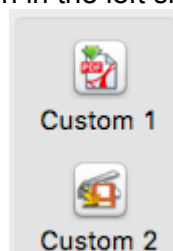
1. Place the document or images onto the scanner.



2. Check current button settings by viewing the Button Configuration window. If needed, you may also modify settings to meet your current needs.

Scan Type:	Flatbed	Page Rotation Setting
<input checked="" type="checkbox"/> Merge Pages		Front Side: 0°
<input type="checkbox"/> Manual Merging Adjustment		Rear Side: 0°
<input type="radio"/> Horizontally <input checked="" type="radio"/> Vertically		<button>Configure</button>
Page Size:	Max. Scan Area	
Scan Mode:	Color	<input type="checkbox"/> Continuous Scan
Resolution:	150	<input type="checkbox"/> Apply Color Matching
Brightness:	<input type="range"/>	<input type="checkbox"/> Auto Density
Contrast:	<input type="range"/>	<input type="checkbox"/> Auto Threshold
Gamma:	<input type="range"/>	<input checked="" type="checkbox"/> Auto Crop
Threshold:	<input type="range"/>	<input type="checkbox"/> Multi-Crop
Color Dropout:	None	<input type="checkbox"/> Auto Deskew
Descreen:	None	<input type="checkbox"/> Remove Blank Pages
		<input type="checkbox"/> Image Edge Fill
		<button>Preview</button> <button>Default</button>

3. Double-clicking the desired icon in the left side of the MacAction window.



The scanner starts to scan immediately and carry out the corresponding action according to settings you have set up in the Button Configuration window.

CHAPTER III. CARE AND MAINTENANCE

Your scanner is designed to be maintenance-free. However, constant care and maintenance can keep your scanner working smoothly.

CLEANING THE SCANNER

Paper powder, dust, ink and toner from paper being scanned may make the scanner glass dirty, which leads to poor image quality or document-feeding errors. How often to clean your scanner depends on the type of paper and number of pages being scanned.

Perform the following procedures to clean the scanner surface and scanner glass. Gently wipe locations described herein. Do not rub too hard.



Warning

- Before cleaning the scanner, turn off the scanner and disconnect the scanner's power cable and USB cable, and then wait a few minutes for the glass to cool to ambient temperature.
- Wash your hands with soap and water after cleaning the scanner.

Cleaning Materials

Have the following cleaning materials ready to clean the scanner:

- **soft, dry, lint-free cloth (or a cotton swab)**
- **non-abrasive cleaner**—Isopropyl alcohol (95%). DO NOT use water.



Attention

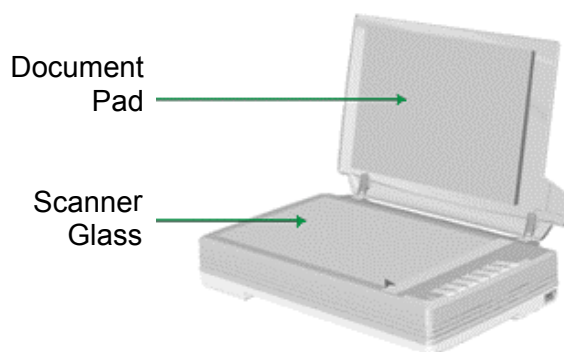
Alternatively you can use glass cleaner or neutral detergent for windows cleaning to clean the scanner glass.

Use of other cleaning materials could damage your scanner.

Cleaning the Flatbed

1. Open the document cover.
2. Gently wipe the following areas with the cloth dampened with the cleaner.

Clean Document Pad & Scanner Glass:




3. Wait for cleaned areas to dry completely.
4. Gently close the document cover.

ALIGNING THE SCANNER


In most cases, the scanner doesn't need to be aligned but there are instances when the alignment might be required. You need to align the scanner only if parts of the scanned document are missing from any of its edges. For example, the heading of a document might be missing from the top edge after the document has been scanned.

Alignment for Flatbed Scan:

1. Place the document onto the scanner glass headfirst and face-down. Align the top left corner of the document with the arrow on the reference mark.
2. Right click the icon  in the Dock and select **Scanner Utility** from the menu that pops up.
3. The Scanner Utility window opens. Find the **Initial Scanning Position Alignment** section and select **Flatbed** as the source.
4. Click the **Scan** button. Part of the document image will be displayed in the Alignment Window.
5. Click the **Alignment Position** buttons (Up, Down, Left, Right) until the top left corner of the scanned document aligns with the top left corner of the Alignment Window.
6. When the alignment completes, click on **OK** button to save settings and exit.

STANDBY MODE

To save power consumption, the scanner will enter the standby mode after it is idle for a while. You may disable the standby mode or define an idle time for the scanner to automatically enter the standby mode.

1. Right-click the icon  in the Dock, and then choose **Scanner Utility** in the pop-up menu that opens.
2. In the **Standby Mode** section of the Scanner Utility window that opens, click the button of your option:
 - a. To disable the Standby Mode: Click the button before **Disable Standby Mode**.
 - b. To automatically enter the Standby Mode (**Sleep**): Click the button before **Sleep** and then click the up or down arrows to set a default time for the scanner to automatically enter the Standby Mode.



Information

You may disable the standby mode or define an idle time for the scanner to automatically enter the standby mode. You may press any scanner button to wake up the scanner from power saving.

3. Click on **OK** button to save settings and exit.



Warning

- To completely shut down the scanner, press the power switch on the side of the scanner.
- If the scanner will not be used for a long period of time, shut down the scanner and then disconnect the power cable from the power outlet.

Alternatively you may click **Default** to restore the default settings. You may press any scanner button to wake up the scanner from power saving.

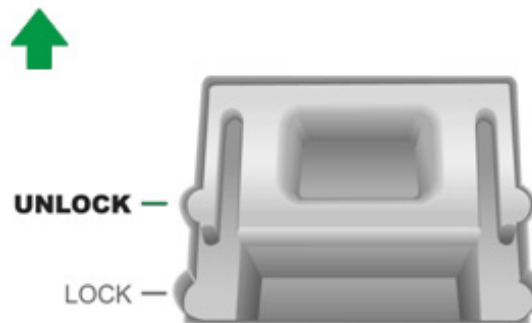
SCANNER LOCK

Your scanner is designed with two different lock statuses to protect the optical parts. To ensure the scanner working properly, you have to choose an appropriate lock status according to the situation.

Always Unlock:

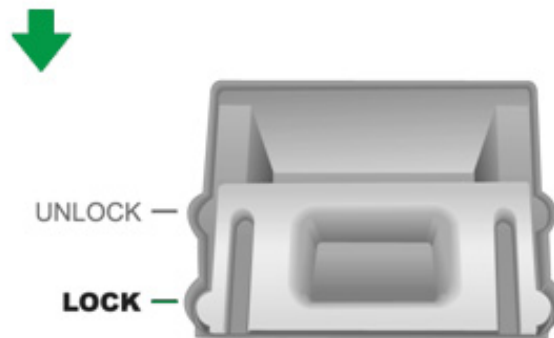
A scanning-ready status. Furthermore, if you place your scanner on a long-term position, you can also keep your scanner lock in this status. To unlock the

scanner, slide the locking switch on the scanner's underside toward the back panel of the scanner until it snaps into place.



Always Lock:

It holds the scanning head in place during transportation and traveling. The scanner will be kept in disabled status. To lock the scanner, slide the locking switch on the scanner's underside toward the power LED of the scanner until it snaps into place.




Warning


When you need to move the scanner, do lock the scanner to ensure accurate and problem-free use of your scanner.

CHAPTER IV. TROUBLESHOOTING

If you encounter problems with your scanner, please review the installation and scanning instructions contained in this guide.

SCANNER CONNECTION

The first step to take when troubleshooting connection problems with your scanner is to check all physical connections. The icon , located on the Dock, indicates if the scanner software is properly launched and the scanner and computer are communicating with each other.

Appearance	Status
	The program has been successfully launched and the scanner is connected with the computer, ready to scan images.
No Display	You have chosen to terminate the program, no matter the scanner is connected or disconnected with the computer.

APPENDIX A: SPECIFICATIONS⁵

Plustek OpticPro A320L	
Image Sensor	CCD
Optical Resolution	1600 dpi
Scan Modes	Color: 48-bit input, 24-bit output Grayscale: 16-bit input, 8-bit output B/W: 1-bit output
Color Depth	Input 48-bit; Output 24-bit
Scanning Speed	7.8 sec (Color/ Grayscale/ B&W mode, 300dpi, A3)
Scanning Area (W x L)	Max. 304.8 mm x 431.8 mm (12" x 17"), A3
Daily Duty Scan (Sheets)	2,500
Action Button	Scan, OCR, Copy, File, Email, Custom1 & Custom2
Power Supply	24 Vdc/ 1.25 A
Power Consumption	≤30 W (operation), ≤2.9 W (idle), ≤0.3 W (standby)
Interface	USB 2.0
Net Weight	7.5 Kgs (16.52 Lbs)
Dimensions (W x D x H)	623 x 400 x 140 mm (24.53" x 15.75" x 5.51")
Protocol	TWAIN Compliant, WIA

⁵ Hardware specifications may change at any time without prior notice.

APPENDIX B: CUSTOMER SERVICE AND WARRANTY

Visit our website www.plustek.com for more customer service information. To avoid delays, please have the following information available:

- Scanner name and model number
- Scanner serial number (located at the bottom of the scanner)
- Scanner DVD version and part number
- A detailed description of the problem
- Your computer manufacturer and its model number
- The speed of your CPU
- Your current operating system and BIOS (optional)
- Name of software package(s), version or release number and manufacturer of the software
- Other USB devices installed

SERVICE & SUPPORT INFORMATION (FOR EU COUNTRY ONLY)

Where appropriate, the period of availability of spare parts and the possibilities of upgrading products information. Please ask local distributors and suppliers for spare parts information and product upgrade information.

Information requested by relevant Implementing Measure. Please ask local distributors and suppliers for the related information of Implementing Measure test report.

Do not dispose anything of products before you ask local distributors and suppliers to get correct information for decreases of environmental impact with right methods and procedures.

If you want to disposals the product and/or an accessory, please ask local distributors and suppliers to get the contact information of nearest disposal manufactures.

If you have any maintenance inquiry, please ask local distributors and suppliers to get the contact information of nearest maintenance center in order to extend the product usage life time.

If you want to maintain and clearance the product, please ask local distributors and suppliers to get the right information of nearest stores.

STATEMENT OF LIMITED WARRANTY

This Statement of Limited Warranty applies only to the options you originally purchase for your use, and not for resale, from an authorized reseller.

The manufacturer warranty includes all parts and labor, and is not valid without the receipt of original purchase. To obtain warranty service, you may contact the authorized dealer or distributor, or visit our website to check out the available service information, or send a request via E-mail for further help.

If you transfer this product to another user, warranty service is available to that user for the remainder of the warranty period. You should give your proof of purchase and this statement to that user.

We warrant that this machine will be in good working order and will conform to its functional descriptions in the documentation provided. Upon provision of proof of purchase, replacement parts assume the remaining warranty of the parts they replace.

Before presenting this product for warranty service, you must remove all programs, data and removable storage media. Products returned without guides and software will be replaced without guides and software.

This Limited Warranty service does not provide for carry-in exchange when the problem results from accident, disaster, vandalism, misuse, abuse, unsuitable environment, program modification, another machine or non-vendor modification for this product.

If this product is an optional feature, this Limited Warranty applies only when the feature is used in a machine for which it was designed.

If you have any questions about your Limited Warranty, contact the approved retailer from whom you bought the product or the manufacturer.

THIS LIMITED WARRANTY REPLACES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. HOWEVER, SOME LAWS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES. IF THESE LAWS APPLY, THEN ALL EXPRESS AND IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. NO OTHER WARRANTIES APPLY AFTER THAT PERIOD.

Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply.

Under no circumstances are we liable for any of the following:

1. Third party claims against you for losses or damages.
2. Loss of, or damage to, your records or data; or
3. Economic consequential damages (including lost profits or savings) or incidental damages, even if we are informed of their possibility.

Some jurisdictions do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Limited Warranty gives you specific legal rights, and you may also have other rights that vary from jurisdiction to jurisdiction.

FCC RADIO FREQUENCY STATEMENT

This equipment 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 radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular 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 to an outlet on a circuit different from that which the receiver is connected.
- Shielded interconnect cables and shielded power cord which are supplied with this equipment must be employed with this equipment to ensure compliance with the pertinent RF emission limits governing this device.
- Consult the dealer or an experienced radio/TV technician for help if the conditions persist.
- Changes or modifications not expressly approved by the manufacturer or authorized service center could void the user's authority to operate this 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.