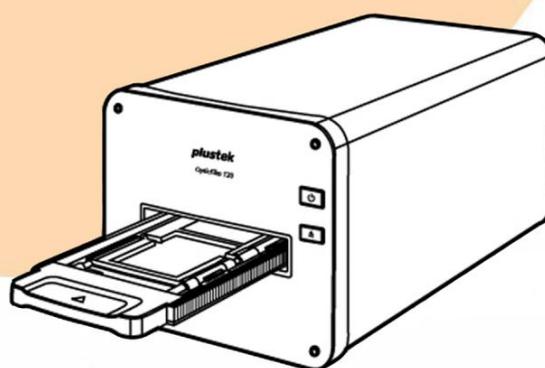


# *Scanner User's Guide*

**plustek**



## *OpticFilm 120*

- ✓ **Installation**
- ✓ **Usage & Maintenance**
- ✓ **Troubleshooting**

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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 Windows 7. If you are using Windows XP / Vista, your screen will look somewhat different but functions the same.

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# Introduction

Welcome to the world of Plustek scanners – the ultimate in computer imaging. Your new scanner will improve the professionalism of your day-to-day computing tasks by allowing you to input images 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.

Thank you for choosing us as your scanner supplier. 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

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This User's Guide provides instructions and illustrations on how to install and operate your scanner. This guide assumes the user is familiar with Microsoft Windows. If this is not the case, we suggest you learn more about Microsoft Windows by referring to your Microsoft Windows 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 scanner's software and connect the scanner to your computer.

Chapter II describes how to operate the scanner.

Appendix A contains technical support information that can help you solve simple problems. Before calling for help, please read through Appendix A: Troubleshooting.

Appendix B contains the Specifications of the scanner you purchased.

Appendix C contains our limited warranty agreement and FCC statement concerning the product.

## A Note about Icons

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

 <b>Danger</b>	<b>Danger:</b> A procedure that must be followed carefully to prevent injury, or accidents.
 <b>Caution</b>	<b>Caution:</b> Information that, if not followed, may result in data loss or damage to the product.
 <b>Attention</b>	<b>Pay Special Attention:</b> Instructions that are important to remember and may prevent mistakes.

## Safety Precautions

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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 not use the power adapter and USB cable provided with the scanner. Use of other power adapter and cables may lead to malfunction.
3. Keep the space around the AC adapter 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 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 as it is fragile and could break.

8. Before installing the device drivers, please disconnect all other imaging devices (other scanners, printers, digital cameras, web cameras) from the PC.
9. Save the Setup/Application CD, the SilverFast DVD and DVD-ROM case. You may need to reinstall the driver and software in the future.
10. Please make sure your hands are clean before handling slides and negatives. If there is dust on your film material, please clean it by blowing it off or wiping with non-abrasive cloth.
11. Please keep your slides and negatives in a cool, dry place out of direct sunlight. Handle with care as improper storage and handling can lead to deterioration and ultimately affect your scan results.

## **System Requirements<sup>1</sup>**

---

### **Windows**

- 2 GHz CPU or above
- 2 GB RAM (4 GB RAM recommended)
- 10 GB Free Hard Disk Space
- CD/DVD Drive or Internet Connection
- USB Port
- Microsoft Windows XP / Vista / 7

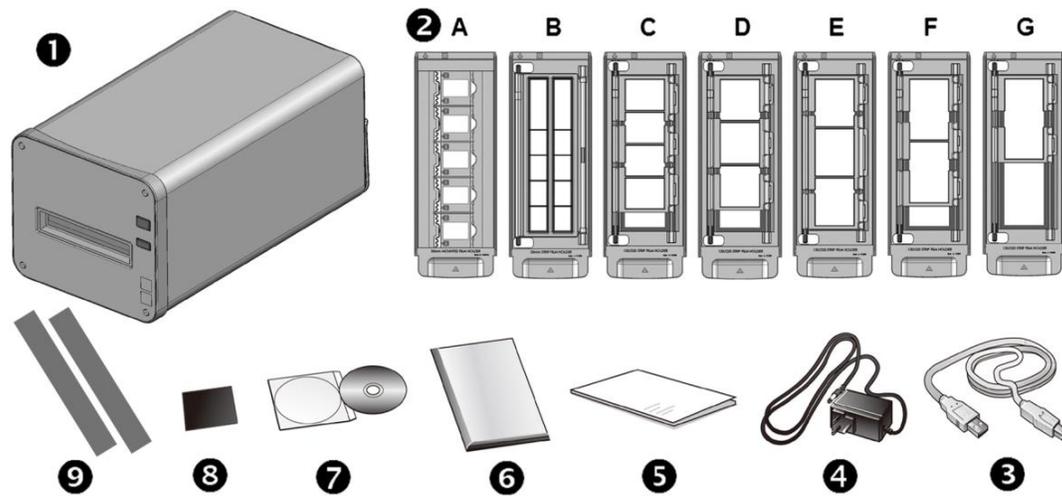
### **Macintosh**

- 2 GHz CPU or above (INTEL based CPU, NO PowerPC)
- 2 GB RAM (4 GB RAM recommended)
- 10 GB Free Hard Disk Space
- CD/DVD Drive or Internet Connection
- USB Port
- Mac OS X 10.5 / 10.6 / 10.7

---

<sup>1</sup> Higher requirements might be needed when you scan or edit 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 Contents<sup>2</sup>



- ❶ Scanner
- ❷ Mounted Slide Holder and Filmstrip Holder
  - A. For scanning 35mm mounted slides (max. 5 slides)
  - B. For scanning 35mm filmstrips (max. 12 frames)
  - C. For scanning 120/220 6x4.5 filmstrips (max. 4 frames)
  - D. For scanning 120/220 6x6 filmstrips (max. 3 frames)
  - E. For scanning 120/220 6x7 filmstrips (max. 3 frames)
  - F. For scanning 120/220 6x9 filmstrips (max. 2 frames)
  - G. For scanning 120/220 6x12 filmstrips (max. 1 frame)
- ❸ USB Cable
- ❹ Power Adapter
- ❺ Quick Guide
- ❻ LaserSoft SilverFast DVD-ROM & Serial Number
- ❼ Setup / Application CD-ROM
- ❽ 6x7 IT-8 Target
- ❾ Masking Sheet x2

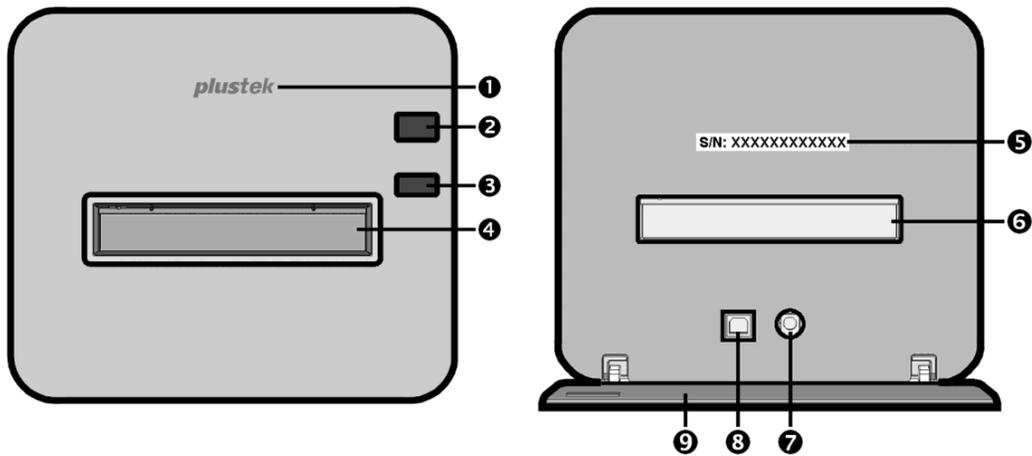
 <b>Attention</b>	The SilverFast serial number is located on the front of the SilverFast DVD-ROM case.	
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<sup>2</sup> Save the box and packing materials in case you need to transport this scanner in the future.

Box contents may change at any time without prior notice.

## Scanner Overview

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- ❶ **Logo LED:** It indicates the scanner status.
- ❷ **Power Button:** Press the button to turn the scanner ON or wake it up from standby mode. Press and hold the button for 3 seconds to turn the scanner OFF.
- ❸ **Eject Button:** Use this to eject the currently inserted film holder.
- ❹ **Front Film Holder Slot:** Insert the film holder into the scanner through dust cover.
- ❺ **Serial Number Sticker:** You will need it when you contact your dealer or our service center in the future.
- ❻ **Rear Film Holder Slot:** Manually remove the Film Holder through the Rear Film Holder Slot if it does not eject through the front automatically.
- ❼ **Power Receptor:** It connects the scanner to a standard AC power outlet by the included power adapter.)
- ❽ **USB Port:** It connects the scanner to a USB port on your computer by the included USB cable.
- ❾ **Protection Cover:** Protects the Rear Film Holder Slot, the Power Receptor and USB Port. Open the Protection Cover to use the scanner.

## LED Indicator

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The Power button LED and Logo LED indicate different scanner status.

Logo LED (blue)	Power button LED (orange)	Status
On	Off	The scanner is turned on and operating normally.
On	Blinking	The film holder has been ejected and can be removed.
Off	On	The scanner is in standby mode.
Off	Off	The scanner is off, either because the power is not turned on, or because the AC adapter is not properly plugged into an AC power outlet.

## Film Holders

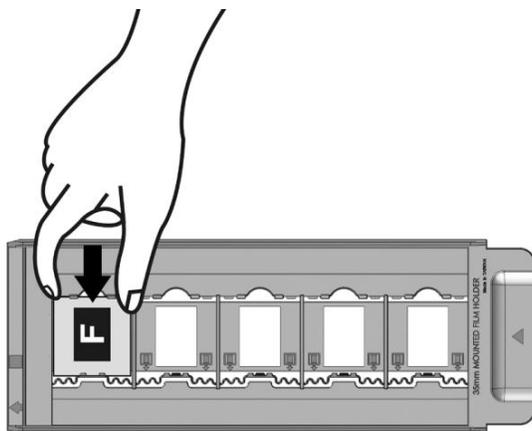
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Several film holders are included in the package. They guarantee correct scanning results.

### Using Mounted Slide Holder

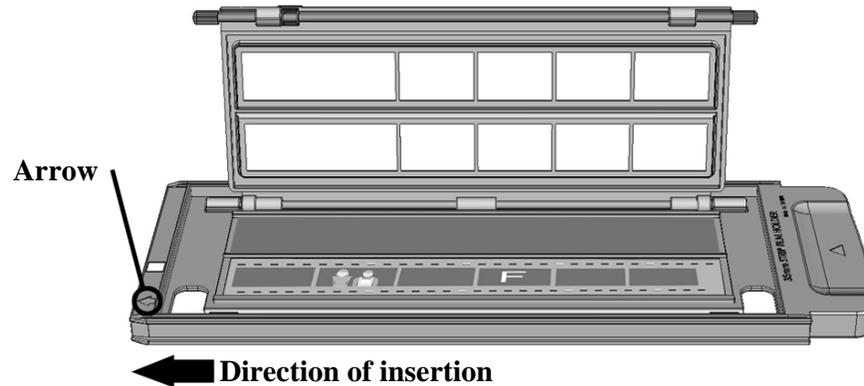
Insert mounted slides into slots with emulsion (non-glossy) side down.

There are arrows and illustrations on the frame of each slot. Please follow the illustrations to insert the mounted slides.



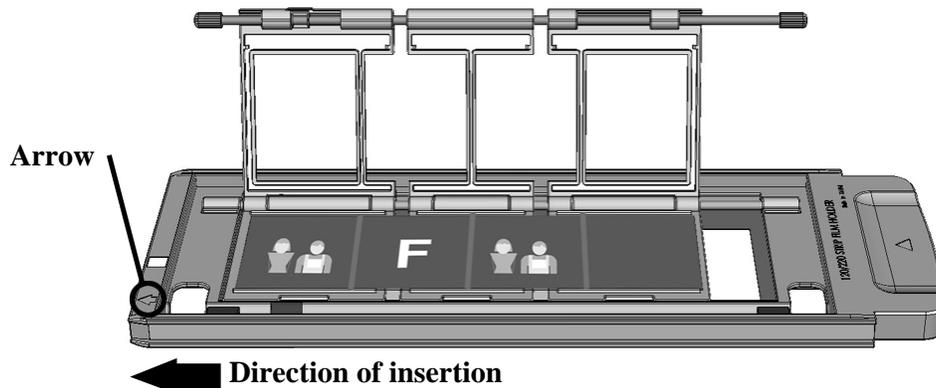
## Using 35mm Filmstrip Holder

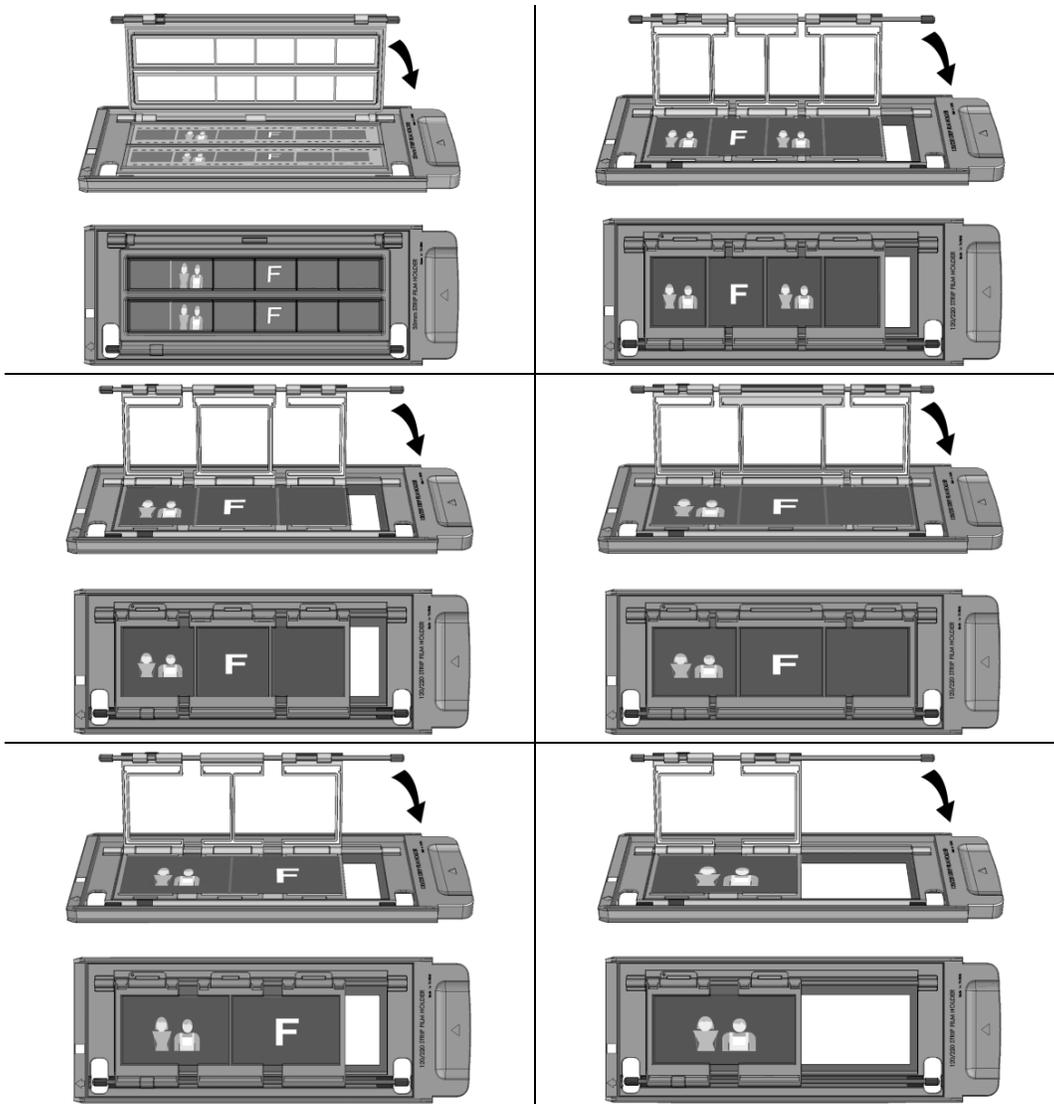
Open the film holder and place the filmstrip in the film holder with the emulsion (non-glossy) side down. Always align the film towards the direction of insertion. The direction of insertion is indicated by a white square and an arrow. When scanning a single filmstrip or filmstrips of different lengths, please use the included masking sheets to cover any open frames, then close the film holder cover.



## Using 120/220 Filmstrip Holder

Open the film holder and place the filmstrip in the film holder with emulsion (non-glossy) side down. Always align the film towards the direction of insertion. The direction of insertion is indicated by a white square and an arrow. Adjust the individual frames to fit the size of the images on your film, then close the film holder cover.





## Power Save

To save power consumption, the scanner light source always automatically turns itself off after the scanning process is finished. The scanner will enter the standby mode after it is idle for a few minutes. Simply press the power button on the scanner and the scanner will return to the normal status.

Scanner	USB cable	Computer	Software	Idle time
On	Disconnected	Off	Off	5 minutes
On	Connected	Off	Off	5 minutes
On	Connected	On	Off	5 minutes <sup>3</sup>
On	Connected	On	On	15 minutes

<sup>3</sup> If a film holder is inserted, the scanner will not enter standby mode.

## Maintenance

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### Caution

To keep your scanner working smoothly, take a moment to review the following maintenance tips.

- Avoid using the scanner in a dusty environment. When it is not in use, keep the scanner covered. Dust particles and other foreign objects may damage the unit.
- Do not attempt to disassemble the scanner. There is danger of an electrical shock and opening your scanner will void your warranty.
- Do not subject the scanner to excessive vibration. It may damage the internal components.

Your scanner operates best in temperatures between 10° C to 40° C (50° F to 104° F).

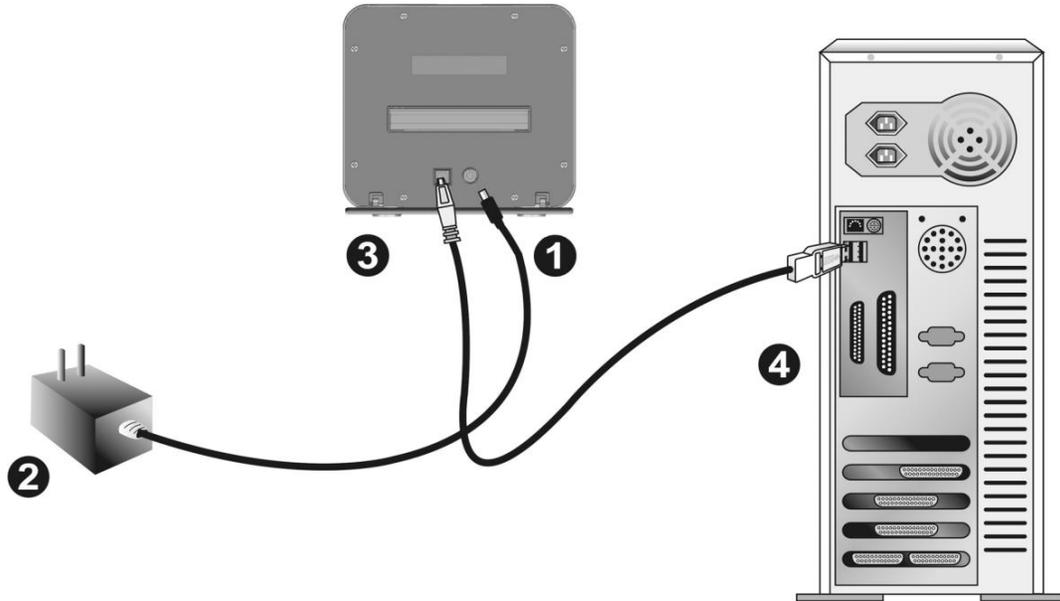
# Chapter I. Installing the Scanner

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.

## Installing and Setting up the Scanner

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

### Step 1. Connecting the Scanner to Your Computer



#### Attention

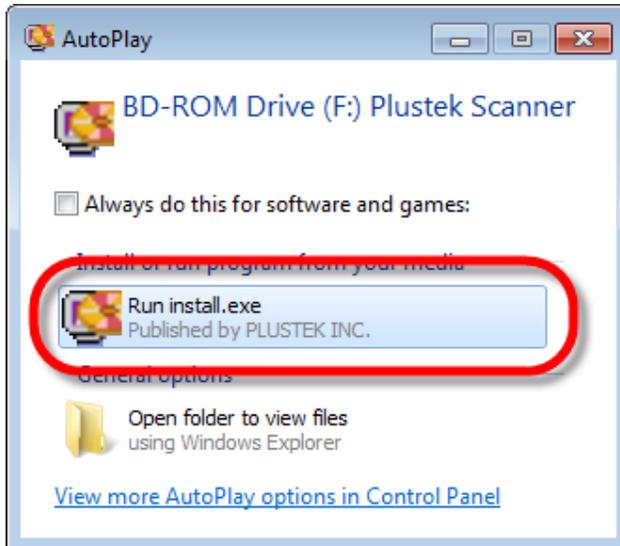
Please allow about 12cm of space behind the scanner to open the Protection Cover.

- 1 Plug the power adapter into the scanner's power receptor.
- 2 Plug the other end of the power adapter 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 the USB port on the back of your computer.

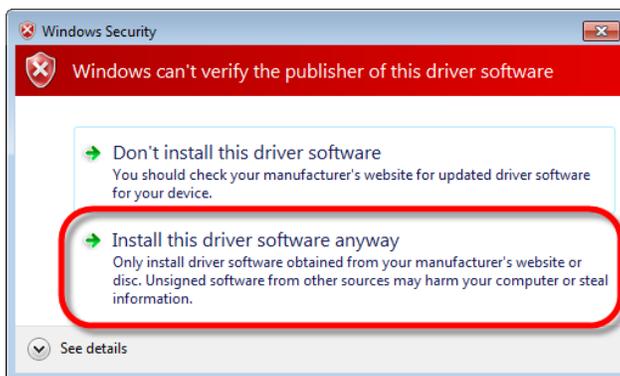
**Note:** If there is another USB device connected to the computer, connect the scanner to an available USB port.

## Step 2. Installing the Software

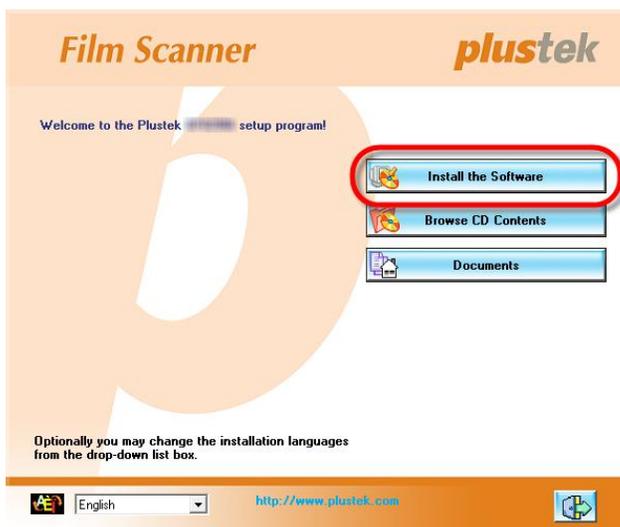
### Windows Installation



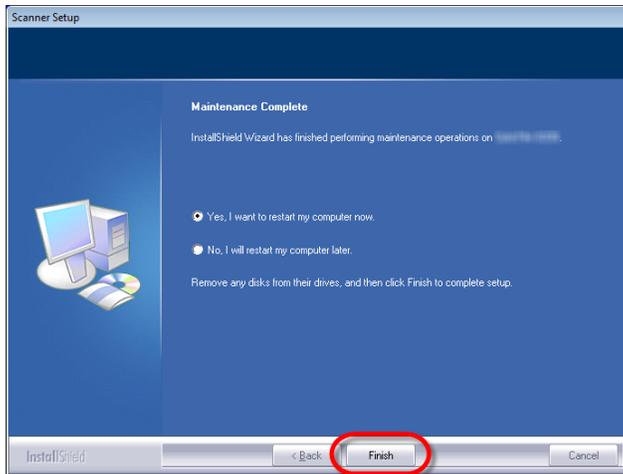
1. Insert the Setup/Application CD-ROM, included with your scanner, into your CD-ROM drive. Click [Run install.exe] in the [AutoPlay] window. If the installation does not start automatically, browse your CD-ROM drive and manually run the [install.exe] file.



2. Click on the [Yes] button if the [User Account Control] dialog pops up. If the pop-up wizard window appears click [Next], and click [Install this driver software anyway] in the [Windows Security] window then click [Finish] in the wizard window.



3. Follow the on-screen instructions to install all software that your new USB scanner requires.

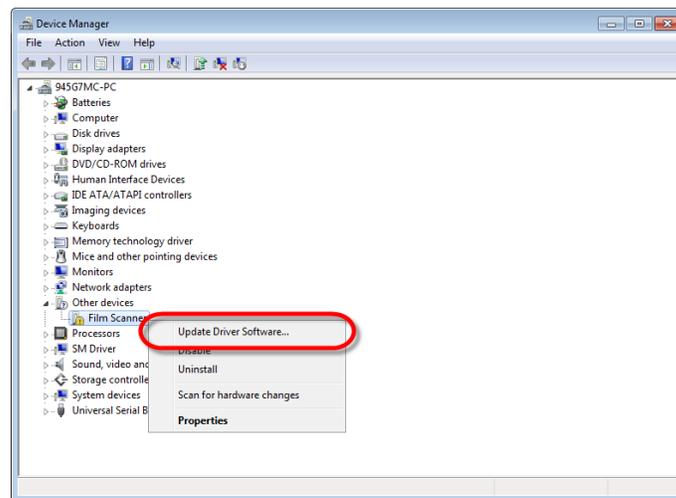


4. After the software is installed, close all open applications and click on the [Finish] button to restart your computer.

 <b>Attention</b>	For Windows XP / Vista, please follow the on-screen installation instructions after connecting the scanner.
---	---

## Manually Installing the Software

1. Please open [Start] > [Control Panel] > [System] > [Hardware] > [Device Manager]. (from FAQ) In the [Device Manager] window, right-click on this scanner under [Other devices] and select [Update Driver Software] from the pop-up menu.

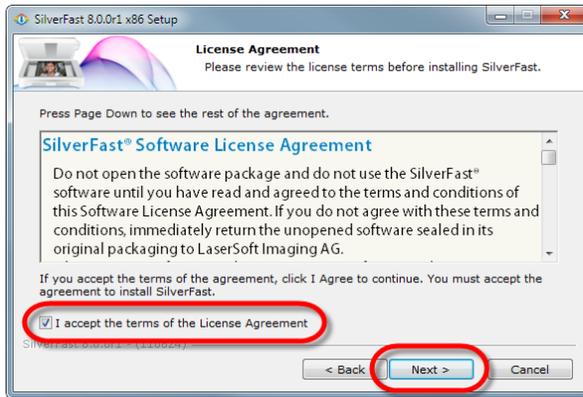


2. Click [Browse my computer for driver software] in the window that appears, and click the [Browse] button. In the [Browse For Folder] window, select the folder or the CD-ROM drive that contains this scanner's driver and click the [OK] button to return to the previous screen. Click the [Next] button and click [Install this driver software anyway] if the [Windows Security] window appears.

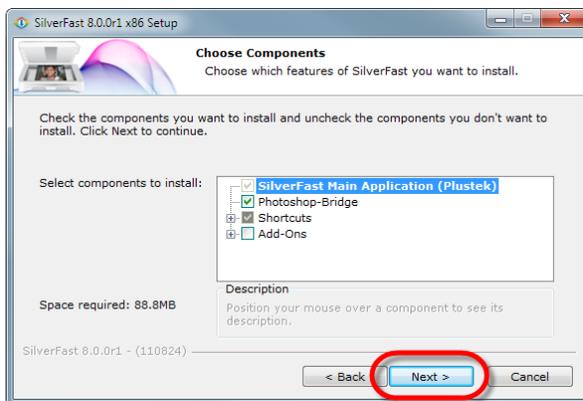
3. Browse your CD-ROM drive and manually run the [install.exe] file. Click on the [Yes] button if the [User Account Control] dialog pops up. Follow the on-screen instructions to install all software that your new USB scanner requires.

## Installing SilverFast Software under Windows

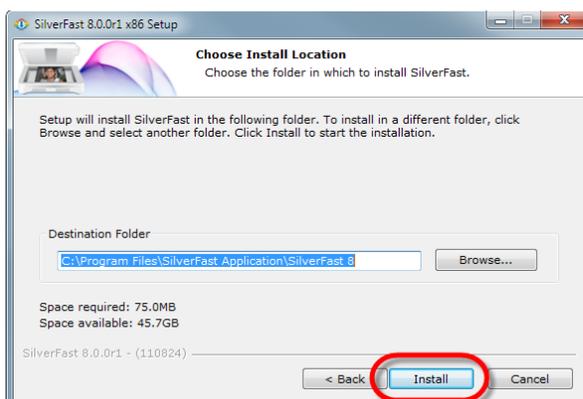
Your scanner comes with the advanced and feature rich scanning application SilverFast. Please insert the SilverFast DVD into your optical drive and click on [Run InstallPilot.exe] to launch the installation assistant, then follow below illustrated guide to install the application:



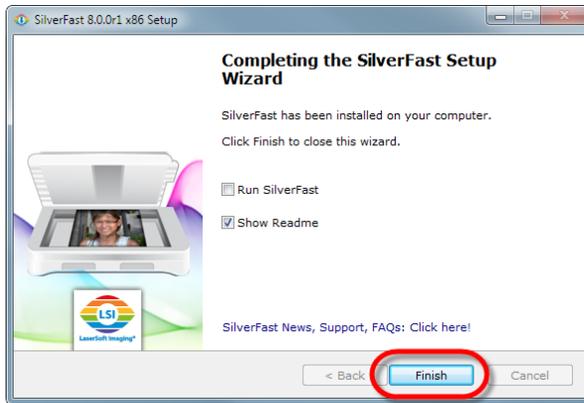
1. Follow the on-screen instructions. Please activate the [I accept the terms of the License Agreement] checkbox and click on [Next] to continue.



2. Please select the components to install by activating the respective checkbox. Then click on [Next] to continue.



3. If you wish to install the application to an alternate folder, please enter the exact path in the [Destination Folder] field or click on [Browse...] to choose a folder using the dialog. Then click on [Install] to continue.



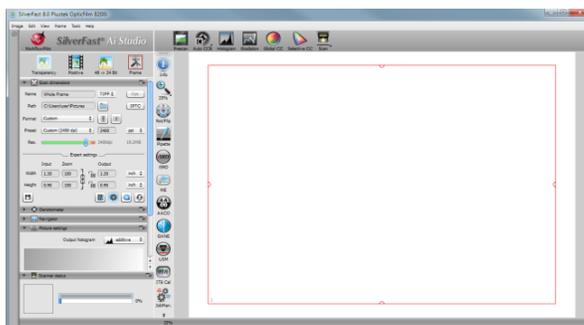
4. After the installation finishes, please activate the option you wish to execute, then click on [Finish] to exit the installer.



5. Launch the SilverFast program using the SilverFast shortcut on your Desktop. Verify your [Image Source] and [Language selection], then click on [Start] to launch the program.



6. Once the program has been launched, enter your [First name], [Last name] and [Serial number], then click on [Unlock] to unlock SilverFast. Keep the SilverFast DVD in the computer until you have unlocked SilverFast. The SilverFast serial number is located on the front of the SilverFast DVD-ROM case.



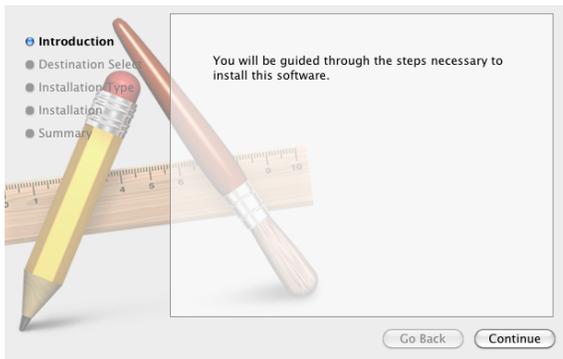
7. Please wait while the program is being launched. This is what the main interface of the SilverFast application looks like.

## Mac OS X Installation

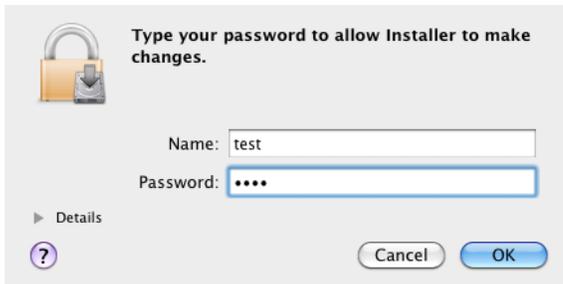
1. Insert the Setup/Application CD-ROM, included with your scanner, into your CD-ROM drive and a [Film Scanner] CD icon  will show on the desktop of your Mac OS X.

2. Double-click on the CD icon, and an installation disk [Mac Driver]  will appear on the desktop and a window will pop up displaying the file folder.

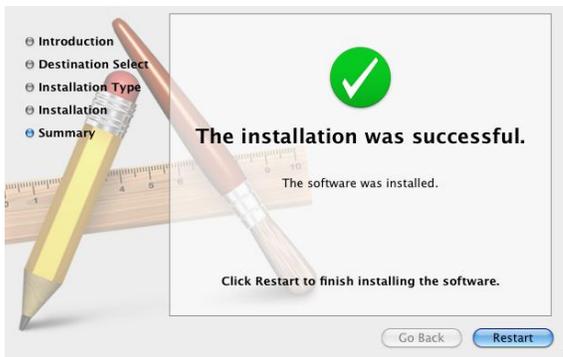
3. Open the folder in which you will find the setup file [Film Scanner Setup]



4. Double-click on the setup file [Film Scanner Setup], and the Scanner Installer will start to guide you through the installation. Follow the on-screen guide in the installer window.



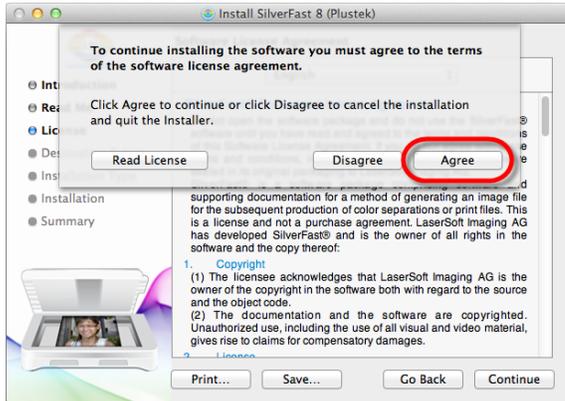
5. You will be prompted to enter your Mac administrator password in the way. Enter the password to continue the installation. **Note: Only the Mac administrator can perform the installation. Please make sure that you log in the Mac OS as an administrator.**



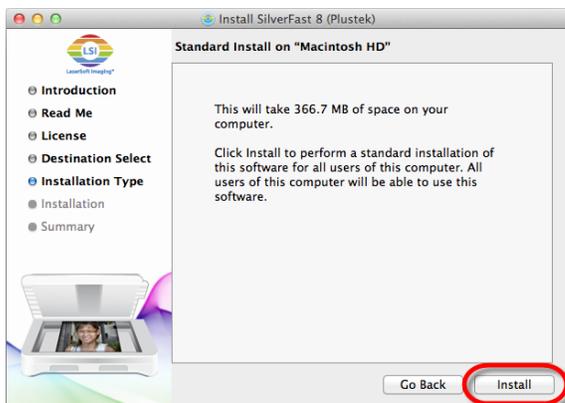
6. When the installation finishes, click the [Restart] button to restart your computer.

## Installing SilverFast Software under Mac OS X

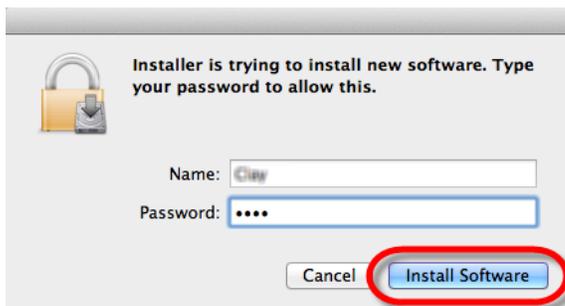
Your scanner comes with the advanced and feature rich scanning application SilverFast. Please insert the SilverFast DVD into your optical drive and double-click on [SilverFast InstallPilot] to launch the installation wizard, then follow below illustrated guide to install the application:



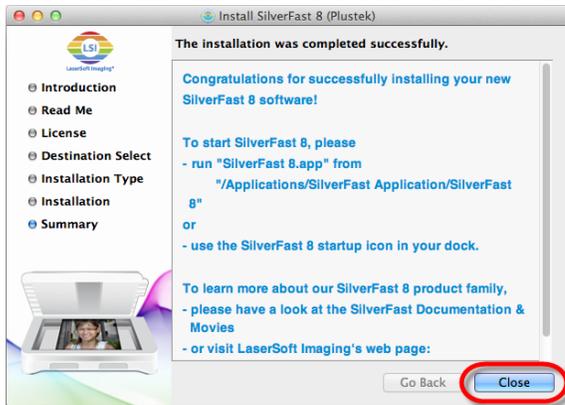
1. Follow the on-screen instructions. When prompted to agree to the terms of the software license agreement, click on [Agree] to do so.



2. Click on [Install] to begin installing the application.



3. Enter the [Password] of the current user account when prompted, then click on [Install Software] to continue.



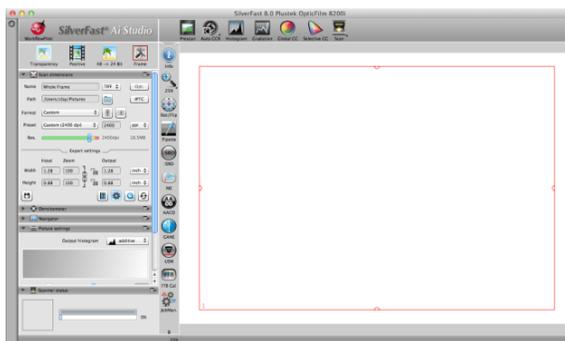
4. After the installation finishes, click on [Close] to exit the installer.



5. Launch the SilverFast launcher using the SilverFast shortcut on your Desktop. Verify your [Image Source] and [Language selection], then click on [Start] to launch the program.



6. Once the program has been launched, enter your [First name], [Last name] and [Serial number], then click on [Unlock] to unlock SilverFast. Keep the SilverFast DVD in the computer until you have unlocked SilverFast. The SilverFast serial number is located on the front of the SilverFast DVD-ROM case.



7. Please wait while the program is being launched. This is what the main interface of the SilverFast application looks like.

## Chapter II. Operating the Scanner

Your scanner accepts 35mm slides and negatives, as well as 120/220 film. However, some software programs have limitations as to the information they can handle. The capacity of the computer's memory and free space on your hard drive can also limit the physical size of the film that you scan.

Your scanner comes with the advanced and feature rich scanning application SilverFast. This stand alone program allows you to perform advanced scanning features (such as batch scanning).

### Step 1. Turn on Your Scanner

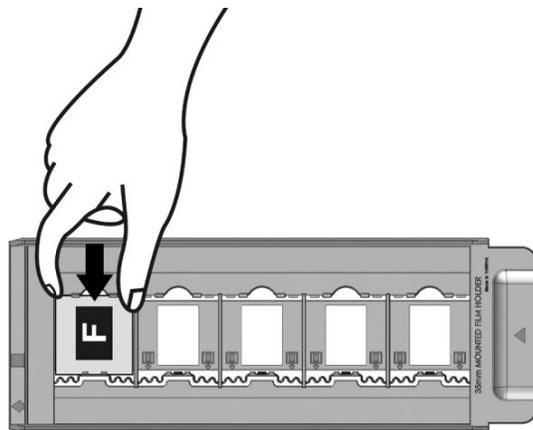
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Please make sure the scanner's USB and power cables are properly connected and that the scanner is turned on by pressing the power button. The Logo LED will turn on to indicate that the device is powered on.

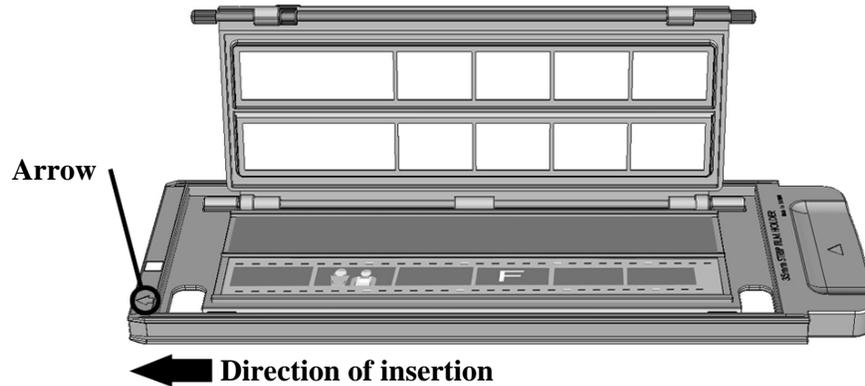
### Step 2. Place Film in the Holder

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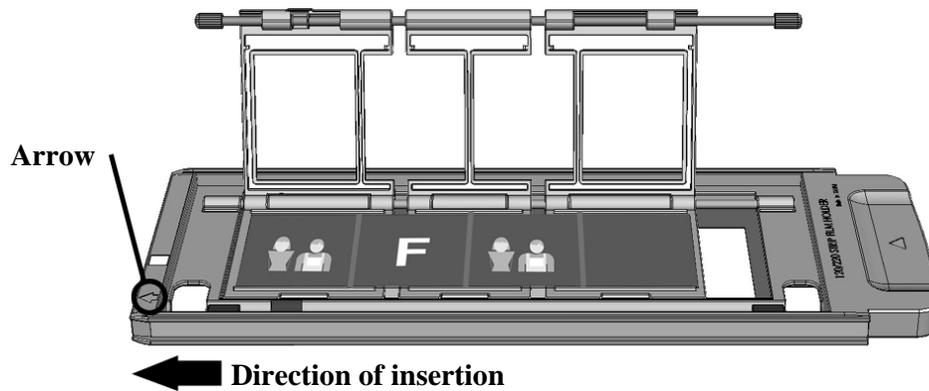
Please use the included mounted slide holder and filmstrip holder to secure your slides and film for scanning. Insert mounted slides into slots with emulsion (non-glossy) side down.



Open the film holder and place the filmstrip in the film holder with the emulsion (non-glossy) side down. Always align the film towards the direction of insertion. The direction of insertion is indicated by a white square and an arrow. When scanning a single filmstrip or filmstrips of different lengths, please use the included masking sheets to cover any open frames, then close the film holder cover.



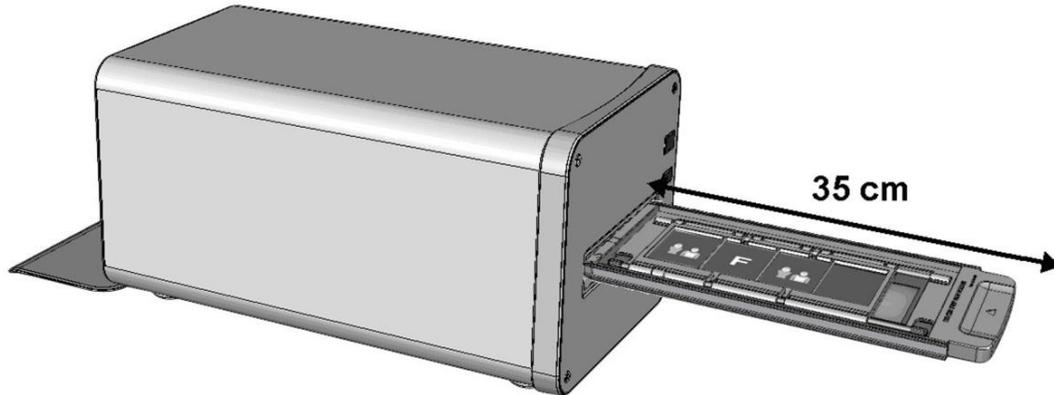
Open the film holder and place the filmstrip in the film holder with the emulsion (non-glossy) side down. Always align the film towards the direction of insertion. The direction of insertion is indicated by a white square and an arrow. Adjust the individual frames to fit the size of the images on your film, then close the film holder cover.

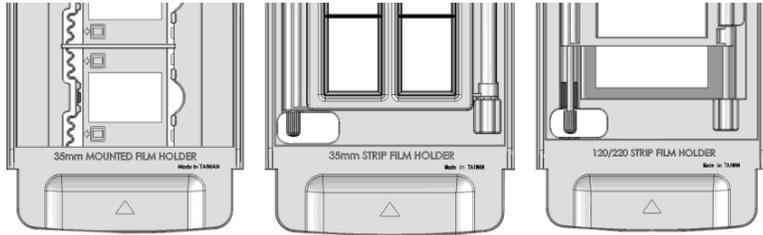


### Step 3. Insert the Film Holder

Insert the film holder into the scanner through the Front Film Holder Slot until it is automatically pulled in by the scanner. The scanner will not pull in the film holder if the USB cable is disconnected.

Please allow about 35 cm in front of the scanner to insert and remove the film holder.



 <b>Attention</b>	<ul style="list-style-type: none"><li>• The film holder should be able to be inserted into the scanner smoothly. Do not push the film holder hard.</li><li>• On the top side of the film holder you can see '35 mm Mounted Film Holder' or '35 mm Strip Film Holder' or '120/220 Strip Film Holder'. Always keep this side up for correct scan results.</li></ul> 
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### Step 4. Scan with the SilverFast application

Launch the SilverFast launcher using the SilverFast shortcut on your Desktop. Adjust the scan settings. Please refer to the SilverFast manual for more information about available scan settings.

# Appendix A: Troubleshooting

## Scanner Connection

The first step to take when troubleshooting connection problems with your scanner is to check all physical connections.

## Scanning Problems

Most problems are easily solved, and some of the most common questions and their recommended solutions are listed below.

Symptom	Cause & Solution
The scanner cannot be found	<ul style="list-style-type: none"><li>• <b>The USB cables are not connected properly</b> Make sure that the cables are connected tightly and to the proper port.</li><li>• <b>The USB cable might be too long</b> Please use the USB cable that comes with your scanner.</li><li>• <b>The scanner's power cord is not connected properly</b> Make sure that the AC adapter is connected to an outlet. If the scanner is connected to a Surge Protector, make sure that the Surge Protector is turned on.</li><li>• <b>Windows didn't detect the scanner</b><ol style="list-style-type: none"><li>1) Please open [Start] &gt; [Control Panel] &gt; [System] &gt; [Hardware] &gt; [Device Manager].</li><li>2) Please check if your scanner is properly listed under [Imaging Devices]. If it is not listed there or the device icon has an exclamation mark, please refer to "<b>Manually Installing the Software</b>" to install the device drivers.</li></ol></li></ul>
The film holder is stuck inside the scanner	<ul style="list-style-type: none"><li>• <b>The scanner's power or USB cable got disconnected during the scan or some other error cause the scan to fail while the scanner was scanning</b> Disconnect and reconnect the power and USB cables to the scanner. The scanner will attempt to eject any inserted film holder automatically when turned on. If the film holder is not ejected automatically, please eject the film holder by pushing it through the device until it can be removed from the Rear Film Holder Slot. Please allow about 35 cm behind the scanner to remove the film holder.</li></ul>

<p>The film holder is automatically ejected</p>	<ul style="list-style-type: none"> <li>• <b>You pressed the power button to bring the scanner out of standby mode or you just connected the USB cable after accidentally disconnecting it</b> The scanner will eject any inserted film holder when coming out of standby mode or when connection with a computer has been established. This behavior is normal</li> </ul>
<p>The film holder is not pulled into the scanner</p>	<ul style="list-style-type: none"> <li>• <b>The scanner and computer are not connected via USB cable</b> Please make sure the scanner and your computer are connected via USB cable. The scanner will not pull in the film holder if the USB cable is disconnected.</li> </ul>
<p>The scanner scans very slowly</p>	<ul style="list-style-type: none"> <li>• <b>You are running other applications in the background</b> Close all the other applications that are running in the background.</li> <li>• <b>You are scanning at a high resolution (DPI)</b> Reduce the resolution.</li> </ul>
<p>There is a grinding or rattling noise at the beginning of each scan</p>	<ul style="list-style-type: none"> <li>• <b>The scanner engages the gears and it initializes itself before scanning</b> This noise is normal to the operation of the scanner.</li> </ul>

## Appendix B: Specifications<sup>4</sup>

<b>OpticFilm 120</b>	
Image Sensor	CCD
Light Source	LED
Hardware Resolution	Maximum Input : 10600 dpi Maximum Output : 5300 dpi
Scan Modes	Color: 48-bit input, 24/48-bit output Grayscale: 16-bit input, 8/16-bit output
Dynamic Range	4.8
Infrared	Built-in
Scanning Area (W x L)	60 mm x 120 mm
IT8 Target	Included for color accuracy
Power Supply	24 Vdc / 0.75 A
Interface	USB 2.0
Net Weight	Approx. 5.7 Kgs
Dimensions (W x D x H)	210 x 374 x 189 mm

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<sup>4</sup> Hardware specifications may change at any time without prior notice.

# Appendix C: Customer Service and Warranty

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

Visit our website [www.plustek.com](http://www.plustek.com) for more customer service information. For further assistance call our customer support phone number listed on the website. One of our representatives will be happy to assist you from Monday through Friday in office working hours as shown below:

Europe	9:00 a.m. – 5:30 p.m. (CET)
Other Countries or Areas	9:00 a.m. – 6:00 p.m. Taiwan Time

To avoid delays, please have the following information available before calling:

- **Scanner name and model number**
- **Scanner serial number (located at rear of scanner near port connectors)**
- **A detailed description of the problem**
- **Your computer manufacturer and its model number**
- **The speed of your CPU (Pentium 133, etc.)**
- **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

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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 programmes, 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, programme 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:

- Third party claims against you for losses or damages.
- Loss of, or damage to, your records or data; or
- 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.

To obtain the warranty service, you may:

- contact the authorized dealer or distributor.
- visit our website to check out the up-to-date service.
- send a request via E-mail for further help.

## **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.