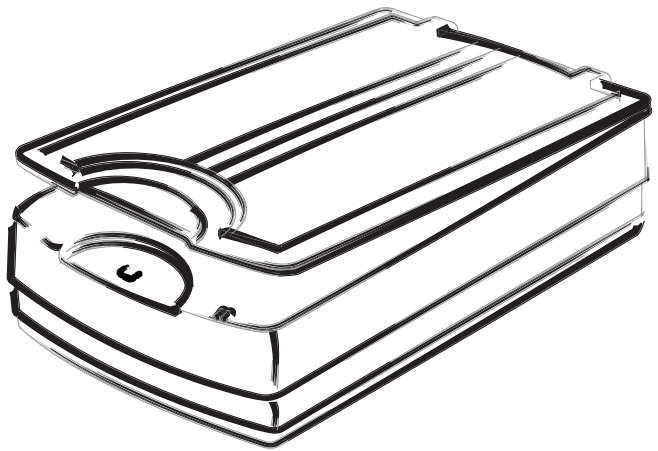




Scanner

ScanMaker 9830XL

User's Manual



Preface

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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, Microtek 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.

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11/2024

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FCC Compliance Statement

FCC NOTICE (Class A)his 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.

This equipment (Model: MRS-3200A3U3L) has been verified and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference. 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 installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning 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 equipment.
- 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 technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Safety Precautions

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

Power Source and AC Power Cord:

- Use a power source only with a power rating specified on the marking label.
- Ensure to turn off the power of each device before connecting or disconnecting the cables.
- Insert the plug completely into the outlet, as a loose connection may cause arcing and result in fire.
- 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 Scanner:

- Always lock the scanner when shipping or moving the scanner. Quick stops, excessive force, and uneven surfaces may cause the product to overturn when moving.
- When locking or unlocking the scanner, do not turn the scanner upside down.
- 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 this 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.

Service:

- When the scanner is going to be cleaned, ensure to turn off the power of each 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.

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Getting to Know Your Scanner

The ScanMaker 9830XL is an advanced A3 format image scanner designed for professionals across various application fields. With an optical resolution of up to 1600 dpi and USB 3.0 connectivity for fast data transfer, it offers both high-quality and efficient scanning.

The scanner features an innovative optical design and a stable transfer system that significantly improves scanning accuracy, speed, and stability. Beyond surpassing its predecessors in optical performance, the ScanMaker 9830XL features an adjustable dual-light source system and supports an external Transparent Media Adapter (TMA) for scanning film and transparent materials. These features make it an ideal choice for professionals looking to improve work quality and efficiency.

Features

- **Large Scanning Area:** The scanner can handle documents up to 12" x 16.9", which accommodates a wide range of materials, including large-format artwork and blueprints.
- **Fast Scanning:** Proprietary light source technology enhances LED efficiency, allowing the scanner to process an A3 document at 400 dpi in just 12 seconds, significantly increasing scanning speed over previous models.
- **Two-way Light Source:** Equipped with two light sources, the scanner offers flexibility with options for single or dual light modes, ensuring optimal lighting conditions and enhanced image quality for diverse scanning needs.
- **USB 3.0 Super-Speed Connectivity:** With USB 3.0, the scanner delivers fast data transfer speeds, significantly reducing scan times and increasing productivity.
- **High Optical Resolution:** With a 1600 dpi optical resolution, the scanner delivers exceptional detail and accuracy, making it ideal for professional photography and graphic design applications where capturing fine detail is critical.
- **High Dynamic Range:** With an optical density range of 0.5 ~ 3.3D optical density range, the scanner captures a wide range of tonal gradations, ensuring that both highlights and shadows are rendered with exceptional detail and depth, accurately reproducing natural and vibrant colors.
- **TMA Compatibility:** The scanner's ability to connect with an optional Transparent Media Adapter (TMA) extends the scanner's functionality to scan film and transparencies – including X-rays.
- **Multi-Scanner Connectivity:** A single computer can connect to multiple scanners simultaneously, allowing specific scanners to be used for different scanning tasks. This is ideal for environments that require quick scanner switching, effectively increasing work efficiency.

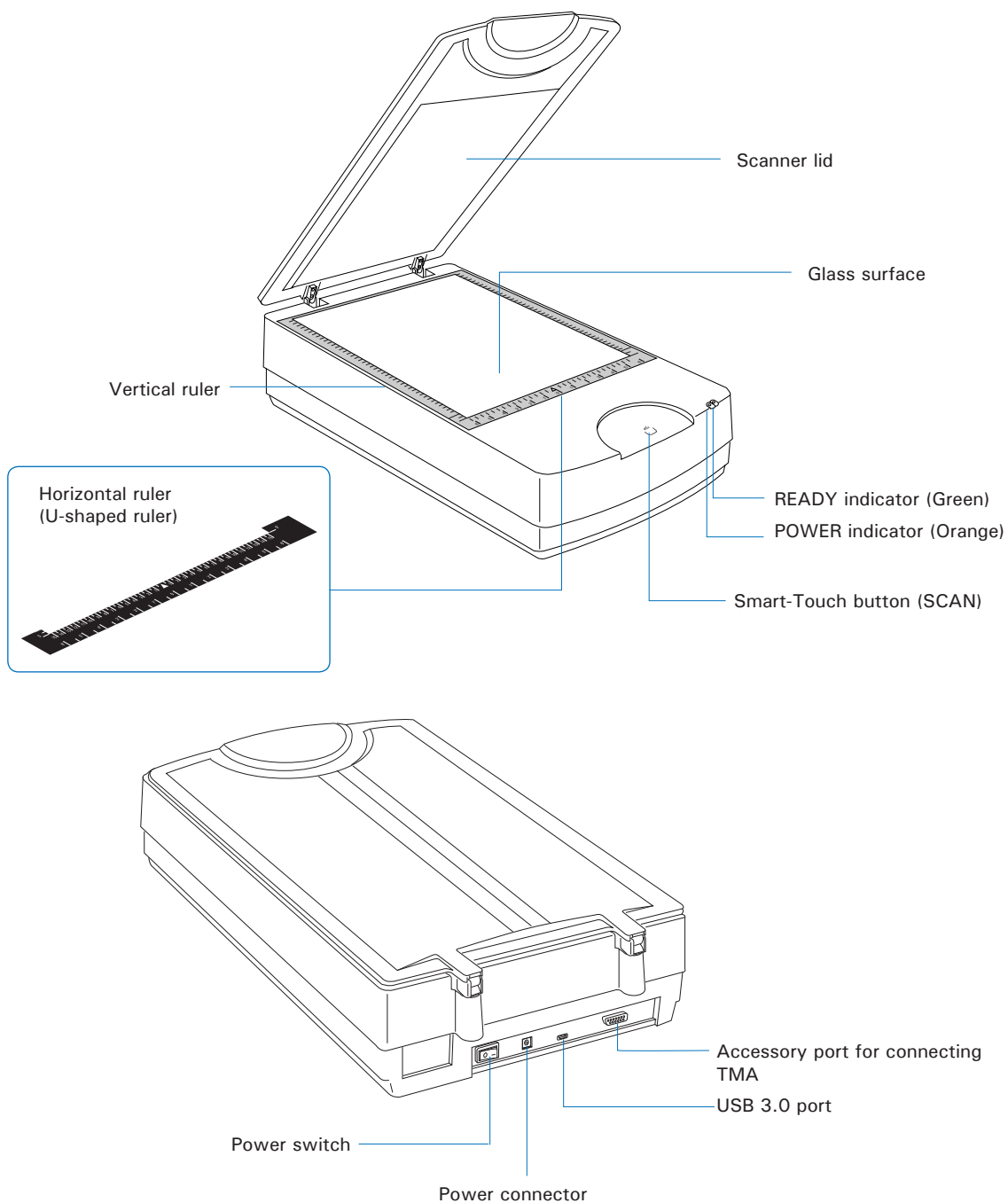
- **Advanced Transmission System:** Equipped with a high-performance transmission system that ensures precise movement of the optical mechanism. This not only enhances scanning accuracy and consistency, but also eliminates color misalignment issues to deliver high-quality scanning results.
- **Color Fidelity:** Proprietary brightness correction technology ensures consistent light levels from the light source, resulting in accurate color reproduction with every scan. This technology prevents color shifts caused by variations in color temperature or light intensity, improving image quality for applications that require accurate color reproduction.
- **Manual Exposure:** The manual exposure feature provides greater control over scan results. Users can manually adjust exposure settings manually to meet specific needs, reducing image distortion and improving overall image clarity.
- **Scan Shortcut Button:** The scanner's front panel shortcut button (SCAN) provides a quick and convenient way to start a scan. With a simple press of the button, you can start scanning and automatically save images to a designated location or send them directly to your image-editing software for further processing, including editing and printing.
- **Microtek ScanWizard One Software:** A professional image scanning software designed for the Windows environment with powerful processing capabilities. It efficiently handles high-resolution images and large-format documents, enabling real-time capture of original images and meeting diverse post-processing needs.
- **Microtek ScanPotter Software:** Image scanning software designed specifically for the macOS environment, with a unique and intuitive user interface. Users can get started quickly and use it with ease.

System Requirements

To use your scanner, your computer must meet the following requirements:

- Color display with 24-bit color output capability
- 1GB of RAM or more (4GB recommended)
- Intel Core i5 processor or higher PC with a built-in USB port; Intel-Based Mac computer with a built-in USB port
- Microsoft Windows 10 or 11; macOS 11 or later

Taking a Closer Look



Initial Setup

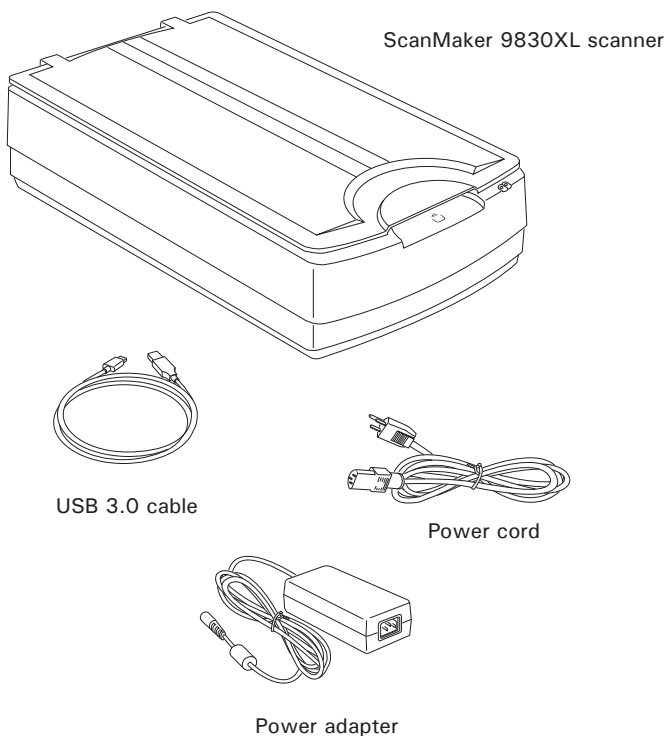
After unpacking your scanner package, follow the steps below for a quick and easy installation process.

NOTE:

- Be sure to use the power adapter and USB cable came with the scanner package.
- Do not place the scanner on any slippery, slanted, or unstable surface. The scanner may slide or fall, causing serious injury to people as well as severe damage to the scanner.
- Save all packing materials of the scanner, including the carton, if you have a need to transport the scanner in the future.

Step 1: Unpacking Package Contents

Unpack your scanner package and check for major components.



Step 2: Installing the Software

Important: You must install all software before connecting your scanner. Always close any open programs and turn off Anti-virus utilities before installing software.



Please follow the steps below to load and install the required software for the scanner:

1. Visit the Microtek website at www.microtek.com.
2. Use the search  function to find the product "ScanMaker 9830XL" and navigate to the "Downloads" page associated with this product.
3. Based on your operating system, download the required drivers marked as "Yes" from the download list, and optionally download any related software as needed.
4. Once the file download is finished, proceed with the software installation.
 - **For Windows:** Double-click the downloaded file (*.exe) to begin the installation process.
 - **For Mac OS:** Double-click the downloaded file (*.dmg) to reveal its contents. If it's a **ScanPotter PKG** file, double-click it to begin the installation. If it's a **ScanPotter.app** file, just copy it to the "Applications" folder, and the installation will be done.
5. After installing all the required drivers and software, restart your computer.

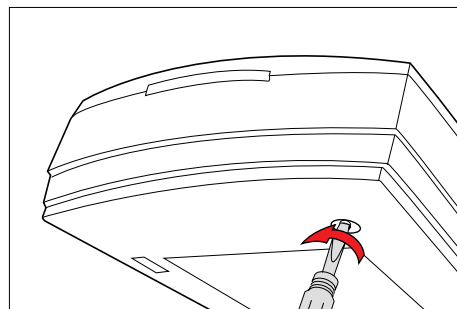
NOTE: The file download process may take some time. The duration may vary based on your internet speed, bandwidth, file size, and other factors. Please be patient during the download. If you encounter any issues or need further assistance, please contact Microtek Customer Service Department.

Step 3: Unlocking the Scanner

Before using the scanner, you will need to unlock the scanner. To unlock the scanner, follow the steps below:

1. Remove the yellow "Unlock" sticker from your scanner.
2. Look for the unlocking screw at the bottom of the scanner.
3. Using a screwdriver, push and turn the locking screw counterclockwise to the unlock position.

When successfully unlocked, the screw will push out a little, protruding slightly from the bottom of the scanner.

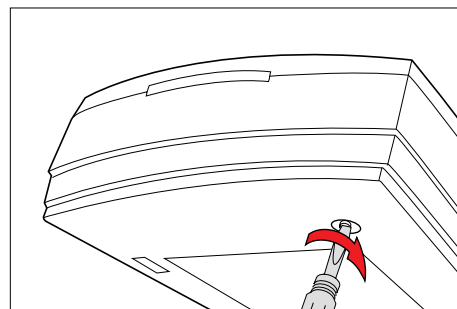


Unlocked

Shipping the Scanner

If you have to transport the scanner, you will need to lock the scanner back. To lock the scanner, follow the steps below:

1. Turn off the scanner if your scanner is on.
2. Turn the scanner back on. The scanner's carriage will move to the standby position in a few moments.
3. When the indicators on the front of your scanner stop blinking, use a screwdriver, and then push and turn the locking screw clockwise to the locked position.



Locked

When the screw has been tightened, this indicates that your scanner is locked.

4. Turn off your scanner. The scanner is now ready for transport.

Step 4: Connecting the Scanner

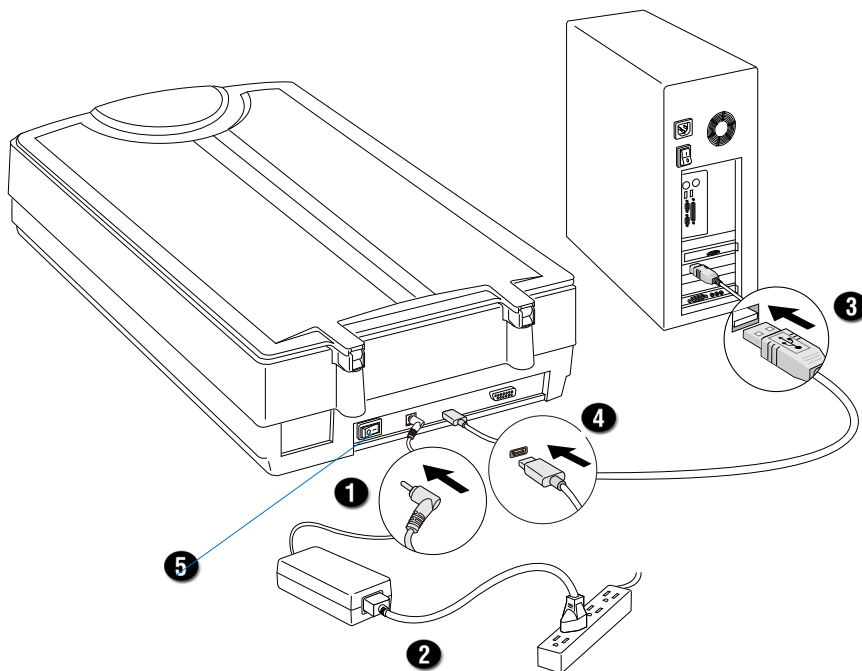
To the Power Adapter

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 USB 3.0 Cable

3. Connect one end of the USB cable to your computer.
4. Connect the other end of the USB cable to the scanner's USB port.
5. Turn on the scanner by switching the Power switch to the "I" position, and wait for the green LED light to stop blinking and stay on steady. The system will detect your scanner automatically.

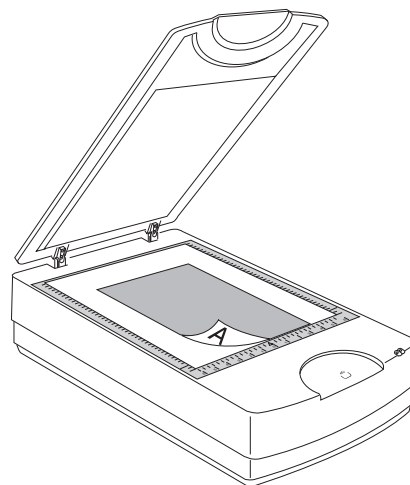
Now the scanner is ready for use.



Positioning Reflective Materials

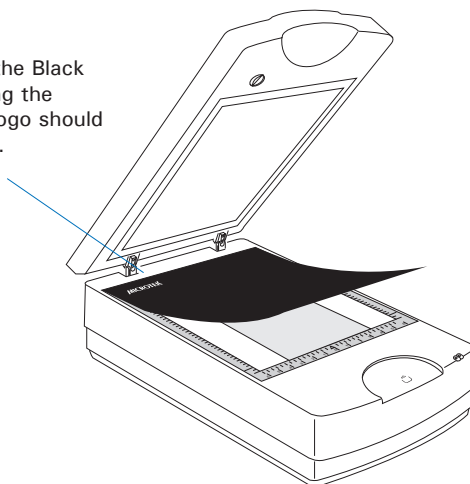
To scan reflective materials such as photographs or printed materials, please follow these steps to place them:

1. Lift the scanner lid.
2. Place the reflective material face down on the scanner glass surface. Center the top of the material along the U-shaped ruler on the scanner.
3. Then, lower the scanner lid.



If your scanner is equipped with an optional Transparent Media Adapter (TMA), when scanning reflective materials, you need to additionally place the Black Plate over the material to shield out unwanted light. Please refer to the "Transparency Media Adapter (TMA)" section for information on how to use it.

The side of the Black Plate showing the "Microtek" logo should be facing up.



Ensure you peel off the protective film from its surface before using the Black Plate.

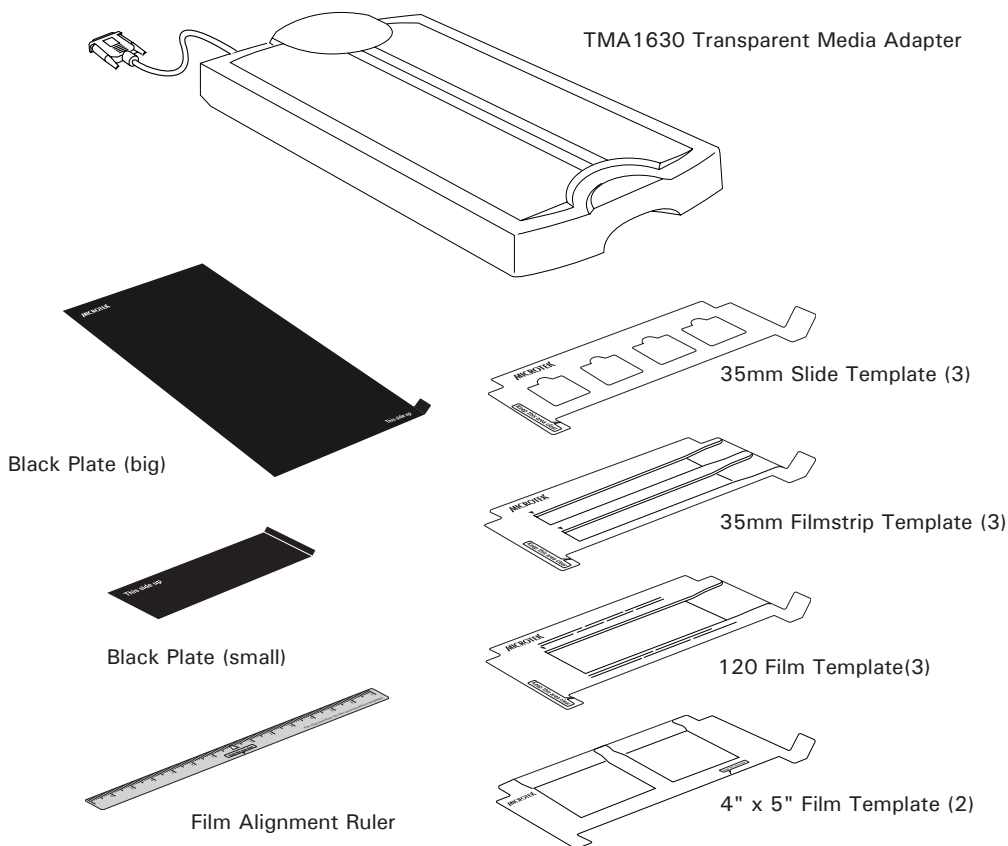
Transparent Media Adapter (TMA)

The Transparent Media Adapter (TMA) is an optional scanner accessory designed specifically for scanning transparency originals, such as slides, positives, and negatives taken by traditional cameras. It must be installed on the scanner to be used. The installation and removal process is very simple, similar to operating a standard scanner lid. To purchase it, please contact your local authorized dealer or Microtek sales department.

The TMA is packaged as an assembled unit, ready to be installed on the scanner. After receiving the TMA, please follow these steps for installation:

Step 1: Unpacking Package Contents

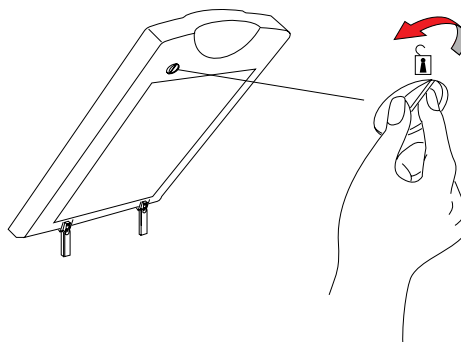
Unpack your TMA package and check for the major components.



Step 2: Unlocking the TMA

Your TMA has a locking screw at the bottom corner near the front to protect the carriage during shipping. This locking screw must be released before using the TMA

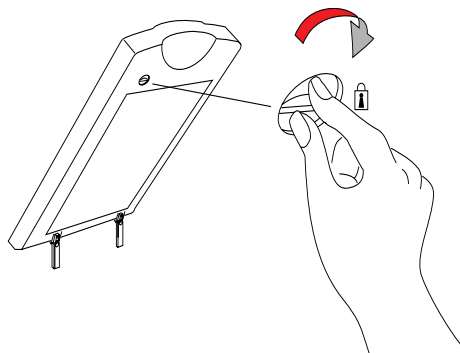
1. Remove the yellow "Unlock" sticker from the TMA.
2. Look for the locking knob at the base of the TMA.
3. Turn the locking knob counterclockwise to the unlock position "🔓".



Shipping the TMA

If you have to transport the TMA, you will need to lock the TMA back. To lock the TMA, follow the steps below:

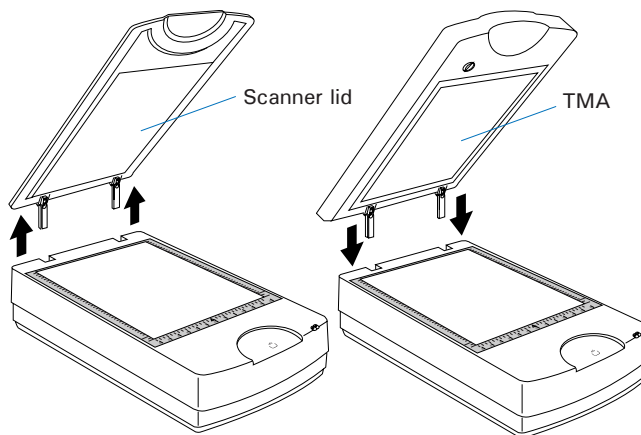
1. Make sure the TMA is connected to the scanner, then turn off the scanner if your scanner is on.
2. Turn the scanner back on. The TMA's carriage will move to the standby position in a few moments.
3. When the indicators on the front of your TMA and scanner stop blinking, turn the locking knob clockwise to the lock position "🔒".
4. Turn off your scanner and disconnect the TMA connector from the scanner. The TMA is ready for transport.



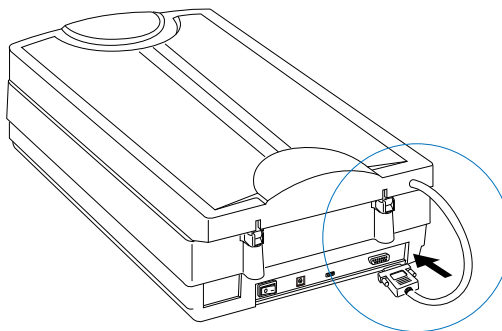
Step 3: Installing the TMA

To install the TMA, follow the steps below

1. Check to make sure that the scanner power is switched off.
2. Remove the scanner lid, then attach the TMA by sliding the posts at the rear of the TMA into the holes.



3. Plug the connector of the TMA into the scanner's 15-pin accessory port at the back of the scanner, and securely fasten the screws.



4. Turn on the scanner by switching the Power switch to the "I" position, and wait for the green LED light to stop blinking and stay on steady. The system will detect your scanner automatically.

Now the scanner and TMA are ready for use.

Positioning Transparent Materials

To scan transparent materials such as slides, films or transparencies, use either the film template or Film Alignment Ruler provided with your TMA package.

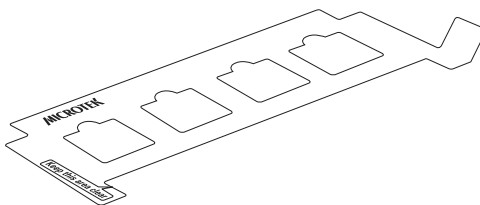
- Use the film template to scan standard-size transparent materials, such as 35mm slides, 35mm filmstrips, 4" x 5" film, and medium format film ranging from 6 x 4.5 cm to 6 x 17 cm panoramic film.
- Use the Film Alignment Ruler to scan non-standard-size transparent materials, such as 8" x 10" film, as well as medical and dental X-rays.

The TMA package contains four types of film templates – 35mm Slide Template, 35mm Filmstrip Template, 120 Film Template, and 4" x 5" Film Template. Use the template that correctly matches the film size for scanning.

The use of the individual film templates and Film Alignment Ruler is explained in the following pages of the manual.

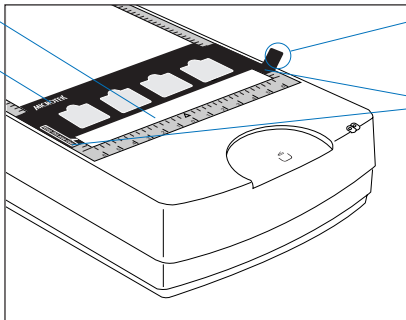
A. Using the 35mm Slide Template

To scan 35mm slides, use the 35mm Slide Template, which can hold up to 4 mounted 35mm slides at a time.



1. Place the 35mm Slide Template on the scanner glass surface. Make sure to orient the template with the "Microtek" logo facing up.

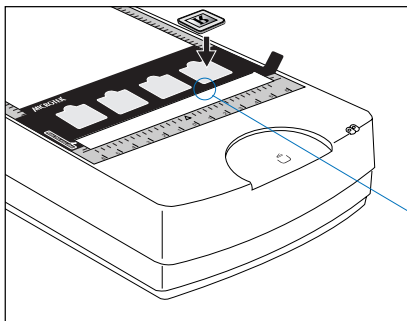
Calibration strip
Microtek logo



The **Grabber** is used to remove the template out of the scanner glass surface.

Important: Align the template's front corners firmly against the top corners (left and right) of the U-shaped ruler located at the front of the scanner. During placement of the template, make sure that the calibration strip on the scanner glass surface is kept clear and free of obstruction at all times.

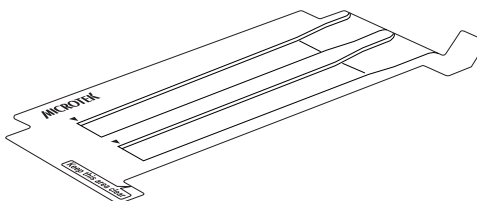
2. Place the 35mm slides to be scanned inside the individual frames of the 35mm Slide Template. The shiny base of the 35mm slide should be facing down, and the emulsion side of the slide should be facing up



Align the 35mm slide against the bottom-left corner of the frame

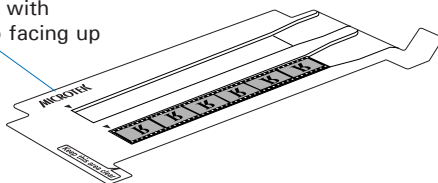
B. Using the 35mm Filmstrip Template

To scan 35mm filmstrips, use the 35mm Filmstrip Template, which can simultaneously hold two strips of 6 frames each, or a total of 12 frames.

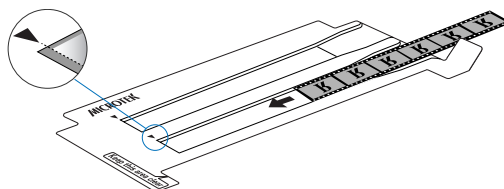


1. Place the 35mm filmstrip to be scanned inside the frame of the 35mm Filmstrip Template. The shiny base of the 35mm filmstrip should be facing down, and the emulsion side of the filmstrip should be facing up.

Orient template with
"Microtek" logo facing up

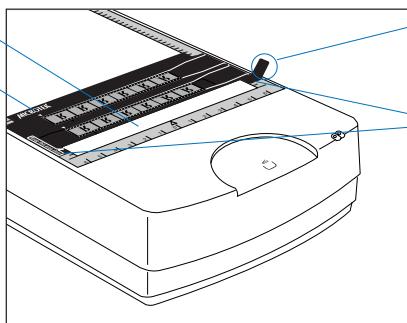


Align the edge of the film frame with
the arrow mark of the template



2. Place the 35mm Filmstrip Template containing the loaded filmstrip on the scanner glass surface. Make sure to orient the template with the "Microtek" logo facing up.

Calibration strip
Microtek logo

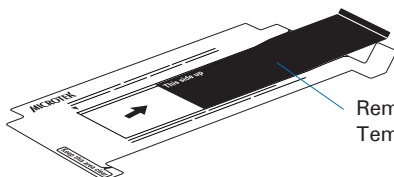


The **Grabber** is used to remove the template out of the scanner glass surface.

Important: Align the template's front corners firmly against the top corners (left and right) of the U-shaped ruler located at the front of the scanner. During placement of the template, make sure that the calibration strip on the scanner glass surface is kept clear and free of obstruction at all times.

C. Using the 120 Film Template

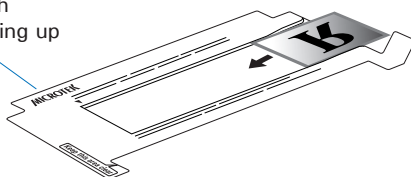
To scan 6 x 4.5 cm, 6 x 6 cm, 6 x 7 cm, 6 x 9 cm, and 6 x 17 cm panoramic film, use the 120 Film Template, which can hold up to 4 pieces of 6 x 4.5 cm film, 2 pieces of 6 x 9 cm film, or a single piece of 6 x 17 cm panoramic film



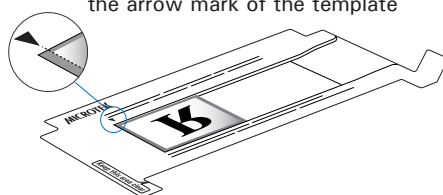
Remove the Black Plate from the 120 Film Template before loading the 120 film

1. Place the 120 film to be scanned inside the frame of the 120 Film Template. The shiny base of the 120 film should be facing down, and the emulsion side of the film should be facing up.

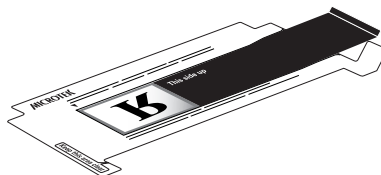
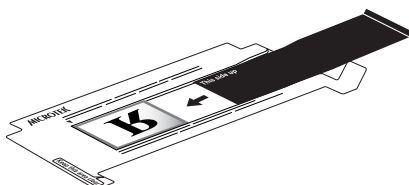
Orient template with "Microtek" logo facing up



Align the edge of the film frame with the arrow mark of the template

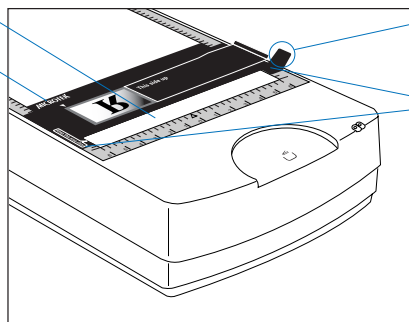


2. Load the Black Plate into the template frame, with the side of the Black Plate that reads "This side up" facing up. Slide the Black Plate until its edge is against the film and completely covers the blank spaces of the template.



3. Place the 120 Film Template containing the loaded film on the scanner glass surface. Make sure to orient the template with the "Microtek" logo facing up.

Calibration strip
Microtek logo

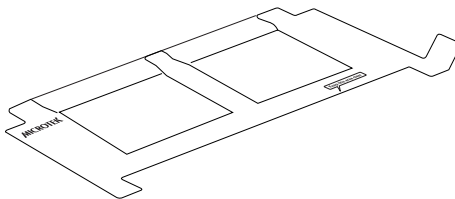


The **Grabber** is used to remove the template out of the scanner glass surface.

Important: Align the template's front corners firmly against the top corners (left and right) of the U-shaped ruler located at the front of the scanner. During placement of the template, make sure that the calibration strip on the scanner glass surface is kept clear and free of obstruction at all times.

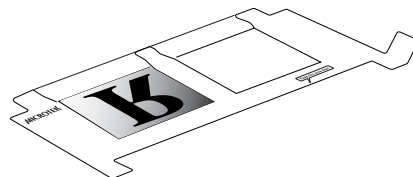
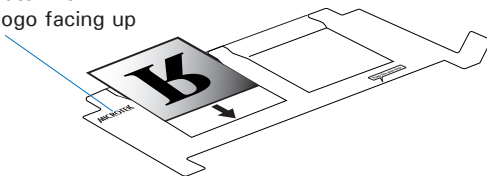
D. Using the 4" x 5" Film Template

To scan 4" x 5" film, use the 4" x 5" Film Template, which can hold up to 2 pieces of 4" x 5" film at a time.



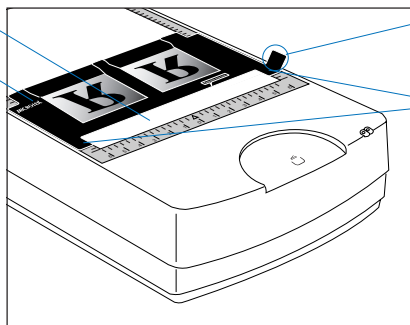
1. Place the 4" x 5" film to be scanned inside the frame of the 4" x 5" Film Template. The shiny base of the 4" x 5" film should be facing down, and the emulsion side of the film should be facing up.

Orient template with
"Microtek" logo facing up



2. Place the 4" x 5" Film Template containing the loaded film on the scanner glass surface. Make sure to orient the template with the "Microtek" logo facing up.

Calibration strip
Microtek logo

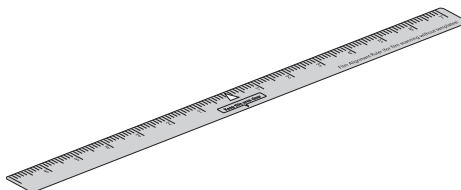


The **Grabber** is used to remove the template out of the scanner glass surface.

Important: Align the template's front corners firmly against the top corners (left and right) of the U-shaped ruler located at the front of the scanner. During placement of the template, make sure that the calibration strip on the scanner glass surface is kept clear and free of obstruction at all times.

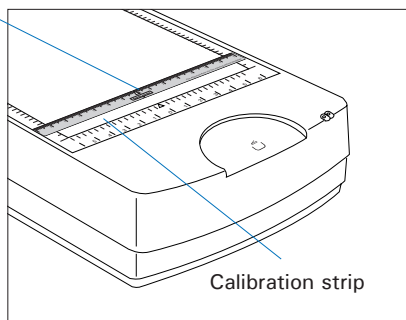
E. Using the Film Alignment Rule

To scan non-standard-size film such as 8" x 10" film, medical and dental X-rays, use the Film Alignment Ruler, which allows you to scan film up to 12" x 16.9" in size.



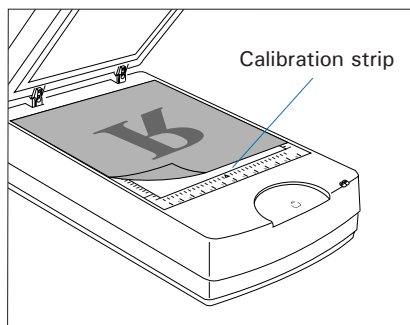
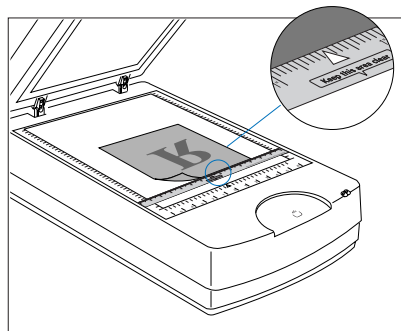
1. Place the Film Alignment Ruler* on the scanner glass surface.

Film Alignment Ruler



Important: Align the Film Alignment Ruler firmly against the corners (left and right) of the U-shaped ruler located at the front of the scanner, with the ruler oriented correctly and with the correct side up. During placement of the Ruler, make sure that the calibration strip on the scanner glass surface is kept clear and free of obstruction at all times.

2. Place the film (X-ray or other non-standard size) to be scanned on the scanner glass surface, and center the film along the Film Alignment Ruler on the scanner.

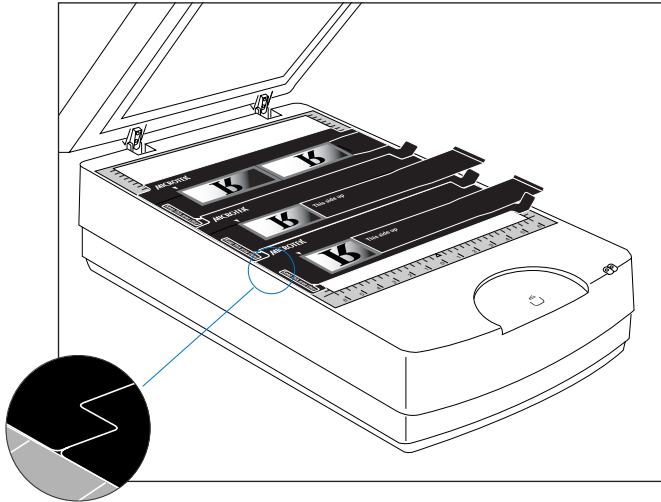


* Please note that the Film Alignment Ruler should be removed from the glass surface of the scanner if the width of the film is larger than the width of the scanner glass surface.

If the Film Alignment Ruler is not going to be used, align the film to be scanned against the top corners (left and right) of the U-shaped ruler located at the front of the scanner. During placement of the film, make sure that the calibration strip on the scanner glass surface is kept clear and free of obstruction at all times.

Positioning Multiple Templates

At least two sets of each template are included in your TMA package for multiple placements of the templates on the scanner. The templates can be placed side by side on the scanner glass surface, as shown in the illustration below.



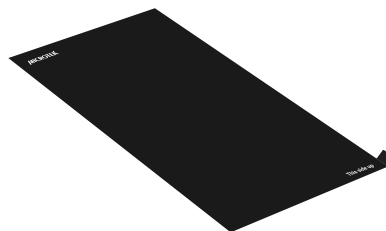
The Black Plate

Light from the TMA and other ambient light during scanning may result in overexposed images. The Black Plate is designed to work with 120 film and reflective materials. To ensure correct exposure and optimal image quality during scanning, the Black plate should be used to shield unwanted light out. Two Black Plates are available with your TMA package.

Take note of the following before using the Black Plate.

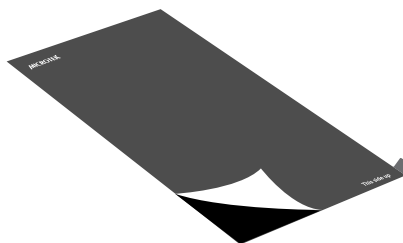


Used together with 120 Film
Template



Used to cover the reflective
materials

1. The Black Plate may become dirty over time and with prolonged use. To clean the plate, use a white cotton cloth dipped in some water, and gently wipe the plate surface. This ensures that the Black Plate is in optimal condition at all times.
2. A protective film covers the Black Plate during shipping and prevents it from being scratched. When peeling the protective film from the surface of the plate, be careful not to tear or bend the Black Plate.



Scanning Scenarios

This section provides guidelines for capturing images from your scanner using ScanWizard-One on Windows and ScanPotter on macOS, covering the following:

For PC Users Using ScanWizard-One:

- **Scanning Photographs:** This scenario details the steps for scanning photographs, serving as an introductory walkthrough for your first scan to help you become familiar with the basic scanning procedures.
- **Scanning Positive/Negative Film:** This scenario details the steps for scanning positive or negative film and instructs you on how to create multiple scan jobs for batch scanning.

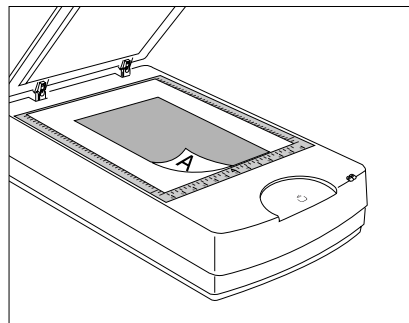
For Mac Users Using ScanPotter:

- **Scanning Photographs and Film:** This scenario walks you through the steps for scanning both photographs and film on macOS.

For PC Users Using ScanWizard-One

Scanning Photographs

1. Place the photographs to be scanned face down on the scanner glass surface, as detailed in the "Positioning Reflective Materials" section of the manual.



2. Launch ScanWizard-One by double-clicking the program icon on the desktop. The Microtek ScanWizard-One (AP) main interface appears on the screen.

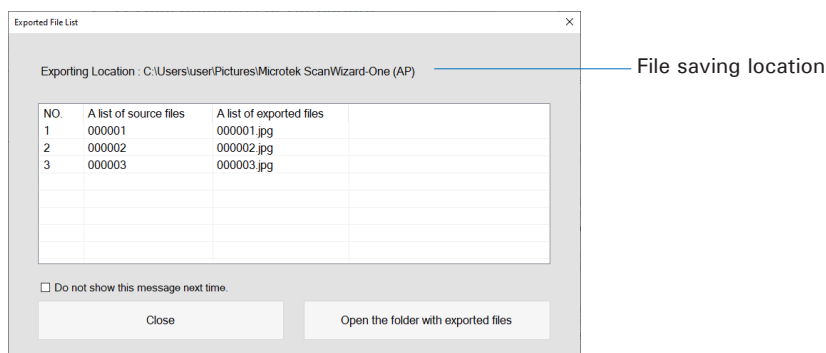
NOTE: The first time you launch ScanWizard-One, the "Scan & Export" button is displayed on the interface by default. This button allows you to bypass the manual export step, directly exporting and saving the scanned images. If the "Scan" button instead of "Scan & Export" button is displayed on the interface after startup, click the "Preferences" button (⚙️), check the "Export Images After Scanning" option in the dialog box that opens, and then follow the steps below to proceed with scanning.

3. Click on the "Scan Settings" button (🖨️) to open the Scan Settings interface (TWAIN interface).
4. Specify the basic scan parameters as needed:
 - a) Select "Reflective" in the Material drop-down list.
 - b) Select the color type of the image output in the Type drop-down list.
 - c) Specify the desired scanning resolution in the Resolution drop-down list.
5. Click on the "Show Preview Window" and "Show Settings Window" tabs on the right side of the interface to display hidden working windows.
6. Click on the "Preview" button to perform an initial preview scan of the original and display the preview image in the Preview area.
7. Select the "Frame" tool (📏) in the Preview window, and choose the area to be scanned by dragging a rectangle around it. You will see a flashing frame (marquee) around the selected area.
8. If necessary, adjust the overall brightness and contrast of the image, and set the gamma value.

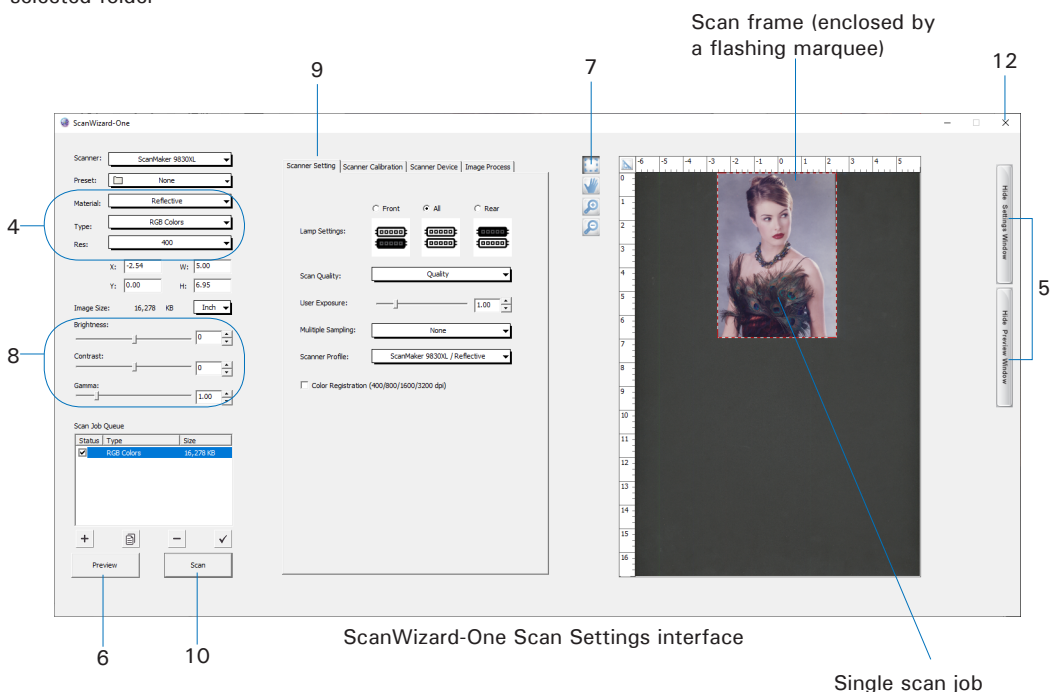
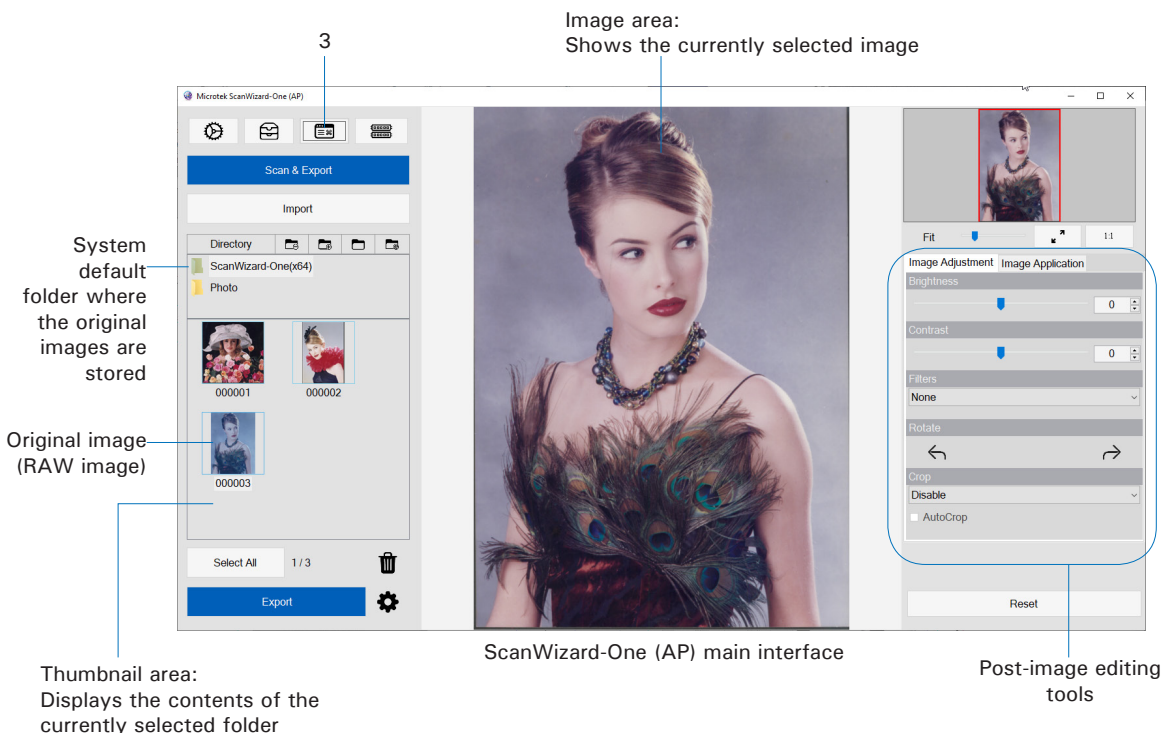
9. If necessary, go to the "Scanner Settings" panel to configure the scanner's features.
 - a) Select one of the Lamp Settings option.
 - b) Select an image quality mode in the Scan Quality drop-down list.
 - c) Adjust the exposure setting within the range of the preset values.
 - d) Select the number of times the same row of pixels will be read (sampling count) in the Multiple Sampling drop-down list.
10. Click on the "Scan" button to start the scanning process with the parameters you have set in the Scan Settings interface.

When done, the scanned image (RAW image file) is automatically stored in the system default folder or a specified folder and displayed as a thumbnail in the Thumbnail area, and can be viewed and post-processed in the Image area. The image is also exported and archived directly with the file attributes defined in the Export settings.
11. Repeat steps 4 through 10 above until all desired photographs have been scanned if needed.
12. Finally, close the Scan Settings interface.

An Exported File List window appears on the screen, displaying the number of images that have been scanned and exported, and the correspondence between the original and exported image files. You can open the folder where the exported images are stored from this window, or click "Close" to close the window.

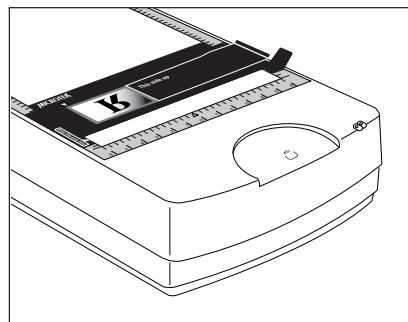


For more detailed information on using the ScanWizard-One, please refer to the ScanWizard-One Reference Manual.



Scanning Positive/Negative Film

1. Place the positive or negative film, along with the appropriate film holder, face down on the scanner glass surface. For detailed placement instructions, refer to the "Positioning Transparent Materials" section of the manual.



2. Launch ScanWizard-One by double-clicking the program icon on the desktop. The Microtek ScanWizard-One (AP) main interface appears on the screen.

NOTE: By default, you launch ScanWizard-One the first time, the "Scan & Export" button is displayed on the interface. This button allows you to bypass the manual export step, directly exporting and saving the scanned images. If the "Scan" button instead of "Scan & Export" button is displayed on the interface after startup, click the "Preferences" button (⚙️), check the "Export Images After Scanning" option in the dialog box that opens, and then follow the steps below to proceed with scanning.

3. Click on the "Scan Settings" button (⚙️) to open the Scan Settings interface (TWAIN interface).
4. Specify the basic scan parameters as needed:
 - a) Select "Negative Film" for negative film, or "Positive Film" for slides and transparencies in the Material drop-down list.
 - b) Select the color type of the image output in the Type drop-down list.
 - c) Specify the desired scanning resolution in the Resolution drop-down list.
5. Click on the "Show Preview Window" and "Show Settings Window" tabs on the right side of the interface to display hidden working windows.
6. Click on the "Preview" button to perform an initial preview scan of the original and display the preview image in the Preview area.
7. Select the "Frame" tool (📏) in the Preview window, and choose the area to be scanned by dragging a rectangle around it. You will see a flashing frame (marquee) around the selected area.
8. If needed, create multiple scan jobs (scan frames) based on the number of films you intend to scan.
 - a) Click the "New" button (+) next to the Scan Job Queue window. A new scan job will be added to the list, and a new scan frame (flashing) will appear in the Preview area.

- b) Choose the area to be scanned by dragging a rectangle around it.
- c) Specify required scan parameters for the new job.
- d) Repeat steps a) through b) above to create as many scan jobs as you wish.

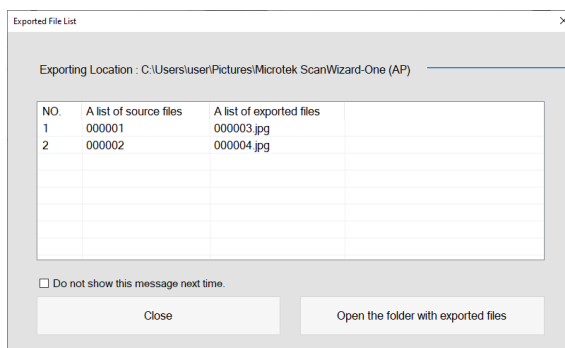
Please note that you can have multiple scan jobs, but only one scan job can be active at a time. The active scan job is indicated by a flashing frame (marquee) and can have its own scan parameters.

9. If necessary, adjust the overall brightness and contrast of the image, and set the gamma value.
10. If necessary, go to the "Scanner Settings" panel to configure the scanner's features.
 - a) Select an image quality mode in the Scan Quality drop-down list.
 - b) Adjust the exposure setting within the range of the preset values.
 - c) Select the number of times the same row of pixels will be read (sampling count) in the Multiple Sampling drop-down list.
11. Click on the "Scan" button to start the scanning process. The selected scan jobs will be scanned in the order that they appear in the Scan Job Queue window.

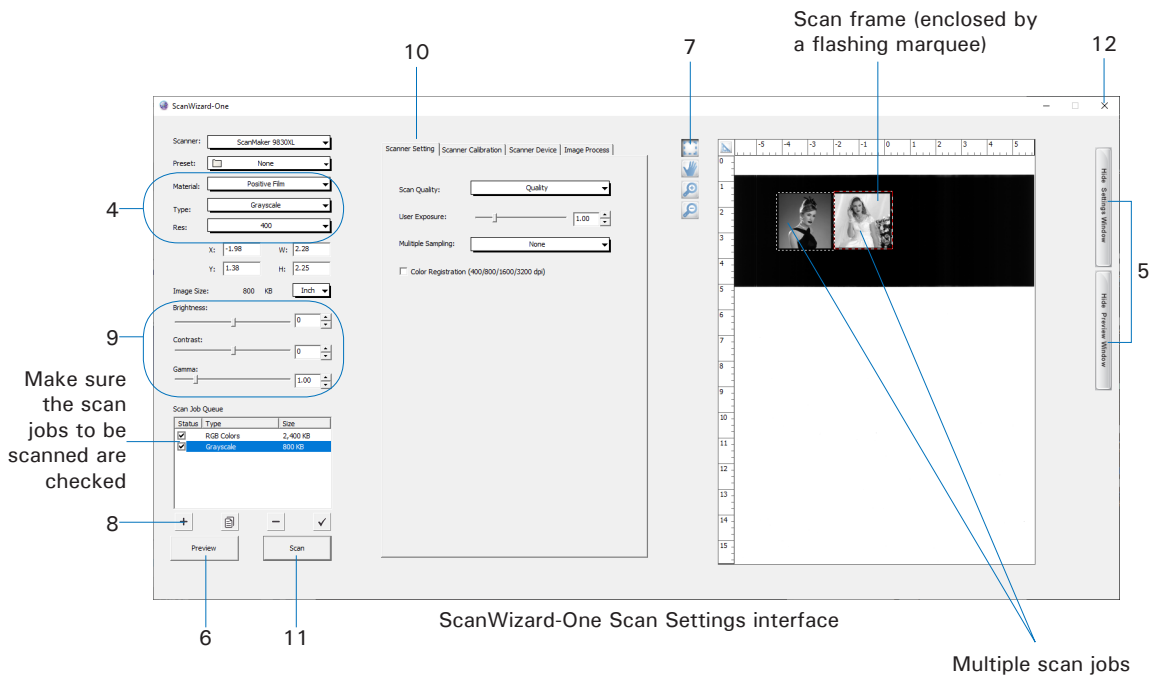
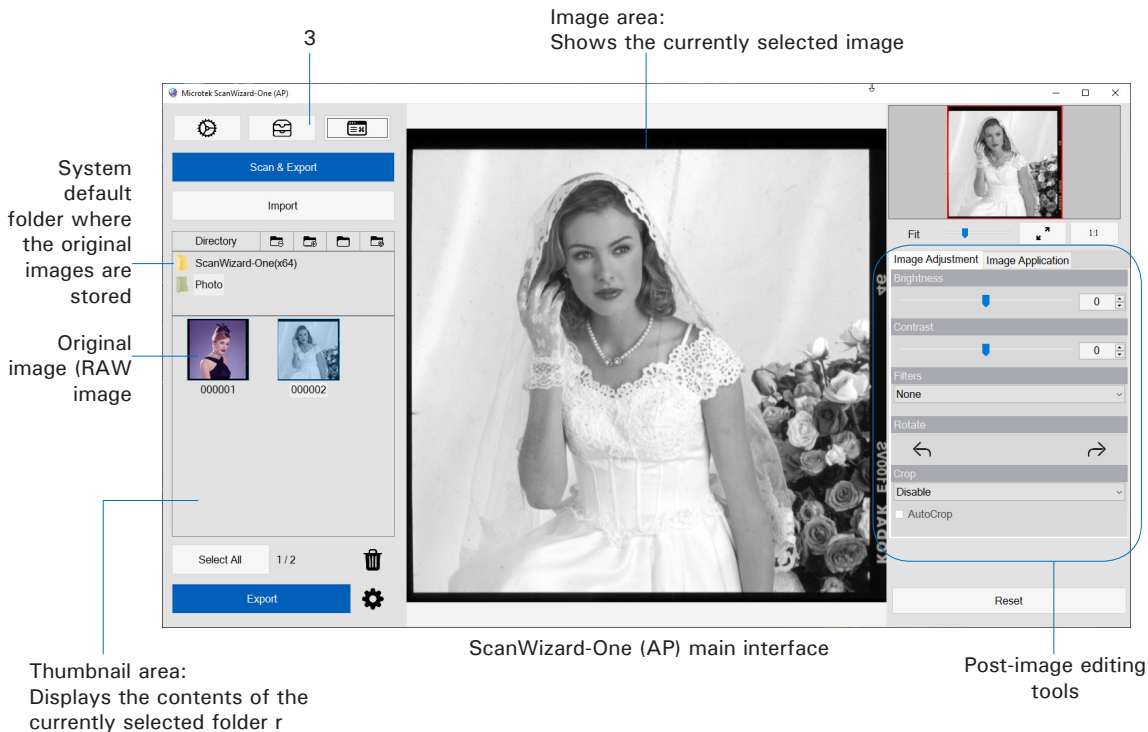
When down, the scanned images (RAW image files) are automatically stored in the system default folder or a specified folder and displayed as thumbnails in the Thumbnail area, and can be viewed and post-processed in the Image area. The images are also exported and archived directly with the file attributes defined in the Export settings.

12. Finally, close the Scan Settings interface.

An Exported File List window appears on the screen, displaying the number of images that have been scanned and exported, and the correspondence between the original and exported image files. You can open the folder where the exported images are stored from this window, or click "Close" to close the window.



File saving location



For Mac Users Using ScanPotter

This scenario explains how to scan photos and films using ScanPotter v3.0 or later versions on macOS.

1. Place your materials:
 - To scan reflective materials: Place the reflective materials (such as photographs or prints) to be scanned face down on the scanner glass surface, as detailed in the "Positioning Reflective Materials" section of the manual.
 - To scan transparent materials: Place the transparent materials (such as slides, positive or negative films) on the scanner glass surface together with the corresponding film template, as detailed in the "Positioning Transparent Materials" section of the manual.
2. Launch ScanPotter:

Open "Finder" on your Mac and navigate to "Applications" in the sidebar. Locate and double-click the "ScanPotter" icon to launch the application.

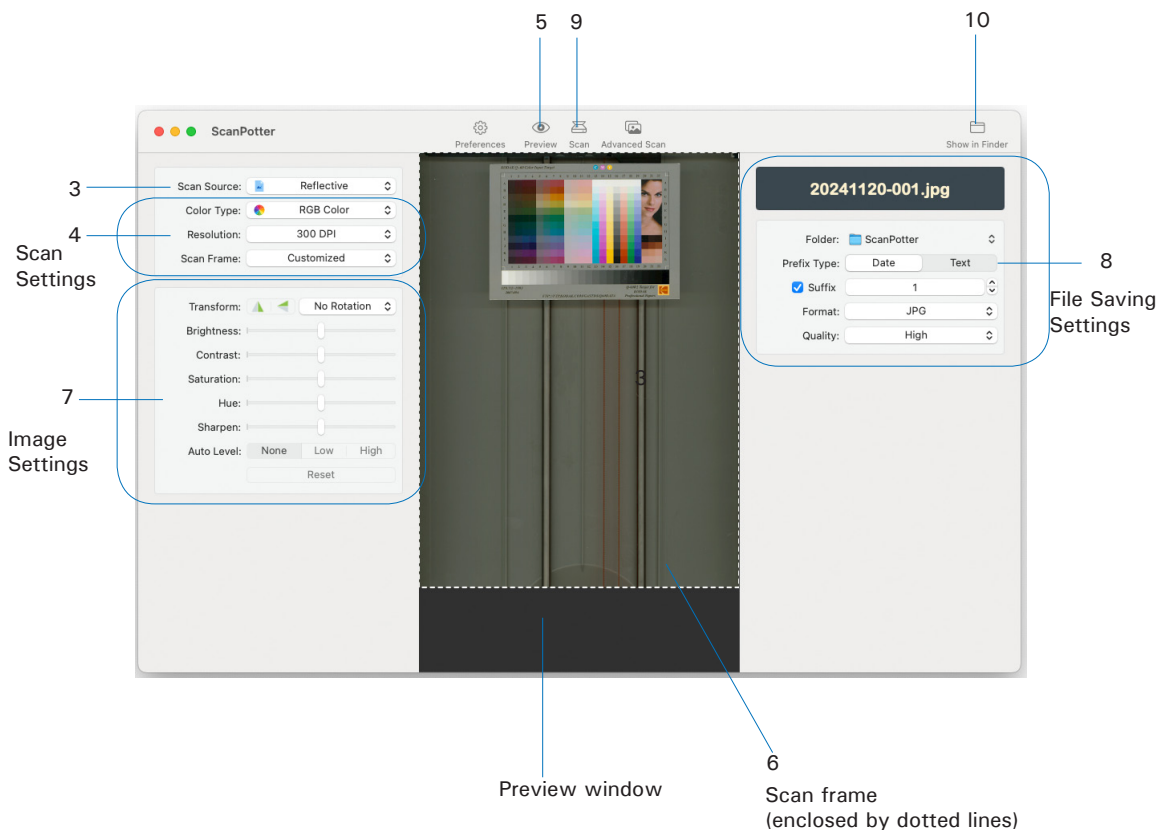
After launching, you'll find the ScanPotter menu at the top left corner of your desktop.
3. Select the scan material type:

From the "Scan Source" options menu, select "Reflective" for photographs and prints, "Negative" for negative films, or "Positive" for slides and transparencies.
4. Specify scanning settings in the Scan Settings column as required:
 - a) Choose the image color type from the "Color Type" options menu for image output.
 - b) Specify the desired scanning resolution from the "Resolution" options menu.
5. Click the "Preview" button to perform a preliminary scan of your original. When done, the preview image appears in the preview area.
6. If necessary, adjust the scan frame size by dragging any corner or edge of the scan frame (enclosed by dotted lines) to choose the area to be scanned.
7. If necessary, enhance and adjust the image quality by using the image correction tools offered in the Image Settings column.
8. If necessary, specify file settings for your output images by using the options offered in the File Saving Settings column.

9. Click the "Scan" button to start the final scanning process.

When done, the scanned image will be automatically saved into the folder you assigned.

10. Click the "Show in Finder" button to locate and view the scanned image in the opened folder.



Scanner Color Calibration

This chapter is intended for PC users who utilize the Microtek Profile Maker (MPM) utility and IT8 color targets to generate scanner ICC profiles.

Microtek Profile Maker (MPM)

The Microtek Profile Maker (MPM) is a scanner calibration and profiling utility designed exclusively for Microtek scanners. Used together with the color calibration target, the MPM determines the color attributes of your scanner accurately, then generates an ICC profile tailored exclusively for the scanner that you are using under ScanWizard-One.

Installation and Startup

The Microtek Profile Maker (MPM) program is installed together with the ScanWizard-One program on your system.

To launch it, click the Windows Start button, navigate to Microtek ScanWizard-One for Windows > Microtek Profile Maker, and click to launch.

Once launched successfully, the Microtek Profile Maker window will appear.

NOTE: The Microtek Profile Maker (MPM) profiling utility can only be used with supported scanners. If your scanner is not supported, MPM will not be activated.

Calibration Target

Calibration targets are essential for ensuring the color accuracy of your scanner and for creating an ICC profile specific to your scanner. The calibration targets included depend on the scanner package you have purchased. If your scanner includes an optional Transparent Media Adapter (TMA) device, the package should include two industry-standard IT8 calibration targets: one reflective target and one transparent target.

The calibration targets are very delicate and must be handled carefully. Take note of the following:

- Gently remove targets from their respective protective sleeves and avoid touching the target image surface.
- When not in use, keep targets in their sleeves and keep away from light and heat.

NOTE: To keep the colors in your scanner consistent, you should perform color calibration on a regular basis. Professional photographers, graphic designers or others who require extremely precise color may wish to calibrate the scanner every time it is used.

Creating a Scanner ICC Profile

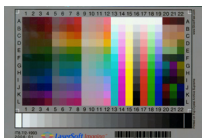
Follow the steps below to create a scanner ICC color profile:

- A. Position the color calibration target on the scanner bed correctly.
- B. Open ScanWizard-One and capture the color calibration target image.
- C. Use the Microtek Profile Maker (MPM) profiling utility to create an ICC profile for your scanner.
- D. Load and use the resulting scanner ICC profile.

The following instructions describe the specific steps required to create a scanner ICC color profile. Before proceeding, make sure that both ScanWizard-One and Microtek Profile Maker (MPM) program are installed and working properly.

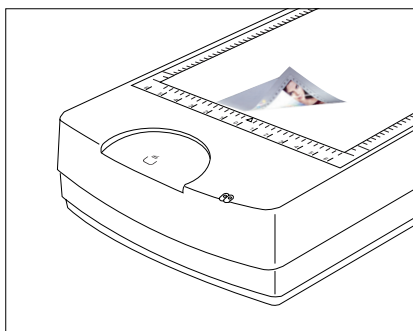
Positioning the Target

Proper positioning of the target on the scanner is important for successful calibration. Incorrect positioning of the target will result in an unsuccessful calibration. Please refer to following guidelines to position the target:



• Positioning the Reflective Target

Place the reflective target face down on the scanner glass surface, ensuring that the top end of the target is oriented towards the scanner's front panel, and its edge is firmly aligned against the scanner's U-shaped ruler.



NOTE: If your scanner is equipped with an optional TMA, place the Black Plate over the target to shield out unwanted light.

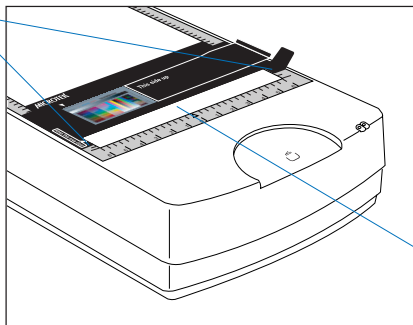


• Positioning the Transparency Target

1. Place the target face down inside the frame of the film template.
2. Position the film template with the loaded target on the scanner glass surface, ensuring the side of the template with the "Microtek" logo is facing up.

Please note that the transparent target varies depending on the scanner package you have purchased. Use the appropriate film template to position your transparent target correctly. For detailed positioning instructions, refer to the "Positioning Transparent Materials" section of the manual..

Important: Align the template's front corners firmly against the top corners (left and right) of the U-shaped ruler, located at the front of the scanner.



NOTE: Slide the Black Plate until its edge is against the film and completely covers the blank spaces of the holder.

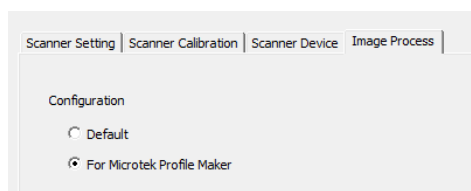
Keep calibration strip clear and free of any obstruction

Scanning the Target

After positioning the calibration target, use ScanWizard-One to capture the image of the color calibration target.

1. Launch ScanWizard-One and open the Scan Settings interface (TWAIN interface).
2. Reveal all hidden windows (Preview window and Settings window).
3. Go to the "Image Processing" panel and select "For Microtek Profile Maker" to enable the calibration target scanning mode.

Once selected, the scanner will not apply any ICC color profiles and some parameter settings will be disabled in the Scan Settings interface.

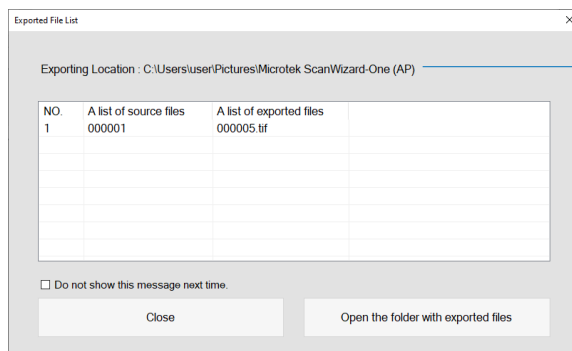


4. Set the scan parameters needed for scanning the calibration target:
 - a) In the Material drop-down list, select "Reflective" to scan a reflective calibration target or "Positive Film" to scan a transparent calibration target.
 - b) In the Resolution drop-down list, set the following recommended resolutions for calibration target images.
 - Reflective: 200 dpi
 - 4" x 5" transparent: 200 dpi
 - 6 x 7 cm transparent: 300 dpi
 - 35mm slide: 800 dpi
5. Click on the "Preview" button to perform an initial preview scan of the calibration target and display the preview image in the Preview area.
6. Use the "Scan Frame" tool (📏) to select the entire target by dragging on the corners or borders of the red flashing frame (marquee).
7. Click on the "Scan" button to start the scanning process.

When done, the scanned image (RAW image file) is automatically stored in the system default folder or a specified folder and displayed as a thumbnail in the Thumbnail area, and can be viewed in the Image area. The scanned image is also exported and archived directly with the file attributes defined in the Export settings.

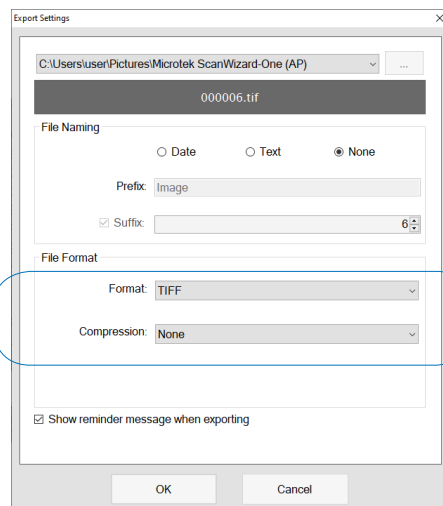
8. Finally, close the Scan Settings interface .

An Exported File List window displays the number of images that have been scanned and saved, and the correspondence between the original and exported images. You can open the folder where the exported images are stored directly from this window, or click on "Close" to close the window

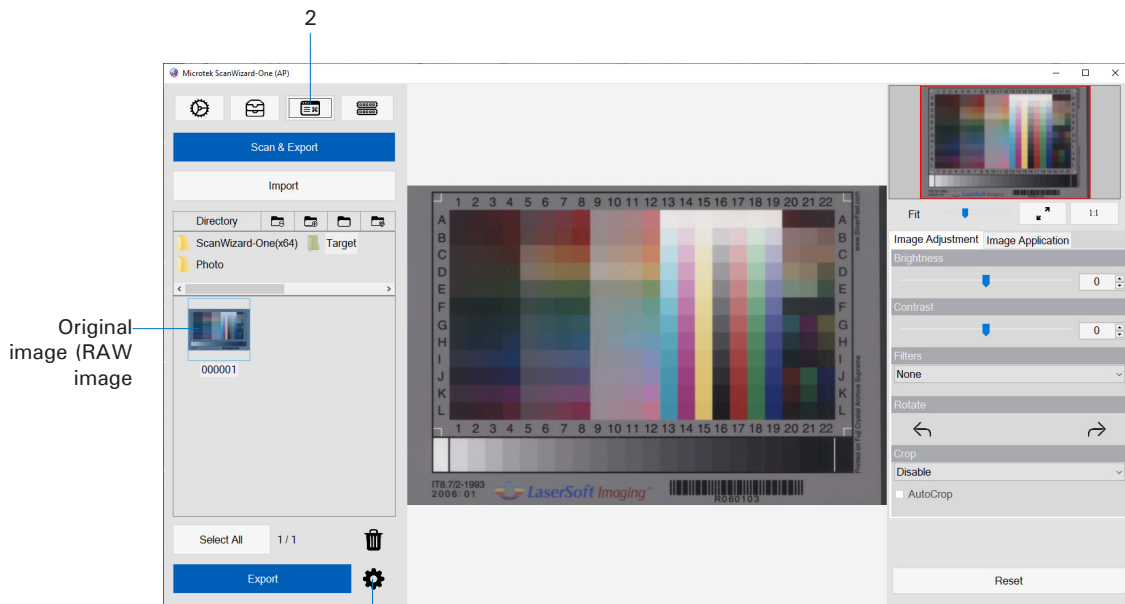


File saving location

NOTE: Make sure that the exported image file is in uncompressed TIFF format. If not, select original image (RAW image) in the thumbnail area and then export scanned image again after resetting the file format in the Export Settings dialog box.

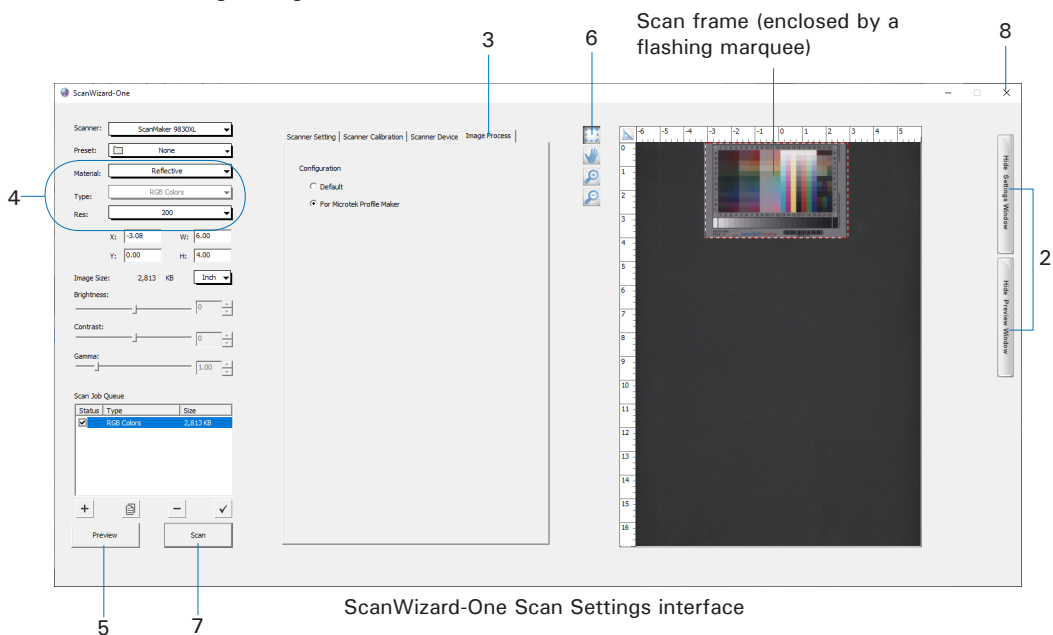


Make sure that the file format is set to TIFF with no compression



ScanWizard-One (AP) main interface

Click to open the Export Settings dialog box

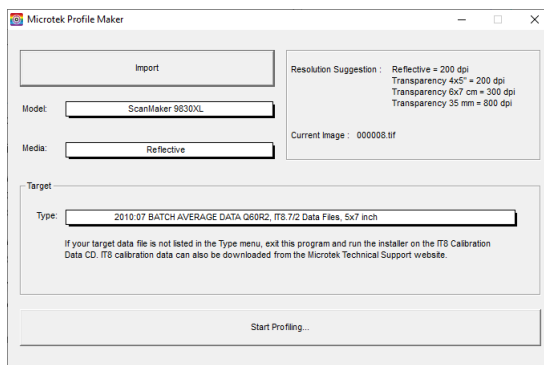


ScanWizard-One Scan Settings interface

Calibration Setup

After scanning and exporting the calibration target image, launch the Microtek Profile Maker (MPM) utility to configure the necessary settings for calibration.

1. Launch Microtek Profile Maker (MPM). When launched, the Microtek Profile Maker window will appear.

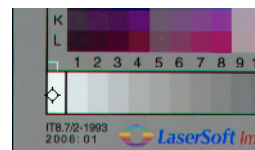


2. In the opened window, click on the "Import" button to import the calibration target image (*.tif) you just created.

If the image import is successful, all disabled functions in the window will become enabled and accessible.

3. Configure the necessary settings for calibration.
 - a) **Model:** Choose the scanner model that you are calibrating.
 - b) **Media:** The system will detect the type of loaded color calibration target image and automatically set it as "Reflective" or "Positive Film".

- c) **Type:** Select the date code and target type (or reference number) from the drop-down list that matches your target. You can verify this information by looking at the left corner of the target's bottom margin.



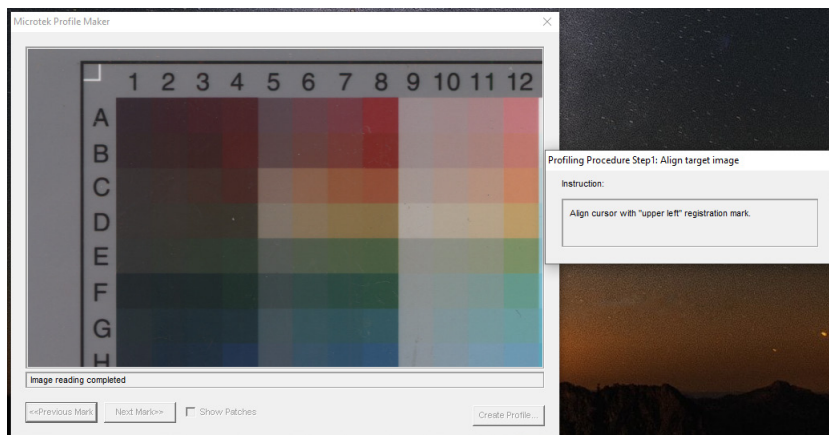
If the desired data file is not present in the drop-down list, install the IT8 Calibration Data to update the target profiles in your system.

- d) When all settings are configured, click the "Start Profiling" button to open the calibration window and display the imported target image.

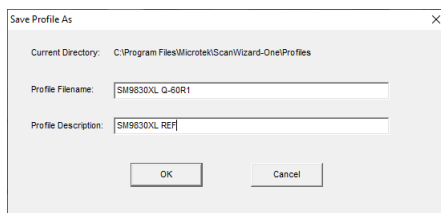
Calibration and Profiling

After finishing the calibration setup, you are now ready to complete calibration and create an ICC profile for your scanner.

1. After clicking the "Start Profiling" button, the color calibration target image displays in the window that opens. You will then be prompted to align the registration marks on the target.



2. Follow the prompts to align all registration marks of the target with your cursor (see inset at the bottom of the next page).
3. Once completed, click the "Create Profile" button. A dialog box appears, enter the desired file name and description for the profile in the edit boxes, then click OK to start the profiling process.



4. When done, a custom scanner ICC profile (*.icm) will be automatically saved in the "Profiles" folder under the directory where the ScanWizard-One program is located. This profile will be selectable from the "Scanner Profile" list box the next time ScanWizard-One is restarted.

Loading and Using the ICC Profile

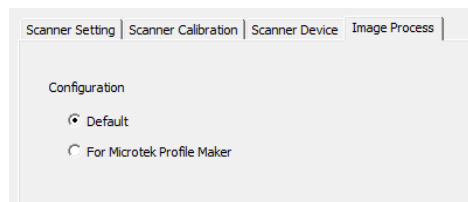
Once the profile has been generated, follow the steps below to use the ICC profile you just created.

1. Restart ScanWizard-One and open the Scan Settings interface (TWAIN interface).

2. Select the type of material to scan in the Material drop-down list:

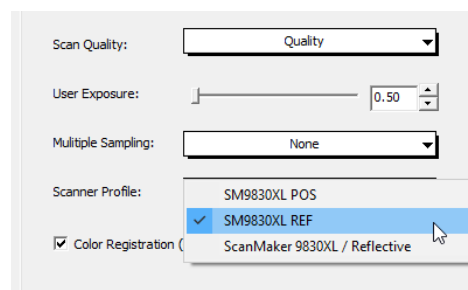
Select "Reflective" to scan reflective materials or "Positive Film" for transparencies and slides.

3. Go to the "Image Processing" panel and select "Default" as Configuration option to return to the setting mode for general objects scanning.



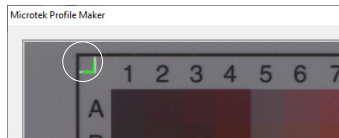
4. Go to the "Scanner Settings" panel and select the ICC color profile you loaded from the Scanner Profile drop-down list.

Once loaded, you can begin scanning your objects.



Aligning the Registration Marks

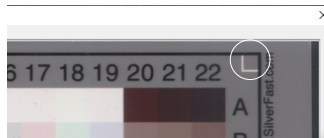
A. Upper-left registration mark



Move the cursor to the target image area; the pointer will change to a horizontally flipped L mark ("┘").

Align the cursor with the small upper-left registration mark.

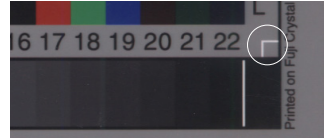
B. Upper-right registration mark



After the upper left mark is aligned, the upper right part of the target image is displayed, and an instruction dialog box prompts you to align the upper right registration mark.

Move the cursor to the target image area; the pointer will change to a normal L mark ("L"). Align the cursor with the small upper-right registration mark.

C. Bottom-right registration mark



After the upper right mark is aligned, the lower right part of the target image is displayed, and an instruction dialog box prompts you to align the bottom-right registration mark.

Move the cursor to the target image area; the pointer will change to a vertically flipped L mark ("┐").

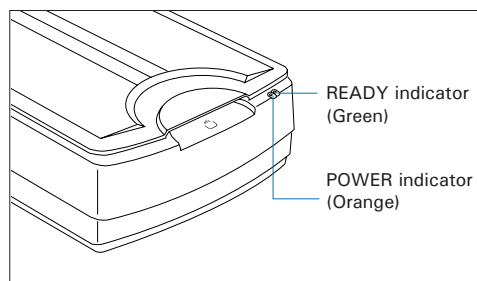
Align the cursor with the small bottom-right registration mark.

Appendix

Troubleshooting

The green LED on the front panel indicates the status of the scanner. The orange LED beside it stands for power and should always stay on steady when the scanner is on.

		On - Ready to scan
		Flashing - Scanning
		Off - Call Tech Support



First, make sure that you have followed Steps 1 to 4 as described in the “Initial Setup” section of this manual (unpack, install, unlock, connect). Then if your problem is listed here, try the suggested solution.

- 1. No light comes on when the scanner is turned on.**

Make sure your scanner is connected to your computer and plugged into a power source.

Make sure your operating system has detected your scanner.
- 2. Add/Remove Hardware Wizard appears on your screen.**

Click the “Cancel” button and close the Control Panel. Disconnect the USB cable from the back of your computer, and refer to the installation instructions in this manual.
- 3. When trying to scan, an error message appears on your screen that reads, “Can’t Find Scanners”.**

Make sure your scanner is unlocked.

Make sure your scanner is connected to your computer and plugged into a power source.

Uninstall and reinstall the ScanWizard-One or ScanPotter software.
- 4. After clicking scan, a blank screen appears.**

Make sure your scanner is unlocked.

Uninstall and reinstall the ScanWizard-One or ScanPotter software.

5. Having trouble scanning negatives or slides?

Make sure that you have properly inserted the film templates, as indicated in the "Positioning Transparent Materials" section of this manual. The film template should be placed correctly on the scanner glass surface, with the "Microtek" logo on the templates facing up.

From the ScanWizard-One, go the Scan Settings interface, choose either the "Positive" or "Negative" option from the "Material" menu.

From the ScanPotter, choose either the "Positive" Film or "Negative" option from the "Scan Source" menu.

Make sure that the calibration strip is unobstructed. For location of the calibration strip, see the "Positioning Transparent Materials" section.

Uninstall and reinstall the ScanWizard-One or ScanPotter software.

Specifications

Product Type	Scanner						
Model Type	MRS-3200A3U3L						
Image Sensor	CCD						
Light Source	LED						
Resolution	1600 dpi (H) x 3200 dpi (V)						
Scanning Mode	Color and grayscale in a single scanning pass 48-bit/24-bit color, 16-bit/8-bit grayscale (Output)						
Scanning Area	Reflective: 12" x 16.9" (304.8 mm x 429.3 mm) Transparent: 11.7" x 15.9" (297.1 mm x 403.8 mm)						
Scanning Speed	Reflective: < = 12 sec @400 dpi Transparent: < = 11.5 sec @400 dpi						
Dynamic range	Reflective: 0.1 to 1.9D Transparent: 0.05 to 3.3D						
Interface	USB 3.0						
Dimensions (LxWxH)	24.7" x 14.8" x 5.1" / 627.5 x 375.9 x 129.5 mm; 24.7" x 14.8" x 7.1" / 627.5 x 375.9 x 180.5 mm (w/TMA)						
Weight	24.3 lbs / 11 kg 33.1 lbs / 15 kg (w/TMA)						
Voltage	AC 100-240V, 50/60 Hz, 1.3A Max. DC 24V, 3.75A Max.						
Power Consumption	90W Max.						
Power Supply (AC/DC adapter)	<table><tr><td>Voltage</td><td>Manufacturer</td><td>Model No.</td></tr><tr><td>AC 100V to 240V</td><td>MEAN WELL</td><td>GST90A24</td></tr></table>	Voltage	Manufacturer	Model No.	AC 100V to 240V	MEAN WELL	GST90A24
Voltage	Manufacturer	Model No.					
AC 100V to 240V	MEAN WELL	GST90A24					
Environment	Operating temperature: 41° to 104°F (5° to 40°C) Relative humidity: 20% to 85%						
Option Device	Transparent Media Adapter (Model: TMA1630)						