

# User Guide



## Getting to Know Your ArtixScan 3200XL

The ArtixScan 3200XL is a tabloid-size scanner with a 12" x 16.9" scan bed, 3200 x 6400-dpi optical resolution, 4.2 maximum optical density, a Hi-Speed USB interface, and one Smart-Touch button on the front panel for an easy access to the scan function. With the use of the TMA 1600-III Transparent Media Adapter, you can also scan film and transparencies – including X-rays – up to 12" x 16 1/16" in size.

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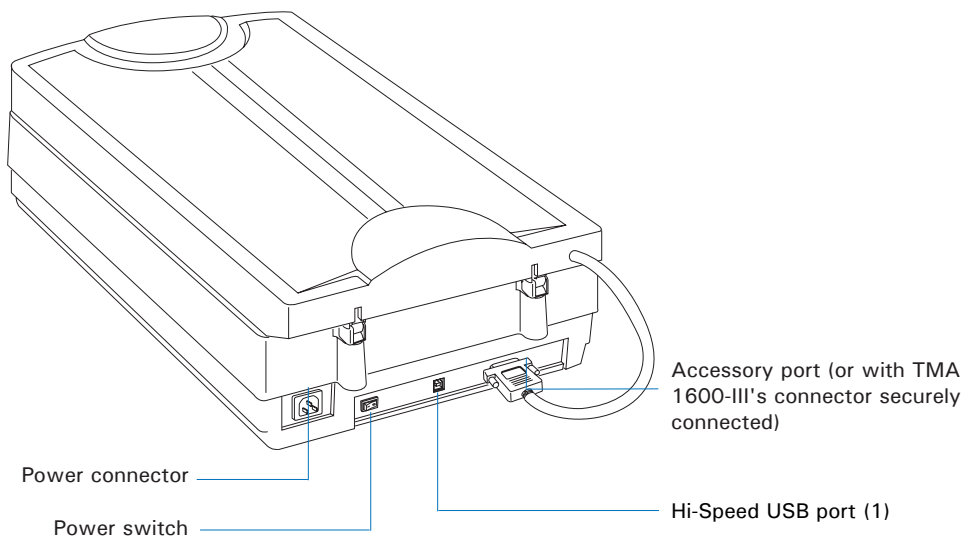
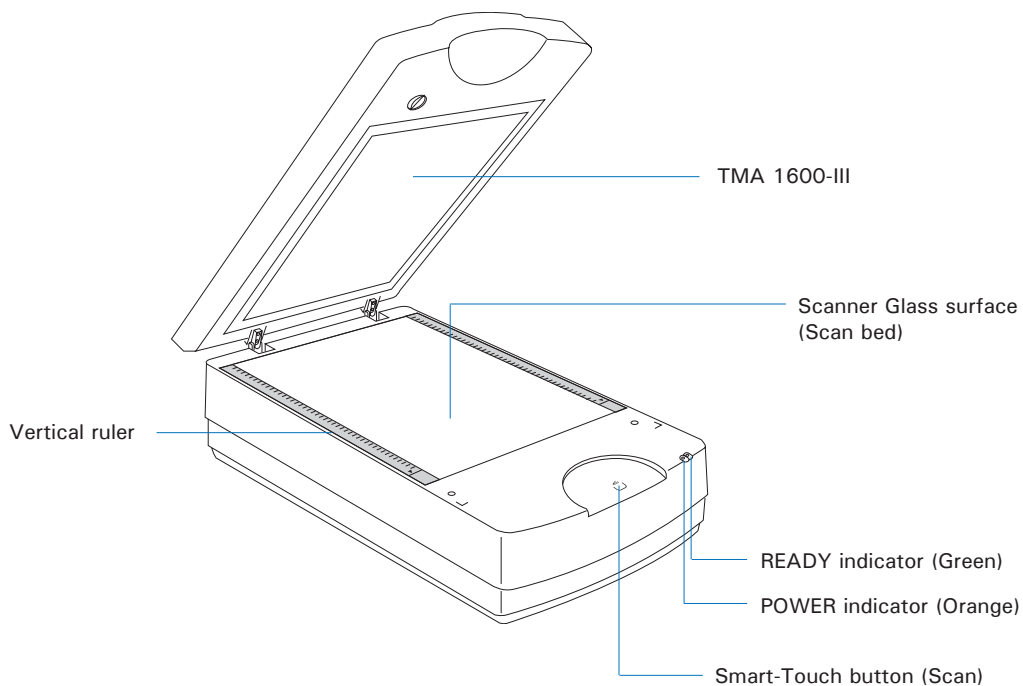
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## Features of the ArtixScan 3200XL

The ArtixScan 3200XL comes with several important features, including the following:

- **Large 12" x 16.9" scan bed:** The tabloid-size scan bed of the ArtixScan 3200XL lets you easily scan oversized originals, contact sheets, large pieces of art, mechanical blueprints, and X-rays.
- **3200 x 6400-dpi resolution:** The exceptionally high resolution of the ArtixScan 3200XL lets you scan even postage-size images and enlarge them with amazing clarity, with little loss of detail. The scanner's 4.2 maximum optical density allows it to capture a wide range of tones approximating real-life color and hues.
- **Smart-Touch button:** A Smart-Touch button (Scan) locating at the front panel of the scanner provides you a quick and easy way to capture images that can be automatically saved as files or sent to another application for further processing later.
- **Energy-saving LED light source:** Adopting LEDs as the light source, when the scanner is detected by the system, there are no requirements for any warm-up time before carrying out the scan, which boots your productivity and reduces energy costs amazingly. With its stable performance, the image quality will remain consistent even after used for a certain period of time.
- **Microtek's ColoRescue™ system:** With ColoRescue, the ArtixScan 3200XL restores faded colors in photos and film, bringing hues back to their original luster and brilliance for more vibrant images. ColoRescue's one-click, automatic color recovery process is simple and straightforward, involving no learning curve or hassle.
- **Transparent Media Adapter:** With the use of the TMA 1600-III, you can scan X-rays, positive transparencies, and negative film. The included templates accommodate a variety of film sizes, including 35mm slides, 35mm filmstrips, 4" x 5" film, and medium format film from 6 x 4.5-cm up to 6 x 17-cm panoramic film.
- **Microtek ScanWizard™ Pro scanning software:** This is an advanced scanner controller program that provides many powerful, professional-level features for scanning. ScanWizard Pro features two color spaces, allowing users to work in the Native CMYK / RGB mode, as well as in the intuitive LCH (Lightness, Chroma, Hue) mode.
- **Microtek ScanPotter scanning software (Mac):** ScanPotter is a scanning software developed exclusively for Microtek scanners running on a Mac system. ScanPotter has a unique and clean interface that users will find productive and easy to use.

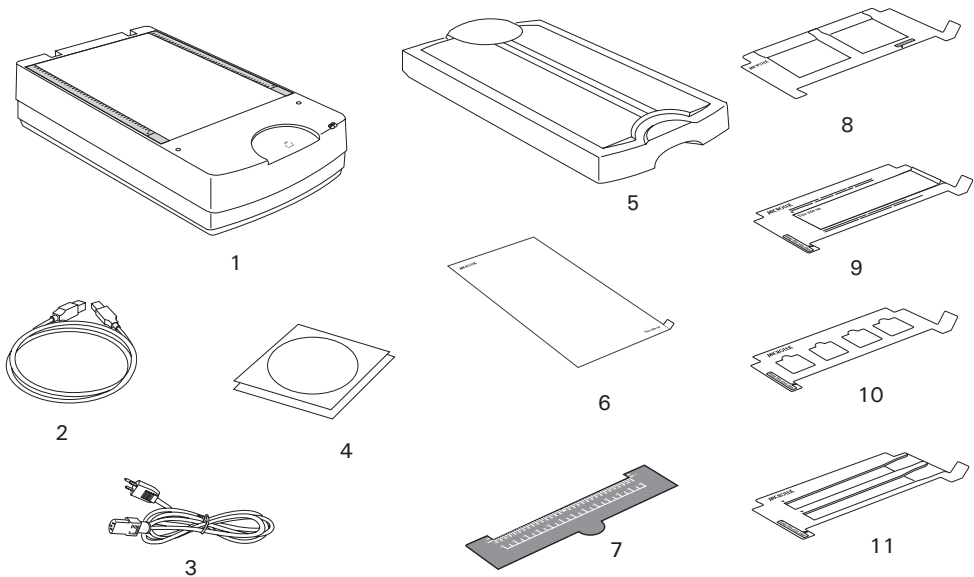
## Taking a Closer Look



## Initial Setup

### Step 1: Unpacking Package Contents

After unpacking your scanner package, please check for the major components listed below.



- ❶ ArtixScan 3200XL (lower base)
- ❷ USB Cable
- ❸ Power Cord
- ❹ Software DVDs
- ❺ TMA 1600-III
- ❻ Black Plate - for scanning reflective media
- ❼ U-shaped Ruler (Calibration Ruler) - for calibrating your scanner or scanning film with using templates
- ❽ 4" x 5" Film Template (2)
- ❾ 120 Film Template with Black Plate (3)
- ❿ 35mm Slide Template (3)
- ⓫ 35mm Filmstrip Template (3)

## Step 2: Installing the Software

**Important:** Do not remove the yellow stickers from your scanner until you are told to do so. You must install all software before connecting your scanner.

Always close any open programs and turn off Anti-virus utilities before installing software.



### PC:

1. Place the **Microtek Software DVD** into a drive, and follow the on-screen instructions to install the scanner driver and software.
2. Restart your computer at the end of all software installation.

If the Microtek Software Installer screen does not come up automatically, double-click the following in succession: My Computer; the DVD-ROM icon; then cdsetup.exe to start the installer program.

*NOTE: If your computer with no DVD drive, please go to the Microtek Download site, <https://microtek.com/en/download>, and download the required programs for your scanner and install them on your computer.*



### Mac:

1. Go to the Microtek Download site, <https://microtek.com/en/download>.
2. Enter the model name “ArtixScan 3200XL” and select the operating system “macOS 10.15 or later”; then, click **Search**.
3. After the search is complete, click **Download** next to the “ScanPotter 2” driver to start downloading the file.
4. When finished, double-click the downloaded file “**scanpotter\_2.x.x.x.dmg**” to open it; then, drag “**ScanPotter.app**” into your “Applications” folder and then it will be installed.

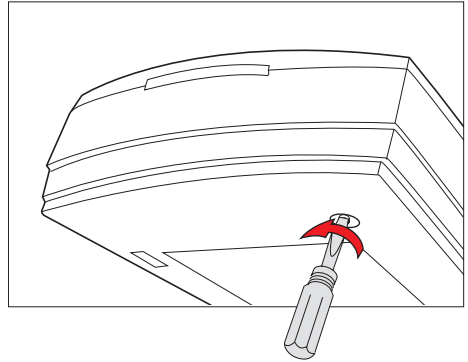
### Step 3: Unlocking the Scanner

Before you can operate the scanner, you will need to unlock the scanner.

To unlock the scanner, follow the steps below:

1. Remove the yellow “Step 3” 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.



### Shipping the Scanner

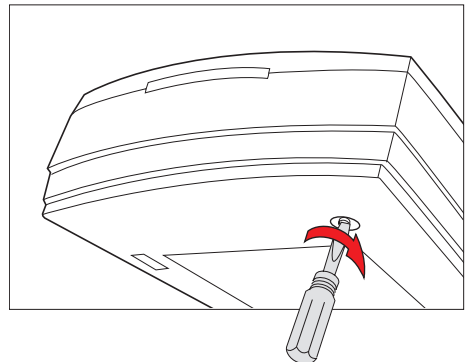
If you have to transport the scanner, you will need to lock the scanner back. Follow the steps below:

1. Turn off the scanner.
2. Turn the scanner back on.

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.

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

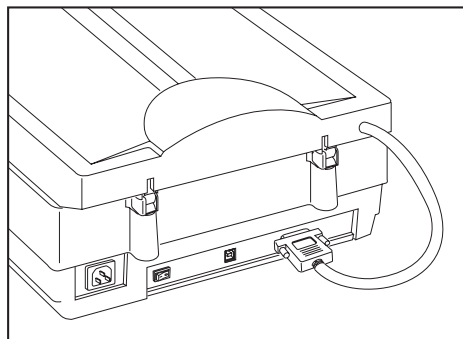
3. Turn off your scanner.



## Step 4: Connecting the Scanner

### To the scanner lid

Make sure the scanner lid (TMA) is properly installed, with its connector securely connected to the scanner's 15-pin accessory port. Refer to the next section "Installing the TMA 1600-III" for the details about the connection of the TMA.



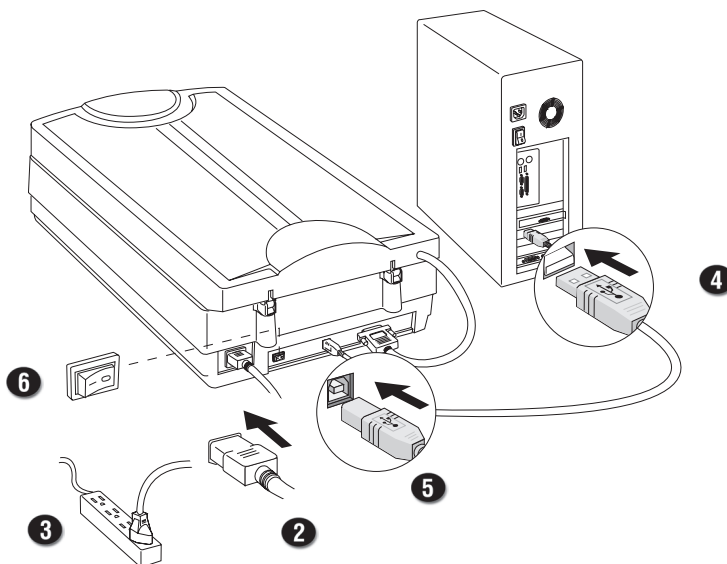
### To the power adapter

1. Remove the yellow "Step 4" sticker from your scanner.
2. Connect the power cord to the back of the scanner.
3. Plug the power cord into a power source.

### To the Hi-Speed USB cable

4. Connect one end of the cable to your computer.
5. Connect the other end of the cable to the scanner.
6. Press the power switch at the back of your scanner, and wait for the orange indicator light on the front panel to stop blinking and the green indicator light stay on steady.

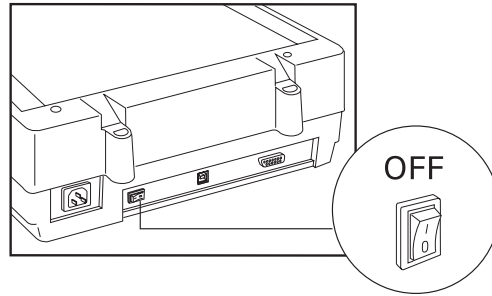
The system will detect your scanner automatically.



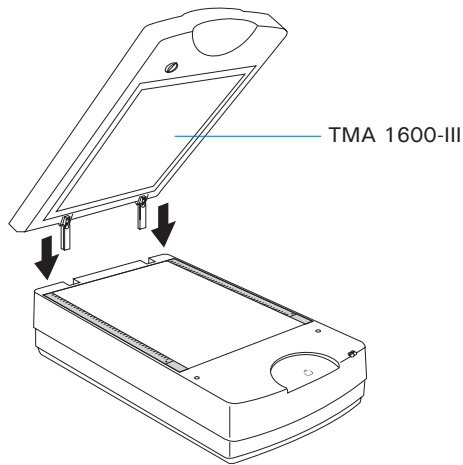
## Installing the TMA 1600-III

Before starting your first scan, you have to install the TMA 1600-III first on your scanner. To install your TMA 1600-III, follow the steps below:

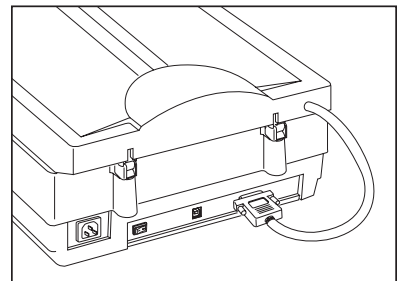
1. Check to make sure that the scanner power is switched off.



2. Attach the TMA 1600-III by sliding the posts at the rear of the TMA 1600-III into the holes.




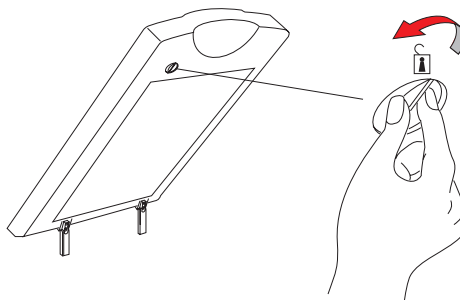
3. Plug the connector of the TMA 1600-III into the scanner's 15-pin accessory port.



## Unlocking the TMA 1600-III.


To unlock the TMA 1600-III, follow the steps below:

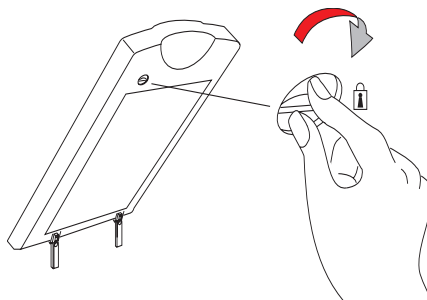
1. Remove the yellow “Step 3” sticker from the TMA 1600-III.
2. Look for the locking knob at the base of the TMA 1600-III.
3. Turn the locking knob counterclockwise to the unlock position “”.



## Shipping the TMA 1600-III

If you have to transport the TMA 1600-III, you will need to lock the TMA 1600-III back. Follow the steps below:

1. Make sure the TMA 1600-III is connected to the scanner, then turn off the scanner if your scanner is on.
2. Turn the scanner back on. The TMA 1600-III's carriage will move to the standby position in a few moments.
3. When the indicators on the front of your TMA 1600-III and scanner stop blinking, turn the locking knob clockwise to the lock position “”.
4. Turn off your scanner and disconnect the TMA 1600-III connector from the scanner. The TMA 1600-III is ready for transport.

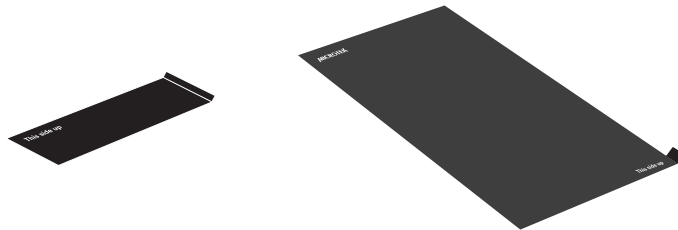


## Positioning Transparent Film

To scan transparent film, use the templates and U-shaped Ruler (Calibration Ruler ) included with your scanner package. There are four types of templates – 35mm Slide Template, 35mm Filmstrip Template, 120 Film Template, and 4" x 5" Film Template. Use the template that correctly matches the film type to be scanned. The use of the individual film template is explained in the succeeding pages of the manual.

### The Black Plate

Light from the TMA 1600-III and other ambient light during scanning may result in overexposed images. The Black Plate is designed to work with 120 film and reflective originals. To ensure correct exposure and optimal image quality during scanning, the Black Mat should be used to shield unwanted light out. Two kinds of Black Plates are available with your scanner package.



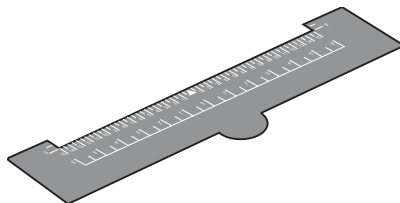
Take note of the following before using the Black Plate.

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 film from the plate, be careful not to tear or bend the Black Plate.



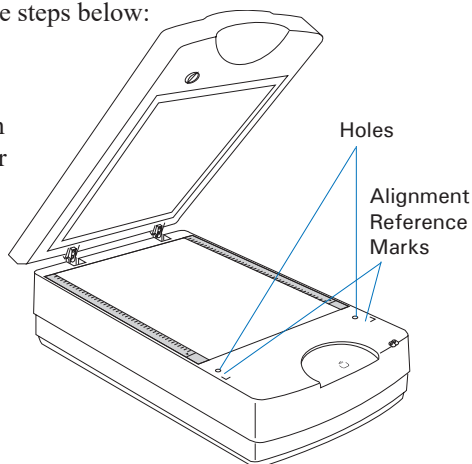
## Using the U-shaped Ruler (Calibration Ruler)

The U-shaped Ruler (Calibration Ruler) is designed to work with the film template. When scanning a film, it is helpful to position the film properly. Before placing the template on the scanner glass surface, make sure first that the U-shaped Ruler has been put on the scanner glass surface.

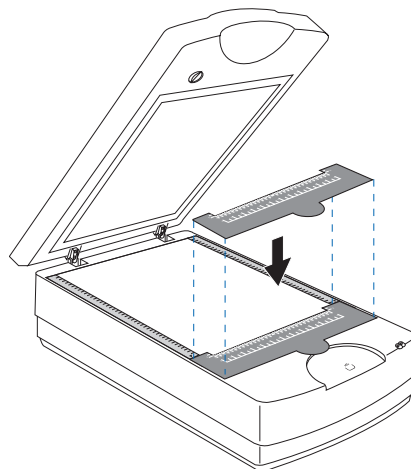


To place the U-shaped Ruler, follow the steps below:

1. Find out two Alignment Reference Marks (“┌””) and holes locating on the both sides of the scanner's upper front surface.

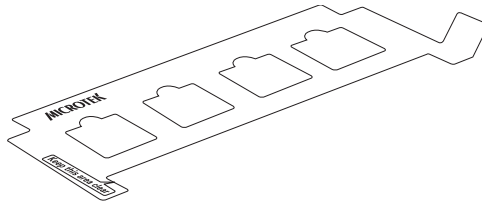


2. Using the Alignment Reference Marks as a point of reference to place the U-shaped Ruler, insert the tabs at the back of the ruler into the holes on the both sides of the scanner's upper front surface, making sure that it has been oriented correctly.

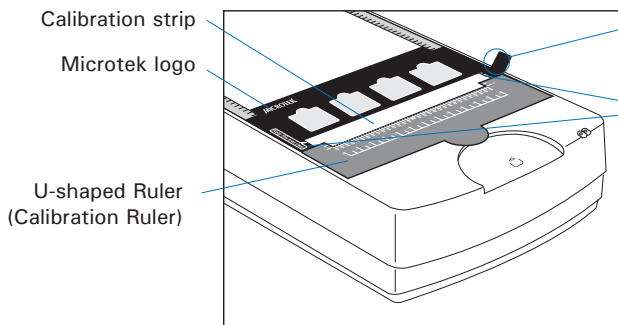


## A. Using the 35mm Slide Template

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



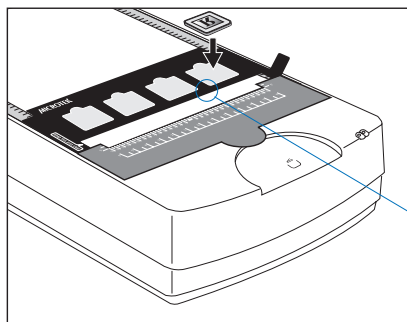
1. Place the 35mm Slide Template on the scanner glass surface. Make sure to orient the template with the “Microtek” logo facing up.



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.

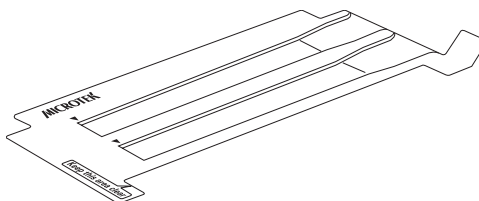
2. Place the 35mm slides to be scanned inside the individual frames of the 35mm Slide Template. The shiny base of the 35mm slide should be facing down, and the emulsion side of the slide should be facing up.



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

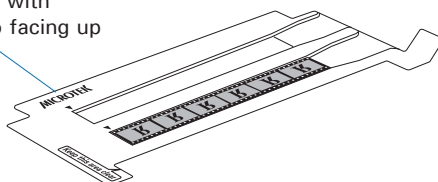
## B. Using the 35mm Filmstrip Template

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.

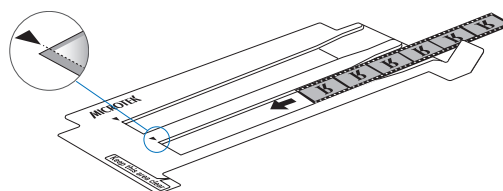


1. Place the 35mm filmstrip to be scanned inside the frame of the 35mm Filmstrip Template. The shiny base of the 35mm filmstrip should be facing down, and the emulsion side of the filmstrip should be facing up.

Orient template with "Microtek" logo facing up

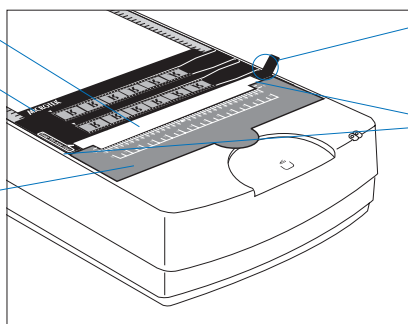


Align the edge of the film frame with the arrow mark of the template



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  
U-shaped Ruler (Calibration Ruler)

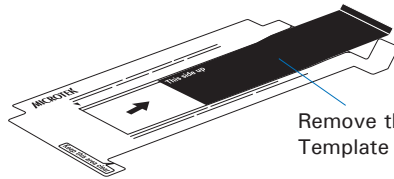


The **Grabber** is used to remove the template out of the scanner glass surface.

**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

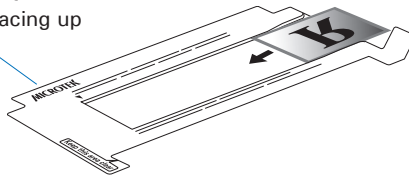
To scan 6 x 4.5 cm, 6 x 6 cm, 6 x 7 cm, 6 x 9 cm, and 6 x 17 cm panoramic film, use the 120 Film Template, which can hold up to 4 pieces of 6 x 4.5 cm film, 2 pieces of 6 x 9 cm film, or a single piece of 6 x 17 cm panoramic film.



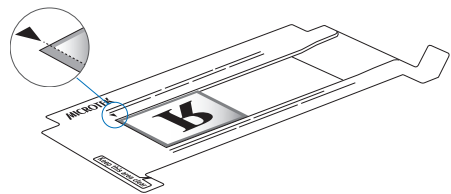
Remove the Black Plate from the 120 Film Template before loading the 120 film

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.

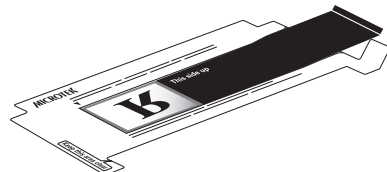
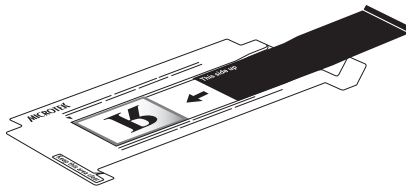
Orient template with "Microtek" logo facing up



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

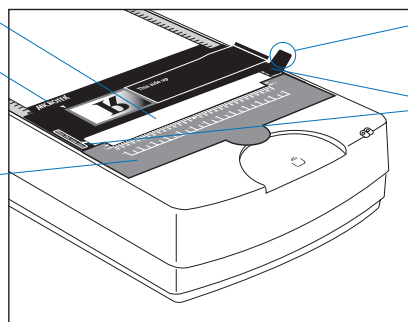


2. Load the Black Plate into the template frame, with the side of the Black Plate that reads "This side up" facing up. Slide the Black Plate until its edge is against the film and completely covers the blank spaces of the template.



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  
U-shaped Ruler (Calibration Ruler)

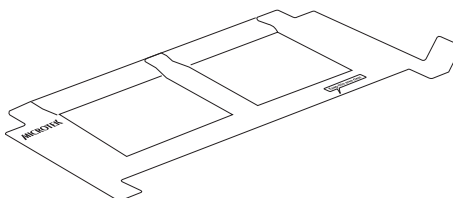


The **Grabber** is used to remove the template out of the scanner glass surface.

**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.

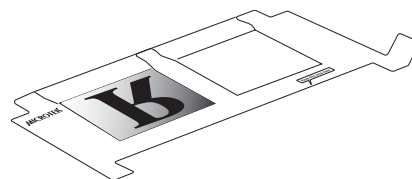
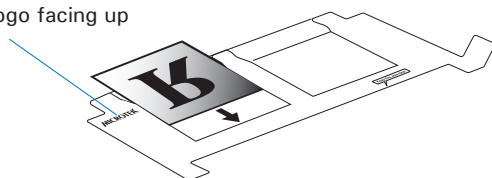
## D. Using the 4" x 5" Film Template

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.



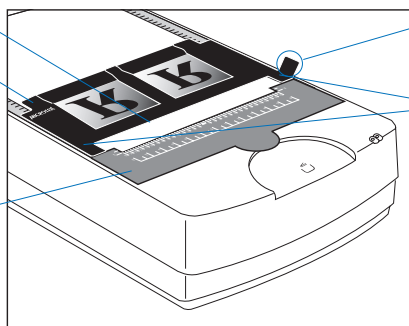
1. Place the 4" x 5" film to be scanned inside the frame of the 4" x 5" Template. The shiny base of the 4" x 5" film should be facing down, and the emulsion side of the film should be facing up.

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  
U-shaped Ruler  
(Calibration Ruler)

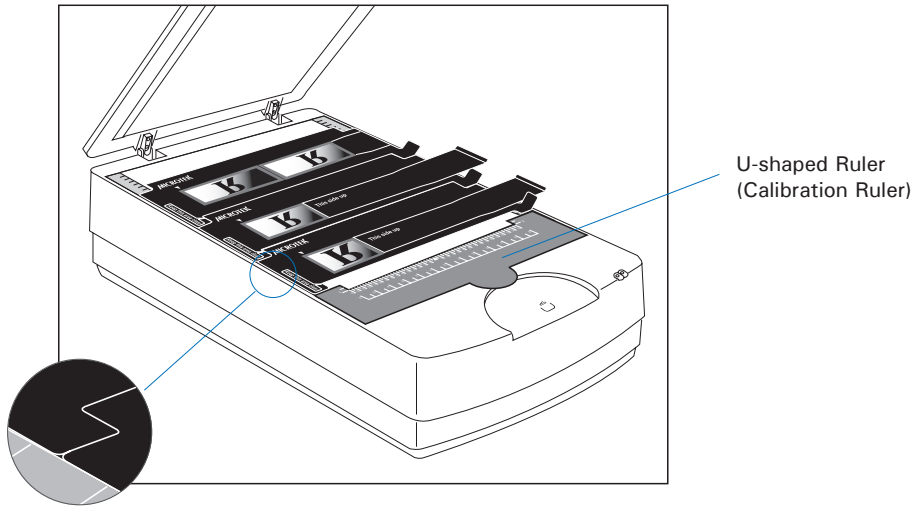


The **Grabber** is used to remove the template out of the scanner glass surface.

**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.

## Positioning Multiple Templates

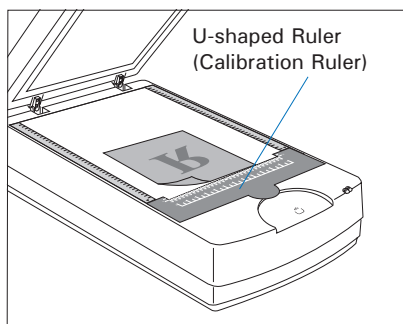
At least two sets of each template are included in your scanner package for multiple placements of the templates on the scanner. The templates can be placed side by side on the scanner glass surface, as shown in the illustration below.



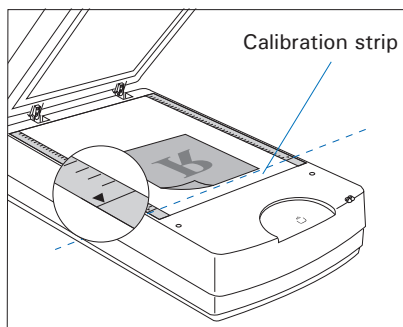
## Positioning Non-Standard-Size Film

When scanning non-standard-size transparent film, such as 8" x 10" film, medical or dental X-ray film, you can choose either to use or not to use the U-shaped Ruler (Calibration Ruler) together with the film. The supported film size is up to 12" x 16.9".

1. Optional: Follow the procedures in "Using the U-shaped Ruler (Calibration Ruler)" to put the U-shaped Ruler on the scanner glass surface first.
2. Place the film (X-ray or other nonstandard size) to be scanned on the scanner glass surface.



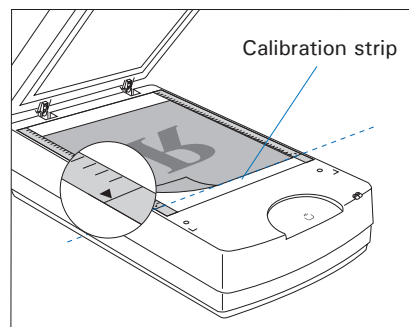
**To scan with the U-shaped Ruler**, place the film face down on the scanner glass surface and center the film along the U-shaped Ruler on the scanner.



**To scan without the U-shaped Ruler**, use the red arrows printed on the vertical rulers of both sides of the scanner as an alignment guide to place the film. Then, place the film on the scanner glass surface. 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.

Please note that the U-shaped Ruler should be removed from the glass surface of the scanner if the width of the film is larger than the width of the U-shaped Ruler.

If the U-shaped Ruler is not going to be used, use the red arrows printed on the vertical rulers of both sides of the scanner as an alignment guide to place the film. Then, place the film on the scanner glass surface. 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.

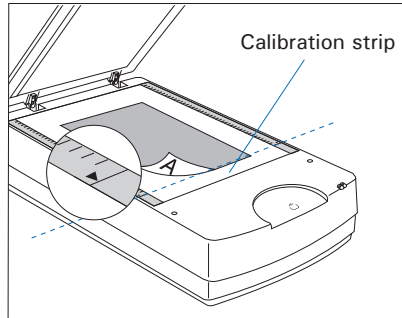


## Positioning Reflective Originals



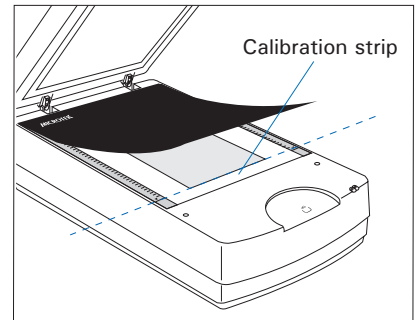
To scan reflective originals such as photos, you can use the ArtixScan 3200XL with the TMA 1600-III, you will need to use the Black Plate included in the scanner package to shield unwanted light.

1. Refer to the steps mentioned above to place the reflective original on the scanner glass surface.



During placement of the reflective original, make sure that the calibration strip on the scanner glass surface is kept clear and free of obstruction at all times.

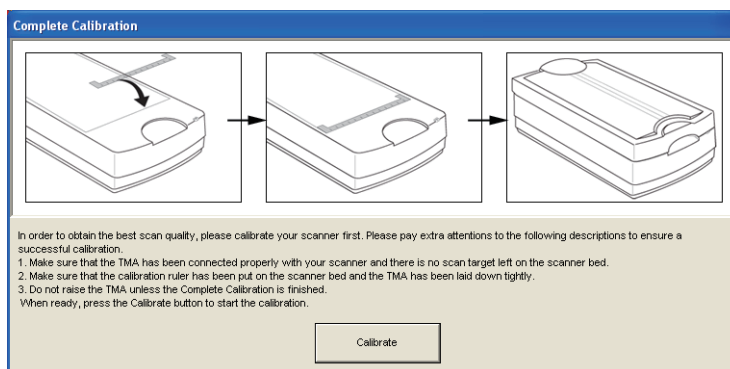
2. Peel the protective film from the Black Plate.
3. Put the Black Plate on top of the reflective photo to be scanned, so that the Plate covers the photo. The side of the Black Plate that reads “This side up” should be facing up.
4. Lower the TMA 1600-III down onto the scanner glass surface gently.



## Calibrating Your Scanner

When you launch the ScanWizard Pro for the first time, you need to calibrate your scanner. Remember, in order to ensure that your scanner will work properly and provide accurate image results, the scanner calibration is a **MUST** procedure when setting up your scanner. To calibrate your scanner, follow the steps below:

1. Double-click the **ScanWizard Pro** icon on your desktop to launch the ScanWizard Pro.
2. If this is your first time to launch the ScanWizard Pro, you will be prompted to perform a calibration for your scanner. A Complete Calibration window appears.



3. In order to calibrate your scanner successfully, make sure that you have met all the conditions mentioned in the window. If not, follow the steps below to set up your scanner:
  - a) Follow the procedures in “Installing the TMA 1600-III” and “Unlocking the TMA 1600-III” sections to install your TMA 1600-III.
  - b) Follow the procedures in “Using the U-shaped Ruler (Calibration Ruler)” section to put the U-shaped Ruler on the scanner glass surface.
  - c) When finished, lower the TMA 1600-III down on the scanner glass surface gently.
4. Click the **Calibrate** button to start calibration for your scanner.

During calibrating, a processing progress bar will appear on the screen, showing the running status of the scanner.

5. When the calibration is done completely, a window will appear on the screen to notify you. Now, you may use the ScanWizard Pro as usual.

Click the **OK** button to close the calibration window.

**NOTE:**

- *Before clicking the “Calibrate” button, make sure firmly that the TMA has been connected properly with your scanner, the U-shaped Ruler (Calibration Ruler) has been put on the scanner glass surface correctly, and the scanner glass surface has been kept clear.*
- *The calibration will take you amounts of time (approx. 10 minutes). Therefore, please be patient while the scanner is calibrating.*
- *If you update the firmware to a new version, you have to redo the scanner calibration for optimal images. Before recalibrating your scanner, the calibration data made with the U-shaped Ruler (Calibration Ruler) should be removed from your system. Using one of the following two methods to remove the calibration data:*
  - A. *Switch to the folder “C:\Program Files\Microtek\ScanWizard Pro\Scanners” (where C:\ is your ScanWizard Pro location), then delete the calibration data Calidata91\_XXXXXXXXX.dat, Calidata2191\_XXXXXXXXX.dat or Calidata219b\_XXXXXXXXX.dat from the folder.*
  - B. *Reset all calibration data.*
    - 1) *Launch ScanWizard Pro. In the Preview window, select “Calibration Settings” from the Preferences menu.*
    - 2) *Set the Calibration Mode as "Smart", and then click the “Execute” button next to the “Reset All Calibration Data” to reset all calibration data. The calibration data file saved in “C:\Program Files\Microtek\ScanWizard Pro\Scanners” folder will be removed automatically.*

*When done, launch ScanWizard Pro, you will be invited to calibrate the scanner again. Follow the on-screen instructions to calibrate your scanner.*

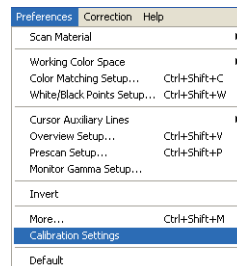
**Notice to WIA Users**

Before using the WIA (Windows Image Acquisition) scanning driver to scan, you should put the U-shaped Ruler on the scanner glass surface, which ensures that your scanner will function properly. For more details about how to position the U-Shaped Ruler on the scanner glass surface, see the “Using the U-shaped Ruler” section in this manual.

## Calibration Settings

For a better scan quality, the ArtixScan 3200XL can be set and calibrated with ScanWizard Pro based on your preferences.

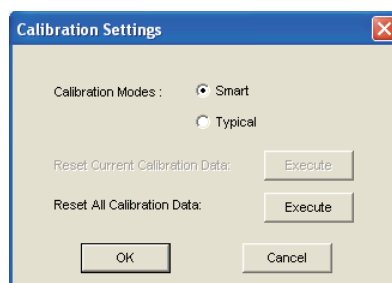
To activate the Calibration Settings, go to the Menu bar at the top of ScanWizard Pro and then click the **Preferences** menu. Click on the “Calibration Settings” command to activate the sub-menu.



### Smart Calibration Mode

This is the default setting of the program. When this option is selected, ScanWizard Pro will memorize the calibration values generated by different scanning settings the first time when you launch the ScanWizard Pro.

When you perform the next scan job, the scanner will skip the calibration step and directly execute your order. This mode enhances the scanning speed enormously.



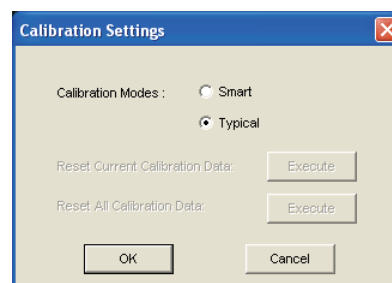
#### Reset All Calibration Data

If you click on the **Execute** button in the Smart Calibration Mode, ScanWizard Pro will delete all saved calibration data; therefore, the program will need to recalibrate your scanner to memorize the calibration values before you perform a scan job. This option is useful to check the precision and quality of the scanner.

### Typical Calibration Mode

If this option is selected, ScanWizard Pro will calibrate the scanner every time before performing a scan job. This mode takes more time, but ensures an optimal scan quality each time you scan.

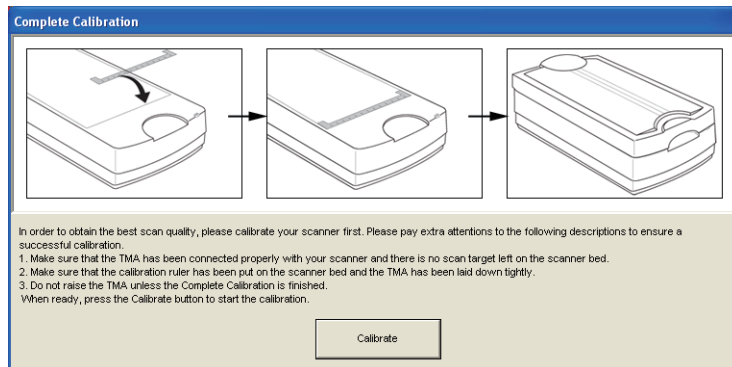
Please take note that when the Calibration Mode is set as “Typical”, the scanner will proceed directly once the calibration is finished. Therefore, you need to put the document to scan on the scan bed in advance.



## Your First Scan

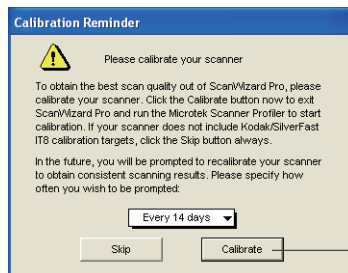
This section is to guide you to perform your first scan by using the ScanWizard Pro. You should familiarize yourself with the basic scanning technique before you continue further scanning scenarios described in next pages.

1. Launch ScanWizard Pro either as a standalone by clicking the program icon, or by using the File-Import or File-Acquire command from your image-editing program (such as Adobe Photoshop).
  - If this is your first time to launch the ScanWizard Pro, you will be prompted to perform a calibration for your scanner. For details about how to calibrate your scanner, refer to the section titled “Calibrating Your Scanner” in this manual.



*NOTE: It is a must procedure and activated automatically only when the ScanWizard Pro is started up for the first time. When you follow the on-screen instructions to finish the calibration, you will not be asked to perform the calibration anymore when you scan photos or film later.*

- When the scanner calibration is finished, you will be prompted to perform color calibration for your scanner.



Allows you to specify how often you wish to be prompted to calibrate the scanner. The default setting is 14 days

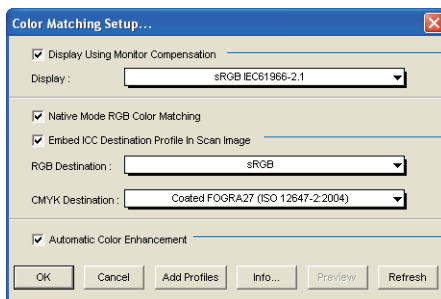
- Click the **Skip** button to exit the “Calibration Reminder” window. Clicking the **Skip** button allows you to use the factory default ICC profile for your scanner.

*NOTE: If your scanner does not include IT8 calibration targets, disregard the Calibration reminder window whenever it appears, and click the Skip button always.*

- Click the **Calibrate** button to run the Microtek Scanner ICC Profiler (MSP) program to perform color calibration and to customize the ICC profile for your scanner. After finishing with calibration, relaunch ScanWizard Pro.

*NOTE: The MSP program should be installed before you perform color calibration for your scanner. For details on how to install the MSP program and how to use it to calibrate the scanner, refer to section of the manual titled “Microtek Calibration Kit”.*

- Next, you will be prompted to set up color matching for your scanner. If you are not sure about what to do, simply click the **OK** button to accept the settings. You can always change the settings at a later time.



Pertains to how your monitor displays color, relative to the RGB Destination color space

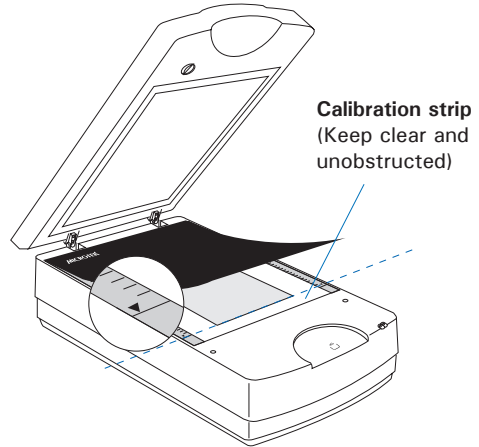
Color Matching features

Improves the contrast and saturation of an image

For more information, see the *Color Matching Setup* section in the *ScanWizard Pro Reference Manual* in the Microtek Software DVD.

2. Place the photo to be scanned on the scanner glass surface.

- a) Raise the TMA 1600-III.
- b) Use the red arrows printed on the vertical rulers of both sides of the scanner as an alignment guide and then place your photo face down on the scanner glass surface, towards the front of the scanner.



- c) Put the **Black Plate** on top of the photo to cover it, with the side of the Black Plate that reads “This side up” facing up. Follow the procedures on page 18 for how to position reflective originals and use the Black Plate.

3. Go to the Preview window of ScanWizard Pro, and choose **Reflective** from the **Scan Material** menu.

4. Optional: If calibration has been performed, go to the Settings window in ScanWizard Pro. Choose the profile you have just created in the **Input Profile / Scanner Profile** menu.

5. Click the **Overview** button to perform a preliminary scan of the image, which will appear in the Preview window.

6. Select the **Scan Frame** tool from the Toolbar 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.

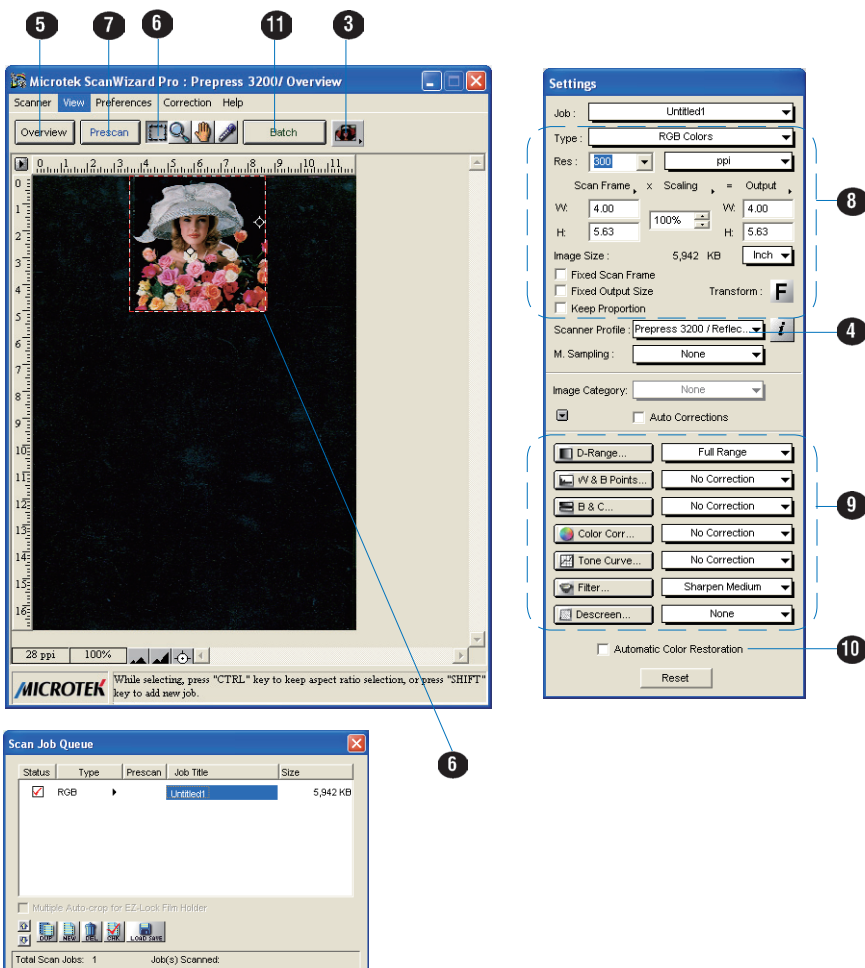
7. Click the **Prescan** button to display a detailed image of area selected by the Scan Frame tool. A thumbnail of the image appears as well in the Scan Job Queue window.

8. Specify your scanning requirements in the Settings window.

- a) Select a desired image type.
- b) Select a desired resolution.
- c) Adjust the scan frame settings if necessary.

9. Adjust image quality if necessary, using the Advanced Image Correction (AIC) tools.

10. If the colors in your photo are faded and need restoring, check the “Automatic Color Restoration” box in the Settings window.
11. Click the **Scan** (or “Batch”) button in the Preview window or on the scanner unit to start scanning.
  - If ScanWizard Pro was launched from an application program, the image is then delivered to your application, where the image can be saved, printed, or edited.
  - If ScanWizard Pro was launched in standalone mode, you will be prompted to specify the file attributes for the scanned image after the Scan or Batch button is pressed, such as entering the file name, specifying a folder name of your own, etc. When you have completed the settings, press the Done/Save button, and the scanner will automatically scan and save your image based on your settings.



## Scanning Scenarios

The following pages provide various scenarios for scanning with the ArtixScan 3200XL, including the following:

For PC Users Using ScanWizard Pro,

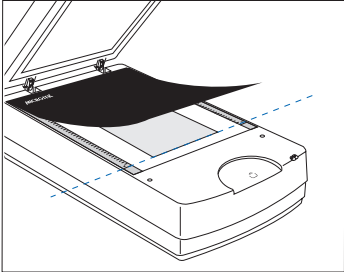
- **Scanning photos:** This scenario details the steps for scanning photos.
- **Scanning positive film:** This scenario details the steps for scanning positive film, such as 35mm mounted slides and X-rays.
- **Scanning negative film:** This scenario details the steps for scanning negative film, such as 35mm filmstrips, 6 x 17 cm (120) panoramic film, and 4" x 5" / 6 x 9 cm film.

For Mac Users Using ScanPotter,

- **Scanning photos and film:** This scenario details the steps for scanning photos and film.

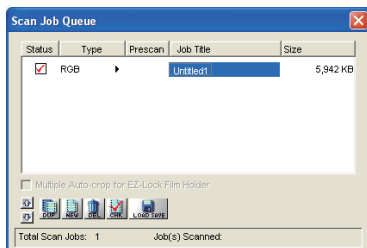
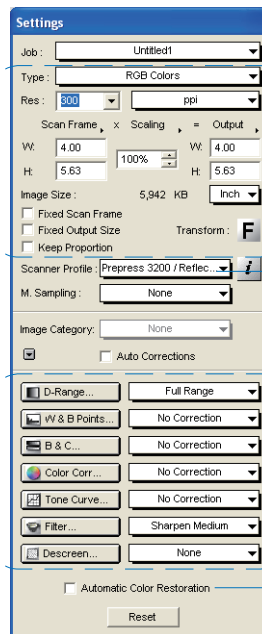
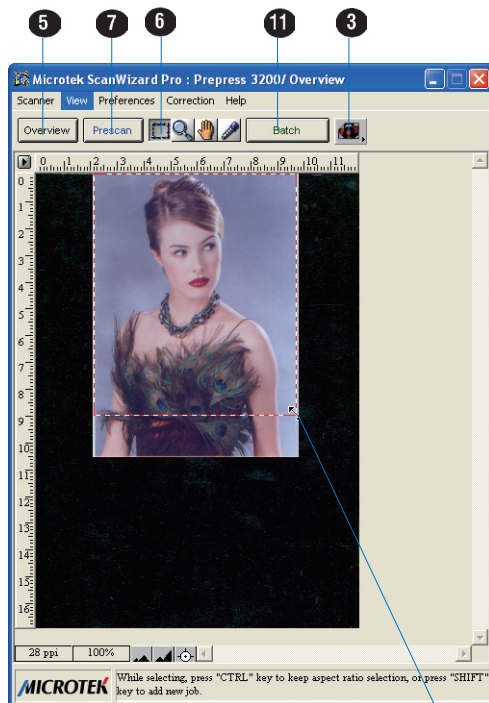
## For PC Users Using ScanWizard Pro

### A. Scanning Photos

1. Place the photo to be scanned face down on the scanner glass surface, as detailed in the “Positioning Reflective Originals” section in this guide.
- 
- The diagram shows a top-down view of a flatbed scanner. A dark, rectangular photo is placed on the scanner's glass surface. A dashed blue line indicates the photo's orientation. The scanner's lid is open, and the photo is positioned near the top edge of the glass. A small circular button is visible on the right side of the scanner's frame.
2. Launch ScanWizard Pro either as a standalone by clicking the program icon, or by using the File-Import or File-Acquire command from your image-editing program (such as Adobe Photoshop).
  3. Go to the Preview window of ScanWizard Pro, and choose **Reflective** from the **Scan Material** menu.
  4. Optional: If calibration has been performed, go to the Settings window in ScanWizard Pro. Choose the profile you have just created in the **Input Profile / Scanner Profile** menu.
  5. Click the **Overview** button to perform a preliminary scan of the image, which will appear in the Preview window.
  6. Select the **Scan Frame** tool from the Toolbar 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.
  7. Click the **Prescan** button to display a detailed image of area selected by the Scan Frame tool. A thumbnail of the image appears as well in the Scan Job Queue window.
  8. Specify your scanning requirements in the Settings window.
    - a) Select a desired image type.
    - b) Select a desired resolution.
    - c) Adjust the scan frame settings if necessary.
  9. Adjust image quality if necessary, using the Advanced Image Correction (AIC) tools.
  10. If the colors in your photo are faded and need restoring, check the “Automatic Color Restoration” box in the Settings window.

11. Click the **Scan** (or “Batch”) button in the Preview window or on the scanner unit to start scanning.

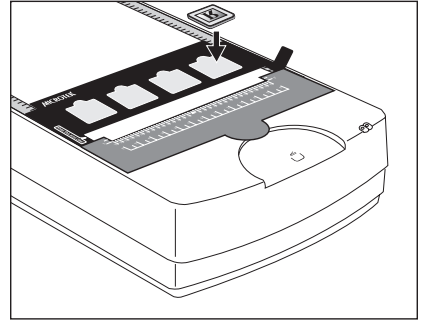
- If ScanWizard Pro was launched from an application program, the image is then delivered to your application, where the image can be saved, printed, or edited.
- If ScanWizard Pro was launched in standalone mode, you will be prompted to specify the file attributes for the scanned image after the Scan or Batch button is pressed, such as entering the file name, specifying a folder name of your own, etc. When you have completed the settings, press the Done/Save button, and the scanner will automatically scan and save your image based on your settings.



6

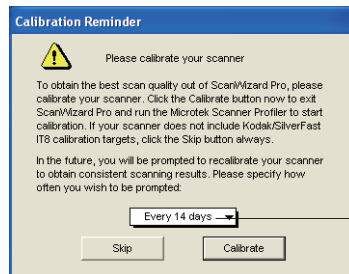
## B. Scanning Positive Film

1. Select the film you wish to scan, then position the transparent films on the scanner glass surface, as detailed in the “Positioning Transparent Film” section of this guide.



2. Launch ScanWizard Pro either as a stand-alone by clicking on the program icon, or by using the File-Import or File-Acquire command from your image-editing program (such as Adobe Photoshop).
3. Go to the Preview window and choose **Positive / Positive Film** from the **Scan Material** menu.

If this is your first time to scan transparent media, you will be prompted to perform color calibration for your scanner. A Calibration Reminder window appears.



Allows you to specify how often you wish to be prompted to calibrate the scanner. The default setting is 14 days

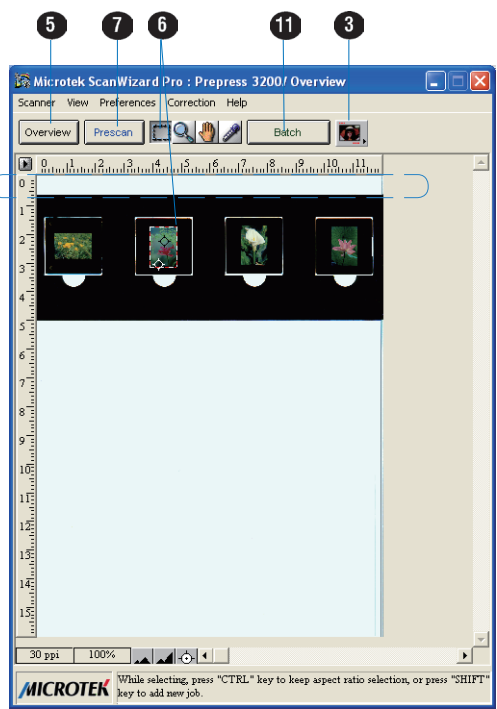
- Click the **Skip** button to exit the “Calibration Reminder” window. Clicking the Skip button allows you to use the factory default ICC profile for your scanner.

*NOTE: If your scanner does not include IT8 calibration targets, disregard the Calibration reminder window whenever it appears, and click the Skip button always.*

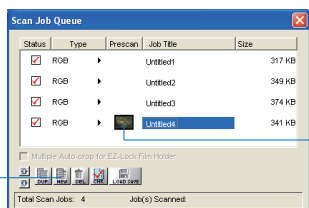
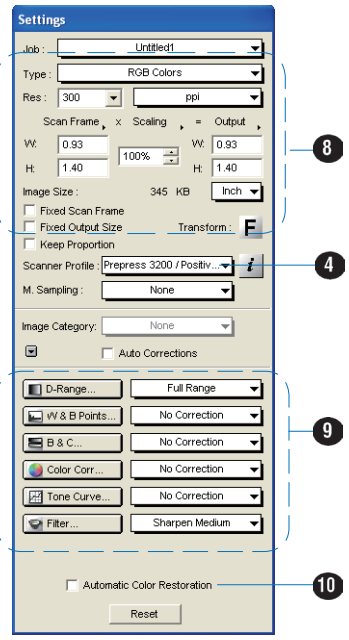
- Click the **Calibrate** button to run the Microtek Scanner ICC Profiler (MSP) program to perform color calibration and to customize the ICC profile for your scanner. After finishing with calibration, relaunch ScanWizard Pro.

*NOTE: The MSP program should be installed before you perform color calibration for your scanner. For details on how to install the MSP program and how to use it to calibrate the scanner, refer to section of the manual titled “Using the Microtek Scanner ICC Profiler”.*

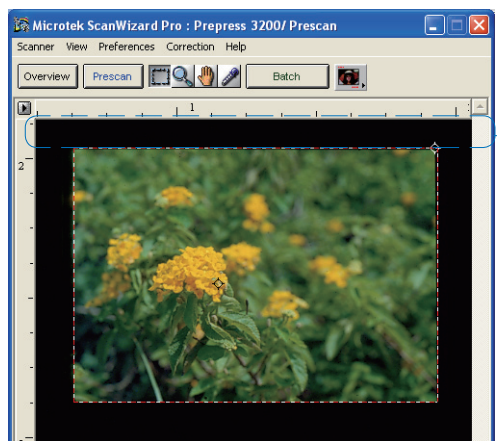
4. Optional: If calibration has been performed, go to the Settings window in ScanWizard Pro. Choose the profile you have just created in the **Input Profile / Scanner Profile** menu.
5. Click the **Overview** button to perform a preliminary scan of your original.
6. Select the **Scan Frame** tool from the Toolbar 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.
7. Click the **Precan** button to display a detailed image area selected via the Scan Frame tool. A thumbnail of the image appears as well in the Scan Job Queue window.
8. Specify your scanning requirements in the Settings window.
  - a) Select a desired image type.
  - b) Select a desired resolution.
  - c) Adjust the scan frame settings if necessary.
9. Adjust image quality if necessary, using the Advanced Image Correction (AIC) tools.
10. If the colors in your photo are faded and need restoring, check the “Automatic Color Restoration” box in the Settings window.
11. Click the **Scan** (or “Batch”) button in the Preview window or on the scanner unit to start scanning.
  - If ScanWizard Pro was launched from an application program, the image is then delivered to your application, where the image can be saved, printed, or edited.
  - If ScanWizard Pro was launched in standalone mode, you will be prompted to specify the file attributes for the scanned image after the Scan or Batch button is pressed, such as entering the file name, specifying a folder name of your own, etc. When you have completed the settings, press the Done/Save button, and the scanner will automatically scan and save your image based on your settings.



For film scanning using the template, it is normal for a blank strip to appear in the preview window after you perform a preliminary scan of your original.



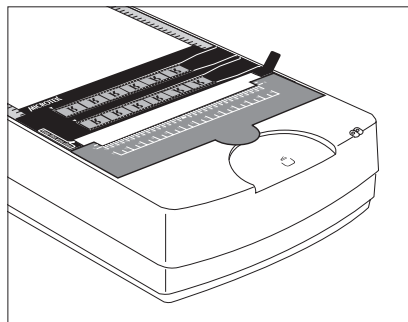
The New button allows you to create as many scan jobs as you wish, and each scan job can then have its own settings.



For film scanning using the U-shaped Ruler (Calibration Ruler), it is normal for a black area to appear in the preview window after you perform a prescan of your original.

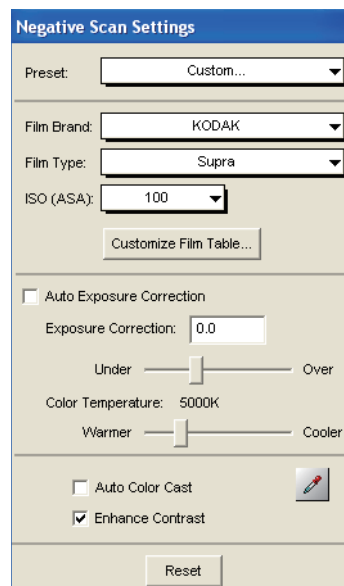
## C. Scanning Negative Film

1. Select the film you wish to scan, then position the transparent films on the scanner glass surface, as detailed in the “Positioning Transparent Film” section of this guide.



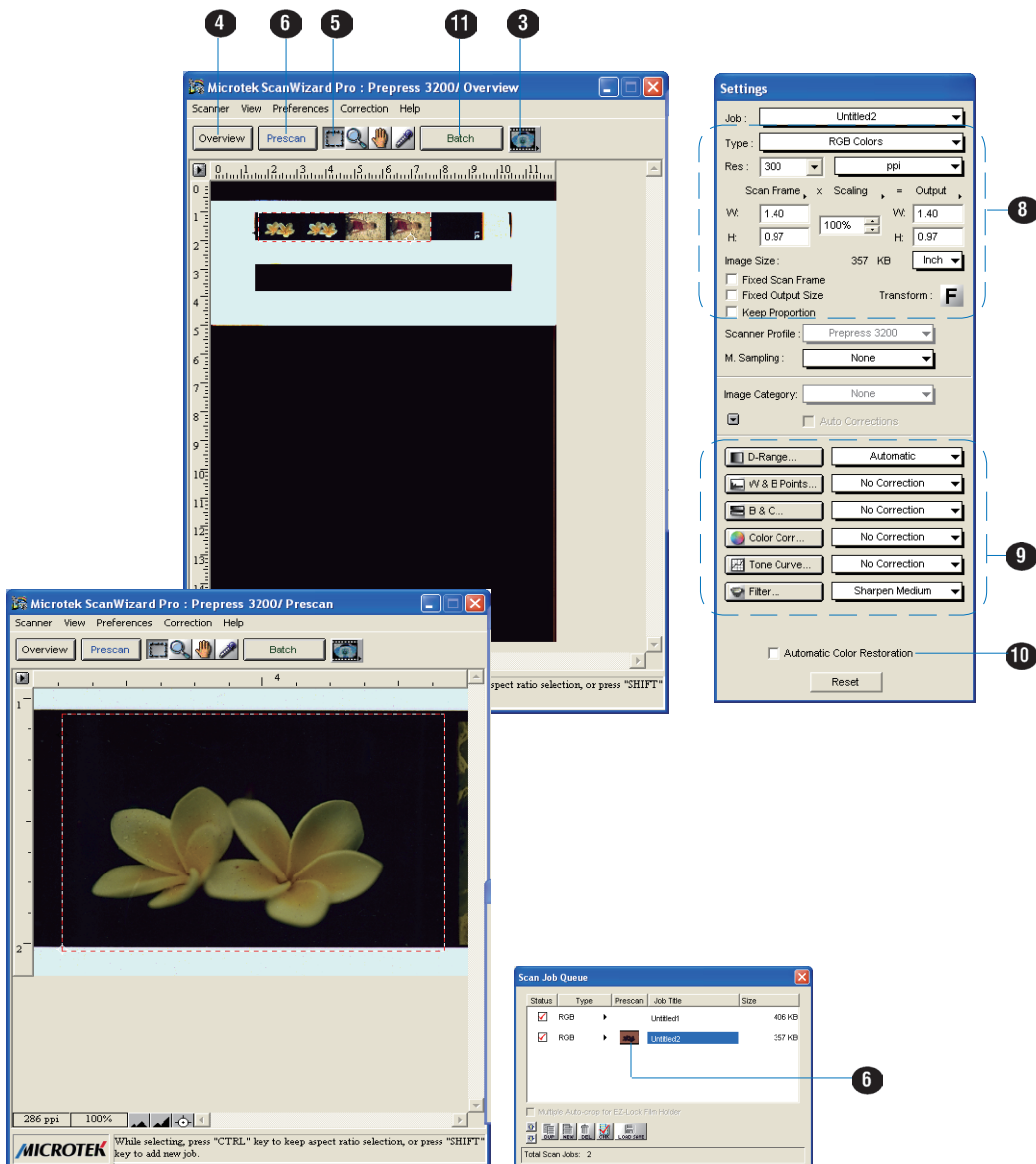
2. Launch ScanWizard Pro either as a stand-alone by clicking on the program icon, or by using the File-Import or File-Acquire command from your image-editing program (such as Adobe Photoshop).
3. Go to the Preview window and choose **Negative / Negative Film** from the **Scan Material** menu.
4. Click the **Overview** button to perform a preliminary scan of your original.
5. Select the **Scan Frame** tool from the Toolbar 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.
6. Click the **Prescan** button to display a detailed image. A thumbnail of the image appears as well in the Scan Job Queue window.
7. In the Negative Scan Settings window, you can specify options related to your scanned negative film. Follow the steps below.

- a) In the *Negative Scan Settings* window, choose the Film Brand, Film Type, and ISO settings that match your film.
- b) The settings for the negative film you selected are applied to the prescan image, and the adjusted image is displayed in the Preview window.
- c) You can save the selected negative film settings into the Preset drop-down menu for easy access in the future.



For more details on how to control settings for negative film scanning, see the section “Negative Scan Settings Window” in the ScanWizard Pro Reference Manual in the Microtek Software DVD.

8. Specify your scanning requirements in the *Settings* window.
  - a) Select a desired image type.
  - b) Select a desired resolution.
  - c) Adjust the scan frame settings if necessary.
9. Adjust image quality if necessary, using the Advanced Image Correction (AIC) tools.
10. If the colors in your film are faded and need restoring, check the “Automatic Color Restoration” box in the Settings window.
11. Click the **Scan** (or “Batch”) button in the Preview window or on the scanner unit to start scanning.
  - If ScanWizard Pro was launched from an application program, the image is then delivered to your application, where the image can be saved, printed, or edited.
  - If ScanWizard Pro was launched in standalone mode, you will be prompted to specify the file attributes for the scanned image after the Scan or Batch button is pressed, such as entering the file name, specifying a folder name of your own, etc. When you have completed the settings, press the Done/Save button, and the scanner will automatically scan and save your image based on your settings.



## For Mac Users Using ScanPotter

1. Place your material.
  - To scan photos: Place the photo to be scanned face down on the scanner glass surface, as detailed in the “Positioning Reflective Originals” section in this guide.
  - To scan film: Select the film you wish to scan, then position the transparent films on the scanner glass surface, as detailed in the “Positioning Transparent Film” section of this guide.

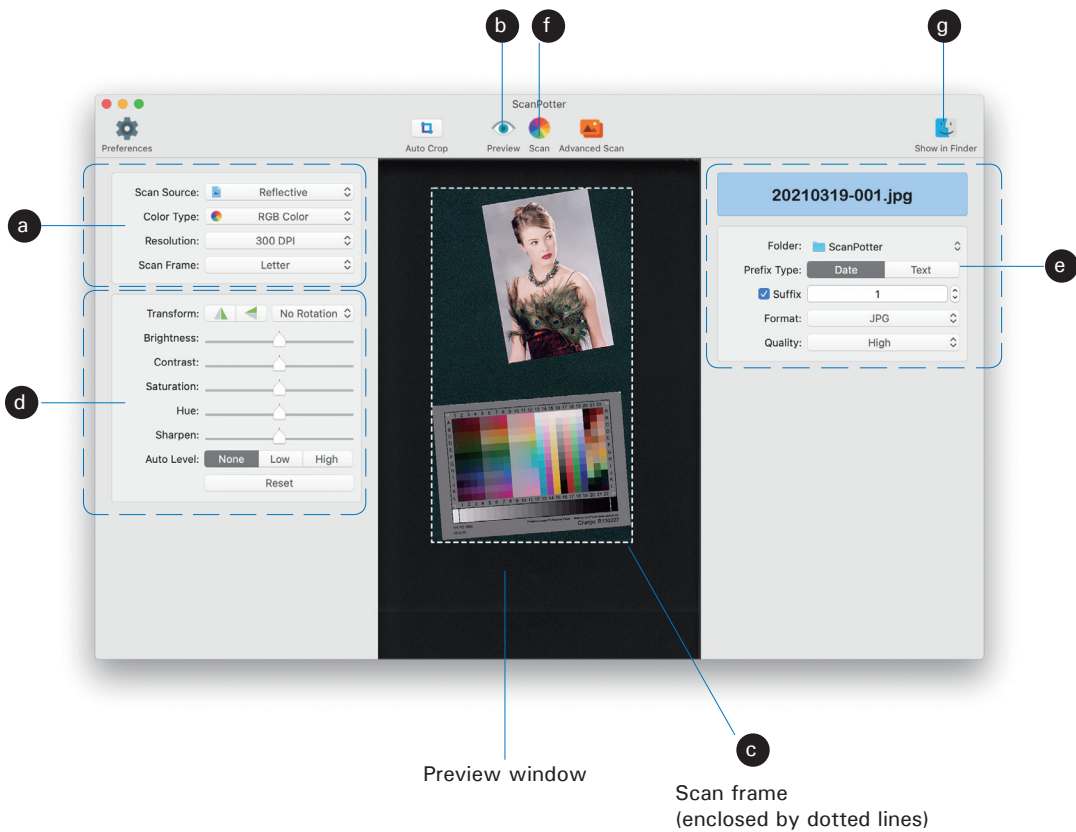
2. Launch ScanPotter.

Go to the **Finder** of Mac OS, click **Applications** on the Finder sidebar; then double-click **ScanPotter** icon in the Applications folder in your Mac.

When ScanPotter is launched, you will see the **ScanPotter** menu at the top left portion of your desktop.

3. Scan your material.
  - a) Specify your scanning requirements in the **Scan Settings** column.
    - In the **Scan Source** options menu, select either **Reflective** for photos, **Negative** for negatives, or **Positive** for transparencies and slides.
    - Select a desired image output type.
    - Select a desired resolution.
    - Define a scan frame of the scanned image preview.
  - b) Click the **Preview** button to perform a preliminary scan of the image in the Preview window.
  - c) If necessary, drag a corner of the scan frame (floating dotted rectangle) and to re-frame the area size you want for the final scan.
  - d) If necessary, adjust and enhance the image quality by using the image correction tools hereby.
  - e) If necessary, specify the file attributes for the scanned image by using the options offered in the **File Saving Settings** column.
  - f) Click the **Scan** button to start scanning.

When done, the scanned image will be automatically saved into the folder you assigned.
  - g) Click the **Show in Finder** button and then select the scanned image to view from the opened folder.



## Calibration Kit

This chapter is for the user who has the Calibration Kit either as a standard bundle or an optional accessory, depending on the scanner configuration that you purchased. The instructions about how to use the Calibration Kit will be explained in the succeeding pages in the manual.

### Using the Microtek Scanner ICC Profiler (MSP)

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

### MSP and IT8 Calibration Data Installation

Before installing MSP, ScanWizard Pro needs to be installed on your system. This will ensure that the MSP utility will install and function properly.

To install MSP, take note of the following:

- For PC: Place the **Microtek Software DVD** into the DVD-ROM drive, then double click the MSP installer icon. Follow the on-screen instructions to install and you will be prompted to insert the IT8 Calibration Data CD included in your software kit. Insert the IT8 Calibration Data CD to ensure that the MSP utility will have the latest color profile targets to reference. Then the MSP installation is complete.

### Calibration Target

The calibration kit for your MSP program comprises two industry-standard IT8 color targets: a Reflective target (IT8, size 10 x 15-cm ); and a Transparent target (IT8, size 6 x 7-cm).

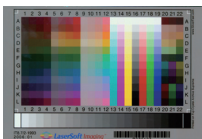
The calibration targets are very delicate and must be handled carefully. Take note of the following:

- 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.*

## Positioning the Target

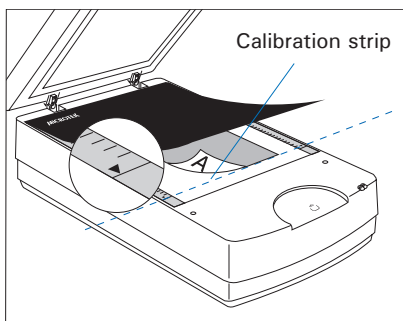
Proper positioning of the target on the scanner is important for successful calibration. Incorrect positioning of the target will result in an unsuccessful calibration.



### A. Positioning the Reflective Target

1. Use the red arrows printed on the vertical rulers of both sides of the scanner as an alignment guide for positioning the target.
2. Place the target face down on the scanner glass surface, making sure that the target is positioned correct side up toward the front of the scanner.

**NOTE:** To scan the target with the TMA 1600-III, put the Black Plate on top of the target and shield unwanted light.

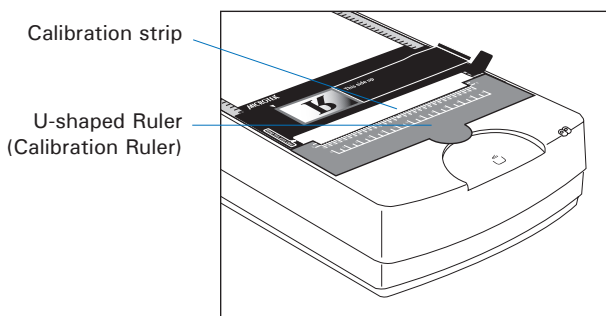


**Important:** During placement of the target, the calibration strip on the scanner glass surface should be kept clear and free of obstruction at all times.



### B. Positioning the Transparent Target

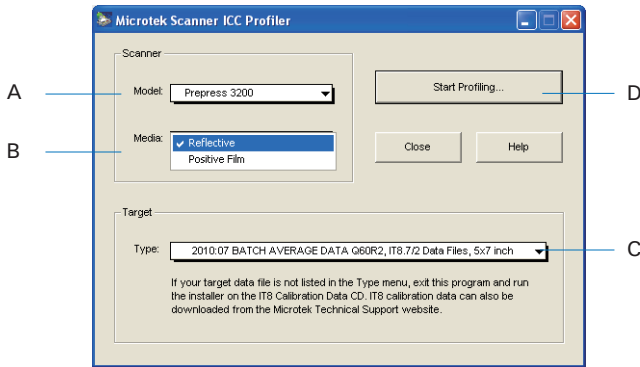
1. Place the U-shaped Rule (Calibration Ruler) on the scanner glass surface.
2. Load the target face down inside the slot of the 120 Film Template.
3. Place the 120 Film Template with the loaded target on the scanner glass surface, and orient the template with the “Microtek” logo facing up.



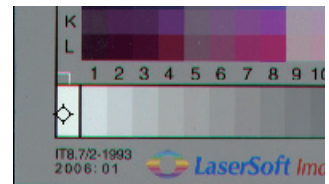
**Important:** Align the template's front corners firmly against the top corners (left and right) of the U-shaped Ruler located at the front of the scanner. During placement of the template, make sure that the calibration strip on the scanner glass surface is kept clear and free of obstruction at all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

## Calibration Setup

With the target properly positioned on the scanner, turn on your scanner and let it warm up for about five minutes. Launch the MSP program; the MSP main window appears.



- A. Choose the scanner model that you are calibrating.
- B. Choose the correct target media. If you are calibrating the reflective target, select “Reflective”. Otherwise, select “Positive”.
- C. 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.



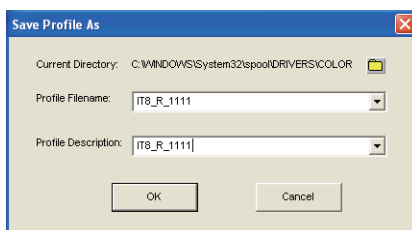
If the desired data file is not present in the drop-down menu, install the IT8 Calibration Data to update the target profiles in your system.

- D. When all the settings are done, click the **Start Profiling** button. The calibration window will appear, and an initial preview of the target is performed.

## Calibration and Profiling

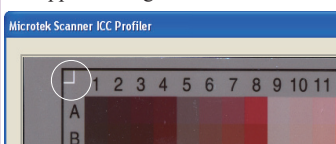
After the Preview, you are now ready to complete calibration and create a profile for your scanner.

1. Scan the target. To do this, select the entire target by dragging a frame over it, and then click the **Next>>** button.
2. Align the registration marks of the target with your cursor (see inset at bottom of page).
3. Click the **Create Profile** button to create the scanner ICC profile. At the end of the profiling process, a dialog box appears, prompting you to enter a profile name and description..



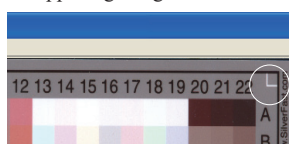
### Aligning the Registration Marks

#### A. Upper-left registration mark



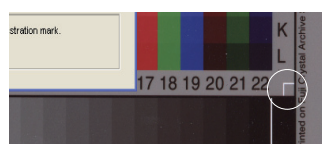
Move the cursor to the target image area; the pointer will change to a horizontally flipped L mark (“┘”). Align the cursor with the small upper-left registration mark.

#### 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 (“└”). 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.

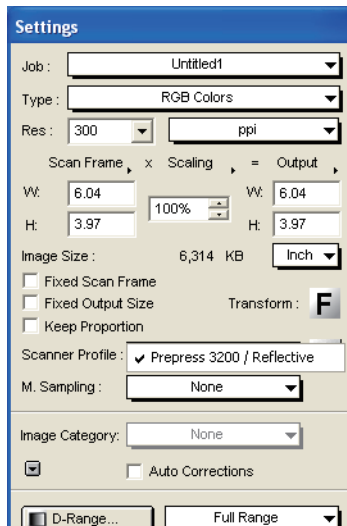
## Loading a Profile

Once the profile has been produced, follow the steps below to load the profile you just created.

1. Launch ScanWizard Pro.
2. In the Preview window, click the **Scan Material** icon. Select the “Reflective” option for reflective materials; select the “Positive Film” option for transparencies and slides.



3. From the Settings window, click the **Scanner Profile** list box, and select the profile you have just created.



## Specifications

Scanning Modes	Color, grayscale, and black-and-white in a single scanning pass True 48-bit color (approx. 281 billion colors) 16-bit grayscale (approx. 65,536 shades of gray)
Scanning Area	Reflective: 12" x 16.9" (304.8 mm x 429.26 mm) Transparent: 12" x 16 1/16" (304.8 mm x 408 mm)
Resolution	Optical: 3200 (H) dpi x 6400 (V) dpi
Dynamic Range	Reflective: 1.9 Dmax Transparent: 4.2 Dmax
Interface	Hi-Speed USB (USB 2.0)
Dimensions (L x W x H)	24.7" x 14.8" x 7.3" ( 627 mm x 375 mm x 185 mm)
Weight	35.4 lbs (16.1 kg)
Voltage	AC 100V-240V, 47-63 Hz, 1.5 A max.
Power Consumption	54.9 W max.
Environment	Operating Temperature: 50° F to 104° F (10° C to 40° C) Relative Humidity: 20% to 85%

## System Requirements

### General Requirements

- DVD-ROM drive (for installing software)
- Color display with 24-bit color output capability
- 512 MB RAM or more

### PC and compatibles

- Pentium IV PC or higher with Hi-Speed USB (USB 2.0) port
- Windows 7 / 8 / 10

### Mac

- Intel-Based Mac computer with built-in USB port
- macOS 10.15 or later

#### Important

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

## FCC Compliance Statement

This equipment (Model: MRS-6400A3L) 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 installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

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

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