

D**ināga S**can Glija 2.2300



INSTRUCTION MANUAL

Thank you for purchasing the Minolta Dimâge Scan Elite. The Dimâge Scan Elite F-2900 is a dual format film scanner capable of scanning 35mm and with the optional AD-10 APS Adapter, Advanced Photo System film.

This manual has been designed to help you understand the operation of your scanner. Please read this manual thoroughly to realise all the benefits of your scanner.

The instructions in this manual assume you have a working knowledge of the operating system for your computer (Macintosh OS, Windows 95, Windows 98, or Windows NT) and its conventions. Familiarity with the mouse and standard operating system menus and commands is necessary before operating the driver software for the Dimâge Scan Elite.

This manual does not instruct in the:

- basic use of personal computers.
- use of Windows 95, Windows 98, Windows NT, or Macintosh OS.
- use of Adobe Photoshop, Paint Shop Pro, or Corel Draw.

The examples in this manual use Windows 95. The appearance of some screens may differ from the examples when using Windows 98, Windows NT, or the Macintosh operating system.

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Paint Shop Pro is the copyright of Met's Corporation.

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- Every necessary caution has been taken to ensure the accuracy of this instruction manual. Please contact us if you have any questions, find any errors, or notice missing information.
- · Minolta is not responsible for loss, damage, or other results occurring during the operation of this product.



This mark certifies that this product meets the requirements of the EU (European Union) concerning interference causing equipment regulations. CE stands for Conformité Européenne.

Film Scanner: Dimâge Scan Elite



FOR HOME OR OFFICE USE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following 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. To meet FCC regulations, the SCSI cables used with this scanner must be equipped with ferrite cores.

This Class B digital apparatus complies with Canadian ICES-0003. Cet appareil numérique de la classe B est comforme à la norm NMB-003 du Canada.

Tested by the Minolta Corporation 101 Williams Drive Ramsey, New Jersey 07446 USA

Please read and understand each caution before using this product.

⚠ WARNING

To avoid fire or electric shock:

- Use only within the voltage range specified on the back of unit.
- Do not expose this unit to liquids.
- Do not insert metal objects into this unit.
- Do not touch the cord or plug if your hands are wet.
- Unplug this unit when it is not in use.

Improper use of the power cord may result in fire or electric shock.

- Insert the plug securely into an electrical outlet.
- Do not pull on the cord. Grasp the plug when removing the power cord from an outlet.
- Do not scratch, twist, modify, heat, or place a heavy object on the power cord.



• Do not connect the ground to a gas pipe, telephone ground, or a water pipe. Improper grounding can result in electric shock.

This product must have sufficient ventilation while in use. Blocked ventilation ducts may cause the unit to overheat, increasing the risk of fire.

- Do not use or store this product in dusty or very humid areas.
- This product should be operated in the upright position only. Do not stack any objects on this product.

If there is smoke, a strange smell, or any other unusual conditions, shut down and unplug the unit, then contact a Minolta Service Facility.

Do not attempt to disassemble this product. It contains high-voltage circuits. Take the product to a Minolta Service facility for repairs.

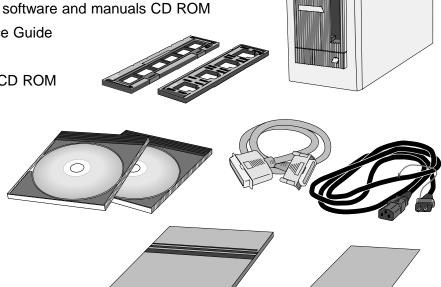




Unexpected damage may occur if this unit is left unattended near young children.

The following contents should be included in this package.

- 1. Minolta Dimâge Scan Elite
- 2. 35mm Slide and Negative holders
- 3. SCSI cable SC-11
- 4. AC power cord
- DS_Elite driver software and manuals CD ROM
- 6. Quick Reference Guide
- 7. Warranty card
- 8. Photoshop LE CD ROM



Software Registration

Please register this software before using it...

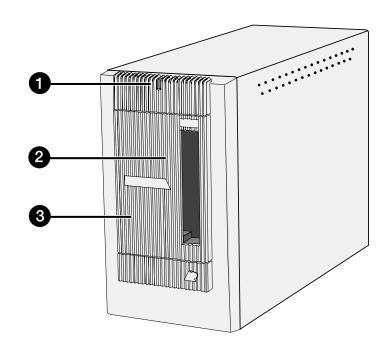
Once registered, you will receive technical support, software upgrade and product information. Complete and return the enclosed Product & Software Registration form after detaching it form the Warranty. No postage is necessary.

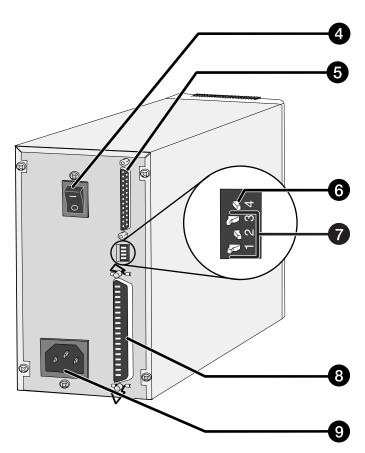
• The information you provide is confidential and will only be used by Minolta Customer Service and Product Research & Development.

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- 1. Indicator lamp
- 2. Film slot
- 3. Film door
- 4. Power switch
- 5. SCSI port DB25
- 6. Terminator power switch
- 7. SCSI ID switches
- 8. SCSI port SCSI-1
- 9. AC socket





SCANNER SETUP



Turn off the computer and all the devices in the SCSI chain before changing SCSI IDs, connecting, or disconnecting SCSI cables. Hardware damage may occur if this precaution is not followed.

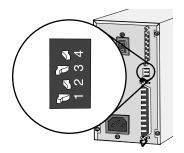
A SCSI ID is a unique address you assign to each SCSI device connected to your computer. The SCSI ID range of your computer is from 0 to 7, however some ID's are already occupied.

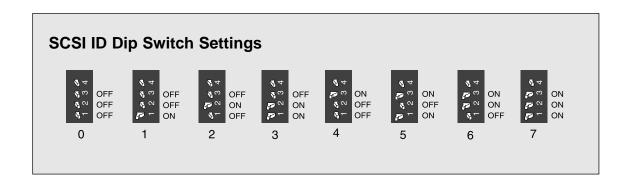
	Occupied SCSI ID
IBM PC/AT	7 - SCSI host adapter
Macintosh	0 - internal hard drive*3 - internal CD ROM drive**7 - operating system

^{*} IDE Macintosh systems do not use SCSI ID 0 for the hard drive.

Setting the SCSI ID

- 1. Turn off the computer and all connected SCSI devices.
- 2. Determine which SCSI IDs are not being used.
- 3. Using a pointed object, set the switches to an unused SCSI ID.
 - The Dimâge Scan Elite's SCSI ID is factory preset to 5. If 5 is not occupied, there is no need to change the SCSI ID.
 - Two operating SCSI devices in the same SCSI chain cannot share a SCSI ID.





^{**} SCSI ID 3 is available on the external bus on Macintosh systems with a dual bus.

Connecting the SCSI Cable

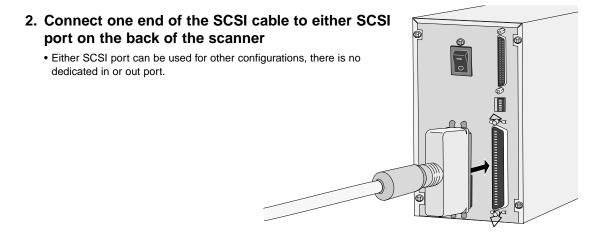
This scanner has been packaged with the SCSI cable SC-11 (DB25-to-SCSI-1). See your dealer if you require a different SCSI cable.

• To meet FCC regulations, the SCSI cables used with this scanner must be equipped with ferrite cores.

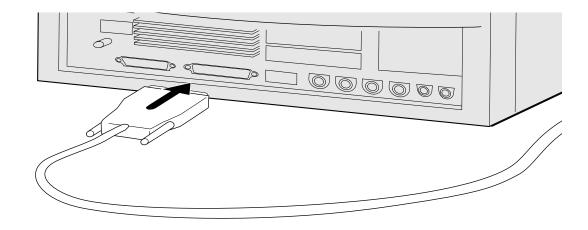


BEFORE YOU BEGIN...
TURN THE COMPUTER AND ALL CONNECTED
DEVICES OFF.

1. Place the scanner on a level surface.



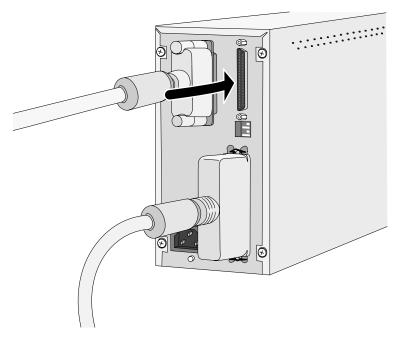
3. Connect the other end of the SCSI cable to the SCSI port on the computer or the last device in the SCSI chain.



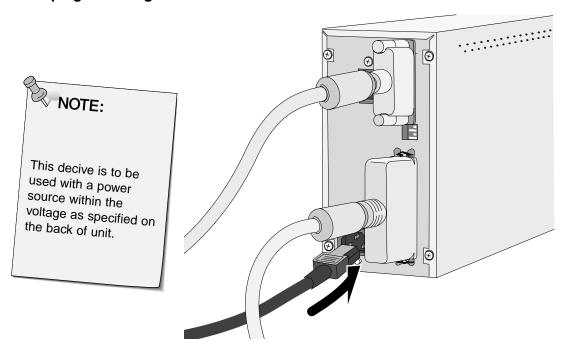
Continued on the following page.

If there are other devices in your SCSI chain...

4. Plug the SCSI cable from the next device into the open port on the back of the scanner.



5. Plug the power cord into the scanner's AC socket, then plug it into a grounded outlet.



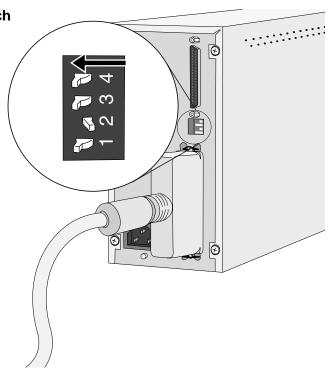
If the Dimâge Scan Elite is the last or only device in your SCSI chain...

4. Turn the terminator power switch (switch 4) to ON.

• An external terminator is not necessary with this scanner.



Terminating the SCSI chain helps to suppress electronic noise in the SCSI chain. Not terminating the SCSI chain can cause slowdowns, data errors, crashes, and other unpredictable errors.



NOTE:

This decive is to be used with a power source within the voltage as specified on the back of unit.

WINDOWS 95/ WINDOWS 98 WINDOWS NT

Dimâge Scan Elite for Windows Setup installs the Twain and Twain_32 driver software into the drive and folder you select.

- The appearance and/or wording of some dialog boxes may vary depending on the version of Windows running on your machine.
- These installation instructions assume drive D is the CD-ROM drive.
- 1. Turn on the scanner, then turn on the PC.
- 2. Start the Windows operating system.

This step varies with your specific operating software...

Windows 95

• The New Hardware Found dialog box will appear.



- 3. Click on Cancel.
 - This dialog box may appear several times.
 Repeat step 3 until the dialog box no longer appears.

Windows 95 Release 2 (OSR2) and Windows 98

• The Device Wizard dialog box will appear.



- 3. Click on Next until the Unknown Device window appears...
- ...then click on Finish.
 - This dialog box may appear several times.
 Repeat step 3 until the dialog box no longer appears.

Windows NT

- 3. Select Start > Settings > Control Panel, then double-click on the SCSI Adapters icon. Confirm that Minolta #2885 appears as a connected device for your SCSI board.
 - If Minolta #2885 does not appear, turn the system off and check all the connections. Repeat the procedure.
- 4. Insert the Dimâge Scan Elite CD-ROM into the CD-ROM drive.

5. Select Run form the Start menu.

6. Select D:\DRIVER\ENGLISH\Setup.exe from the Open drop-down list, then click on OK.

- If your CD-ROM drive is not the D drive, replace the D with the appropriate designation for your CD-ROM drive.
- 7. Click on Next.

The Run dialog box will appear.



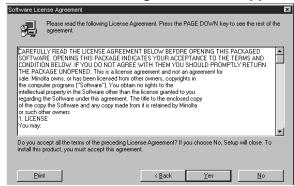
The installer flash will appear.



The Software License Agreement will appear.

8. After reading the agreement, click on Yes.

 If you do not agree to the conditions stated in the End-User License Agreement, click on No and the software will not be installed.

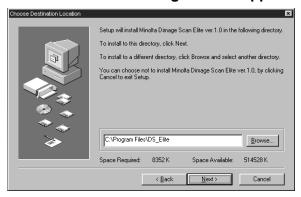


The Choose Destination Location dialog box will appear.

9. Click on <u>Browse</u> to select another destination directory...

 An install directory and path can also be entered directly into the install path list box.

then click on Next.



Continued on the following page.

10. Choose either Typical or TWAIN Files install, then click on Next.

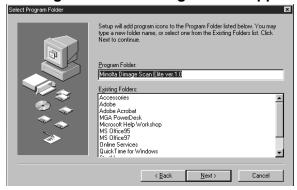
The Setup Type dialog box will appear.



The Select Program Folder dialog box will appear.

- 11. Click on Next.
 - Setup will begin.

12. Click on Close.

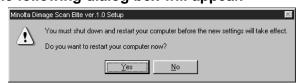


The Setup Successful dialog box will appear.



The following dialog box will appear.

13. Click on Yes.





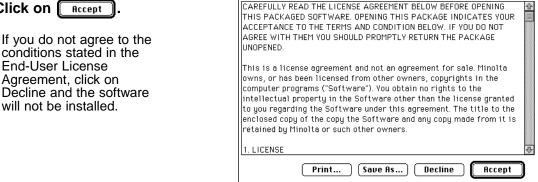
Please remove or disable any antivirus system extensions before launching this installer. These extensions may conflict with the operation of this installer. Replace or re-enable them when installation is complete. Hold the shift key down during startup to disable the extensions.

- 1. Turn on the Dimâge Scan Elite, then turn on your Macintosh.
- 2. Quit any open applications.
- 3. Insert the Dimâge Scan Elite CD-ROM into the CD-ROM drive.
 - will appear on the desktop.
- 4. Double-click on 25.
 - The driver folders will appear.
- 5. Double-click on Driver folder.
 - The language folders will appear.
- 6. Open the English language folder, then double click on the Dimâge Scan Elite Installer.
- 7. Click on I Continue

The installer's start-up screen will appear.



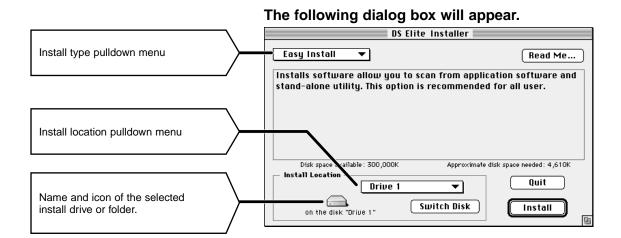
The End-User License Agreement will appear.



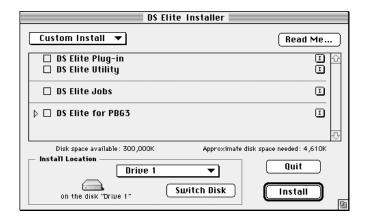
Continued on the following page.

8. Click on (

 If you do not agree to the conditions stated in the **End-User License** Agreement, click on Decline and the software



 If you have Power Book G3, select the DS Elite for PBG3 from the Install type pulldown menu.

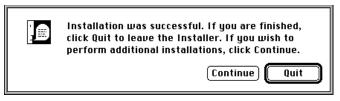


- 9. Select the install drive (or folder) and type from the pulldown menus.
 - You can also click on **Switch Disk** to select an install drive.
- 10. Click on Install.

The following message appears when the installer is finished.

11. Click on Quit.

- The software will be installed in a new folder titled Dimâge Scan Elite.
- If Easy Install was chosen, the Dimâge Scan Elite folder will contain the following items: DS_Elite Utility, DS_Elite Plug-in, and Read Me file.



12. Drag the DS Elite Plug-in to the Import/Export folder in the Adobe Photoshop Plug-ins folder.

STANDARD OPERATION

SCAN FLOW

Launch the Software

Set the Preferences

Load the Film Holder

Insert the Film Holder

Specify the Film Type

Prescan

Orient the Image

Correct the Brightness, Contrast, and Color

Specify the Job Type

Scan

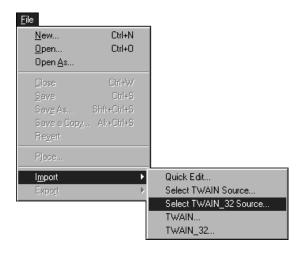
Save

The TWAIN driver lets you control the software through another application, such as your image editing software.

Launching the TWAIN Driver — Windows

This manual uses Adobe Photoshop 4.0.1 as the host application. Commands may vary among applications.

- 1. Open the host application.
- 2. Select File > Import > Select TWAIN_32 Source...

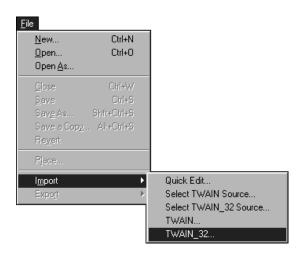


The Select Source dialog box appears.

3. Select DS_Elite, then click on Select.



4. Select File > Import > TWAIN_32.

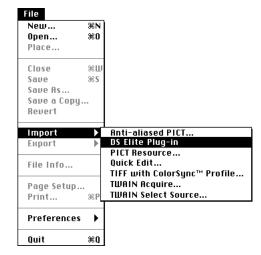


The software is ready for use when the Main window appears (p.20).

The plug-in software lets you access the software through Adobe Photoshop.

Launching the Plug-in — Macintosh

- 1. Launch Adobe Photoshop.
- Photoshop 4.0.1 and newer: Select File > Import > DS_Elite Plug-in. Photoshop 3.0.5: Select File > Acquire > DS_Elite Plug-in



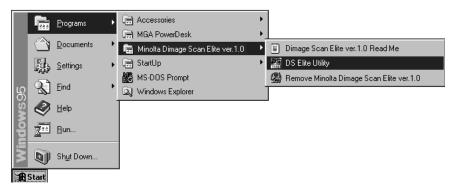
The software is ready for use when the Main window appears (p.20).

Use the utilty software, as a stand alone application, when you just want to scan the photographic image and store.

Launching the Utility Software

Windows

Select Start > Programs > Minolta Dimâge Scan Elite > DS Elite Utility

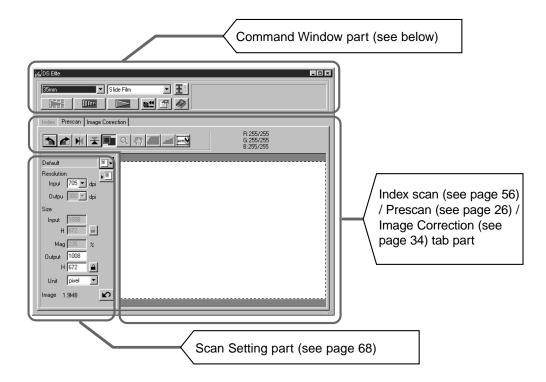


Macintosh

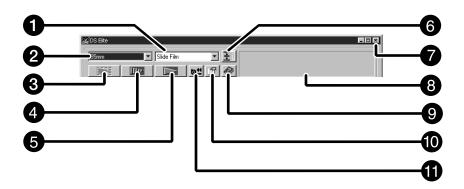
Double click on 🚟.

The software is ready for use when the Main window appears (p.20).

MAIN window



The Command Window part — Name of parts

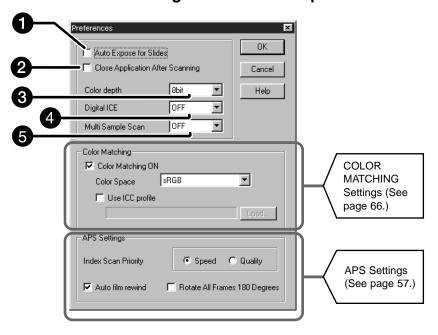


- Film format list box
- 2 Film format list box
- 3 Index Scan button
- 4 Prescan button
- 5 Scan button
- 6 Navigation button

- 7 Close button
- 8 Status bar
- 9 Help button (on Macintosh)
- Preferences button
- APS Rewind button

1. Click on 🛅.

The Preference Dialog Box — Name of parts



2. Set the preferences as desired.

Auto Expose for Slides checkbox

Select this checkbox when scanning underexposed slides.

Close Driver software After Scanning checkbox

Closes the scanner's driver software after the scan is complete.

Color depth Setting box

The pixel depth of each color channel used to scan your image (RGB or CMY). Three options are available:

- 8-bit over 16.7 million colors
- 16-bit over 2.8 billion colors
- 16-bit linear same as 16 bit, but image correction is not applied when the image is scanned.
- 4 Digital ICE Setting box

Select the DIGITAL ICE (removing dust or scratch) from OFF and ON. This function is not available for monochrome film.

Multi-Sample Scanning Setting box

This function reduces the random noise by referring the average of the result while scanning several times.

Select the times of scanning operation from OFF, 2 times, 4 times, 8 times and 16 times.

- 3. Click on to accept the new preference settings.
 - Changes to the Preference settings take effect immediately.

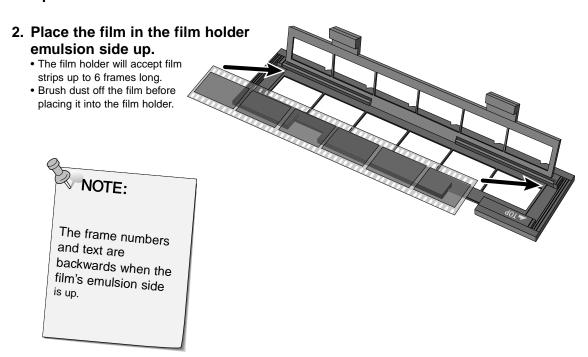
Using the included 35mm negative and slide holders, the Minolta Dimâge Scan Elite can scan mounted or unmounted...

- 35mm colour negatives
- 35mm black & white negatives
- 35mm colour slides
- 35mm black & white positives

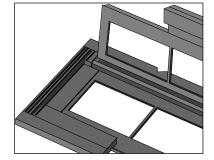
Advanced Photo System negatives and slides can also be scanned using the optional AD-10 APS Adapter. See page 57.

Loading the Negative Holder

1. Open the film holder.



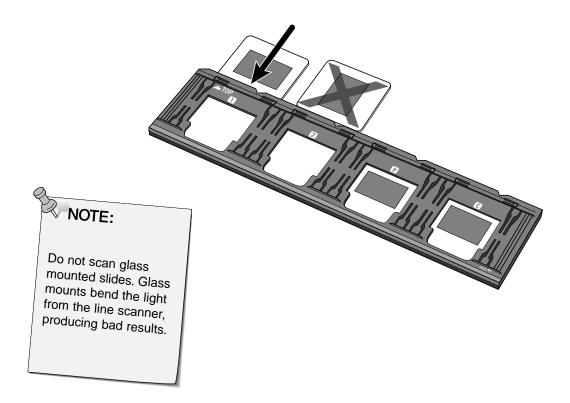
- 3. Align the frames within the scanning windows.
- 4. Snap the film holder closed.



Loading the Slide Holder

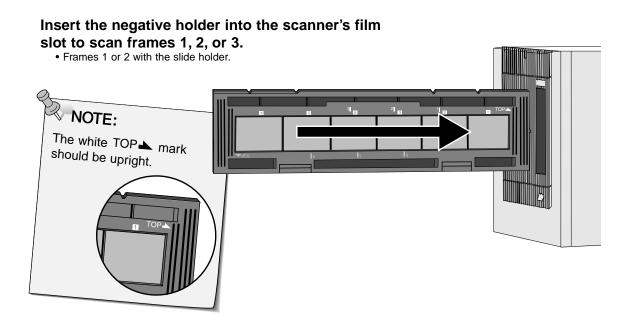
1. Insert slides into the slide holder emulsion side up.

- Brush dust off the the slide before placing it into the film holder.
- Slide mounts must be thicker than 1 mm and thinner than 2 mm to fit into the slide holder.
- Orient the slides horizontally, not vertically.

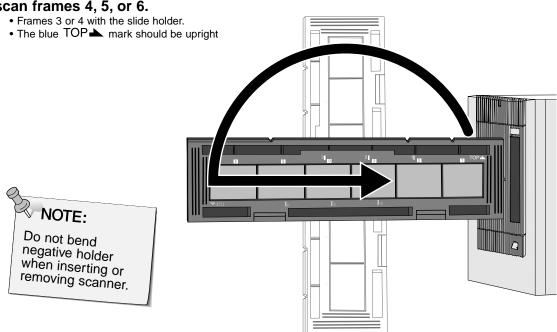


INSERTING THE FILM HOLDER INTO THE SCANNER

The notches in the film and slide holders identify the position of the scanning windows. Push the holder all the way in to scan the last frame on that side of the film holder. Remove, flip, then re-insert the film holder to scan the frames on the other side of the holder.



Remove, flip, then re-insert the negative holder to scan frames 4, 5, or 6.

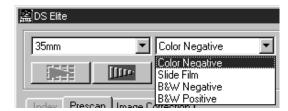


Setting the Film Type

- 1. Select 35mm from the film format drop-down list.
 - The Preview window appears.

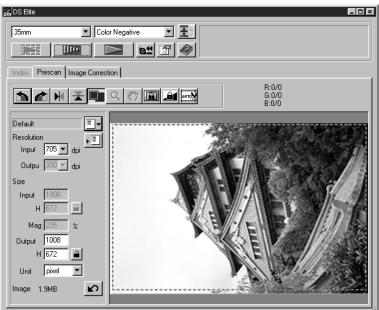


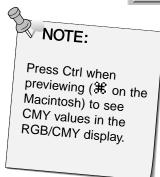
2. Select the film type from the film type drop-down list.



3. Click on in the Main window.

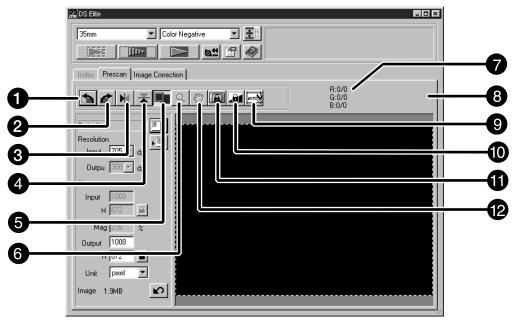
The previewed image will appear in the Preview window.





Previewing creates a scan of the image that you can apply and view color, contrast, orientation, and brightness corrections before clicking on the Scan button. This ensures that the final scan will be the best it can be.

The Preview window part — Name of parts



- Rotate Left buttonZoom button
- 2 Rotate Right button
- 3 Flip Vertical button
- 4 Flip Horizontal button
- 5 Zoom button
- 6 Full-Screen View button
- RGB/CMY displayFrame number indicator

- 8 Frame number indicator
- 9 Auto Holder/Mount Crop Adjustment button
- AE Lock button
- AE Area Lock button
- Grab button

AUTO-EXPOSURE LOCK

Especially useful when scanning bracketed exposures, AE (auto exposure) lock lets you scan multiple images with the same initial exposure settings. AE Lock saves the automatic exposure settings determined when an image is previewed. Subsequent images are previewed using the 'locked' exposure settings.

• AE-lock does not save exposure corrections made in the Variations, or Tone Curves/Histogram dialog boxes.

Setting AE-Lock

After previewing the image...

- 1. Click on 🕮.
 - an not be selected until an image has been previewed.
- 2. Select another image, then click onThe scanner skips the setting exposure step in the preview sequence.

Images will be scanned using the AE lock settings until AE lock is cancelled or the scanner is reinitialised.

Cancelling AE-Lock

- 1. Click on
- 2. Click on to preview the image again.

AE AREA LOCK

The area used by the auto exposure algorithm can be adjusted so that only the selected area is taken into account by AE.

Perform the procedure below after previewing the image.



2. Press the Shift key.

• The AE area is indicated by a line instead of the cropping area which is indicated by a dashed line.

3. While pressing down the Shift key, change the AE

- The operation is the same as that of changing the cropping area except that the shift key should be kept pressed whilst clicking and dragging the cursor.
- For details, see "Cropping" (P.30).

Rotate

Click on the and buttons to correct the orientation of your image before scanning. Changes will be reflected in the preview image.

Click on _____ to rotate the image 90° clockwise.





Click on to rotate the image 90° counter-clockwise.





ORIENTING THE IMAGE

Flip

The Mand and buttons let you flip the image left to right or top to bottom before scanning. Changes will be reflected in the preview image.

Click on **to flip the image top to bottom.**





• The image is upside down compared to the original scan.

Click on kto flip the image left-to-right.





• Image is backwards compared to the original scan.

Auto Cropping

The cropping area is determined automatically so that the holder or slide mount frame in the preview image is removed.

Click on I



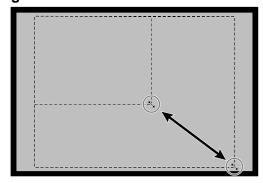
Cropping

The cropping frame defines how much of the preview image will be scanned. The dimensions of the cropping frame are displayed in the lower left corner of the preview window.

To enlarge or reduce the size of the cropping frame...

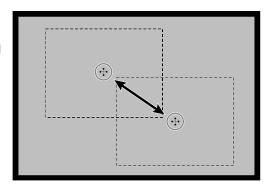
Click on the cropping frame and drag the pointer in or out.

- · Click on the corners and drag to resize the cropping frame proportionally.
- Click on the sides and drag to resize the cropping frame non-proportionally.



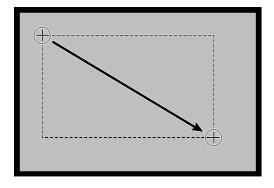
To move the cropping frame...

Click inside the cropping frame, then drag the cropping frame to its new location.



To define a new cropping frame...

Click and drag outside the current cropping frame.



Magnifying or Reducing the View

Use the zoom button \(\textstyle \) to increase or reduce the image magnification.

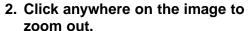
Zooming In

- 1. Click on | in the Preview window.
 - The pointer will change to .
- 2. Click anywhere on the image to zoom in.
 - The clicked position will be the center of the magnified view.
 - The + disappears from the magnifier icon when the maximum image magnification has been reached.



Zooming Out

- 1. Press and hold the Ctrl key (option key on the Macintosh) to reduce the image magnification.
 - The pointer will change to \(\bigsir \).



 The – disappears from the magnifier icon when the minimum image magnification has been reached.



Full screen view

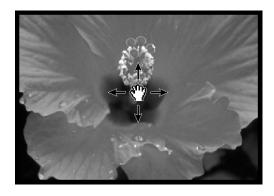
This function allows you to display full preview image in the preview window.

1. Click the Full-screen view button in the Preview window.

Scroll

Use the grab button to scroll an enlarged image.

- solution can only be selected when the image has been magnified beyond the limits of the Preview window.
- 1. Click on in the Preview image display area.
 - The pointer will change to <?>.
- 2. Click on and drag the image to the desired location.



APS formats; C, H and P (APS only)

When APS is selected in the Main Window, the CHP button allows you to quickly and easily define the cropping frame by the standard APS format; C, H and P.

- 1. Click on implementation to display the APS cropping frames.
 - The cropping frames are displayed in sequence with each click of the CHP button.

Displaying Frame number (APS only)

This function allows you to display the current frame number and the total number of frames of an APS film.

- 1. To display the next frame, click on 1/40 >
- 2. To display the previous frame, click on 1 2/40.

RGB/CMY information

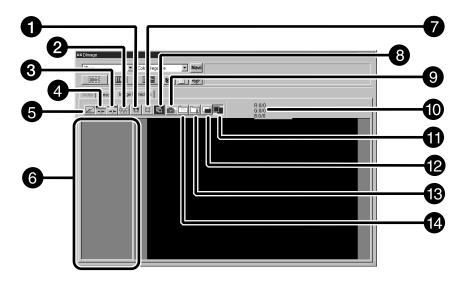
The RGB information from the pointer position is always displayed in the Preview window. The information is described in brightness levels from 0 to 255. However, the display can be changed to show CMY information.

1. Press and hold the Shift key (command key on the Macintosh) with the Preview window open. The RGB information will change to CMY.

This scanner gives you three options for correcting the brightness, contrast, and color balance of the final scan.

• Click on the Image Correction window in the Main window.

The Image correction window part — Name of parts



- 1 Undo button
- 2 Variations button
- 3 Hue/Saturation/Lightness Correction button
- 4 Brightness/Contrast/Color Balance Correction button
- Tone Curves/Histogram Correction button
- 6 Snapshot Display Area
- Redo button

- Correction Reset button
- 9 Snapshot button
- RGB/CMY display
- Image Correction Job Save button
- 12 Image Correction Job Load button
- Pre/Post Correction Comparison Display button
- Full-Screen View button

IMAGE CORRECTION – TONE CURVES/HISTOGRAM

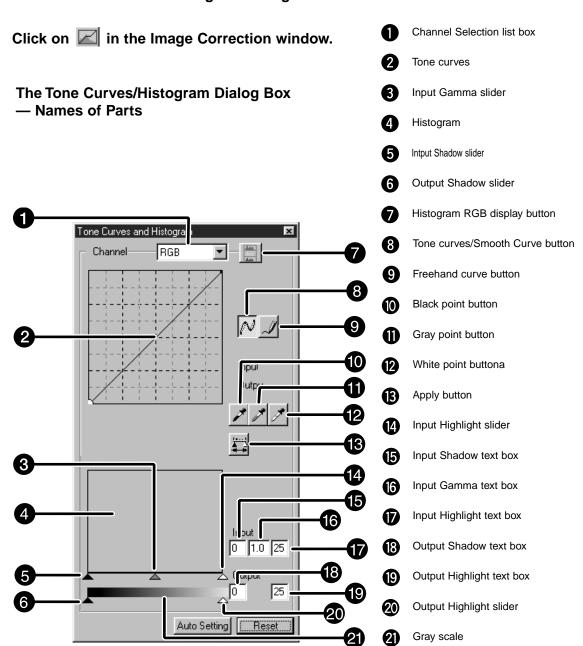
When the Tone curves/Histogram Correction button is clicked, the Tone Curves/Histogram Correction dialog box is displayed.

The Tone Curves dialog box allows you to change the tone curves and to directly correct the output value.

The Histogram dialog box allows you to specify the input and output area from the information included in the scanned film and to then correct the image. This dialog box displays also the histogram of the image area inside the cropping frame in each RGB color. The level is indicated in 256 color steps (0 to 255) from the left to right.

The tone curves and histogram are linked to each other so that when the tone curve is corrected, the histogram is automatically corrected.

The Tone Curves and Histogram Dialog Box — Names of Parts



Correcting the Tone Curves

Changing the shape of a correction curve changes the output level for each corresponding input level. Changing the shape of the red, green, or blue curves affects color balance of the image. Changes to the RGB curve affect the image contrast and brightness.

1. Click on the arrow next to the channel selection list to display the available channel (R, G, B, RGB).



- 2. Select the channel of the color to be corrected.
- 3. Click and drag the portion of the curve to be changed.
 - The coordinate value of the cursor is displayed from 0 to 255.
 - The corrected image by changing the tone curves is applied to the preview image.
 - You can also change the tone curves by freehand.

Changing Tone Curves by Freehand

This function allows you to draw tone curves by freehand.

- 1. Select the channel of the color (R, G, B, RGB) to be corrected from the channel selection menu.
- 2. Click the Tone Curve Drawing button.
 - The cursor changes to the pencil shape.
- 3. Draw the desired curve by dragging.
 - To smooth out the curve points, click the Smooth Curve button.
 - The change will be reflected in the preview image.

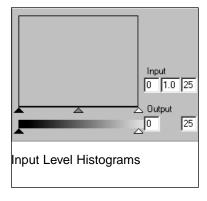
Correcting the Histogram

The input slide bar has the Input shadow slider, Input gamma slider and Input Highlight slider. The output slide bar has the Output Highlight slider and Output shadow slider.

The image can be corrected by dragging the slider or inputting the value in the text box. The change will reflect the prescan image.

1. Drag the slider to move it to the desired level or input the value in the text box.

• The change will be reflected in the preview image.



Displaying the Histogram of Each R, G, B color

1. Click the RGB Display button.

 When the RGB Display button is clicked again, the histogram of each R, G, B channel disappears.

Setting the White or Black Points

This function allows you to correct the highlight or shadow point to the specified value.

• Changes are automatically applied to the preview image.

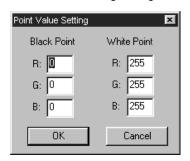
Setting the White Point

- 1. Double-click the White Point button.
 - The Point Value dialog is displayed.
- 2. Input the desired white point value.
- 3. Click the White Point button.
 - The cursor changes to the white dropper shape.

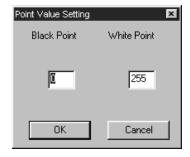
4. Click the desired highlight point of the image.

- The image is corrected so that the point you clicked is the highlight point. The color of the highlight point is the white dropper value you input in step 2.
- The change will be reflected in the preview image.

Point Value Setting dialog box



When the film type is set to the color mode.



When the film type is set to the monochrome mode.

Setting the Black Point

Double-click the Black Point button.

- The Point Value dialog is displayed.
- 2. Input the desired black point value.
- 3. Click the Black Point button.
 - The cursor changes to the black dropper shape.

4. Click the desired shadow point of the image.

- The image is corrected so that the point you
 clicked is the shadow point. The color of the shadow point is the black point value you input in step 2.
- The change will be reflected in the preview image.



Setting the Gray Point

This function can specify the gray of images.

1. Click the Gray Point button.

• The cursor changes to the gray dropper shape.

2. Click the point to be changed to gray in the image.

- The image is corrected so that the point you clicked is the gray point.
- The change will be reflected in the preview image.





Viewing the Histogram of Images After Making Corrections

When the Apply button is clicked, the histogram of images after making corrections can be displayed.

The histogram after making corrections is displayed as long as you press this button. When the button is released, the histogram returns to the previous one.

Auto setting

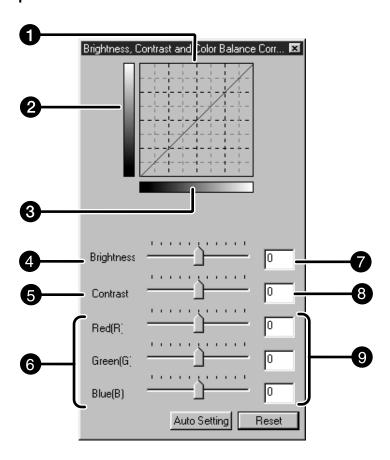
When the Auto setting button is clicked, the image is corrected automatically by removing no information parts from the histogram and using all tone steps from 0 to 255.

When the Brightness/Contrast/Color Balance Correction button is clicked, the Brightness/Contrast/Color Balance Correction window is displayed.

The images sen be corrected by dragging the slider or inputting the desired value in the text box.

• Click on in the Image Correction window.

The Brightness, Contrast and Color Balance Correction Dialog box — Name of parts



- Post-Correction LUT
- 2 Post-Correction Gray scale
- 3 Pre-Correction Gray scale
- Brightness slider
- Contrast slider

- 6 Color Balance slider
- Brightness text box
- 8 Contrast text box
- 9 Color Balance text box