For Windows & Macintosh

Canon

Canon Solutions

Canon Film Adapter Unit Software
FilmGet FAU

User's Guide

Quick Start

For those who prefer to jump right into scanning

Steps 1-3

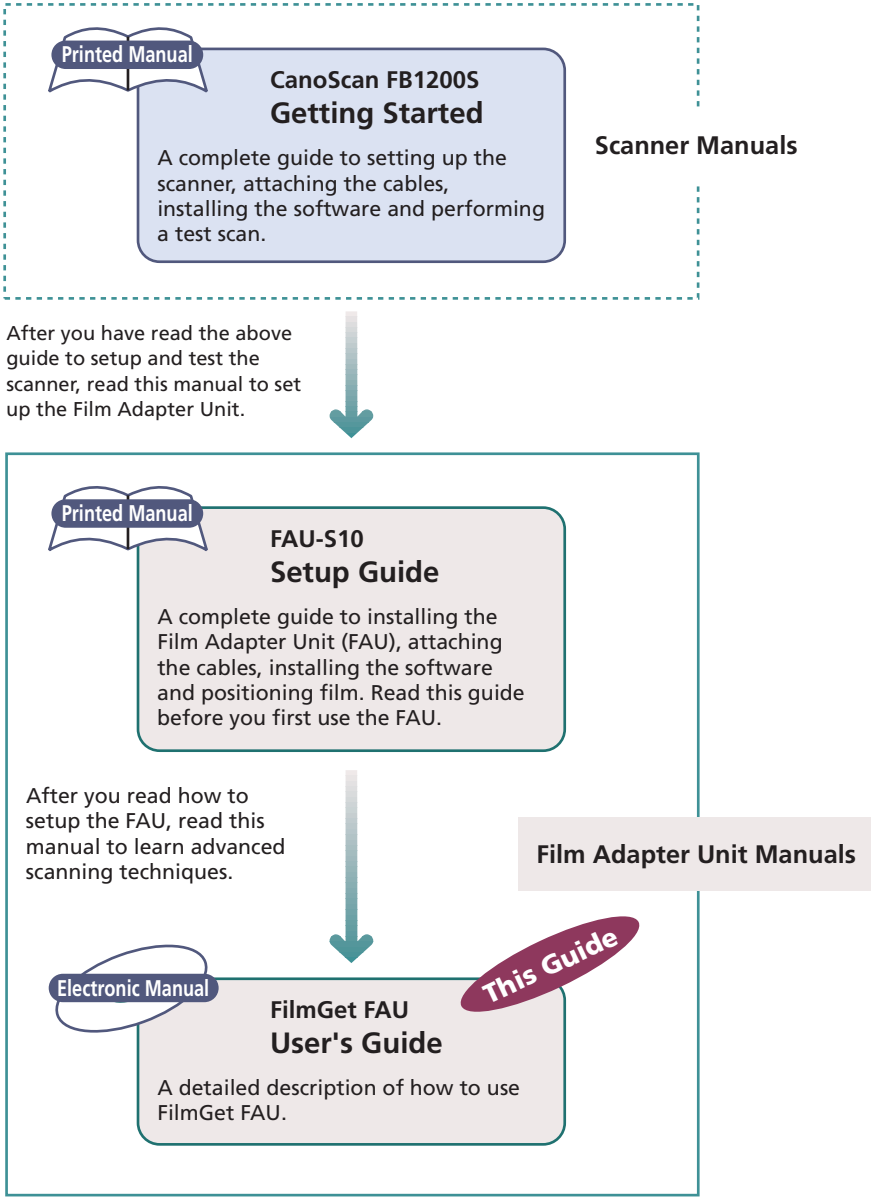
For those who prefer a methodical approach

Other Functions

For those who are detail oriented

How to Use the Guides

The following chart explains how to best use the guides that accompany this Film Adapter Unit. You may also wish to refer to the guides that accompany your scanner.



How to Use this Guide

This is the users guide for FilmGet FAU 1.0 for Windows and FilmGet FAU 1.0 for Macintosh, the driver software for scanning films and transparencies with the Film Adapter Unit FAU-S10 option for CanoScan FB1200S flatbed scanners. Start the Windows version as a TWAIN driver from within TWAIN-compliant applications and the Macintosh version as the plug-in compliant driver software from within plug-in compatible applications.
Please read this guide in conjunction with your Windows or Macintosh guides and the guides for individual TWAIN-compliant or plug-in compliant application programs.

Organization of the Guide

Quick Start

A digest of FilmGet FAU commands and procedures. Recommended for those who prefer to jump right into scanning.

Step 1 Installing the Software

An explanation of how to install or uninstall FilmGet FAU. All should read this section.

Step 2 Scanning

A step-by-step explanation of FilmGet FAU commands and procedures. All should read this section.

Step 3 Adjusting Images

An explanation of how to adjust the color balance and brightness of preview images. Read this section as required.

Other Functions

An explanation of the FilmGet FAU menu items and settings. Read this section as required.

Appendices

The appendices include a troubleshooting section, a glossary and the index. Refer to this section as required.

Symbols in this Guide

The following symbols are used to draw your attention to important topics throughout the guide.

WARNING This symbol introduces operating precautions and othe- critical information. Be sure to read these topics

NOTE This symbol introduces supplementary information. Read these topics at your discretion.

Notation

FilmGet FAU 1.0 for Windows may be used with the Windows® 95, Windows® 98 and Windows NT® 4.0 operating systems. References to Windows in this guide include all three.

FilmGet FAU 1.0 for Macintosh may be used with Version 7.5 or later versions of the Mac System Software.

Both FilmGet FAU 1.0 for Windows and FilmGet FAU 1.0 for Macintosh are referred to as FilmGet FAU throughout most of this guide.

Although the screen samples provided in this guide mostly show the Windows version of FilmGet FAU, the Macintosh version features a virtually identical user interface. Separate explanations are provided only for items requiring different procedures.

The following notation is used for menu items, tools and messages:

Menu items and commands requiring user selection are shown i [square brackets]
For example, click [Paper Size] and select [Letter]

Messages and item names are shown between ‘single quotation marks

FilmGet FAU Features

A Scanner Driver that Adjusts Images Too

FilmGet FAU is the driver software for the Film Adapter Unit FAU-S10 option installed on CanoScan FB1200S flatbed scanners. It is also equipped with a variety of image processing functions and input and output controls. FilmGet FAU is supplied in both Windows and Macintosh compatible versions. The Windows version can be opened as a 32-bit TWAIN driver from within TWAIN-compliant application programs. The Macintosh version can be opened as a plug-in from within plug-in compliant application programs.

Simple User Interface

The Windows and Macintosh versions of FilmGet FAU both share the same user-friendly interface. Moreover, the menu names and arrangements are consistent with many other popular application programs used on the two platforms. The result is an intuitive and easy-to-use interface that requires very little effort to master.

Color Matching System Support

This software supports color matching systems so that the colors read by the scanner are faithfully reproduced on your monitor without you having to perform any troublesome adjustments.

Batch Scans

Save time and effort by setting the color adjustment and resolution settings for individual frames and then scanning the selected images in a single batch.

Easy Scanning with Auto Settings

Settings for images that are to be used for specific purposes, such as for display on a monitor, for output to a printer or for transmission in a fax, can be set automatically. You are now free to scan without bothering with resolution and size settings.

Tool Tips Provide Guidance

Guidance is always at hand when you position the mouse cursor over a button or tool. The tool tips provide useful information if you are unsure how to use an item.

Common Windows and Macintosh User Interface

The Windows and Macintosh versions of FilmGet FAU both share the same user-friendly window design and functions. You can switch between either platform without noticing the transition.

* FilmGet FAU does not support ScanGear Toolbox CS or CanoScan Toolbox CS.

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Quick Start

For Those Who Prefer to Jump Right into Scanning

Quick Start

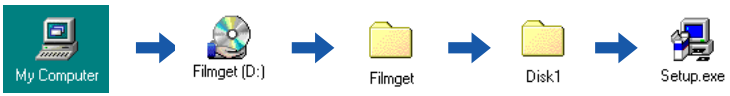
This section provides the essentials of scanning with FilmGet FAU. If you wish more information on a particular procedure, refer to the pages quoted for that topic.

1. Install the FilmGet FAU software.

See the Getting Started, p. 16.

(1) Place the CD-ROM containing the FilmGet FAU software into the drive.
(2) Double-click the following folders in order and install FilmGet FAU.

Windows



Macintosh

2. Start FilmGet FAU

See p. 23.

Windows

Start a TWAIN-compliant application program, select the Film Adapter Unit with a menu or button, and start FilmGet FAU as a TWAIN driver.

The following is a sample procedure using Adobe Photoshop 5.0 LE.
(1) Start Adobe Photoshop 5.0 LE.
(2) Click the [File] menu and select [Import], [Select TWAIN_32 Source...], and [Canon FilmGet FAU 1.0 for Windows].
(3) Click the [File] menu and select [Import] and [TWAIN_32 ...].

The FilmGet FAU main window will display.

Macintosh

Start a plug-in compliant application program and select [FilmGet FAU] using the menu item or button.

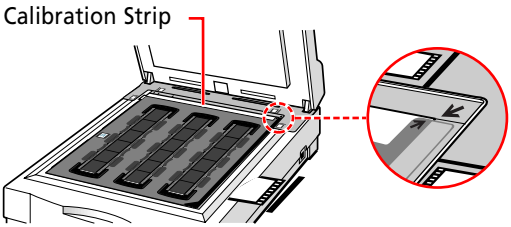
The following is a sample procedure using Adobe Photoshop 5.0 LE.

(1) Start Adobe Photoshop 5.0 LE.
(2) Click the [File] menu and select [Import] and [FilmGet FAU 1.0...]. The FilmGet FAU main window will display.

3. Position the film.

See the Getting Started, p. 24.

Insert the film in a film guide and place the film guide on the scanner platen.



Align the ➚ alignment mark on the film guide with the ➘ alignment mark on the positioning guide on the scanner.

4. Set the film type and image mode.

See p. 33, 34.

(1) Select a film type that matches the film you are scanning.
(2) Set the image mode (color, grayscale or black and white).

5. Preview all of the frames on the scanner platen.

See p. 36.

Click the [Preview All] button.

The entire scan area will be scanned and the film position and trimming frames will display in the preview all window.

6. Select a frame you wish to scan.

See p. 37.

Click the corresponding trimming frame to select a frame. The selected frame will be displayed with a green border.

Preview All Window

7. Adjust the trimming frame.

See p. 39.

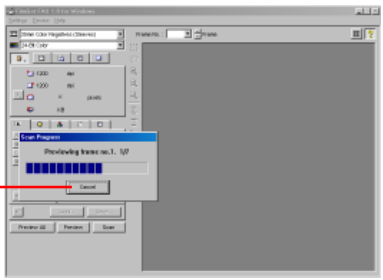
The size and position of the trimming frame can be adjusted.

8. Preview the selected frame.

See p. 41.

Click the Preview button.

The preview progress bar will display. Press the button if you wish to stop the preview scan.



Main Window

The image will display in the preview area.

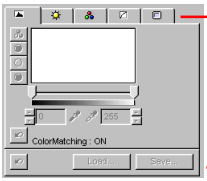
NOTE

- *The cancel command may take a few moments to take effect.*
- *If you have selected multiple frames for the preview scan, switch between the individual frames by clicking on the [frame no.] at the top of the preview area or by double-clicking an image in the preview all window.*

9. Set the scan settings.

See p. 46.

Set the scan settings frame by frame. Click a button in the scan settings section to select an appropriate settings mode, resolution and output method.



Select a mode corresponding to the purpose of the scanned image.

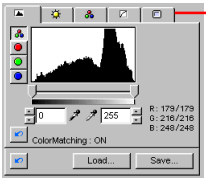
Set the values for each scan mode.

Scan Settings Section

10. Adjust the image brightness and coloring.

See p. 62.

If the preview images are not to your satisfaction, adjust the images frame by frame. Click an image adjustment settings tab and adjust the brightness and coloring.



Select an Image Adjustment Mode (Contrast/Brightness, etcetera)

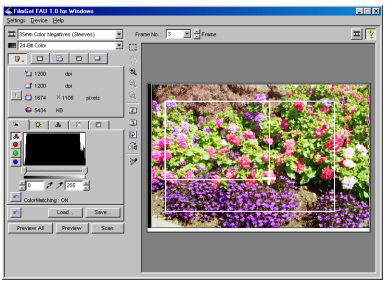
Set the values for each adjustment mode.

Image Adjustment Section

11. Select the scan area for each image.

See p. 63.

Drag the '+' shaped mouse cursor diagonally to select a scan area.

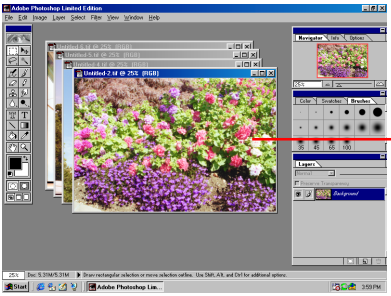


12. Initiate the final scan.

See p. 64.

Click the Scan button.

The scanned image will appear in the window of the application program from which FilmGet FAU was summoned.



Images from all the selected frames will display.

13. Retouch the image as required.

See the Manual for your application program.

Print or save image to disk with the application program from which FilmGet FAU was started.

STEP 1

Installing the Software

Proceed directly to Step 2

if you have already

installed FilmGet FAU with

the instructions from the

Getting Started.

Installing FilmGet FAU

Preparations before Installation

Check the following items before installing FilmGet FAU.

- Has the Film Adapter Unit been correctly installed onto the scanner?
See the *Getting Started, p. 10*.
- Are the scanner and Film Adapter Unit correctly plugged into electric outlets? (You must plug in and connect both the scanner and Film Adapter Unit before you start up your computer.)

System Requirements

The computer you use to run FilmGet FAU must meet the following minimum requirements. Install FilmGet FAU onto the hard disk drive.

Windows

Operating System:	Windows 95, Windows 98, Windows NT 4.0
CPU:	i486 or greater for Wlindows 95, 98 Pentium or greater for Windows NT 4.0
Hard Disk:	50 MB or more available
RAM:	32 MB or more (64 MB or more recommended)
Display:	VGA, 256 colors or more (32,000 colors recommended), 800 x 600 pixels or more
Other:	CD-ROM drive

You are recommended to install the latest service pack for Windows.

Macintosh

Operating System:	System Software 7.5 or later
CPU:	PowerPC
Hard Disk:	50 MB or more available
RAM:	32 MB or more (64 MB or more recommended)
Display:	256 colors or more (32,000 colors recommended), 640 x 480 pixels or more
Other:	CD-ROM drive

Installing and Uninstalling FilmGet FAU Windows

This topic explains the procedures for the Windows platform. For Macintosh, *see p. 21*.

Installing

Install FilmGet FAU from its CD-ROM. For instructions, see p.17, 'Installing the FAU Software Program (Windows),' in the Getting Started.

Uninstalling

Click the Windows [Start] menu and select [Settings], [Control Panel] and [Add/Remove Programs] to delete FilmGet FAU.

Select FilmGet FAU in this window and click the [Add/Remove] button.

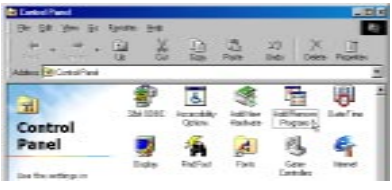
WARNING

- *Deleting FilmGet FAU directly, with the Windows Explorer for instance, will leave unnecessary data in the system files. Use the following procedures for the best results. Some information in files such as the WIN.INI file will remain undeleted.*

1. **Click the [Start] menu and select [Settings] and [Control Panel].**

   The Control Panel will display.

2. **Double-click the [Add/Remove Programs] icon.**



   The Add/Remove Programs Properties window will display.

3. **Select [FilmGet FAU 1.0 for Windows] and click the Add/Remove... button.**

4. **Click the [Yes] button.**

The FilmGet FAU Uninstall dialog will display.

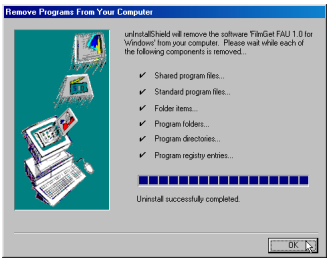
Continue the procedure by following the on-screen messages.

- Place a check mark beside all of the uninstall categories.

WARNING

- *If other Canon software for flatbed or film scanners is installed, a message asking confirmation to delete common files will display. Follow the on-screen messages to complete the procedure.*

5. Click the [OK] button.



The Add/Remove Programs Properties dialog will display again.

6. Click the ☒ close box at the upper right of the window.

This completes the uninstall procedure.

Installing and Uninstalling FilmGet FAU Macintosh

This topic explains the procedures for the Macintosh platform. For Windows, *see p. 18*.

Installing

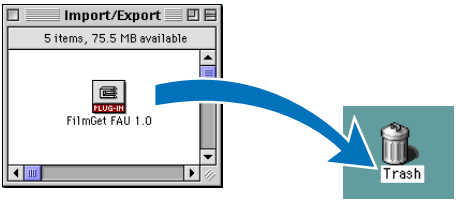
Install FilmGet FAU from its CD-ROM. For instructions, see p. 21, 'Installing the FAU Software Program (Macintosh),' in the Getting Started.

Uninstalling

Use the following procedures to uninstall (delete) FilmGet FAU before you upgrade to a newer version or when you desire to remove the program from your hard disk.

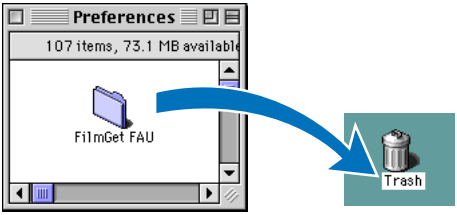
1. **Drag [FilmGet FAU 1.0] to the Trash from the folder in which it was installed.**

   If you have installed it into the folder of more than one application program, drag each copy to the Trash.



2. **Double-click the [System] and [Preferences] folders and drag the entire [FilmGet FAU] folder to the Trash.**

   This concludes the uninstall procedures.



STEP 2

Scanning

Starting and Exiting FilmGet FAU Windows

This topic explains the procedures for the Windows platform.
For Macintosh, *see p. 25*.

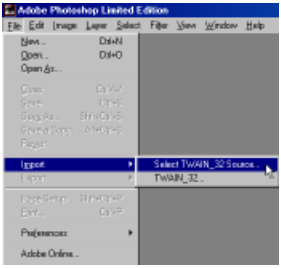
Starting FilmGet FAU

Start FilmGet FAU from within a TWAIN-compliant application program. Adobe Photoshop 5.0 LE is used in the example below.

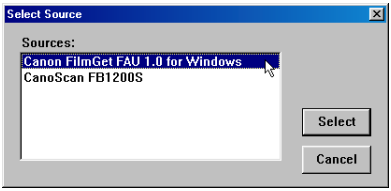
1. Start Adobe Photoshop 5.0 LE.

- If you are using a different TWAIN-compliant application program, start that program.

2. Click the [File] menu and select [Import] and [Select TWAIN_32 Source...].



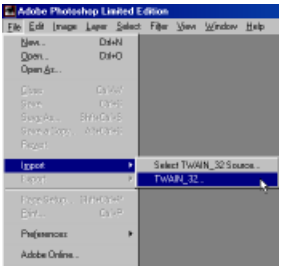
3. The Select Source dialog will display. Select [Canon FilmGet FAU 1.0 for Windows] from the list and click the [Select] button.



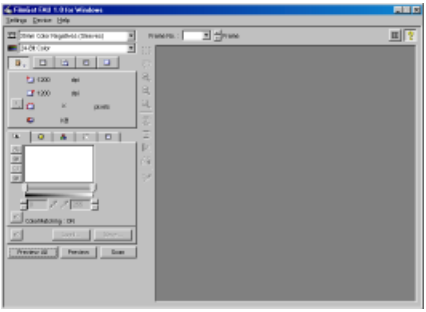
WARNING

- *The third step selects the scanning device. This step need only be taken the first time the Film Adapter Unit is used or when an alternate scanner or digital camera driver, such as ScanGear CS-S, has been used in the interim.*

4. **Click the [File] menu and select [Import] and [Twain_32...].**



The FilmGet FAU main window will display.



This window is used to view the scanned images.

WARNING

- *Some TWAIN-compliant application programs offer the choice of TWAIN_16 or TWAIN_32 for the items in steps 2 and 4. To use FilmGet FAU, select the TWAIN_32 option.*
- *Please refer to the manuals accompanying the individual software package for the procedures for opening a TWAIN driver from within a TWAIN-compliant application program other than Adobe Photoshop 5.0 LE.*

Exiting FilmGet FAU

1. **Click the ☒ (close box) at the upper right of the window.**

The FilmGet FAU main window will close.

NOTE

- *FilmGet FAU will automatically close when the 'Close FilmGet FAU after Acquire' option has been turned on in the [Preferences] item of the [Settings] menu.* *See p. 88.*

Starting and Quitting FilmGet FAU Macintosh

This topic explains the procedures for the Macintosh platform. For Windows, *see p. 23*.

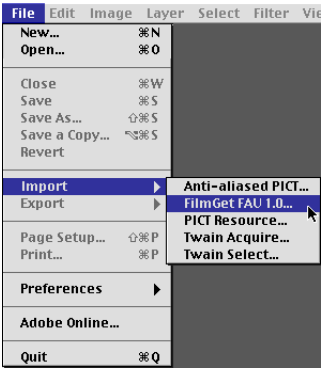
Starting FilmGet FAU

Start FilmGet FAU from within a plug-in compliant application program. Adobe Photoshop 5.0 LE is used in the example below.

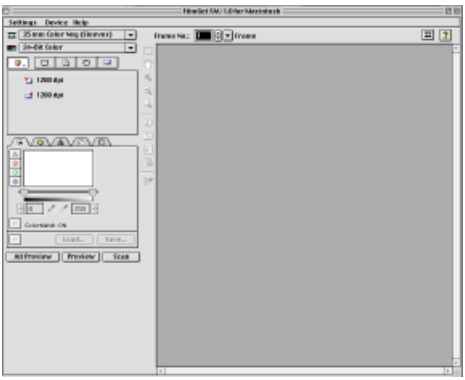
1. Start Adobe Photoshop 5.0 LE.

- If you are using a different plug-in compliant application program, start that program.

2. Click the [File] menu and select [Import] and [FilmGet FAU 1.0...].



▼ The FilmGet FAU main window will display.



- This window is used to view the scanned images.

NOTE

- *Please refer to the manuals accompanying the individual software package for the procedures for opening a plug-in from within a plug-in compliant application program other than Adobe Photoshop 5.0 LE.*

Quitting FilmGet FAU

1. Click the ☐ (close box) at the upper left of the window.

▼ The FilmGet FAU main window will close.

NOTE

- *FilmGet FAU will automatically close when the 'Close FilmGet FAU after Acquire' option has been turned on in the [Preferences] item of the [Settings] menu.* *See p. 88.*

Main Window

Main Window Windows

The main window is the first to display when FilmGet FAU is launched.

Image Adjustment Section
Adjusts the brightness and coloring of preview images.

Scan Settings Section
Sets the resolution and output target settings according to the primary purpose of the scanned image.

Title Bar
Displays the window title. Click here and drag the window to change its position on the desktop.

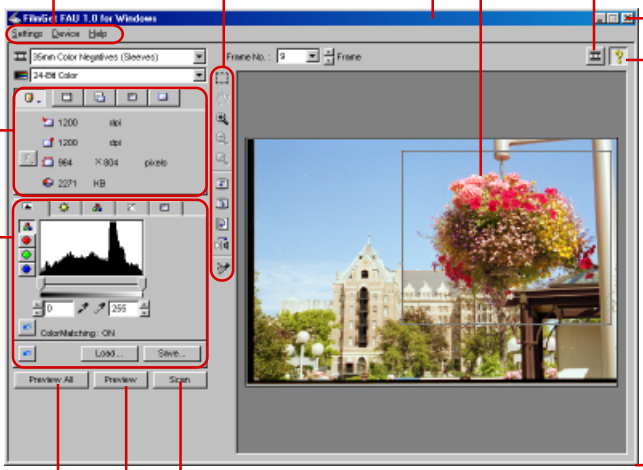
Preview Area
Displays the preview image for a single frame. Use this area to set the scan area and inspect adjustments to the image.

Close Box
Closes FilmGet FAU (Windows).

Menu Bar
Contains the various commands and settings to control how FilmGet FAU operates.

Toolbar
Contains the tools that control how previewed images are processed.

Show Preview All Window
Shows the preview all window.



Show/Hide Tool Tips
Shows or hides the tool tips.

Preview All Button
Initiates a preview scan of the entire scanner platen and displays the position of each frame in the preview all window.

Preview Button
Initiates a preview scan and displays the images one at a time in the preview area.

Scan Button
Initiates the final scan and displays the scanned images in the window of the application program from which FilmGet FAU was started.

Window Resizing
Click and drag anywhere along the right or bottom edges to resize the window.

Main Window Macintosh

The FilmGet FAU main window is virtually indistinguishable between the Windows and Macintosh versions. The primary difference is the location of the close box. On the Macintosh version it is located at the top left corner of the window.

Close Box
Closes FilmGet FAU (Macintosh).

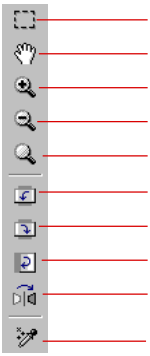
Menu Bar in the Main Window

Settings Menu
Sets the auto exposure, the preview settings and the color matching system settings among others. *See p. 85*.

Device Menu
Selects the scanner, runs a scanner test or displays scanner information. *See p. 91*.

Help Menu
Displays FilmGet FAU help topics or software version data. *See p. 92*.

Tool Bar in the Main Window

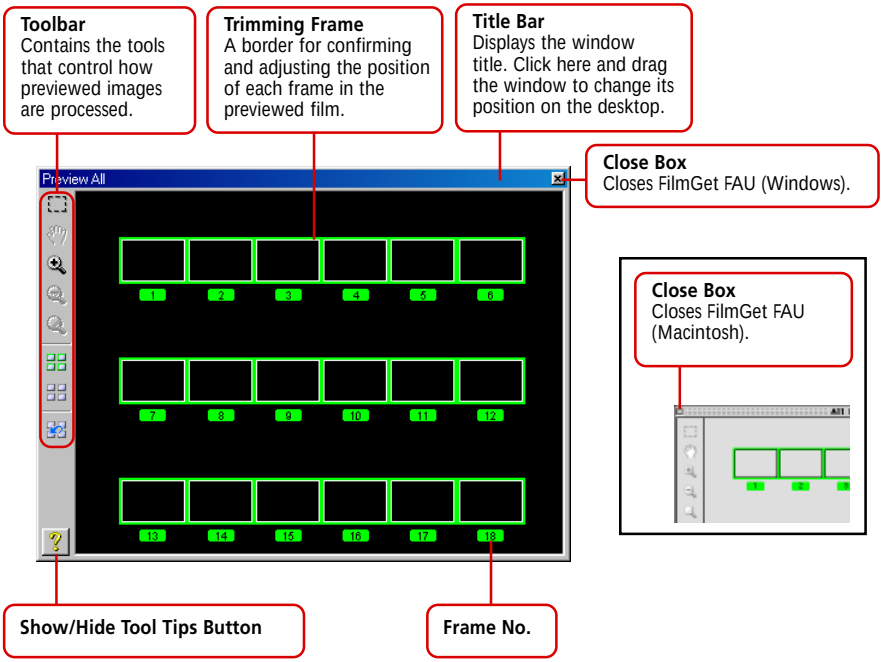


- Selector Tool. *See p. 63*.
- Grab Tool. *See p. 45*.
- Zoom In Tool. *See p. 44*.
- Zoom Out Tool. *See p. 44*.
- Zoom Reset Tool. *See p. 44*.
- Rotate 90 Degrees Left Tool. *See p. 45*.
- Rotate 90 Degrees Right Tool. *See p. 45*.
- Rotate 180 Degrees Tool. *See p. 45*.
- Flip Tool. *See p. 45*.
- Auto Correct Tool. *See p. 45*.

Preview All Window

Preview All Window

The preview all window is the window that appears when you click the Preview All or (Show Preview All Window) button.



Toolbar in the Preview All Window

Selector Tool. *See p. 39*.

Grab Tool. *See p. 40*.

Zoom In Tool. *See p. 39*.

Zoom Out Tool. *See p. 40*.

Zoom Reset Tool. *See p. 40*.

Select All Frames Tool. *See p. 37*.

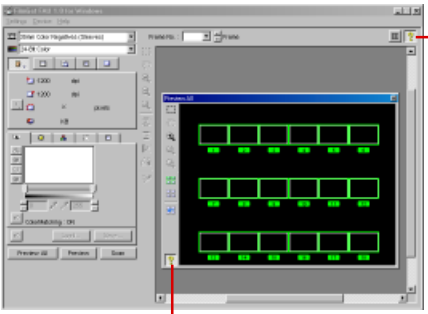
Deselect All Frames Tool. *See p. 37*.

Reset Trimming Frames Tool. *See p. 39*.

120 Format Settings Tool. *See p. 40*.

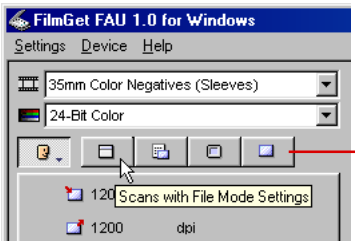
How to Find Help

FilmGet FAU is equipped with tool tips that explain the functions of the buttons and tools in the window. When you click the button at the top right of the preview or preview all window, the button will change to the button. In this state, positioning the mouse cursor over a button or tool will display the tool tip for that item. To hide the tool tips, click the button again.



Show/Hide Tool Tips Button

Show/Hide Tool Tips Button



Tool Tip

Scanning Procedures

Although scanning procedures vary for each image mode (color, grayscale or black and white), the basics are the same. Use the following procedures as a guideline. Each step is explained in greater detail on the referenced pages.

(1) Place the film on the scanner platen. *See p. 32.*
Prepare the scanner and Film Adapter Unit and position the film.

(2) Set the film type. *See p. 33.*
Select a film type matching the film you are scanning.

(3) Set the image mode. *See p. 34.*
Select between [24-Bit Color] and [36-Bit Color] for the color mode, between [8-Bit Grayscale] and [12-Bit Grayscale] for the grayscale mode, and [Black and White] for the black and white mode.

(4) Preview all the frames. *See p. 36.*
Initiate a preview scan of all the film frames on the scanner platen to confirm their positions.

(5) Select one or more frames. *See p. 37.*

(6) Adjust the trimming frames. *See p. 39.*
Adjust the positions and sizes of the trimming frames to the selected images.

(7) Preview the images. *See p. 41.*
Preview the selected images (frame by frame).

(8) Set the scan settings. *See p. 46.*
Set the resolution, output target and image size according to the purpose of the scanned image (frame by frame).

(9) Adjust the brightness and coloring. *See p. 62.*
If the image requires adjustment, adjust the color balance and brightness of images scanned in color mode, the brightness of images scanned in grayscale mode and the threshold value of images scanned in black and white mode (frame by frame).

(10) Select the scan area. *See p. 63.*
Drag the mouse cursor to select the scan area if you wish to crop the image (frame by frame).

(11) Initiate the final scan. *See p. 64.*
Scan all the selected frames and display the images in the window of the application program from which FilmGet FAU was started. Use the application program to print or save the images.

Positioning Film

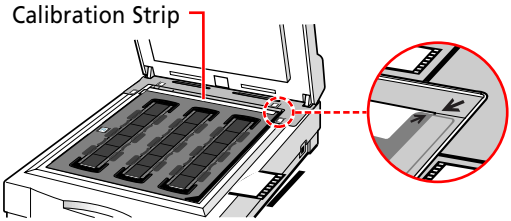
Preparing the Film Adapter Unit

Check the following points before you begin positioning the film on the scanner platen.

- Are the scanner and Film Adapter Unit correctly connected?
- Are both the scanner and Film Adapter Unit plugged into electrical outlets?
- Were the scanner and Film Adapter Unit powered up before the computer was turned on?

Positioning Film

Insert the film into a film guide and place it on the scanner platen as shown below.



Align the ➔ alignment mark on the film guide with the ➔ alignment mark on the positioning guide on the scanner.

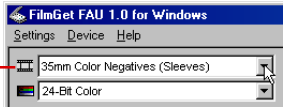
WARNING

- *Place the film face down to obtain the correct orientation.*
- *Be sure not to obstruct the calibration slit when positioning the film guide. Always align the alignment marks.*
- *Please refer to page 24 of the Getting Started for the procedures for placing the film in the film guides.*

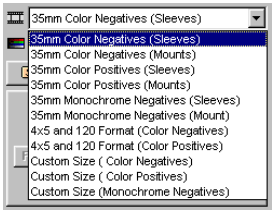
Setting the Film Type

Select the appropriate film type for the film being scanned. It is important to set this setting correctly to reproduce colors faithfully.

Film Type Selection



Click the ▼ arrow button to display the list of film types in a pull-down menu.



Position the mouse cursor over the item you wish to select and click. Your selection will appear in the box when the pull-down menu closes.

35mm Color Negatives (Sleeves)
35mm Color Negatives (Mounts)
35mm Color Positives (Sleeves)
35mm Color Positives (Mounts)
35mm Monochrome Negatives (Sleeves)
35mm Monochrome Negatives (Mount)
4x5 and 120 Format (Color Negatives)
4x5 and 120 Format (Color Positives)
Custom Size (Color Negatives)
Custom Size (Color Positives)
Custom Size (Monochrome Negatives)

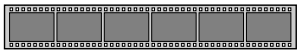
Select one of these for a 35 mm film.

Select one of these for 4" x 5" or 120 format film.

Select one of these for an OHP transparency or large format film.

NOTE

- *There are two formats for 35 mm film: sleeves or mounts. Select the correct option for each format.*

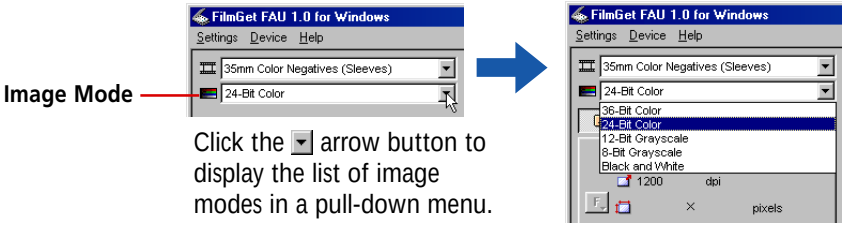


Sleeve

Mount

Setting the Image Mode

You can select between the color, grayscale and black and white modes when selecting the image type. Select a mode appropriate to the type of film and the purpose of the image.



Click the ▼ arrow button to display the list of image modes in a pull-down menu.

Position the mouse cursor over the item you wish to select and click. Your selection will appear in the box when the pull-down menu closes.

WARNING

- *The [36-Bit Color] and [24-Bit Color] options are grayed out and not available when a monochrome film type has been selected.*

Determining the Image Mode

You may select from among five image modes.

24-Bit Color: The image is expressed in 256 tones (8 bits) per RGB (red, green and blue) channel. Select this setting to scan standard color films.

36-Bit Color: The image is expressed in 4,096 tones (12 bits) per RGB channel. Select this setting when a particularly high-quality color image is required. The file will be approximately twice as large as the corresponding 24-bit color file.

8-Bit Grayscale: The image is expressed in 256 tones (black, white and 254 gray shades). Select this setting for monochrome films or when a monochrome image is desired.

12-Bit Grayscale: The image is expressed in 4,096 tones (black, white and 4,094 gray shades). Select this setting when a particularly high-quality grayscale image is required. The file will be approximately twice as large as the corresponding 8-bit grayscale file.

Grayscale

Black and White: Images are expressed in two colors only, black and white. Light and dark areas of the image are expressed as either black or white according to the threshold value. The threshold value can be freely set.

Black and White

WARNING

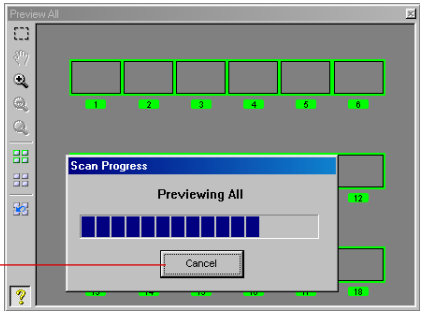
- *The software may 'hang' or the scan may produce strange results if you attempt to scan in the 12-bit grayscale or 36-bit color image modes with an application program that does not support them. Check the software specifications before using either mode. These modes are supported by version 4.0 and later versions of Adobe Photoshop and by the Adobe Photoshop LE software shipped with the CanoScan FB1200S scanner.*
- *If you are using a version of Adobe Photoshop that supports 36-bit color, images scanned in the 36-bit color and 12-bit grayscale modes become 16-bit channel mode images.*

Previewing All the Frames

Once you have selected the film type and image mode, you should confirm the position of the film frames on the scanner platen with the preview all function.

Click the [Preview All] button. The preview all window will display everything detected on the scanner platen.

A preview scan progress bar will display. Click the [Cancel] button if you wish to cancel the command.



Preview All Window (showing 35 mm sleeve film)

When the preview all scan is complete, the preview all window will show the position of the film and the trimming frames.

WARNING

- *FilmGet FAU automatically calibrates itself and displays the 'Calibrating' message before it performs the preview all scan. This process is to teach the correct white balance to the scanner, which uses it as the registration color to correctly scan all the other colors. Do not open the Film Adapter Unit for any reason during this process.*
- *The scanner may take a few moments to respond to the [Cancel] button when it is clicked during calibration.*
- *If the 'Insufficient free space on hard disk drive' message or a similar message displays during the preview all scan, it means that your hard disk drive is too full to store the data for the preview scan. Delete unnecessary files from the hard drive to free sufficient space and reinitiate the preview all scan.*
- *The images in the preview all scan cannot be saved or adjusted.*

NOTE

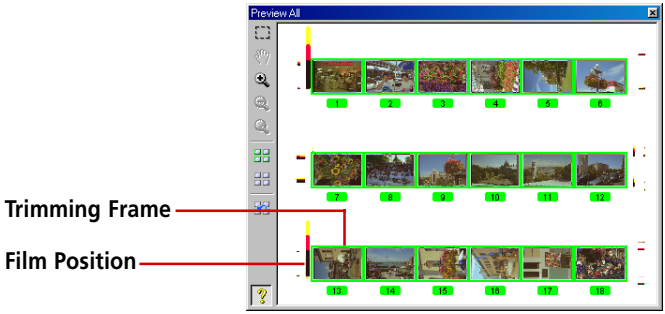
- *You can display the preview all window by clicking the [Show Preview All Window] button at the top right of the main window. Click the ☒ (close box) at the top right (top left of the Macintosh version) of the preview all window to hide it again.*

Selecting Frames

Select the frames you wish to scan from the film placed on the scanner platen.

Selecting/Deselecting All

All frames are selected and are shown encased in the green trimming frames when the preview all window is first displayed.



It is convenient to use the toolbar at the left of the preview all window to select or deselect all the frames at once.

- Select All Tool (green). Click this tool to select all the frames.
- Deselect All Tool (light purple). Click this tool to deselect all the frames.

Selecting/Deselecting a Single Frame

- Click on a frame to select it. The trimming frame around the image will turn green.
- Click again on the frame to deselect it. The trimming frame will disappear and the image frame will turn pale color.

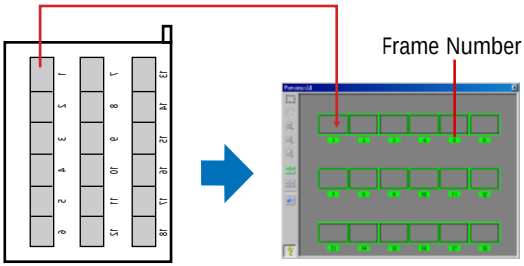
WARNING

- *The frame placed in position number one in the film guide will display at the top left of the preview all window. (The frame numbers in the preview all window correspond to the numbers on the film guides.)*

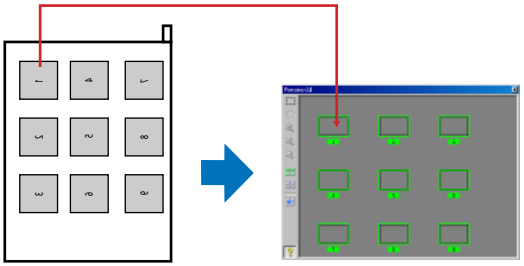
WARNING

- *The position of the film and the trimming frames in the preview all window will automatically vary with the type of film selected.*

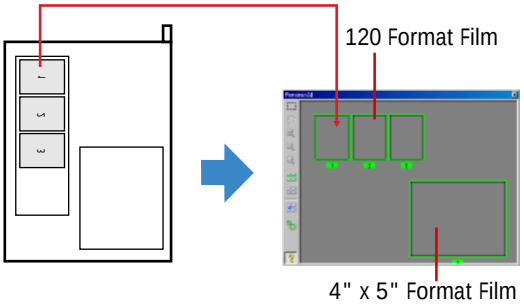
35 mm Film (Sleeves)



35 mm Film (Mounts)



4" x 5"/120 Format Film



* Place the film face down in the guides (*See the Getting Started, pp. 25, 28, 29, 31, 32*).

Adjusting Trimming Frames

You can adjust the position and size of the trimming frames to align them over the film frames. The image inside an adjusted trimming frame will undergo a preview scan. The image will not be scanned correctly if the trimming frame is not properly aligned. Confirm that the trimming frame is properly aligned over the image.

Moving the Trimming Frames

- Click the selector tool and position the mouse cursor inside the trimming frame you wish to move. The mouse cursor will change into the shape. Click and drag to move the trimming frame in this state.
  You can also use the [←], [→], [↑] or [↓] keyboard cursor keys to move the trimming frame one pixel at a time in the direction of the arrow.

Resizing the Trimming Frames

- When the selector tool is selected, aligning the mouse cursor over the trimming frame border transforms it into the ⇔, ⇕, ⤢ or ⤡ shapes. In this state, dragging the border in the direction of either arrow changes the size of the trimming frame.

NOTE

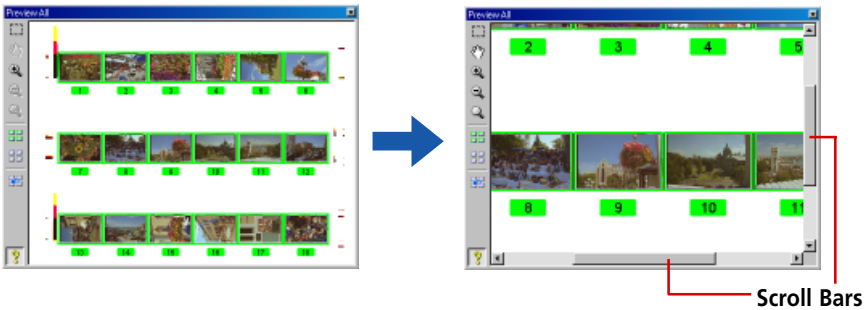
- *When the selector tool is selected, the mouse pointer returns to its standard shape when it is positioned outside the trimming frames.*

Restoring Default Trimming Frame Settings

Click the reset trimming frames tool to restore all the trimming frames to their default sizes and positions.

Zooming an Image for Verification

Click the zoom in tool to magnify the display of the preview all window by a factor of 2 with each click.



- Click the zoom out tool to shrink the display of the preview all window by a factor of 2 with each click.
- Click the zoom reset tool to restore the display of the preview all window to its default setting.

WARNING

- *The zoom tools are disabled (grayed out) when there are no images displayed in the preview all window.*

NOTE

- *Scroll bars appear on the right and bottom edges of the preview all window when it is zoomed. The scroll bars can be used to change the portion of the image appearing in the window.*
- *An image may be zoomed up to four times to magnify it by a factor of 16.*

Moving Images within the Preview All Window

- Click the grab tool to change the mouse cursor into the shape. Dragging the cursor in this state over an image shifts the position of the image within the preview all window.

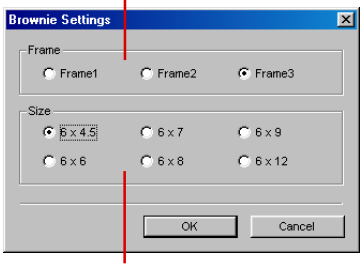
NOTE

- *The grab tool is only activated when the preview all window has been zoomed with the zoom in tool.*

Settings for 120 Format Films

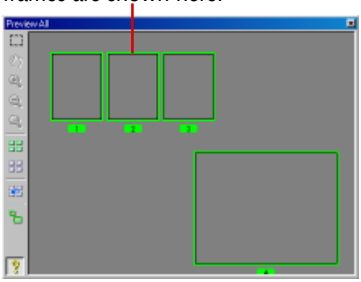
Click the (120 format settings) button to display a dialog for setting the sizes and number of frames for 120 format film.

Click here to set the number of frames.



Select the film size here.

The selected film size and number of frames are shown here.



NOTE

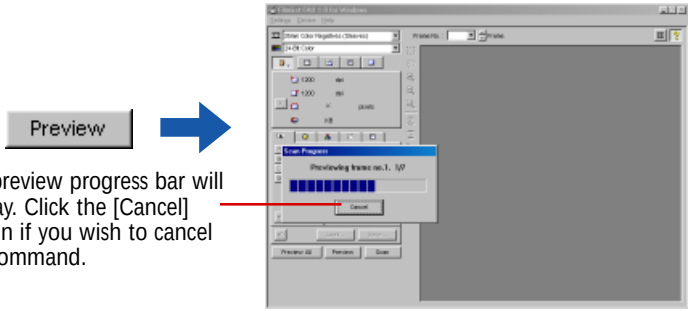
- *The options for the number of frames that can be selected vary with the film size.*
- *The grayed out numbers cannot be selected.*

Previewing

Once you have selected one or more frames and adjusted the trimming frames, the next step is to preview the selected images.

Previewing

Click the Preview button to initiate a preview scan of each image in succession. The images will appear one-by-one in the preview area.



WARNING

- *FilmGet FAU automatically calibrates itself and displays the 'Calibrating' message before it performs the preview all scan. This process is to teach the correct white balance to the scanner, which uses it as the registration color to correctly scan all the other colors. Do not open the Film Adapter Unit for any reason during this process.*
- *The scanner may take a few moments to respond to the [Cancel] button when it is clicked during calibration.*
- *If the 'Insufficient free space on hard disk drive' message or a similar message displays during the preview scan, it means that your hard disk drive is too full to temporarily store the data for the preview scan. Delete unnecessary files from the hard drive to free sufficient space and reinitiate the preview scan.*

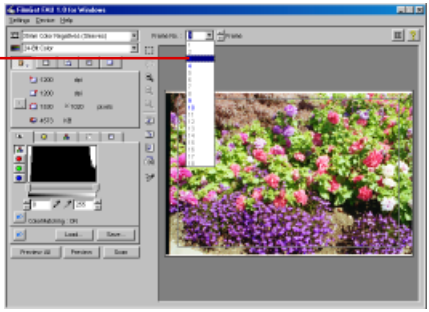
NOTE

- *Adjustments, such as changing the image mode or brightness (See p. 67), are reflected immediately in the preview image. Please note, however, that the preview scan is only an approximation of how the final scan will appear. The end result may differ slightly.*

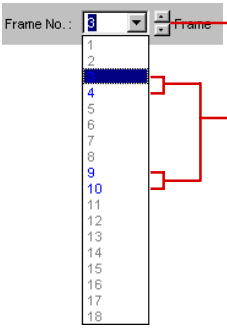
Switching between Preview Images

When multiple images have been batch scanned with the preview function, you can switch the image in the preview window by selecting its frame number from the list box at the top of the preview area.

Click the ▼ arrow button to display the list of frames from which to select.



Highlight the number of the frame you wish to view and click to select it. The pull-down menu will close and the selected frame number will display in the list box. The image will appear in the preview area.



You can also click the ▲▼ buttons to scroll through the frame numbers.

Select an image included in the preview scan.

The numbers of frames that were not included in the preview scan will be grayed out.

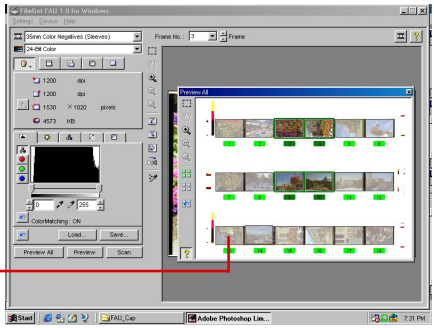
NOTE

- *A message asking whether you wish to preview the image will appear if you select a grayed out frame number from the pull-down menu. You can initiate a preview scan of the image by clicking the [Yes] button.*

Switching Images with the Preview All Window

You can switch the image displayed in the preview area by clicking the (Show Preview All Window) button and double-clicking the frame you wish to view.

Double-click a frame to switch the image in the preview area to the selected frame.



NOTE

- *The frame number and trimming frame will have a dark green appearance if you double-click a frame that has already been previewed.*
- *A message asking if you wish to initiate a preview scan will appear if you double-click a frame that has yet to be pre-viewed or if its trimming frame has been adjusted. You can initiate a preview scan of the image by clicking the [Yes] button.*

Using the Toolbar to Manipulate Images

You can use the toolbar in the preview area to zoom the display, move the preview image or change its orientation.

WARNING

- *Please note that the toolbar is grayed out when the preview area is empty. No tools can be selected until an image is previewed.*

Zooming an Image for Verification

- Click the zoom in tool to select it. The display will zoom in by a factor of 2 each time you click the tool on the preview image.

- Click the zoom out tool to select it. The display will zoom out by a factor of 2 each time you click the tool on the preview image.
- Click the zoom reset tool to restore the display to the default zoom setting.

NOTE

- *Scroll bars appear on the right and bottom edges of the preview area when it is zoomed. The scroll bars can be used to change the portion of the image appearing in the window. This function merely changes the display magnification. It will not affect the resolution or scan size (See pp. 46, 47.) of the scanned image. The preview area may be zoomed up to four times to magnify the image by a factor of 16.*

Moving an Image within the Preview Area

- Click the grab tool to change the mouse cursor into the shape. Drag the grab tool over the image in the preview area to shift it.

NOTE

- *The grab tool is only activated when the preview area has been zoomed with the zoom in tool.*

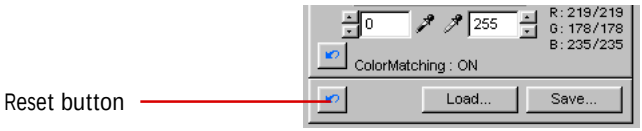
Rotating Images

Click one of the tools below to rotate the preview area or flip the image within it.

- Rotate 90 Degrees Left Tool
  Rotates the entire preview area 90 degrees counterclockwise.
- Rotate 90 Degrees Right Tool
  Rotates the entire preview area 90 degrees clockwise.
- Rotate 180 Degrees Tool
  Rotates the entire preview area 180 degrees.
- Flip Tool
  Flips the image from left to right in the preview area.

Using Auto Correction on Images

- Click the auto correct tool to automatically adjust the highlights and shadows, brightness and coloring of the preview image.
- Click the (reset) button to reverse the changes.



Adjusting the Scan Settings

Once you have previewed the images, you can set the scan settings for each individual frame.

WARNING

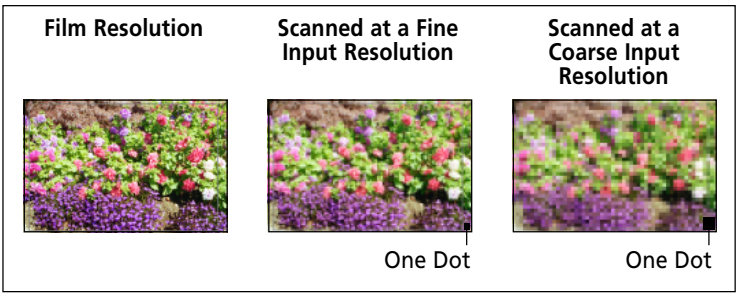
- *If you do not adjust the scan settings, the image will be scanned at the same settings as the preview scan.*

Important Facts about Scan Settings

The input resolution, output resolution and image width and height are important scan settings.

What is the Input Resolution?

When the scanner scans film it reads the image as a collection of dots. The relative density of these dots is referred to as the 'resolution.' Since this is the input stage of the scanning process, this resolution is referred to as the 'input resolution.' The illustration below shows the same image scanned with different input resolutions.



NOTE

- *Resolution is measured in units called dots per inch (dpi). This measures the number of dots contained in one linear inch.*
- *Each dot is assigned individual brightness and color values.*

What is the Output Resolution?

The output resolution is the name used to describe the relative density of the dots that form an image when it is reproduced after scanning. Printing an image on a printer, transmitting it as a fax or displaying it on a monitor are examples of how an image may be output.

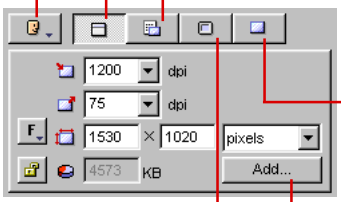
Image Width and Height

The image width and height settings determine the size at which an image will be reproduced when it is output to a printer or shown on a monitor.

The scan settings would require considerable forethought to set correctly if you had to manually set the input resolution, output resolution, and image width and height to achieve a particular result. Fortunately, FilmGet FAU simplifies this process by providing five preset modes that correspond to various uses of the image. It is simple to fine-tune the settings merely by selecting one of these modes and adjusting its preset values.

Guide to the Scan Settings Section

The scan settings section is used to adjust the scan settings. Switch between modes by clicking one of the five buttons.



Custom Mode. *See p. 58*.
Select this mode when you wish to scan with customized scan settings that have been added to the FilmGet FAU list.

File Mode. *See p. 50*.
Select this mode when you scan an image for the purpose of saving it to a file.

Text/Printer/Fax Mode. *See p. 54*.
Select this mode when you scan an image to paste it into a document file, print it on a printer or send it as a fax.

Photo Size Mode. *See p. 57*.
Select this mode when you wish to output the image at a typical photo print size.

Add Button

Display Mode. *See p. 56*.
Select this mode when you scan an image to display it on a monitor.

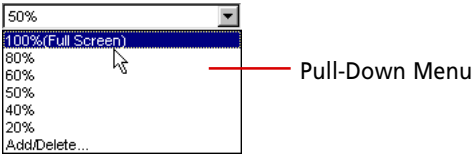
This is where the actual settings for each mode are set and displayed. Refer to the topics for each mode for an explanation of the settings.

Procedures Common to All Scan Modes

This topic introduces the procedures that are common to all five scan modes.

Settings

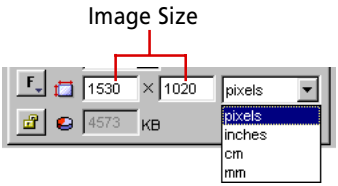
Click the ▼ arrow beside any settings category to display a pull-down menu with all the selectable options. Highlight an item with the mouse cursor and click to select it.



Select the Add/Delete option from any menu to add or delete items to and from the list. *See p. 61*, 'Adding and Deleting Items,' for more information.

Units

Click the ▼ arrow beside any units box to display a pull-down menu with all the selectable options. Highlight an item with the mouse cursor and click to select it. Changing the units will also change the figures in the image size boxes to corresponding values.

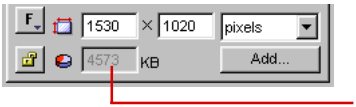


NOTE

- *The term 'pixel' (picture element) is virtually equivalent in meaning to the 'dots' used to describe resolution. This unit of measure is often used to describe the size of an image, particularly when it is displayed on a monitor.*

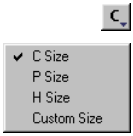
Grayed Out Values

In the scan settings section, grayed out figures indicate values that are automatically calculated as a function of other settings.

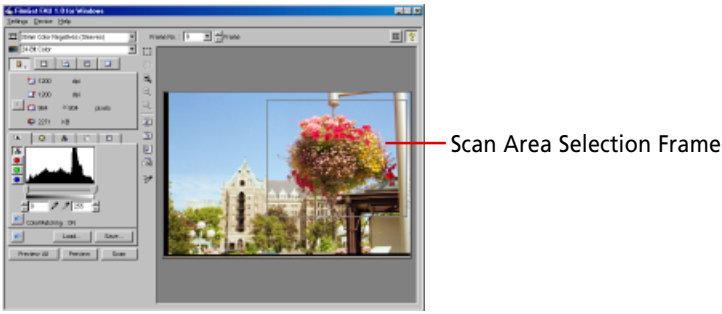


This indicates that the value is automatically calculated as a function of other settings.

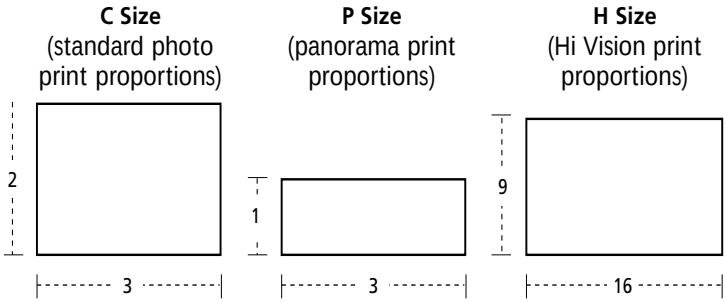
Aspect Ratio of the Scan Area



Select this item when you wish to change the aspect ratio of the selected scan area. Changes to this ratio are immediately reflected in the preview area. The image size settings will also change in accordance.



Standard Aspect Ratios



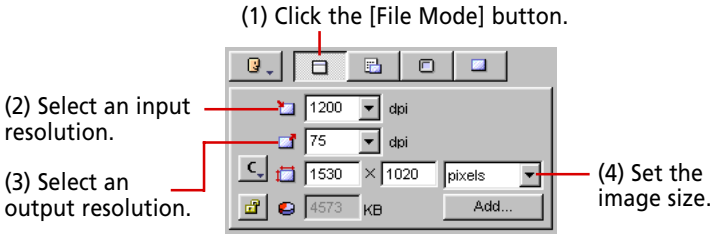
* The aspect ratios of custom sizes may be freely changed.

- *Custom sizes are not available when the scan mode is set to the photo size mode.*

If you use a custom size regularly, you can assign it a name and add it to the list. The items you add will display in the custom mode pull-down menu. *See p. 60*, 'Adding Scan Settings,' for more information.

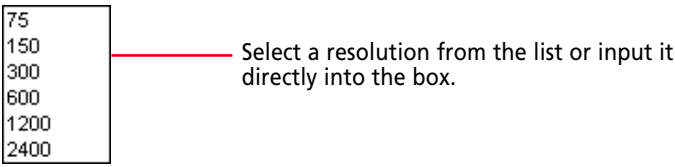
Saving to a File

Select [File Mode] when you scan an image for the purpose of saving it to a file.



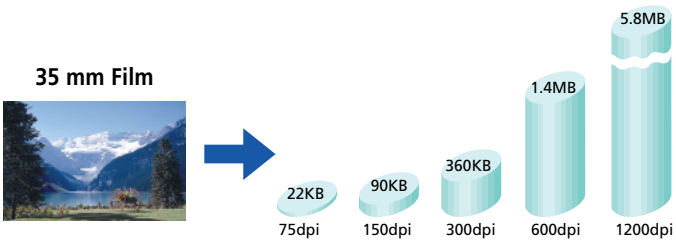
Selecting an Input Resolution

The input resolution box sets the resolution at which an image will be scanned. The higher the value, the finer the resolution. The lower the value, the coarser the resolution. Select the value best suited to your purposes. Note that the values you select for the input resolution determine the image and file sizes.



How File Sizes Vary with the Input Resolution

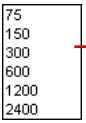
The higher the input resolution, the larger the image file. If the file is too large, it can slow processing and may overload your computer's memory resources. To illustrate the difference in file size, we show the results of an image scanned from 35 mm film in 24-bit color mode at the respective input resolutions.



* These numbers are approximate and may differ from actual results.

Selecting an Output Resolution

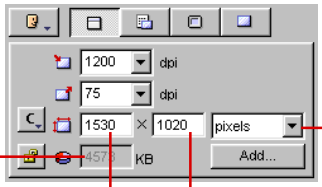
The output resolution box sets the resolution at which an image is reproduced.



Select a resolution from the list or input it directly into the box.

Image Size Settings

The image size boxes set the width and height. Changing the image size changes the file size. The size of the scan area selection frame will also change as a function of these settings.



File Size (Automatically calculated)

Change the units as required.

Input a width directly into the box.

Input a height directly into the box.

NOTE

- *Changing the size of the scan area selection frame changes the image and file sizes in the scan settings section by corresponding amounts.*
- *If you click the fixed image size button, it will change into the locked button and fix the file size at the specified value.*

How the Input Resolution, Image Size and File Size Relate

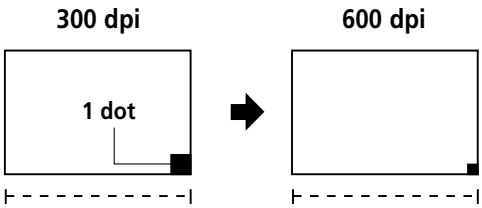
To understand the relationship between the three settings, see the example below of an image scanned in the file mode at different input resolutions.

		Example with the Input Resolution Changed to 600
Input Resolution (dpi)	300	600
Output Resolution (dpi)	300	300
Image Size (pixels)	300 x 200	600 x 400
Image Size (cm)	2.54 x 1.69	5.08 x 3.38
File Size (KB)	180	720

* These numbers are approximate and may differ from actual results.

Example with the Input Resolution Changed from 300 to 600 dpi

An input resolution of 600 dpi signifies that one linear inch of the scanned image contains 600 dots (= pixels). Since the number of dots has been increased (doubled in this case), the image size (pixels) has increased (doubled) by a corresponding amount.



Scanned at 300 dots per inch

Scanned at 600 dots per inch

Since the width and height were each doubled, the file size is quadrupled.

When you wish to save a scanned image to a file, it is helpful to keep this relationship in mind. In this case, there is no need to pay attention to the output resolution.

How the Output Resolution and Image Size Relate

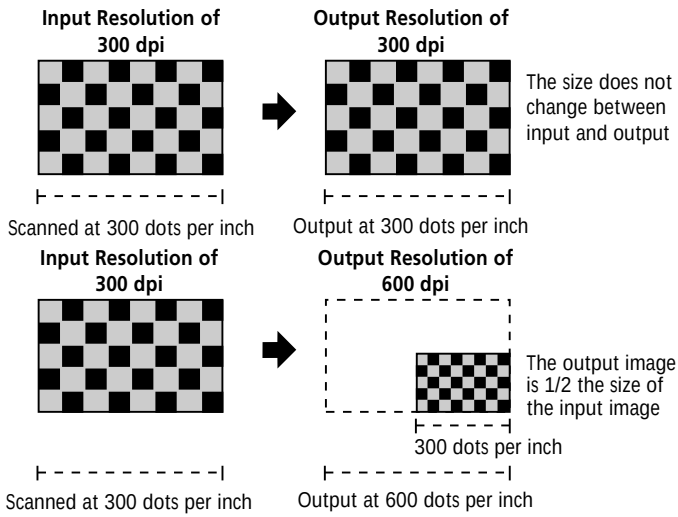
To understand the relationship between the two settings, see the example below of an image scanned in the file mode at different output resolutions.

		Example with the Output Resolution Changed to 600
Input Resolution (dpi)	300	600
Output Resolution (dpi)	300	300
Image Size (pixels)	300 x 200	300 x 300
Image Size (cm)	2.54 x 1.69	1.27 x 0.84
File Size (KB)	180	180

* These numbers are approximate and may differ from actual results.

Example with the Output Resolution Changed from 300 to 600 dpi.

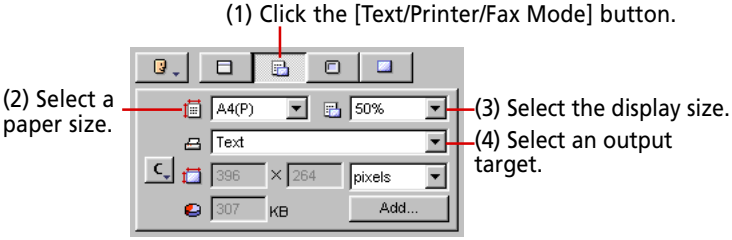
An output resolution of 600 dpi signifies that one linear inch of an image output to a printer or to a monitor will contain 600 dots (= pixels). Since the image was scanned at a density of 300 dots per inch and is being output at twice that density, the image size is cut in half. You are, in effect, placing more of the image in less space.



Keep this relationship in mind when you need to pay attention to the size of the output image.

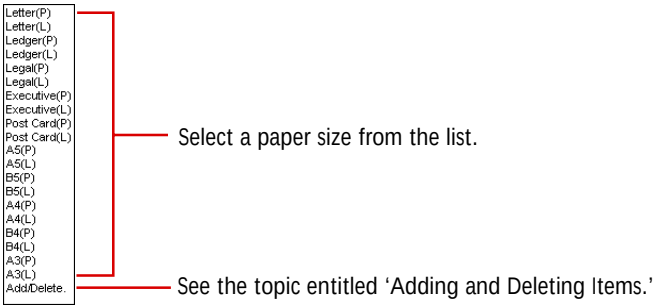
Pasting Images in Documents/Outputting Images to Printers/Sending Images as Facsimiles

Select the [Text/Printer/Fax Mode] when you wish to paste an image into a word processor file, print it to a printer or send it as a fax. You can use this mode without worrying about the resolution or image size.



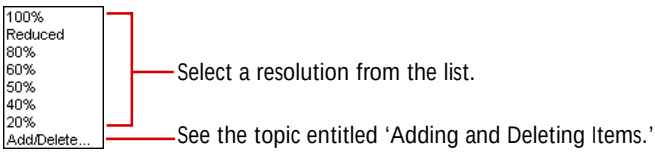
Selecting the Paper Size

The paper size you select in this category is the size of the paper onto which you will be pasting, printing or faxing the image.



Selecting the Display Size

The paper size you select in this category is the size of the paper onto which you will be pasting, printing or faxing the image.



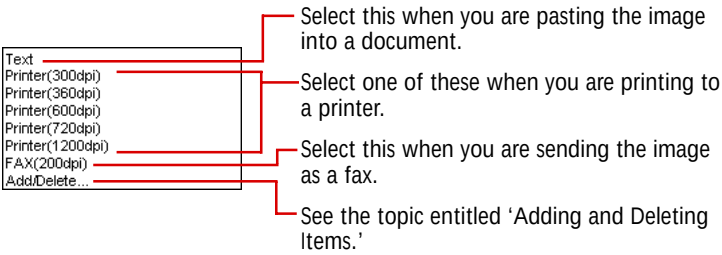
NOTE

- *Selecting the [Reduced] option sets the image size to fit within the margins below.*

  Top Margin: 20.5 mm
  Bottom Margin: 20.5 mm
  Left Margin: 3.7 mm
  Right Margin: 3.7 mm

Selecting an Output Target

Select an output target with this item.



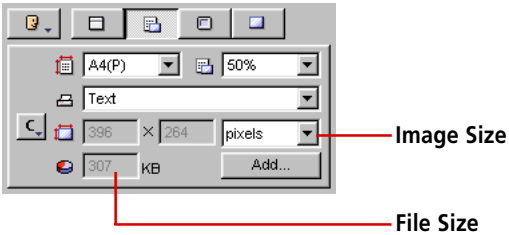
NOTE

- *The resolution of the text option is set to the following values.*

  Windows: 96 dpi
  Macintosh: 72 dpi

Image and File Sizes

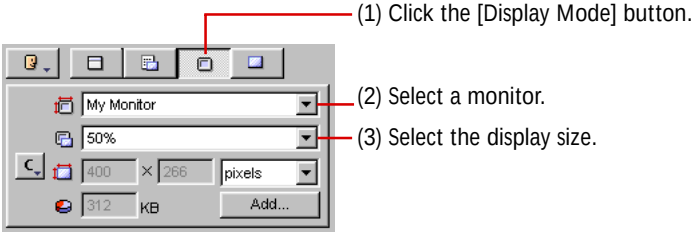
The image and file sizes are automatically calculated when you set the paper size, the display size and the output target. The input boxes are grayed out and values cannot be entered directly into the boxes.



The image size units can, however, be switched between pixels, inches, centimeters and millimeters. The image size figures will change to the appropriate values for the type of units selected. Monitor how these settings change as you change the settings above them.

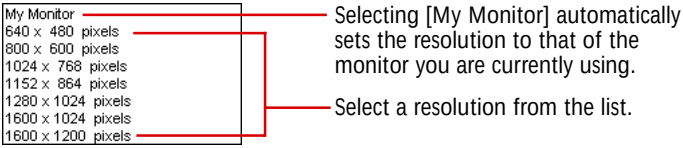
Displaying Images on Monitors

Select [Display Mode] when you scan an image for the purpose of displaying it on a monitor.



Selecting a Monitor

Select the resolution setting for the monitor on which the scanned image will be displayed.



Selecting the Display Size

This setting allows you to choose the relative size at which the scanned image will be shown on the selected display.

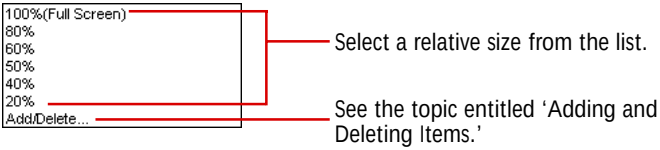
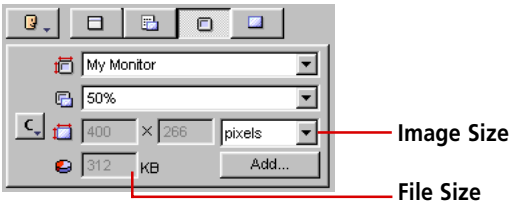


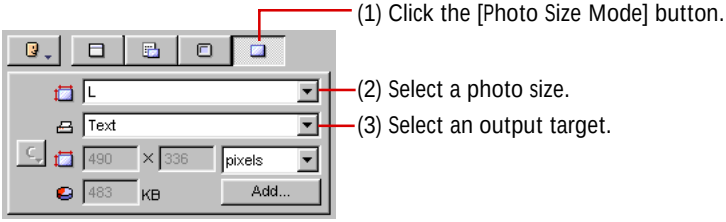
Image and File Sizes

The image and file sizes are automatically calculated when you set the monitor and the display size. The input boxes are grayed out and values cannot be entered directly into the boxes.

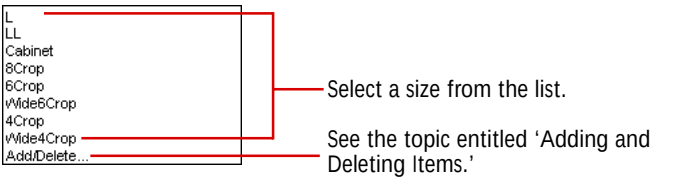


Outputting Images to Standard Photo Sizes

Select the [Photo Size Mode] when you wish to output the image at a typical photo print size.



Selecting a Photo Size



Selecting an Output Target

Select an output target for the scanned image.

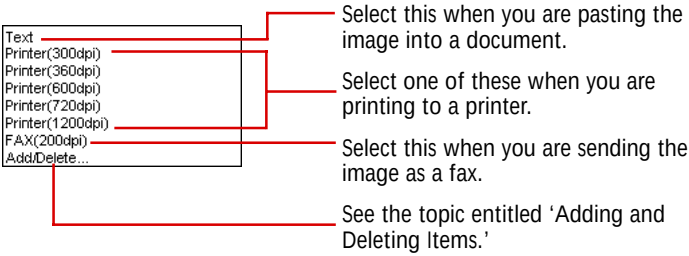
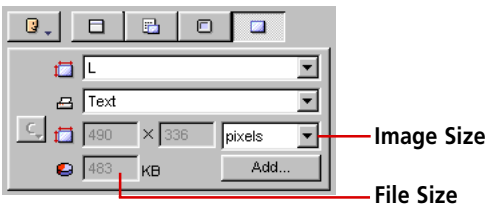


Image and File Sizes

The image and file sizes are automatically calculated when you set the photo size and the output target. The input boxes are grayed out and values cannot be entered directly into the boxes.

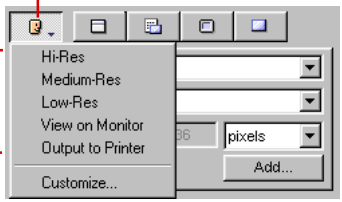


Using the Custom Mode

The custom mode features five preset items. You can save the time and effort required to set complex scan settings by using them. In addition, you can add your own settings and access them from this menu. *See page 61*, 'Adding and Deleting Items,' for more information.

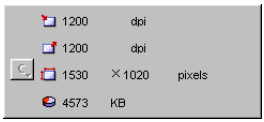
(1) Click the [Custom Mode] button.

(2) Select a scan setting
Highlight and click to select a setting. A check mark will appear beside the selected item.

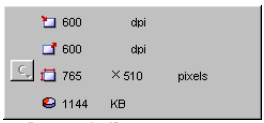


Selecting a Scan Setting

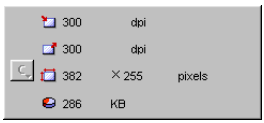
Hi-Res: Select this when a high-quality image is required. Note, however, that the file will be quadruple the size of a Medium-Res file. The input and output resolutions are set to [1200 dpi].



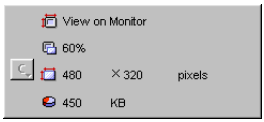
Medium-Res: Select this when you require the image quality to be somewhere between the Hi-Res and Low-Res quality. The file is quadruple the size of the Low-Res file. The input and output resolutions are set to [600 dpi].



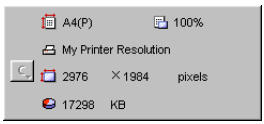
Low-Res: Select this when the image quality is not critical. The file is smaller than either the Hi- or Medium-Res files. The input and output resolutions are set to [300 dpi].



View on Monitor: Select this when you intend to view the scanned image on a monitor. The monitor setting is set to [My Monitor] and the display size is set to [60%].

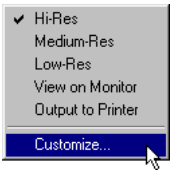


Output to Printer: Select this when you intend to print the image on a printer. The paper size is set to [A4 (P)], the display size is set to [100%] and the output target is set to the default resolution of the connected printer. If a printer is not connected, the output target is set to [Printer (300 dpi)].

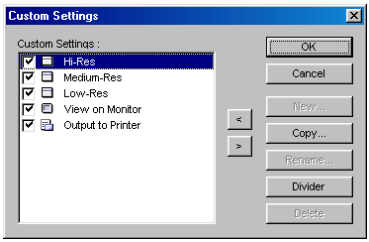


Customizing the Pull-Down Menu

You can customize the pull-down menu that is accessed when the custom mode has been clicked. You can make it easier to use by changing such things as the order in which items are displayed or by deleting items that are seldom used.

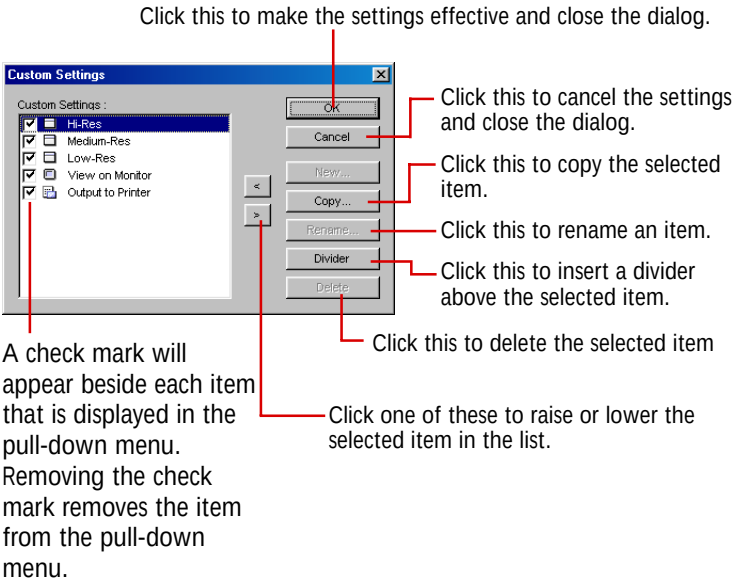


Click the [Custom Mode] button and select [Customize].



Custom Settings Dialog

Change the settings by clicking the buttons on the custom settings dialog.

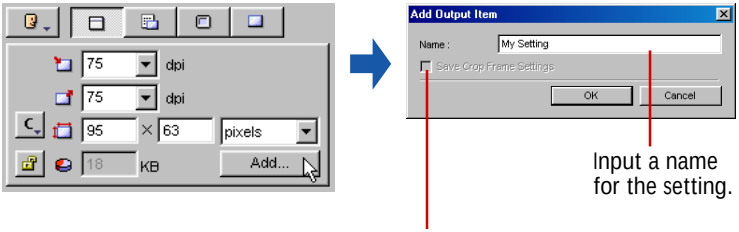


NOTE

- *The preset items cannot be deleted from the pull-down menu.*

Adding Scan Settings

You can assign a name and add well-used custom scan settings to any mode with the [Add] button.



Input a name for the setting.

Placing a check mark in this box and clicking the [OK] button causes the scan area selection frame and size and position data to be saved with the setting.

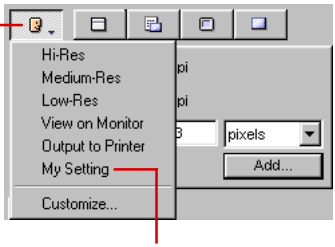
NOTE

- *You can add up to 64 custom scan settings.*
- *The [Save Crop Frame Settings] option is grayed out and disabled in the file and photo size modes.*

Selecting an Item that Has Been Added

The items you add will appear in the custom mode pull-down menu. Click the [Custom Mode] button and select the item to make it active.

Custom Mode Button



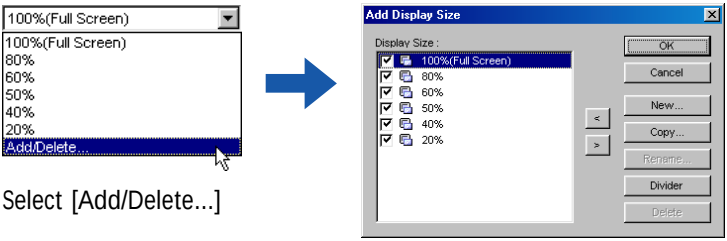
Preset Settings

Deleting Scan Settings

Select the [Customize] item from the custom mode pull-down menu to delete a custom scan setting. *See p. 59*, 'Customizing the Pull-Down Menu,' for more instructions.

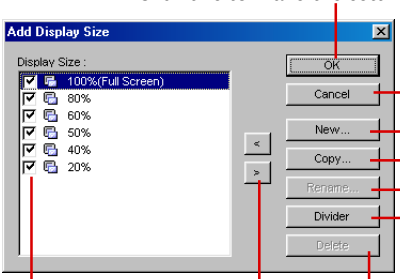
Adding and Deleting Items

You can customize the scan settings pull-down menu to make it easier to use. For example, you can add items, change the item order and delete items.



Select [Add/Delete...]

Custom Settings Dialog



Click this to make the settings effective and close the dialog.

Click this to cancel the settings and close the dialog.

Click this to add a new item.

Click this to copy the selected item.

Click this to rename an item.

Click this to insert a divider above the selected item.

Click this to delete the selected item.

A check mark will appear beside each item that is displayed in the pull-down menu. Removing the check mark removes the item from the pull-down menu.

Click one of these to raise or lower the selected item in the list.

WARNING

- *Preset items cannot be deleted from the pull-down menu.*

NOTE

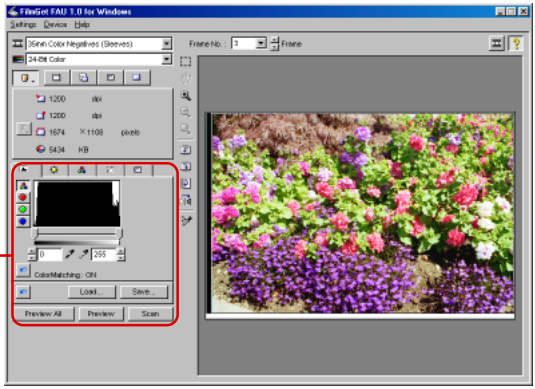
- *You can add up to 64 custom items.*
- *You cannot add or delete items to or from a pull-down menu that does not have a [Add and Delete] item.*

Adjusting Brightness and Coloring

You can adjust the brightness and coloring of the preview image to your satisfaction. These adjustments are performed on each frame individually.

NOTE

- *See page 67, 'Step 3 Adjusting Images,' for more information on adjusting the brightness and coloring.*



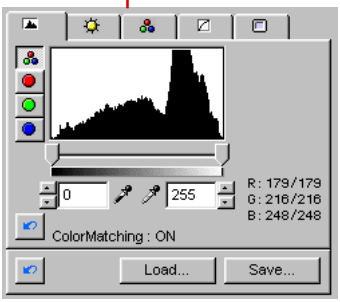


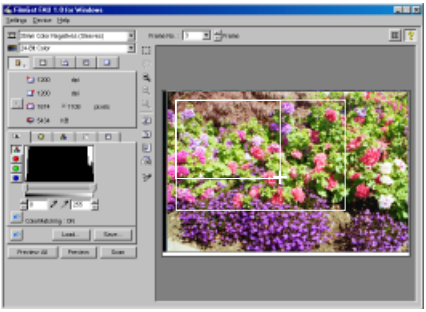
Image Adjustment Section

Selecting the Scan Area

Use the preview area to select the scan area for each frame individually.

Selecting the Scan Area

Click the selector tool on the toolbar and drag the mouse cursor (which will change into a '+' shape) across the preview image to select the scan area.



NOTE

- *You can drag the cursor in any direction.*
- *If you do not specify a scan area, the scan area selection frame displayed in the preview area becomes the scan area.*

Adjusting the Scan Area Selection Frame

- You can expand or shrink the scan area by positioning the mouse cursor over the selection frame until it changes in one of the ↔, ↕, ⤡ or ⤢ shapes and by dragging it.
- You can move the entire scan area selection frame by positioning the mouse cursor inside it. The cursor will change into the ✥ shape, allowing you to click and drag to shift the entire selection frame around the image.

NOTE

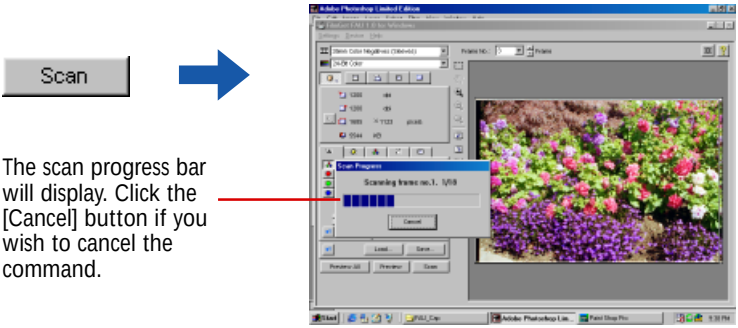
- *See page 49, Aspect Ratio of the Scan Area, for instructions on how to change the width-to-height proportions of the scan area selection frame.*

Adjusting the Selected Scan Area

You may change the scan area selection any number of times. You can also change the scan settings after you have selected the scan area. Moreover, you can freely change the selection settings or the preview image on which the settings are based. Try reselecting them until you achieve satisfactory results.

Final Scan

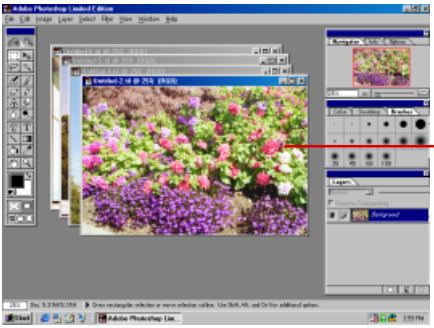
Initiate the final scan after you have set the scan settings for the preview images, adjusted the brightness and coloring, and selected a scan area. FilmGet FAU makes it possible to perform batch scans. If you have already selected the frames that you wish to scan, all you need do is click the Scan button.



WARNING

- *FilmGet FAU automatically calibrates itself and displays the 'Calibrating' message before it performs the final scan. This process is to teach the correct white balance to the scanner, which uses it as the registration color to correctly scan all the other colors. Do not open the Film Adapter Unit for any reason during this process.*
- *The scanner may take a few moments to respond to the [Cancel] button when it is clicked during the scan.*
- *The software may 'hang' or only the first image may be scanned if you attempt to scan batches of images from an application program that does not support batch scanning. Please check the specifications for your application program before attempting batch scanning. Adobe Photoshop 5.0 LE, which is shipped with the CanoScan FB1200S scanner, supports batch scanning.*

Click the ☒ at the top right (top left of the Macintosh version) of the window to close FilmGet FAU and display the scanned image(s) in the application program window.



NOTE

- *FilmGet FAU will automatically close when the 'Close FilmGet FAU after Acquire' option has been turned on in the [Preferences] item of the [Settings] menu.* *See p. 88.*

Scanning Shortcuts

You can select frame numbers from the preview all window without actually initiating the preview all scan. Then you can immediately preview the images or initiate the final scan. However, the auto exposure settings will not operate correctly if the film is not correctly positioned.

You can also shorten the time it takes to scan by manually setting the exposure setting. This may not, however, produce the right coloring.

STEP 3

Adjusting Images

This section explains

how to adjust

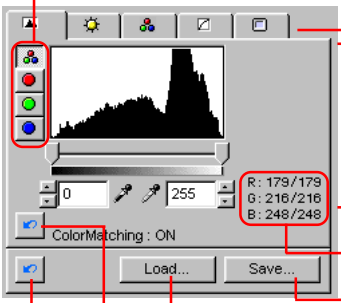
the brightness and coloring of

preview images.

Image Adjustment Modes

You can use the image adjustments to correct a preview image if it is not quite to your satisfaction.

Guide to the Image Adjustment Section



Channel Selection Panel

Adjustment Mode Tabs

Adjustment Settings Area
This is where the actual settings for each image adjustment mode are set and displayed.
Refer to the topics for each mode for an explanation of the settings.

RGB Values Display

Save Button

Load Button

Reset Button for the Tab

Reset All Button

WARNING

- *The image adjustment section is grayed out and cannot be adjusted when there is no image displayed in the preview area.*

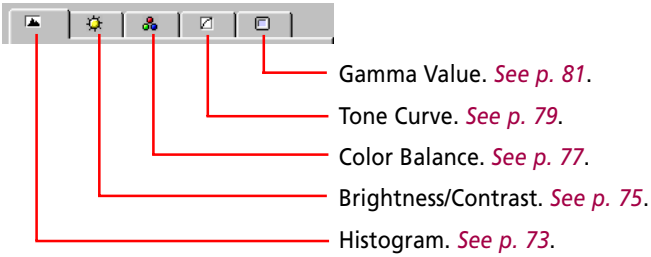
NOTE

- *Preview images are scanned as a collection of dots into FilmGet FAU. Each dot is assigned brightness and color values. You can correct the image by applying various adjustments to this data.*

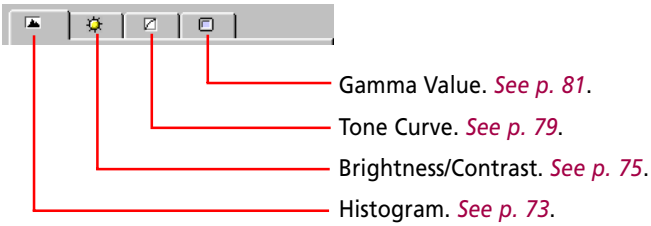
Adjustment Mode Types

The available adjustment modes vary with the image mode that has been selected. You can switch between adjustment modes by clicking on the respective tabs.

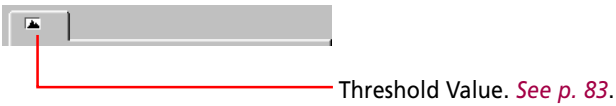
Color Image Mode (36-Bit and 24-Bit Color)



Grayscale Image Mode (12-Bit and 8-Bit Grayscale)



Black and White Image Mode

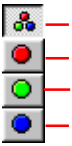


Procedures Common to all Image Adjustment Modes

This topic introduces the procedures that are common to all image adjustment modes.

Channel Selection Panel

The color of each dot comprising the scanned image is expressed as a mixture of varying proportions of red (R), green (G) and blue (B). The settings for each of these colors, which are referred to as channels, can be adjusted individually or together via the master channel.

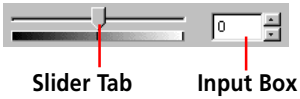


Master Channel: Adjusts or sets all three colors at once.
Red Channel: Adjusts or sets only the red elements of the image.
Green Channel: Adjusts or sets only the green elements of the image.
Blue Channel: Adjusts or sets only the blue elements of the image.

Channels are only displayed with the histogram and tone curve modes. Moreover, the channels cannot be selected when the image mode has been set to either of the grayscale modes since the red, green and blue channels are all displayed as gray.

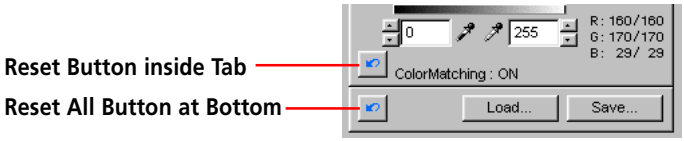
Sliders and Input Boxes

You can adjust or set a setting by dragging the slider tab left or right. The value in the input box will change accordingly. You may also input a value directly into the box. The slider will change accordingly.



Reset Buttons

There are two reset buttons: one inside each tab and one at the bottom of the dialog.



- **Reset Button inside Tab**
  This button resets all the settings in the particular tab to the default values. If the tab has channel settings, this button only resets the default values for the selected channel.
- **Reset All Button at Bottom**
  This button resets all the settings for all the adjustment modes to the default values.

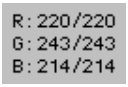
Click this button to load a settings file that has been previously saved.

You can save settings in a file for future reuse if you are going to rescan the same image. The files are saved with the following extensions depending upon the image mode.

36-Bit and 24-Bit Color [filename.adc]
12-Bit and 8-Bit Grayscale [filename.adg]
Black and White [filename.adb]

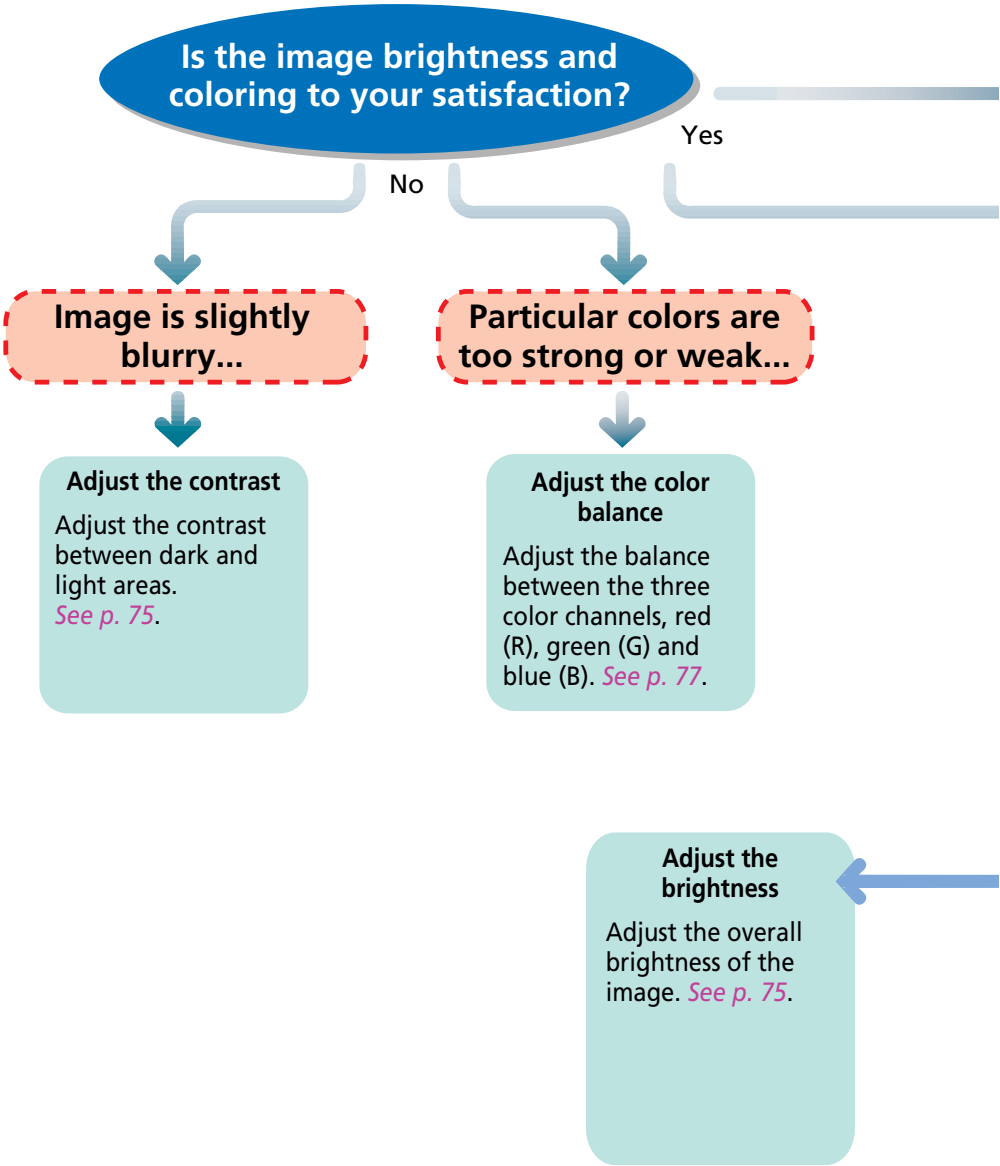
RGB Values Display

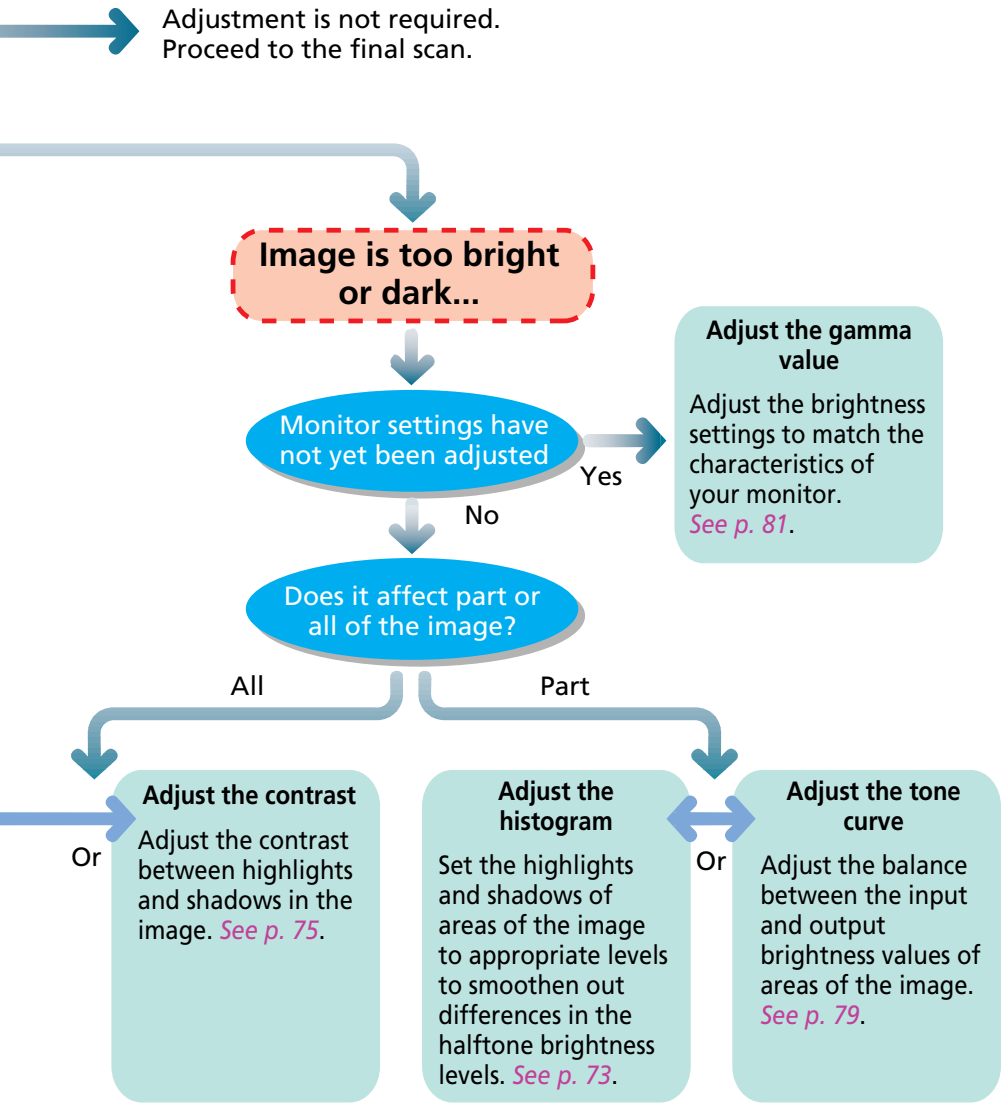
This display shows the color values for the area of the preview image under the mouse cursor. The values are displayed in the 'XXX/YYY' format, where 'XXX' represents the original color values and 'YYY' represents the adjusted color values.



How to Use Each Image Adjustment Mode

Refer to the chart below for an idea of how to use each image adjustment mode. See the page number referenced for each mode for more information on that particular mode.




Adjustment is not required.
Proceed to the final scan.
Image is too bright or dark...
Monitor settings have not yet been adjusted
Yes
Adjust the gamma value
Adjust the brightness settings to match the characteristics of your monitor.
See p. 81.
No
Does it affect part or all of the image?
All
Part
Or
Adjust the contrast
Adjust the contrast between highlights and shadows in the image. See p. 75.
Adjust the histogram
Set the highlights and shadows of areas of the image to appropriate levels to smoothen out differences in the halftone brightness levels. See p. 73.
Or
Adjust the tone curve
Adjust the balance between the input and output brightness values of areas of the image.
See p. 79.

Adjusting a Histogram

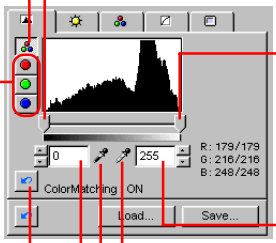
The histogram adjustment mode is available when the image mode is set to a color or grayscale setting. The histogram shows just how much data falls into each brightness level. Use this mode when you wish to specify the appropriate allocation of data between the brightest values (highlights) and the darkest values (shadows). You can specify cutoff values for highlights or shadows to create a better distribution of the halftones.

Guide to the Histogram Tab

Individual Channels
Click here to adjust each RGB channel separately (not available for grayscale images).

Master Channel
Click here to adjust all three RGB channels at once.

Shadows Slider Tab
Drag the slider tab left or right to adjust the cutoff level for the shadows. It can be set to any value from 0 to 254. All data to the left of the shadow cutoff is changed to a value of 0 (black).



Highlights Slider Tab
Drag the slider tab left or right to adjust the cutoff level for the highlights. It can be set to any value from 1 to 255. All data to the right of the shadow cutoff is changed to a value of 255 (white).

Input Box for Highlights
Input a value from 1 to 255 to set the cutoff level for highlights. You can also use the arrow keys to adjust the value.

White Point Eyedropper Tool
Click this tool to change the cursor to an eyedropper, then sample a point from the preview image to change all data brighter than the sampled value to 255 (white).

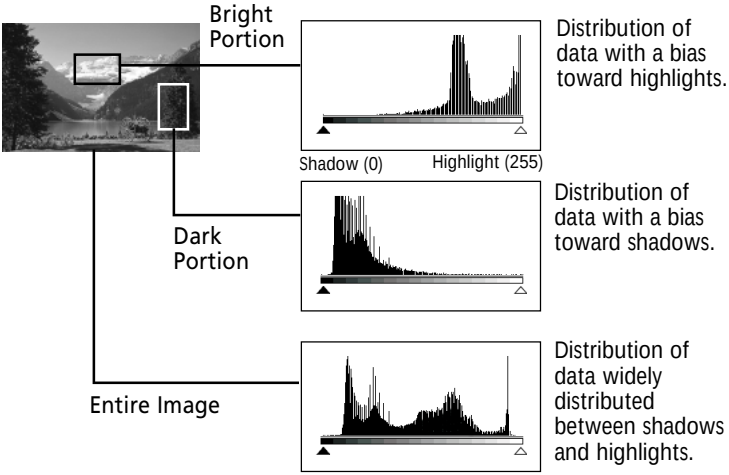
Black Point Eyedropper Tool
Click this tool to change the cursor to an eyedropper, then sample a point from the preview image to change all data darker than the sampled value to 0 (black).

Input Box for Shadows
Input a value from 0 to 254 to set the cutoff level for shadows. You can also use the arrow keys to adjust the value.

Reset Button
Click this button to reset the histogram for the selected channel to its default values.

Interpreting a Histogram

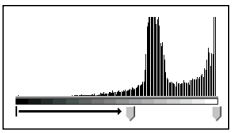
You can select the entire image or specify an area for which a histogram will be generated. The relative heights of the peaks in the histogram indicate the concentration of data with the corresponding brightness values.



How to Adjust a Histogram

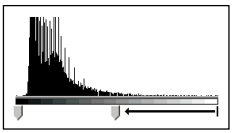
To change the contrast in an image, the distribution of data between shadows and highlights can be adjusted by dragging the shadows and highlights slider tabs left or right. All the data lying outside (left of) the shadows cutoff will change to 0 (black) and all the data lying outside (right of) the highlight cutoff will change to 255 (white). The examples below show adjustments to improve the contrast.

Image 1
Image with a bias toward highlights



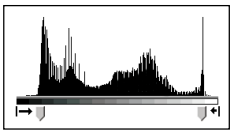
Move the shadows slider tab toward the highlights end.

Image 2
Image with a bias toward shadows



Move the highlights slider tab toward the shadows end.

Image 3
Image with well distributed data



Move both the shadows and highlights slider tabs inward.

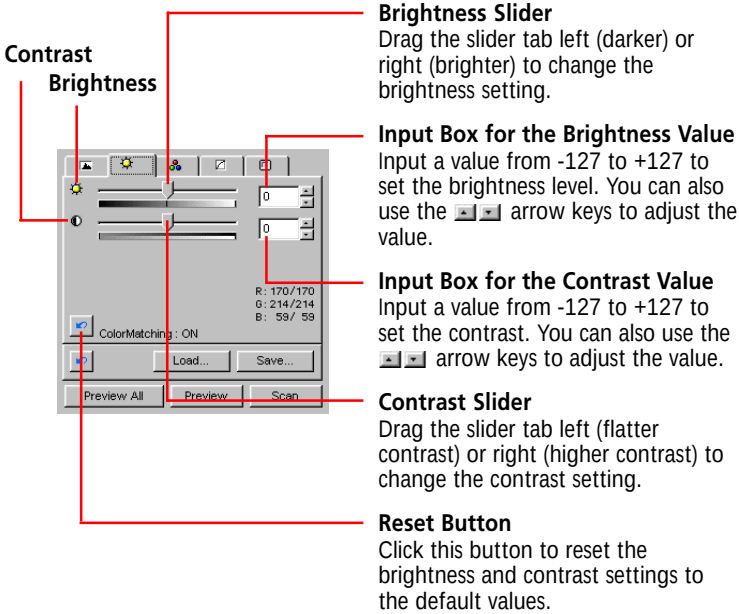
NOTE

- *Click the selector tool in the preview area to deselect the black or white point eyedropper tool.*

Adjusting Brightness/Contrast

The brightness/contrast adjustment mode is available when the image mode is set to a color or grayscale setting. Use this mode to adjust the overall brightness or contrast (difference between highlights and shadows) of an image. It is particularly useful when the original image is too bright or dark, or the contrast is too flat.

Guide to the Brightness/Contrast Tab



Adjusting the Brightness

Adjusting the brightness is effective when the entire image is too bright or dark. You must be careful, however, not to create excessive highlights or shadows by setting the value to extreme levels.

Brightness = Neutral **Brightness > Neutral** **Brightness < Neutral**

Adjusting the Contrast

Contrast is the degree of difference between light and dark areas. Raising the contrast accentuates the difference between light and dark. Lowering it reduces the difference between the two.

Contrast = Neutral **Contrast > Neutral** **Contrast < Neutral**

Raising the contrast of blurred pictures is effective in adding clarity to the image. Raising the contrast too high, however, will obscure the dark portions or create excessive highlights.

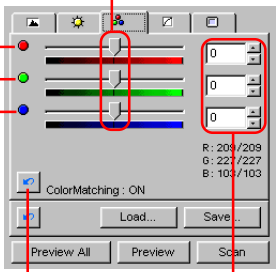
Adjusting the Color Balance

The color balance adjustment mode is available when the image mode is set to a color setting. Use this mode to adjust the balance between the three colors; red (R), green (G) and blue (B). It is especially useful when a particular color tone is too strong or weak.

Guide to the Color Balance Tab

RGB Sliders
Drag the slider tabs left (weaker) or right (stronger) to change the setting for each color.

Red (R)
Green (G)
Blue (B)



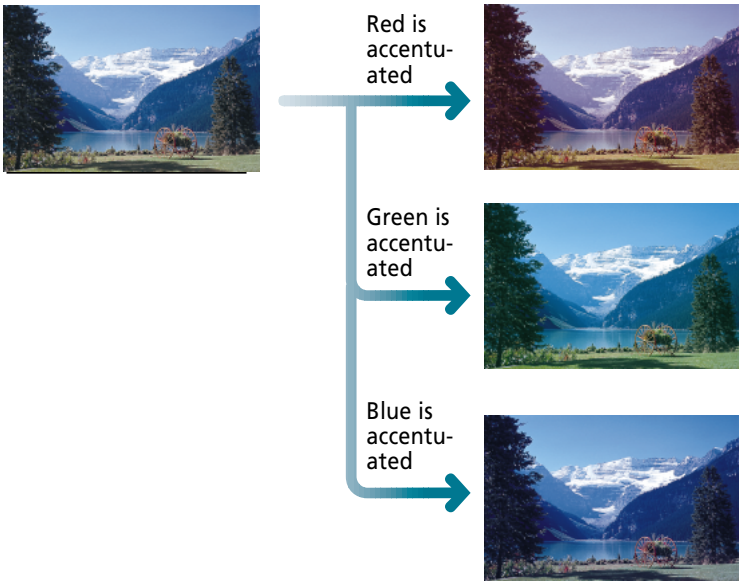
RGB Input Boxes
Input values from -127 to +127 to set the color levels. You can also use the arrow keys to adjust the values.

Reset Button
Click this button to reset the color balance to the default value.

NOTE

- *RGB is the acronym for the three primary colors; red, green and blue. These colors can be mixed in different combinations (gradients) to form all the colors in the visible light spectrum. You can use the color balance adjustment mode to adjust the level of each primary color in the image.*

Adjust each color separately



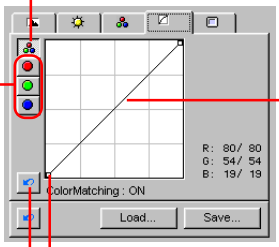
Adjusting the Tone Curve

The tone curve adjustment mode is available when the image mode is set to a color or grayscale setting. Use this mode to adjust the brightness of the image by changing the relative input and output values on the tone curve, which is a graphical representation of the highlights and shadows. It is especially useful for making fine adjustments to the brightness of specific areas of an image.

Guide to the Tone Curve Tab

Individual Channels
Click here to adjust each RGB channel separately (not available for grayscale images).

Master Channel
Click here to adjust all three RGB channels at once.



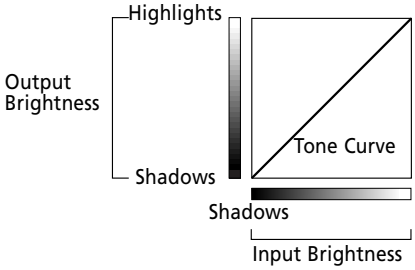
Tone Curve
Click anywhere along the tone curve to insert a control point, which can then be dragged to change the curve shape. You can insert more than one control point.

Control Point

Reset Button
Click this button to reset the tone curve for the selected channel to its default shape.

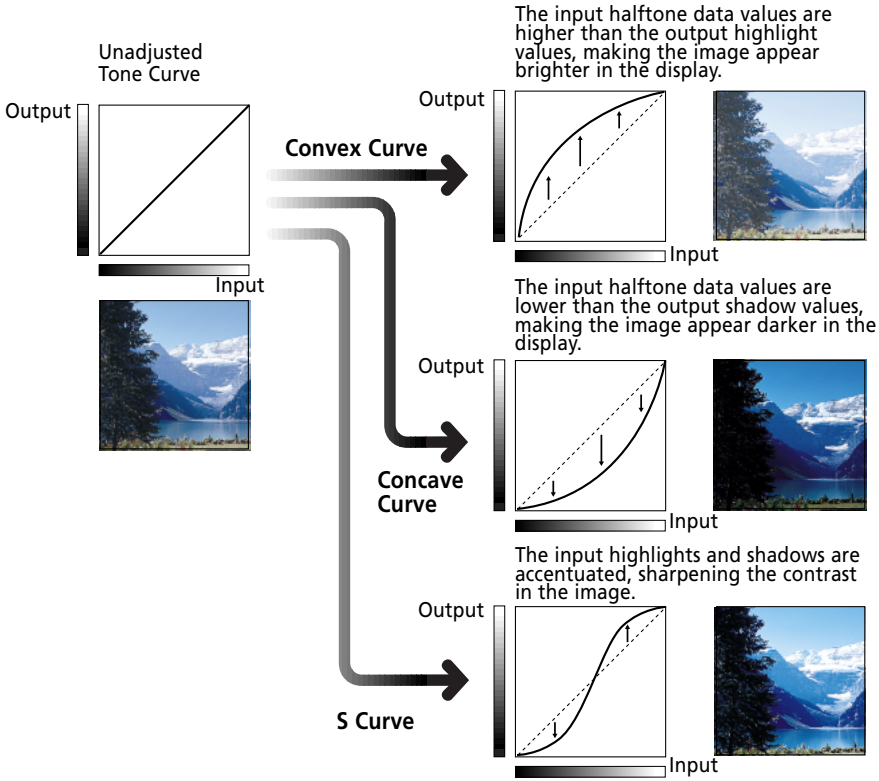
Interpreting Tone Curves

In FilmGet FAU, the input is the data scanned by the scanner and the output is the data displayed on the monitor. The tone curve shows the balance between highlights and shadows in the input and output.



Adjusting a Tone Curve

The images below demonstrate how to adjust the brightness of an image by changing the tone curve.

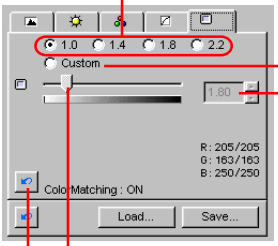


* Make the curve as smooth as possible to provide a natural appearance. You can check the preview image to see the effect of any changes.

Adjusting the Gamma Value

The gamma value adjustment mode is available when the image mode is set to a color or grayscale setting. Use this mode to set a gamma value that matches the particular characteristics of the monitor you are using. It is especially useful for matching the colors that display on your monitor to the colors on the original image.

Guide to the Gamma Value Tab



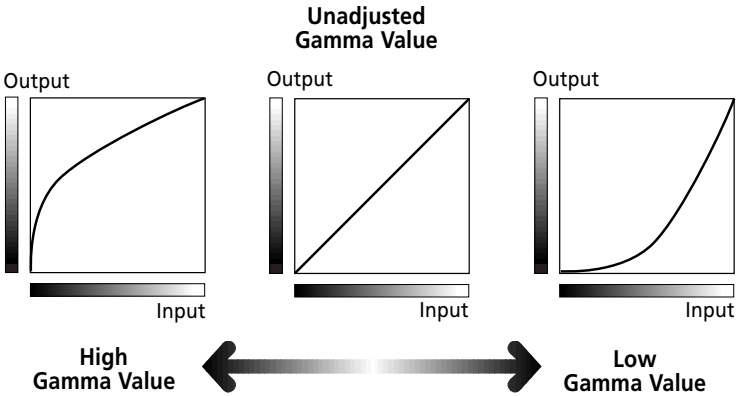
Preset Gamma Values
Click the radio button for any preset value to select it.

Custom Setting Button
Click the [Custom] button to set a custom gamma value with the slider or input box.

Gamma Value Input Box
Input a value from 0.10 to 10.00. You can also use the ▲▼ arrow keys to adjust the value.

Gamma Value Slider
Drag the slider tab left (lower) or right (higher) to change the gamma value.

Reset Button
Click this button to reset the gamma value to the default value.



Correcting the Gamma Value

Individual monitors reproduce colors in characteristic ways that are summarized by their 'gamma values.' The gamma values of most monitors fall within a range of 1.4 to 2.2, which reproduces colors slightly darker than the original. To faithfully reproduce the original colors, it is necessary to compensate for your monitor's gamma value with the FilmGet FAU setting. The program generally adjusts the monitor's gamma value to 1.8, but if your monitor does not operate at this value, you will need to adjust it.

The gamma value will automatically be set when a color matching system is active.

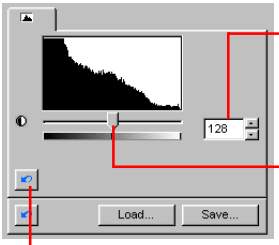
NOTE

- *The gamma value for the monitor is set automatically when the Use Color Matching option is set to on in the Preferences settings. Turn it on or off by clicking the [Settings] menu, selecting [Preferences] and clicking the [Use ColorMatching] option.*
- *Please read the documents shipped with your monitor or contact the manufacturer's customer service department to obtain the correct gamma value for your particular model.*

Adjusting the Threshold Value

The threshold value adjustment mode is available when the image mode is set to black and white. In contrast to color and grayscale images, which are expressed with brightness settings ranging from 0 to 255, all the halftones in black and white images are expressed as either black (0) or white (255). The point at which a particular dot is assigned a black or white value is called the threshold value. The default threshold value is 128.

Guide to the Threshold Value Tab



Threshold Value Input Box
Input a value from 0 to 255. You can also use the ▲▼ arrow keys to adjust the value.

Threshold Value Slider
Drag the slider tab left (lower) or right (higher) to change the threshold value.

Reset Button
Click this button to reset the threshold to the default value.

You can obtain different effects with an image by changing the threshold value as shown below. The threshold functions as a cutoff beyond which all data with lower values are changed to black and all data with higher values are changed to white. Accordingly, the higher the threshold, the darker the image, and conversely, the lower the threshold, the brighter the image.

Image scanned at the default threshold value

Image scanned at a higher value (slider moved to the right)

Image scanned at a lower value (slider moved to the left)

Other Functions

This section explains

the items displayed

on the pull-down menus accessed

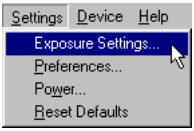
from the FilmGet FAU

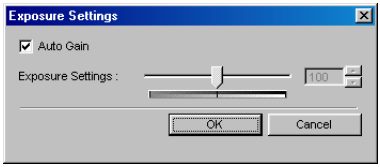
menu bar.

Settings Menu

Setting the Exposure

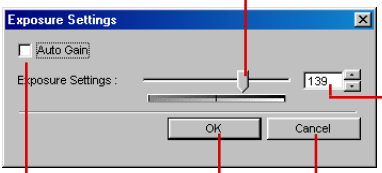
The scanning process involves passing light through the film. You can adjust an image's brightness by controlling the amount of light, which may also be called the exposure. You control the exposure by speeding up or slowing the rate of the scan.
At installation the exposure is set to auto gain by default. This is the setting you are recommended to use in most cases. If, however, a film is not reproducing well with this setting, you can adjust the exposure manually. You may also wish to use the manual setting if you are scanning a film that has been intentionally under- or overexposed, or that contains an image that is extremely bright or dark. The default exposure value is 100. .





Click the [Settings] menu and select [Exposure Settings]

Exposure Settings Dialog



Exposure Slider
Drag the slider tab left or right to change the exposure setting. For positive film, drag the slider tab right to increase the exposure or left to decrease it. The opposite applies to negative film.

Input Box
Input a value from 50 to 200. You can also use the ▲▼ arrow keys to adjust the value.

Cancel Button
Click here to reject the changes and close the dialog.

OK Button
Click here to accept the changes and close the dialog.

Auto Gain Check Box
Click here to add or remove the check mark. This option is on when the check mark is present.

An overexposed image appears very bright, while an underexposed image appears very dark.

Exposure = Neutral

Overexposed

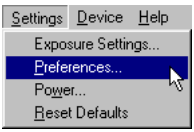
Underexposed

Setting the Preferences

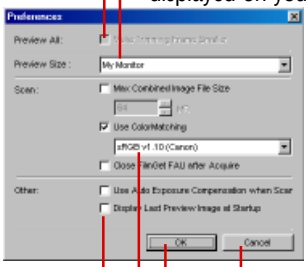
The preferences control how FilmGet FAU behaves when it scans and how it closes.

Preview All
Sets the trimming frames to the smaller sizes.

Preview Size
Sets the size at which preview images are displayed on your monitor.



Click the [Settings] menu and select [Preferences]



A check mark beside an item makes it active.

Color Matching Option
Activates a color matching.

Cancel Button
Click here to reject the changes and close the dialog.

OK Button
Click here to accept the changes and close the dialog.

Make Trimming Frame Smaller

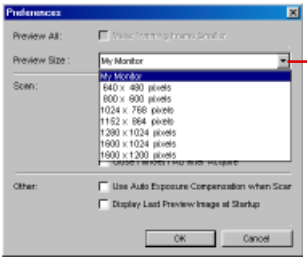
Sets the trimming frames to 90% the size of a film frame (both width and height).

WARNING

- *A trimming frame refers to the borders shown around film frames in the preview all window and should not be confused with the scan area selection frame used in the preview window.*

Preview Size

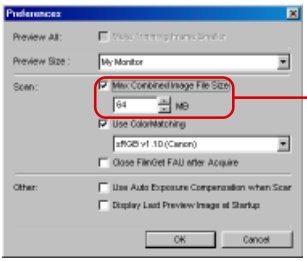
Set this option to the value corresponding to the size of your monitor. The size of the FilmGet FAU preview area will change according to this value.



Preview Size
Click here, select a size from the list and click the [OK] button.

Max Combined Image File Size

This option sets the maximum combined size of the files created when more than one image is scanned in a batch. A warning message displays if you attempt to scan images that exceed the specified maximum.

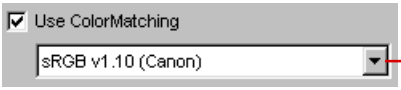


Max Combined Image File Size
Click here to insert a check mark, then input a value in the box. You can also use the ▲▼ arrow keys to adjust the value.

Use Color Matching

This option turns on a color matching system that automatically corrects characteristic differences in color output between scanners and monitors. With this option on, matching the original image colors to the colors on the monitor output is much easier. Turn this option off, however, if you wish to do the color correction with an application program such as Adobe Photoshop 5.0 LE. This option is on by default, but is only effective when the image mode is set to 24-bit color or 36-bit color.

Click the ▼ arrow button to select the monitor profile that matches your own. The default selection is [sRGB v1.10 (Canon)]. Change to another profile if the brightness or color balance are maladjusted in your image processing software or on your monitor.



Click the ▼ arrow button to display a pull-down menu with the selectable monitor profiles.

Close FilmGet FAU after Acquire

This option closes FilmGet FAU after the final scan. This option is off by default. Some application programs, however, will close FilmGet FAU after the final scan even when this option is set to off.

Use Auto Exposure Compensation when Scanning

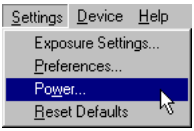
When the auto gain setting is on the exposure setting used to obtain the optimal color balance is automatically calculated during the preview scan. Under normal conditions, the exposure setting determined with the preview scan is automatically used without further adjustment to perform the final scan. However, you can have it meter the exposure setting each time a scan is performed by setting this option to on. Regardless of whether this setting is set to on or off, the exposure metering is performed when you proceed to the final scan without first conducting a preview scan. The default setting for this option is off.

Display Last Preview Image at Startup

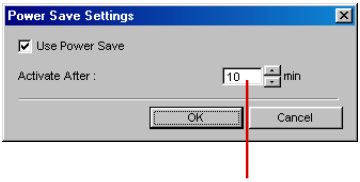
The preview all images and preview images for each frame are saved when FilmGet FAU is closed. With this option on, the preview all images and preview images are automatically displayed at startup. The default setting for this option is off.

Setting the Power Saving Features

The lamp unit of the Film Adapter Unit is always on when the unit is powered. The power saving function temporarily turns off the lamp to conserve energy when a scan is not initiated over a set period of time. This option is on by default and the activation period is set to 10 minutes.



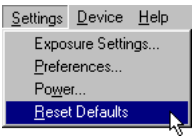
Click the [Settings] menu and select [Power...]



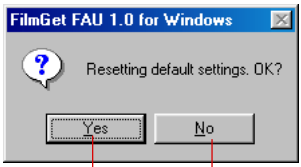
'Activate After' Input Box
Input a value from 10 to 59 minutes to shut the lamp off when the power save setting is activated. You can also use the arrow keys to adjust the value.

Restoring the Default Settings

You can restore all the default settings for the film type, image mode, scan settings, image adjustments and menu items by selecting this item from the settings menu.



Click the [Settings] menu and select [Reset Defaults]



Click here to reset the default settings and close the dialog.

Click here to cancel without resetting the defaults and close the dialog.

Default Settings

Item	Default Value
Film Type	35 mm Color Negatives (Sleeves)
Image Mode	24-Bit Color
Scan Area Size and Position	Same as Film Guide

Scan Settings

Custom Mode	Custom Settings	Hi-Res
File Mode	Input Resolution	75 dpi
	Output Resolution	75 dpi
	File Size Lock	Unlocked
Text/Printer/Fax Mode	Paper Size	A4(P)
	Display Size	50%
	Output Target	Text
Display Mode	Display	My Monitor
	Display Size	50%
Photo Size Mode	Photo Size	L
	Output Target	Text

Image Adjustments

Highlights	Master & RGB: 255
Shadows	Master & RGB: 0
Brightness	0
Contrast	0
Color Balance	RGB: 0
Tone Curve	Master & RGB: Linear
Gamma Value	Color Matching On: 1.0
	Color Matching Off: 1.8
Threshold Value	128

Settings Dialogs

Exposure Settings	On
Make Trimming Frame Smaller	Off
Preview Size	My Monitor
Max Combined Image File Size	Off
Use Color Matching	On
Use Color Matching	On
Monitor Profile	sRGB v1.10 (Canon)
Close FilmGet FAU after Acquire	Off
Use Auto Exposure Compensation when Scanning:	Off
Display Last Preview Image at Startup:	Off
Power Save Settings	10 min.

Device and Help Menus

Selecting a Scanner

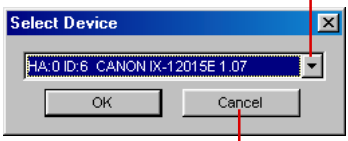
FilmGet FAU should be used with a Film Adapter Unit FAU-S10 option installed on a CanoScan FB1200S scanner. If you are using more than one scanner, use the following procedures to select the scanner.

WARNING

- *The connected scanner is automatically selected when FilmGet FAU is installed. Accordingly, you only need to use this procedure when you are switching back and forth between scanners or when you wish to confirm the name of the selected scanner.*

Click the ▼ arrow button to display the list of scanners (usually only the connected scanner). Select a scanner and click the [OK] button.

Click the [Device] menu and select [Select]

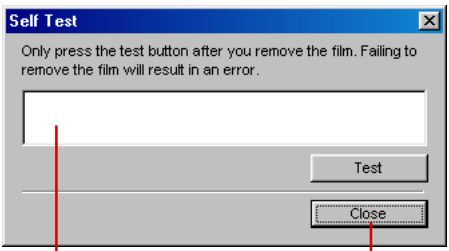


Click here to reject the setting and close the dialog.

Checking a Scanner

This item runs a test to confirm whether the scanner and Film Adapter Unit are operating correctly. Run the test if you suspect a malfunction when you are operating the scanner and Film Adapter Unit.

Click the [Device] menu and select [Self Test]



Click here if you wish to close the dialog without running the test.

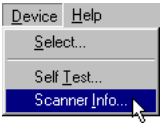
A message will display in the dialog if a problem is detected.

WARNING

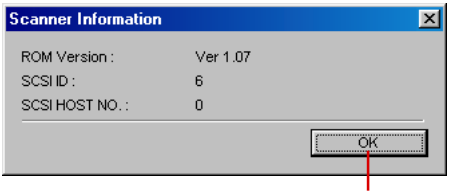
- *Never fail to remove all film, film guides and other objects off the scanner platen before conducting this test.*

Viewing the Device Version Information

You can view information about the Film Adapter Unit ROM version, SCSI ID and SCSI host number.



Click the [Device] menu and select [Scanner Info]

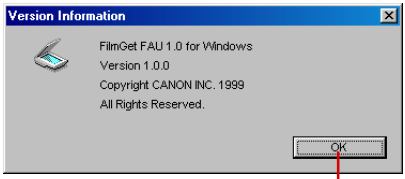


Click here to close the dialog.

Viewing the Software Version Information

You can view the version information for FilmGet FAU.

Click the [Help] menu and select [About FilmGet FAU]



Click here to close the dialog.

Appendices

The appendices contain troubleshooting tips for problems encountered when installing, starting or using FilmGet FAU.

They also include a glossary of terms and the index.

Read this section as the need arises.

Troubleshooting

Check the suggestions here first if you encounter problems installing or using FilmGet FAU. If the suggestions do not solve the problem or the problem is not listed here, contact the dealer or a Canon Customer Help Support Desk listed at the back of this guide.

NOTE

- *Before you contact your dealer or us, please ensure that you have first read the 'Readme' file included with the software as well as the Help file and the Getting Started included with the Film Adapter Unit.*
- *The service representative to whom you speak may request information about the computer to which the scanner and Film Adapter Unit is attached. You should note this information in advance in the System Information page included in the Getting Started for the scanner. Store this information where you can access it in case of a problem.*

Installation Problems

• *Installer program will not run*

Cause 1:	Insufficient system memory to run program
Solution 1:	Close other software programs that are running and reinstall. *See the Getting Started p. 17*.

• *Setup initialization error message displays*

Cause :	Insufficient free hard disk space on the specified drive
Solution 1:	Cancel the setup, delete or transfer unnecessary files from the hard disk and reinstall (Windows: delete unnecessary files from the drive in which Windows is installed). *See the Getting Started p. 17*.

• *'Setup is unable to find a hard disk location to store temporary files.' message displays (Windows)*

• *'Insufficient HDD free sizes' message displays (Macintosh)*

Cause:	Insufficient disk space on the specified installation disk
Solution 1:	Return to the window containing the install location setting, input the name of the install disk and reinstall (Macintosh). *See the Getting Started p. 17*.
Solution 2:	Cancel the installation, delete or transfer unnecessary files from the hard disk and reinstall (Windows: delete unnecessary files from the drive in which Windows is installed). *See the Getting Started p. 17*.

Software Starting Problems

• *Can't start FilmGet FAU from within an application program*

Cause 1:	Film Adapter Unit and scanner are not connected correctly or the cables are loose
Solution:	Connect the Film Adapter Unit and scanner correctly, ensure that both are plugged into electrical outlets and restart the computer. *See the Getting Started p. 13*.
Cause 2:	Insufficient system memory to start FilmGet FAU
Solution:	Shut down all application programs that are not required to run FilmGet FAU.
Cause 3:	FilmGet FAU installed incorrectly
Solution:	Delete FilmGet FAU and then reinstall it. *See pp. 18, 21*.
Cause 4:	Film Adapter Unit incorrectly selected in the application program (Windows)
Solution:	Make sure that the Film Adapter Unit is correctly selected in the application program. See the Getting Started, p. 23.
Cause 5:	Application program is not TWAIN_32 compliant (Windows)
Solution:	Start FilmGet FAU from an application program that is TWAIN_32 compliant.

Scanning Problems

• *Insufficient hard disk space message displays when preview all or preview scan is initiated*

Cause:	Insufficient free disk space on the hard disk drive to which the preview files are temporarily saved
Solution:	Since the preview all and preview images are temporarily saved to the hard disk drive on which FilmGet FAU is installed, delete unnecessary files from this drive to free up space.

• *Previewed image does not display in preview area*

Cause:	The image was previewed at the same time as others and is hidden
Solution:	Display the image by selecting the correct frame number. *See pp. 42, 43*.

• *Image is upside down or reversed*

Cause:	Film is oriented incorrectly in the film guide or on the scanner platen
Solution 1:	Reposition the film. See the Getting Started.
Solution 2:	Change the orientation of the image with the rotate or flip tools. *See p. 45*.

- ***A portion of the preview image is missing or a black border appears around it***

Cause:	Trimming frame is not correctly aligned over film
Solution:	Adjust the trimming frame position and size so that it is correctly aligned over the film. *See p. 39*.

- ***Coloring of preview image is peculiar***

Cause 1:	Trimming frame is misaligned in the preview all window
Solution:	Adjust the trimming frame position and size so that it is correctly aligned over the film. *See p. 39*.
Cause 2:	Film quality is poor or the film has faded
Solution 1:	Adjust the coloring with the auto correction tool. *See p. 45*.
Solution 2:	You can fix this problem to a certain degree with retouching software. See the manual accompanying your retouching software.
Cause 3:	Film type incorrectly set
Solution:	Reset the film type. *See p. 33*.
Cause 4:	Film not suited to automatic exposure correction with the Auto Gain setting
Solution:	Turn off the [Auto Gain] setting in the [Settings] menu, set the exposure manually and rescan. *See p. 85*.
Cause 5:	Coloring and brightness settings are incorrect
Solution:	Reset the image adjustment settings. *See p. 67*.

- ***Image scanned in black and white mode is too white or black***

Cause:	Threshold value is too high or low
Solution:	Reset the threshold to a lower or higher value. *See p. 83*.

- ***Scanning is taking a long time***

Cause:	Input resolution is set too high
Solution:	Lower the input resolution to the lowest appropriate setting and rescan. *See p. 50*.

- ***Several options are grayed out and unavailable***

Cause:	Many functions are not available until an image is previewed
Solution:	Initiate the preview scan of an image. *See p. 41*.

Scan area selection cannot be freely set in the preview area

Cause:	Aspect ratio is fixed
Solution:	Click the [Aspect Ratio] button in the scan settings section, select [Custom] and resize the scan area selection. *See p. 49*.

Preview window displayed at a small size on monitor

Cause:	Monitor is set to a high resolution in the system settings dialog
Solution 1:	Change the system settings to lower the monitor resolution. See your Windows or Macintosh manual.
Solution 2:	Increase the size of the FilmGet FAU window. *See p. 27*.
Solution 3:	Click the [Settings] menu, select [Preferences] and set the [Preview Size] option to [My Monitor] or to an appropriate monitor resolution. *See p. 88*.

Scanner self test results in an error message

Cause:	Scanner's scanning unit or the Film Adapter Unit's lamp unit has not returned to the home position
Solution:	Remove all film and other objects from the scanner platen, close the Film Adapter Unit, unplug its AC adapter, plug it back in and restart your computer. See the Getting Started.

Only one image is scanned in a batch scan

Cause:	Application program does not support batch scanning. See the application program manual
Solution:	Scan each frame individually.

Scanning Quality Problems

Scanning quality is poor

Cause 1:	Input resolution is set too low
Solution :	Raise the input resolution and rescan. *See p. 50*.
Cause 2:	Film Adapter Unit is floating above the scanner platen
Solution :	Close the Film Adapter Unit correctly. *See the Getting Started, p. 35*.
Cause 3:	Scanner platen or diffuser is dirty
Solution :	Clean them. *See the Getting Started, p. 46*.

Coloring is different between the scanned image and printed image

Cause 1:	Printer lacks sufficient toner
Solution :	Replenish the printer toner.
Cause 2:	Color matching system is not turned on
Solution :	Click the [Settings] menu, select [Preferences] and place a check in the [Use Color Matching] option or select an appropriate monitor profile. *See p. 88*.

Scan results are peculiar with the image mode set to 36-bit color or 12-bit grayscale

Cause:	Application program does not support 36-bit color or 12-bit grayscale image modes. See the application program manual.
Solution :	Scan using the 24-bit color or 12-bit grayscale image modes. *See p. 34*.

Glossary

Auto Correct Tool

An automatic function that adjusts the highlights and shadows of a preview image to optimal values.

Bits/Number of Bits

A 1-bit image can only be expressed in black and white. The threshold value determines which color, black or white, is used to represent a dot that carries a given brightness value. See 'Threshold.'
An 8-bit grayscale image can be expressed in black, white and 254 shades of gray.
A 12-bit grayscale image can be expressed in black, white and 4,094 shades of gray. The file is approximately double the size of an 8-bit grayscale file.
A 24-bit color image can be expressed in 16.7 million colors, which is achieved by combining 256 shades of red, green and blue (8 bits each) to each dot.
A 32-bit color image can be expressed in 6.7 billion colors, which is achieved by combining 4,096 shades of red, green and blue (12 bits each) to each dot. The file is approximately double the size of an 8-bit color file.

Black Point Eyedropper Tool

A tool for sampling a portion of an image adjusted with the histogram adjustment mode. All areas of the image that are darker than the point sampled are changed to black. See also 'White Point Eyedropper Tool."

Brightness

The relative brightness of an image or part of an image detected by the scanner when scanning.

Calibration

A scanner driver function that automatically sets the correct white color balance, which is used as the registration key for producing the other colors.

Color Balance

The balance between red, green and blue elements in an image. You adjust the color balance when a particular color is too strong or weak.

Color Matching

The gamut of colors scanned with a scanner occasionally varies from those reproduced on a particular monitor. Use of a color matching system ensures that the devices reproduce the colors the same way.

Contrast

The difference between the highlights and shadows in a scanned film. Raising the contrast has the effect of clarifying the image, while lowering it produces a somewhat blurry appearance.

dpi

The acronym for dots per inch. The resolution of monitors and printers is expressed as the number of dots displayed or printed in one horizontal inch. See also 'Dot' 'Pixel,' Optical Resolution' and 'Resolution.'

Dot

The basic element on which images are built. The density of dots in an image is referred to as the image's resolution, which is measured in dots per inch. See 'dpi.'

Gamma Value

A setting to match the brightness of inputs (the original film) to outputs (the image shown on a monitor or printed out).

Halftones (Mid-tones)

Shades of gray between the brightest (highlights) and darkest (shadows) portions of an image. Halftones in color and grayscale images can be adjusted with the gamma value adjustment mode.

Histogram

A graphical representation of the distribution of data bearing varying brightness values in an image. Brightness is expressed as a value ranging from 0 to 255. The histogram shows exactly how much of the sampled area is distributed between bright areas (highlights) and dark areas (shadows).

Image File

An image that has been expressed as a collection of dots that are assigned varying color and brightness values and that has been converted into a data format that can be read by a computer. The fundamental structure of an image file is a bitmap, the horizontal and vertical arrangement of the dot information, which is supplemented by other data in popular image formats, such as the TIFF, JPEG and BMP formats.

Image Mode

A mode that is selected to scan an image. The available options are 36-bit color, 24-bit color, 12-bit grayscale, 8-bit grayscale and black and white.

Optical Resolution

The resolution at which a scanner reads information from the object it scans. See also 'dpi' and 'Resolution.'

Pixel

The acronym for picture element. A pixel is the smallest unit forming an image displayed on a monitor.

Preview

A low resolution scan of a film image that is displayed in the preview area. The preview image is used to select the area of the image for the final scan (scan area) as well as adjust the brightness and coloring.

Preview Area

The right side of the FilmGet FAU main window, which is used to display preview images. Click the [Preview] button to initiate a preview scan of the objects on the scanner platen. The image displayed in the preview area has not yet been acquired by the application program from which FilmGet FAU was started.

Resolution

The density of the dots that comprise an image. The fineness or coarseness of an image is expressed as the number of dots per inch (dpi). See 'dpi.'

RGB

The acronym for the primary colors: red, green and blue. The scanner passes light through the film, which is then detected by red, green and blue sensors. Color printers, on the other hand, use the complementary colors to RGB, namely cyan, magenta, yellow and black (CYMK) to express colors.

Scanner Self Test

A function that tests the scanner and Film Adapter Unit for malfunctions. Start the scanner self test from the [Device] menu.

Selector Tool

The tool used to select a portion of an image for scanning. In the FilmGet FAU main window, the selector tool can be used to select a particular area of a preview image for rescanning as a preview image.

Slider

A device on many settings tabs for adjusting settings values. Drag the slider tab to adjust the value.

Threshold

The brightness value at which a dot or pixel is assigned a black or white color in an image scanned in black and white mode.

TWAIN

A worldwide standard for devices, such as scanners and digital cameras, that transmit data to computers. TWAIN is the acronym for Technology Without An Interested Name. It is a standardized application programming interface (API) for input devices, such as flatbed scanners. If both the input device and software comply with this standard, the two are compatible regardless of the manufacturer or model type.

White Point Eyedropper Tool

A tool for sampling a portion of an image adjusted with the histogram adjustment mode. All areas of the image that are lighter than the point sampled are changed to white. See also ‘Black Point Eyedropper Tool.”

Zoom In

The process of magnifying the preview all or preview window to see an image in greater detail. It is performed with the zoom in tool.

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Use of shielded cable is necessary to comply with the technical requirements of EMC Directive.

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