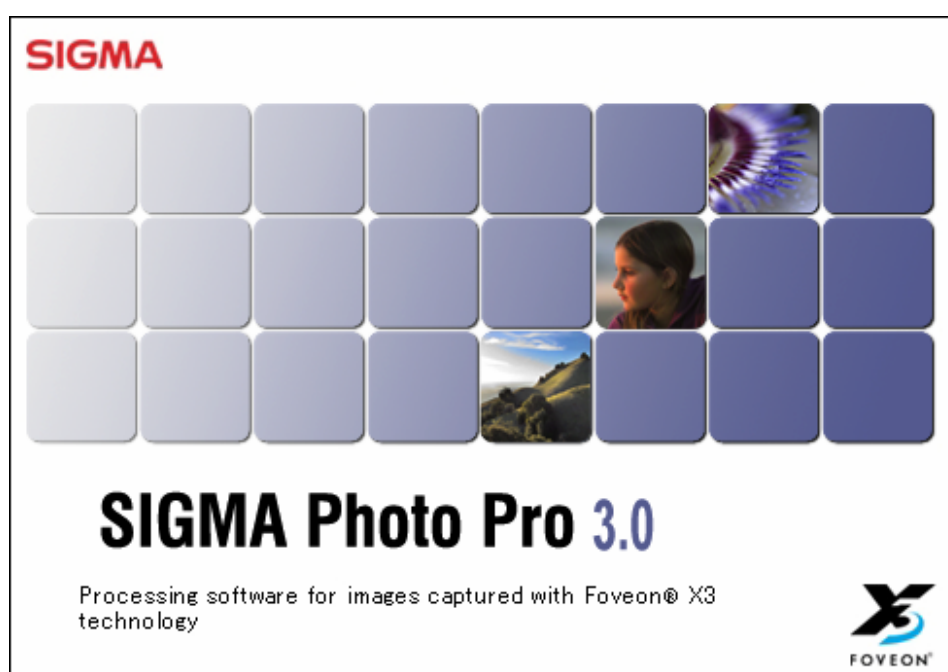


SIGMA Photo Pro User Guide



*Companion Processing Software
for SIGMA Digital Cameras*

Version 3.0

IMPORTANT: Please Read Before You Start

Thank you very much for purchasing this SIGMA product.

To receive maximum performance and enjoyment, and to not cause any injury or damage, please read this instruction manual carefully before using this product.

Notices

- Do not reproduce this manual in any form in whole or in part without prior permission.
- The contents of this manual may be changed without notice.
- Although we have made all possible efforts to produce a very accurate manual, if you find any mistakes, please contact our customer support. No liability can be accepted for any errors.
- The specifications of this product are subject to change without notice.
- SIGMA and its licensor do not accept any liability for any kind of results incurred as a result of software operation.

In order to avoid causing any damage or injury, please read the following very carefully before using this product.



Warning !!

Disregarding this warning sign when using the product can result in serious injury or other dangerous results.



Warning !!

Do not play the included CD-ROM(s) in an Audio CD-ROM player. Listening to the included CD-ROM with headphones on a music CD player can cause hearing loss. Playing the included CD-ROM on a music CD player could damage the speakers.

The images recorded with this camera are intended strictly for personal use and should never be used in a way that infringes upon or contravenes international or domestic copyright laws and regulations. In addition, although it is intended purely for personal use, some restrictions may be applied to the photographing of demonstrations, performances, shows, exhibitions, or commercial properties, etc. Copyright or other legal rights should not be contravened.

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1 INTRODUCTION

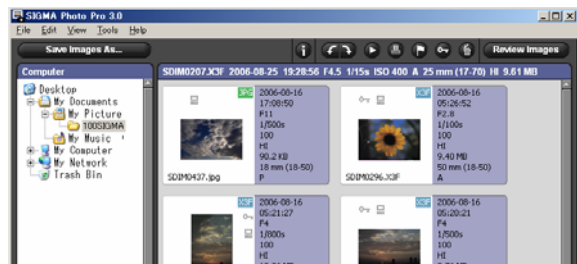
**In this section you
will learn...**

- The main features
of SIGMA Photo Pro
- How this manual
works

1.1 About SIGMA Photo Pro

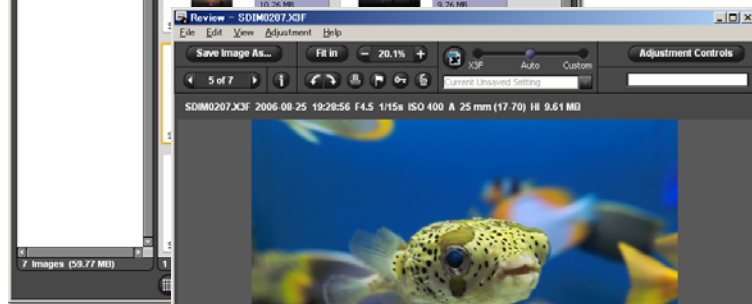
What you can do in SIGMA Photo Pro; A quick visual tour

Below are the windows and palettes found in SIGMA Photo Pro image processing software of the Sigma Digital Camera. Click on any window or palette to jump to a detailed view.



Main Window

- Copy images from camera to your computer
- Save groups of images to TIFF or JPEG
- Mark, lock, rotate, and delete images from camera or computer
- Print
- Slide Show
- Change file name



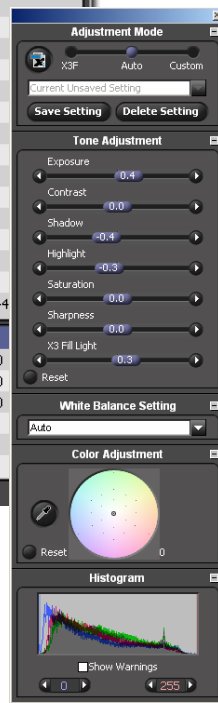
Review Window

- Choose adjustment mode
- Save images
- Magnify details
- View highlight and shadow warnings
- Mark, lock, rotate, and delete images
- Cycle through images displayed in the Main Window
- Activate Adjustment Controls
- Print
- Import Setting & Export Setting



Image Information Window

- View capture information
- View file information
- View processing information



Adjustment Mode Palette

- Adjust image Exposure Compensation, Contrast, Shadow, Highlight, Sharpness, Saturation and Fill Light
- Adjust color
- Load, save, and delete user-defined settings
- View histogram
- Set highlight and shadow warnings
- Adjust White Balance

Main Window elements

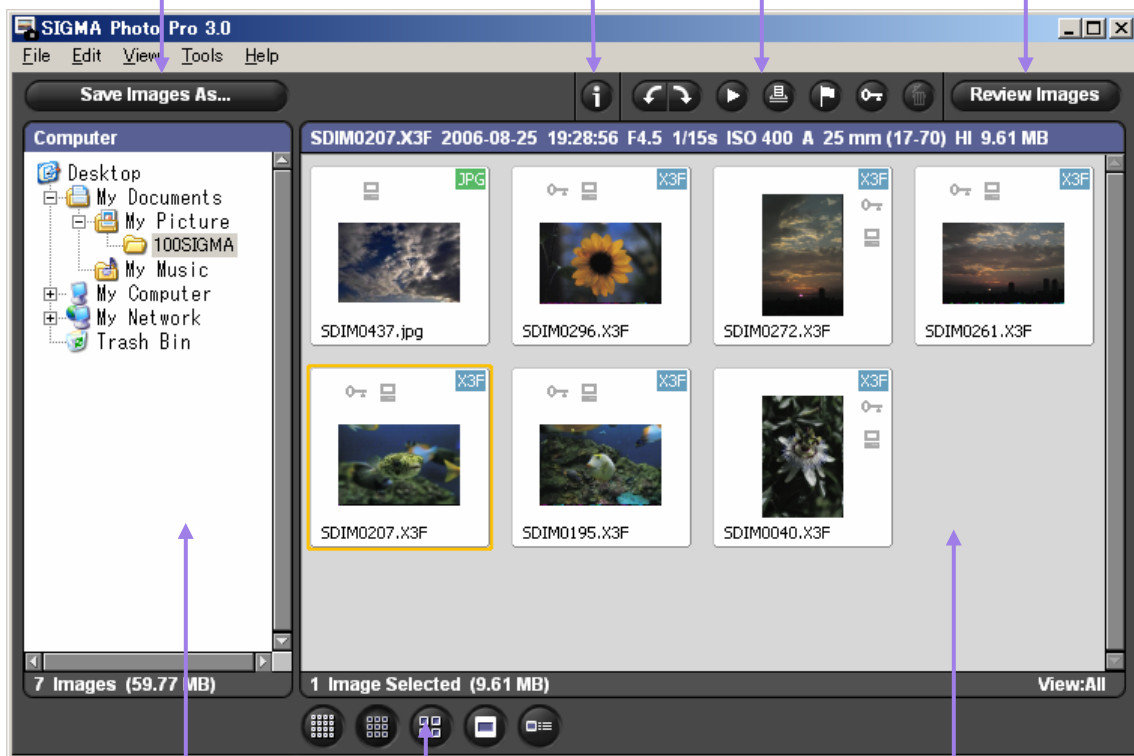
Below are the key elements found in the Main Window. Click on any link to take you to the section in the manual containing detailed descriptions.

Click on the [Save Images As](#) button
p. 28 to process and save X3F
images in TIFF or JPEG formats

Click on the [Review Images](#) button p. 21
to open a Review Window for viewing
and adjusting an image

Click on the [Info Button](#) p. 41 to open
the Image Information Window

Use [Edit Buttons](#) p. 18 to rotate, mark,
lock, or delete selected images



Use [Thumbnail Buttons](#) p. 16 to control the size
and style of the thumbnails

The [Computer Pane](#) p. 15 shows the drives and
folders on your computer. When the camera is
connected, it will be displayed here. Click on a drive
or folder in the Computer Pane to display images in a
folder

The [Thumbnail Pane](#) p. 14 displays
images from your camera or from a
selected folder on your computer

Note; If you connect SD9 or SD10 cameras to the computer, they will not be detected. Please use a CF card reader

Review Window elements

Below are the key elements found in the Review Window. Click on any link to take you to the section in the manual containing detailed descriptions.

Press the [Navigation Buttons](#) *p. 22* to move forward and backward through images

Press the [Save Image As](#) button *p. 29* to process and save the X3F image in TIFF or JPEG format

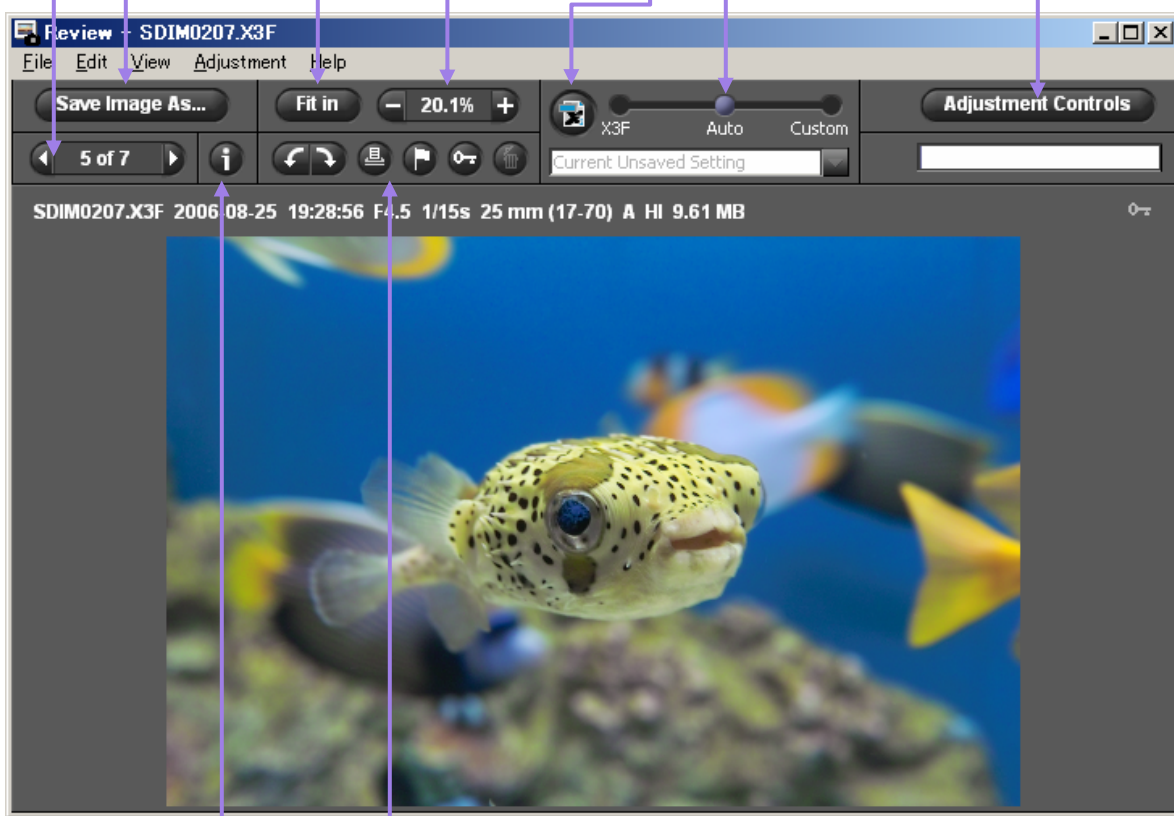
Press the [Fit in](#) button *p. 22* to resize the image to fit window

Press the [Magnification](#) button *p. 22* to increase or decrease image display size.

Press the [X3F Button](#) *p. 38* to update the X3F file with the current adjustment settings. In the case of JPEG and TIFF, it will overwrite.

[Adjustment Modes](#) *p. 23* allow you to view images with different adjustment settings

Press [Adjustment Controls](#) *p. 32* to open the Adjustment Controls Palette



Use [Edit Buttons](#) *p. 18* to rotate, print, mark, lock, or delete the currently displayed image

Click on the [Info Button](#) *p. 41* to open the Image Information Window

1.2 About this manual

This manual provides information on the installation and use of SIGMA Photo Pro, the companion processing software for your SIGMA digital camera.

Symbols and conventions

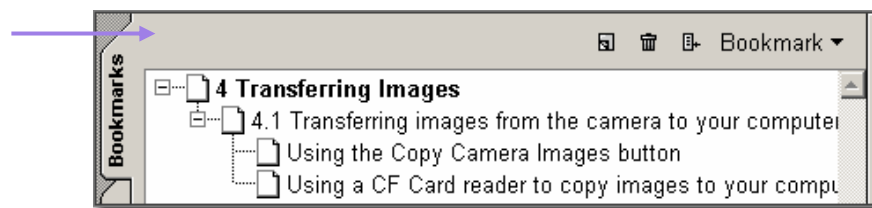
- Menu paths are denoted as follows:
Menu Header > Menu Choice
- Keyboard Equivalents are shown as follows:
Ctrl/ + Letter or Symbol
“Ctrl” is an abbreviation for the Control Key on a Windows system

Navigating the on-screen version of the manual

To view the SIGMA Photo Pro manual while working in SIGMA Photo Pro, select *Help > SIGMA Photo Pro Help* from any window menu.

The following features in the screen version of the PDF manual help you navigate and search quickly:

Use the Bookmarks feature to find main topics



Use the Search feature to find keywords

2 C O M P U T E R S E T - U P

**In this section you
will learn...**

- How to install
SIGMA Photo Pro
on your computer
- How to set up your
monitor

2.1 Installing the software

Windows system requirements

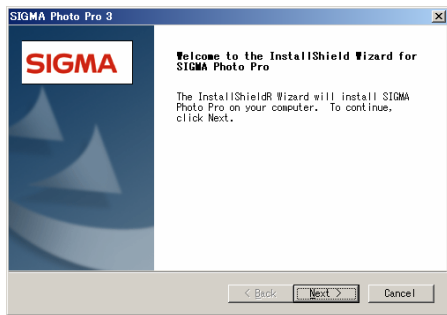
If you are using your SIGMA digital camera with a PC, the following minimum requirements are necessary to run SIGMA Photo Pro:

- Windows 2000, Windows XP, Windows Vista*
- Pentium III 750MHz
- 256MB or higher RAM (512MB recommended)
- 1GB of available hard disk space
- 16-bit display card (24-bit recommended)
- 800x600 monitor resolution (1024x768 recommended)
- USB connection (USB 2.0 recommended)
- CD-ROM or DVD-Rom drive

*Hardware requirements vary for Windows Vista operating system

Installing and uninstalling software

To install SIGMA Photo Pro on your computer, insert the installation disk that shipped with your SIGMA camera. Double-click on the CD icon on your desktop. Then double-click on the Set Up (Windows) to install the program.



The Welcome Screen should appear on your screen.

The wizard will take you through step-by-step instructions which will allow you to choose the language SIGMA Photo Pro displays on your computer, assign destination folders for the application, etc.

Note: You should close all other programs before running the installer. Reboot your computer once the program is installed to finish installation of drivers needed to recognize your camera.

To uninstall the software in Windows, choose the Uninstall option from the SIGMA section of the Start Menu, or through the Add/Remove Programs option in the Control Panel.

To reinstall or upgrade your software, first uninstall the program. After uninstalling, run the installer program to reinstall the program.

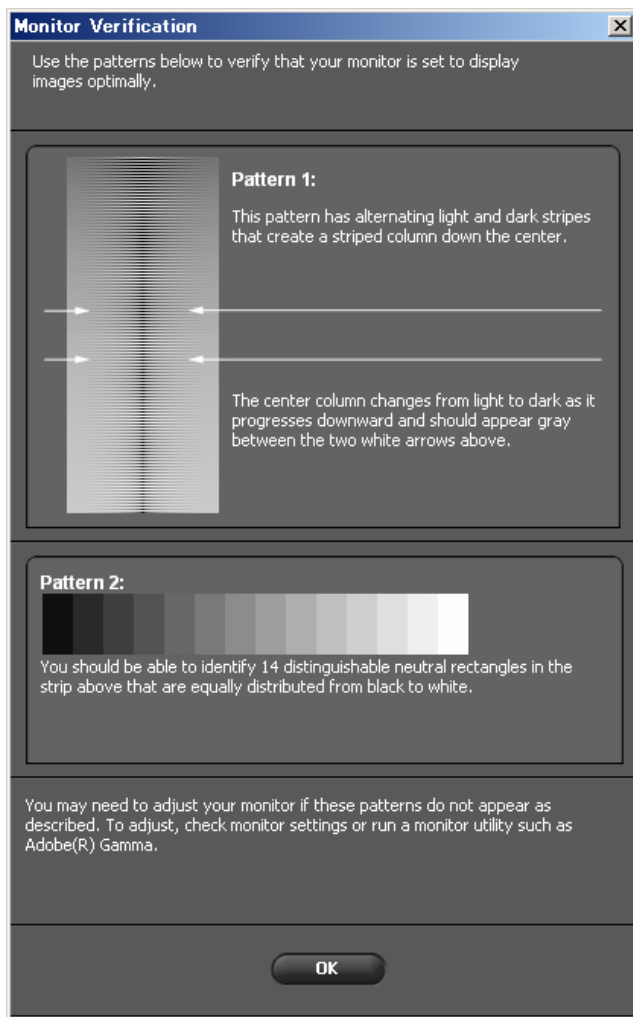
2.2 Setting up your monitor

Verifying monitor brightness, gamma, and color

You can then verify monitor output from within SIGMA Photo Pro by selecting *Tools > Monitor Verification...* from the Main Window.

The charts in this dialog box are for verification of color neutrality and gamma only. Use your monitor's adjustment controls as specified in the manufacturer's documentation to make any adjustments.

Making adjustments to your images on screen works best with a monitor that displays color consistently. Over time the characteristics of your monitor change, so check your monitor's performance periodically. Consult your monitor documentation and perform calibration adjustments as recommended by the manufacturer.



Using a pre-existing monitor profile

For information regarding monitor profiles, consult the documentation for your monitor, after-market profiling software, or operating system.

Choosing the best monitor resolution for your screen size

SIGMA Photo Pro is designed to fit on a monitor with a screen resolution of 800x600, however the viewable area for images and thumbnails is not maximized at this small screen size. A screen resolution of 1024x768 or greater offers the most flexibility for viewing and processing images. You can then resize the Main or Review Windows, resize the Thumbnail Pane within the Main Window, or move the windows anywhere on the desktop.

3 B E F O R E Y O U B E G I N

**In this section you
will learn...**

- How to connect
your camera to
your computer
- How to start up
SIGMA Photo Pro

3.1 Connecting the camera to your computer

It is possible to connect SD14 camera to your computer, when you use Sigma Photo Pro program.

Note: It is not possible to connect SD9 and SD10 cameras.

Connecting the cables

Before connecting the camera to your computer using the USB cable verify that the camera is turned off. Plug the cable into the computer and camera.

Turning on the camera

Turn the camera on as illustrated in your camera manual. SIGMA Photo Pro will not detect the camera unless it is turned on after being connected to the computer.

Connecting the camera

Once the SD14 camera is turned on and connected, SIGMA Photo Pro will auto-launch. SIGMA Photo Pro will detect the connected SD14 camera as a storage media. Any images on the camera's CF Card will be automatically displayed in the Thumbnail Pane. An empty Thumbnail Pane indicates no images were detected on the camera.

Note: SD9 and SD10 cameras will not be detected.

3.2 Launching the software

Opening and closing SIGMA Photo Pro



You can launch SIGMA Photo Pro without connecting a camera by double-clicking on the application icon on your desktop. The Main Window will appear and the last folder you worked in will be selected in the Computer Pane. Any X3F, JPEG, or TIFF images in this folder will be displayed. If this is the first time you are opening SIGMA Photo Pro, no folder will be selected.

To exit the application, click on the close box in the title bar of the Main Window, or select *File > Exit* from the Main Window Menu.

4 T R A N S F E R R I N G I M A G

**In this section you
will learn...**

- How to copy
images from your
camera to your
computer
- How to erase the
images from the
CF Card as you
copy

4.1 Transferring images from the camera to your computer

Transferring images from the camera to a folder on your computer assures that X3F or JPEG files will be saved for future use.

Note: It is not possible to save images to a read-only media like CD-ROM.

Connecting the SD14 to your computer.

Connect the SD14 camera with the supplied USB cable to your computer. Your computer will detect the camera as a storage device.

To transfer image files from the camera to your computer

1. Transferring the images to an already existing folder.

1. Double click on the drive or folder to select files of the Computer Pane, located on the left hand side of the Main Window.
2. Folders will be displayed beneath the selected drive or folder. Please select the folder or sub-folder that you wish to transfer the images.

If you wish to create a new folder within the existing folder or drive, please click right-mouse button and select new folder from the menu.

2. Open the SIGMA folder (from DCIM folder, created by the camera) and select the image file(s) to transfer.

1. Double click on the drive (Sigma SD14) displayed on the left hand side of the Main Window of the computer pane.
2. Click on the DCIM folder
3. Click on the SIGMA folder created in the DCIM folder.
4. Select the images that you wish to transfer to your computer from the Thumbnail Pane. If you wish to select all images, press *Ctrl + A* or click on "Select All" from the Edit menu.

3. Transferring the images by Drag & Copy or Copy & Paste.

1. Locate the "Mouse Pointer" on the selected images and click on the left mouse button to move them to the desired folder and release the left mouse button for moving the images.
2. You can also transfer the images by right clicking on the selected images. Select "copy" in the right click menu and then copy them to desired folder by selecting "paste" in the right click menu.

It is possible to copy the image files from CF-Card of the camera to your computer in accordance with above procedures.

Using a CF CARD Reader to copy images to your computer

If you have a CF card reader that can be displayed on your computer as a drive, SIGMA Photo Pro may also recognize the drive. You can use the CF Card reader to transfer images from the CF Card to your computer.

5 M A N A G I N G I M A G E S

**In this section you
will learn...**

- How to display,
view, and sort
images
- How to select and
move images
- How to rename
images
- How to mark, lock,
and rotate images
- How to delete
images

5.1 Main Window Overview

Main functions

Go to the Main Window to do the following:

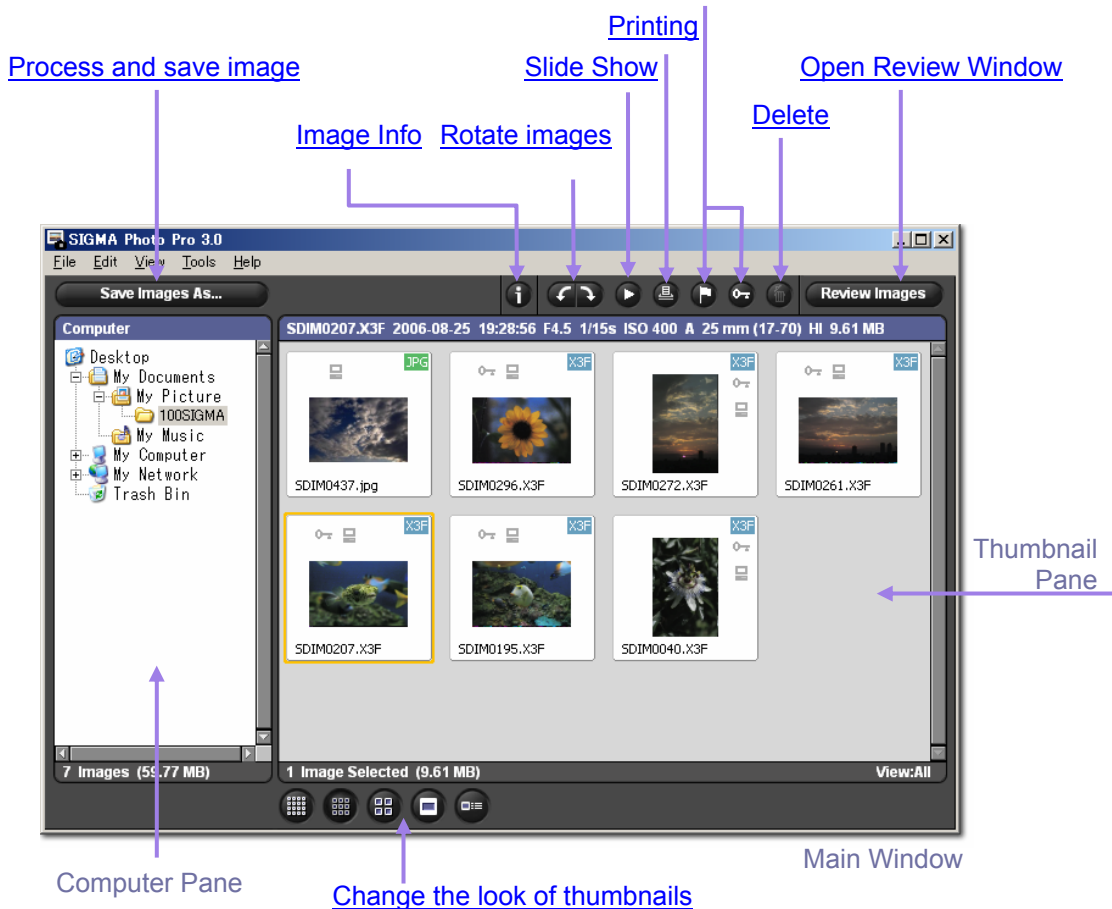
- Copy images from the camera to your computer
- View images as thumbnails
- Process and save groups of images
- Copy and move images to new folders
- Rotate, mark or lock images
- Rename or delete images
- Access the Image Information Window
- Open an image in a Review Window
- Print
- Slide Show

The Thumbnail Pane displays images directly from the camera when the Camera Pane is selected, or images from folders when the Computer Pane is selected. Note that the selected pane title will be highlighted in blue.

The Main Window is always open when working in SIGMA Photo Pro. Closing the window exits the program and closes any other open windows or palettes.

Links to more information

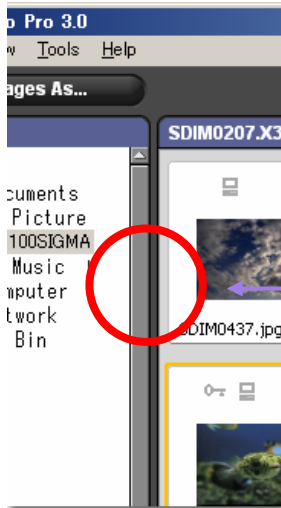
Click on any link below to view detailed descriptions of Main Window elements.



Changing the size of the Main Window

Use the buttons in the title bar to maximize, minimize, and restore the size of your Main Window. You can drag the tab in the lower right hand corner of the window to any desired size.

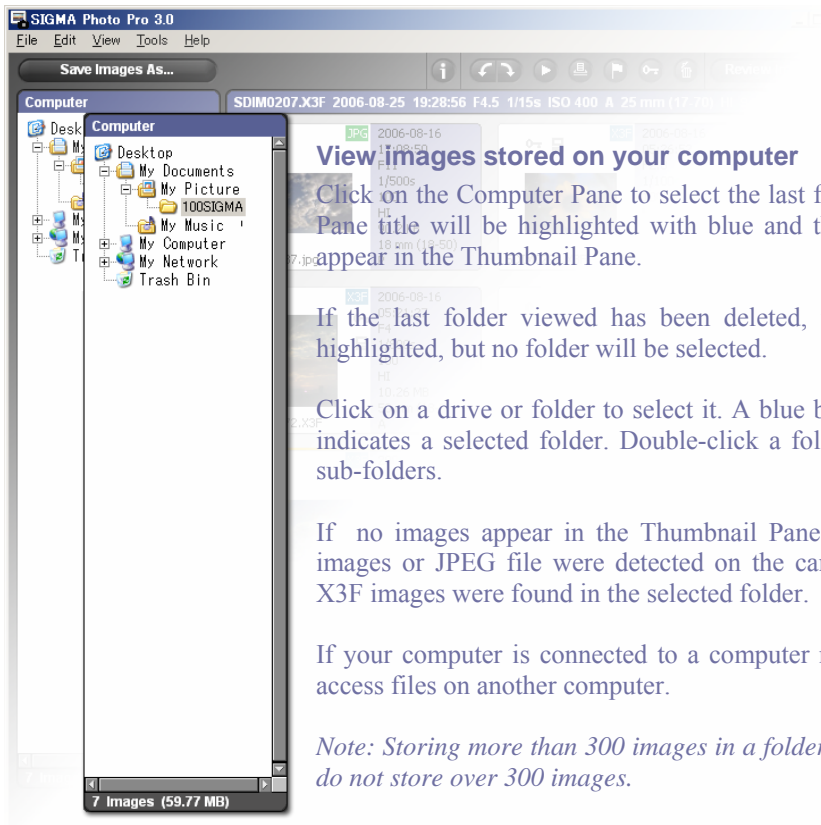
Changing the size of the Computer and Thumbnail Panes



To change the relative size of the Computer and Thumbnail Panes, click and drag the splitter-bar located between the two panes. SIGMA Photo Pro will remember the new size the next time you launch the application.

Drag the gray bar left or right to change the size of the Computer and Thumbnail Panes

5.2 Displaying images in the Main Window



View images stored on your computer

Click on the Computer Pane to select the last folder viewed. The Computer Pane title will be highlighted with blue and the images in the folder will appear in the Thumbnail Pane.

If the last folder viewed has been deleted, the Computer Pane will be highlighted, but no folder will be selected.

Click on a drive or folder to select it. A blue band and an open folder icon indicates a selected folder. Double-click a folder to open it and reveal its sub-folders.

If no images appear in the Thumbnail Pane, this indicates that no X3F images or JPEG file were detected on the camera, or no TIFF, JPEG, or X3F images were found in the selected folder.

If your computer is connected to a computer network, click “Network” to access files on another computer.

Note: Storing more than 300 images in a folder will cause an error. Please do not store over 300 images.

5.3 Different ways to view thumbnails

Changing the size and style of thumbnails



Click on the *Thumbnail* buttons at the bottom of the Main Window to view thumbnails with or without text, and at different sizes.



Mini thumbnails

Click on the button or select *View > Mini Thumbnails* in the Main Window menu.



Small thumbnails

Click on the button or select *View > Small Thumbnails* in the Main Window menu.



Medium thumbnails

Click on the button or select *View > Medium Thumbnails* in the Main Window menu.



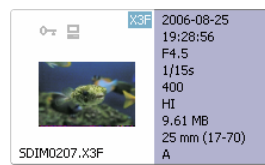
Large thumbnails

Click on the button or select *View > Large Thumbnails* in the Main Window menu.



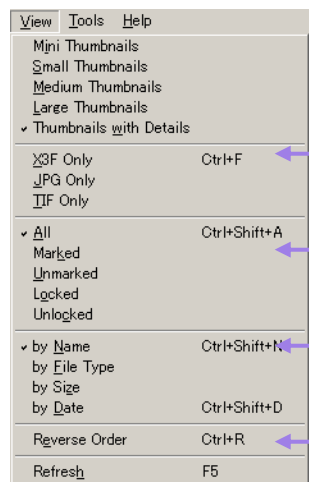
Small thumbnails with details

Click on the button or select *View > Thumbnails with Details* in the Main Window menu.



Sorting and filtering thumbnails

Sorting and filtering options for thumbnails are located under *View* in the Main Window menu. Use these selections or their keyboard equivalents to display specific groupings in the Thumbnail Pane.



View only X3F, JPEG or TIFF files in drive or folder

Choose to filter images that you have marked or locked

Order images in the Thumbnail Pane according to different attributes

Reverse the order in which the thumbnails appear or Refresh the Thumbnail Pane view

5.4 Renaming images

Renaming images

Right click over the thumbnail and select Rename from the menu to rename.

Batch renaming

The 'Batch Rename' dialog box allows all selected images in a folder to be renamed. Select images and click on the *File* in the Main Window and select Batch Rename. Enter a descriptive name, which will be used for all images in the *Rename* box followed by a number to *Start with #*. If a new file name already exists in the folder then an error message will be displayed.

Renaming images outside of SIGMA Photo Pro

Changing the filename format (SDIM#####) of an X3F file on a CF Card will make the file unreadable on the camera. Please only change the a filename after copying them to your computer.

On a PC, if you rename your files outside of the application, the file extension (.X3F) must be retained in order for the file to be recognized by SIGMA Photo Pro as the original. Processed files will have the file extensions .TIF and .JPG, and these also must remain unchanged.

Note: Do not change extensions when you change the file name. If the extension is changed, file is not identified properly by Sigma Photo Pro

5.5 Selecting images

Selecting one image

Click once on a thumbnail to select an image. Double-clicking selects and then displays the image in a Review Window. Selected images are highlighted in yellow.

Selecting multiple images

Use the following conventions to select and deselect thumbnails using your mouse:

- *Shift + click* on thumbnails for contiguous (range) selection
- *Ctrl + click* on thumbnails for non-contiguous (random) selection
- *Ctrl + A* to select all thumbnails
- *Click* in an empty space or *Ctrl+ D* to deselect all thumbnails
- *Ctrl+ Shift + I* to invert current selection of thumbnails

Edit	View	Tools	Help
Select <u>A</u> ll		Ctrl+A	
Select <u>M</u> arked		Ctrl+K	
Select <u>L</u> ocked		Ctrl+Alt+L	
Deselect <u>A</u> ll		Ctrl+D	
Invert <u>S</u> election		Ctrl+Shift+I	
<u>R</u> otate 90 CW		Ctrl+]	
<u>R</u> otate 90 CCW		Ctrl+[
<u>U</u> nmark		Ctrl+M	
<u>U</u> nlock		Ctrl+L	
<u>D</u> elete		Del	
<u>C</u> opy		Ctrl+C	
<u>P</u> aste		Ctrl+V	
<u>O</u> ut		Ctrl+X	

The following Main Window menu selections and keyboard shortcuts are also available to select and deselect thumbnails:

5.6 Marking, Locking, & Rotating images in Main and Review Windows



Rotating images



Use the *Rotate* buttons or rotate CW/CCW from Edit menu to change the vertical or horizontal orientation of thumbnails. Images rotated on the camera will remain rotated after transferring to your computer.

- Select images and click on the left *Rotate* button to rotate images to the left.
- Click on the right *Rotate* button to rotate images to the right.
- Only X3F, JPEG and TIFF images can be rotated.

Marking and unmarking images



Mark images when you want to identify groups of images for transferring, copying, processing, or moving. Images marked on the camera will remain marked after transferring to your computer.

- Select one or more images and click the *Mark* button or select Mark from Edit menu to mark.
- Select one or more marked images and click the *Mark* button or select Unmark from Edit menu to unmark.
- If a selected group has both marked and unmarked images, all images will be marked.
- If all selected images are marked, clicking the *Mark* button will unmark the images.
- Only X3F images can be marked.

Locking and unlocking images



Lock images to protect them from being accidentally deleted. Images locked on the camera will remain locked after transferring to your computer.

- Select one or more images and click the *Lock* button or select Lock from Edit menu to lock.
- Select one or more locked images and click the *Lock* button or select Unlock from Edit menu to unlock.
- If a selected group has both locked and unlocked images, all images will be locked.
- If all selected images are locked, clicking the *Lock* button will unlock the images.
- JPEG, TIFF, and X3F images can be locked.

Note: Read only media such as a CD-ROM will not be able to proceed the above action.

5.7 Deleting images in the Main or Review Window

Deleting images



- Select images and click on the *Delete* button, hit Delete on your keyboard or select Delete from Edit menu.
- The Delete dialog box will guide you through the deletion process.
- Locked images must be unlocked before they can be deleted.
- JPEG, TIFF, and X3F images can be deleted.
- Images can also be recovered from your computer's recycle bin or trash can.

Note: Read only media such as a CD-ROM will not be able to proceed the above action.

5.8 Printing images in the Main or Review Window

Printing images



Click on Print button or select *File>Print* from the menu. For further details please refer to section [10.1](#).

5.9 Slideshow in the Main Window

Slideshow in Main Window



Click on Slideshow button or select *File>Slideshow* from the menu. For further details please refer to section [10.2](#).

6 REVIEWING IMAGES

In this section you will learn...

- How to open a Review Window
- How to view different images in the Review Window
- How to view details using the Magnification
- How to check shadows and highlights with the warning mask
- How to use adjustment modes
- How to display multiple Review Windows
- How to update settings in X3F files

6.1 The Review Window



Opening a Review Window

You can display a Review Window on your desktop by double-clicking a thumbnail, or clicking on the *Review Image* button after selecting an image in the Main Window.

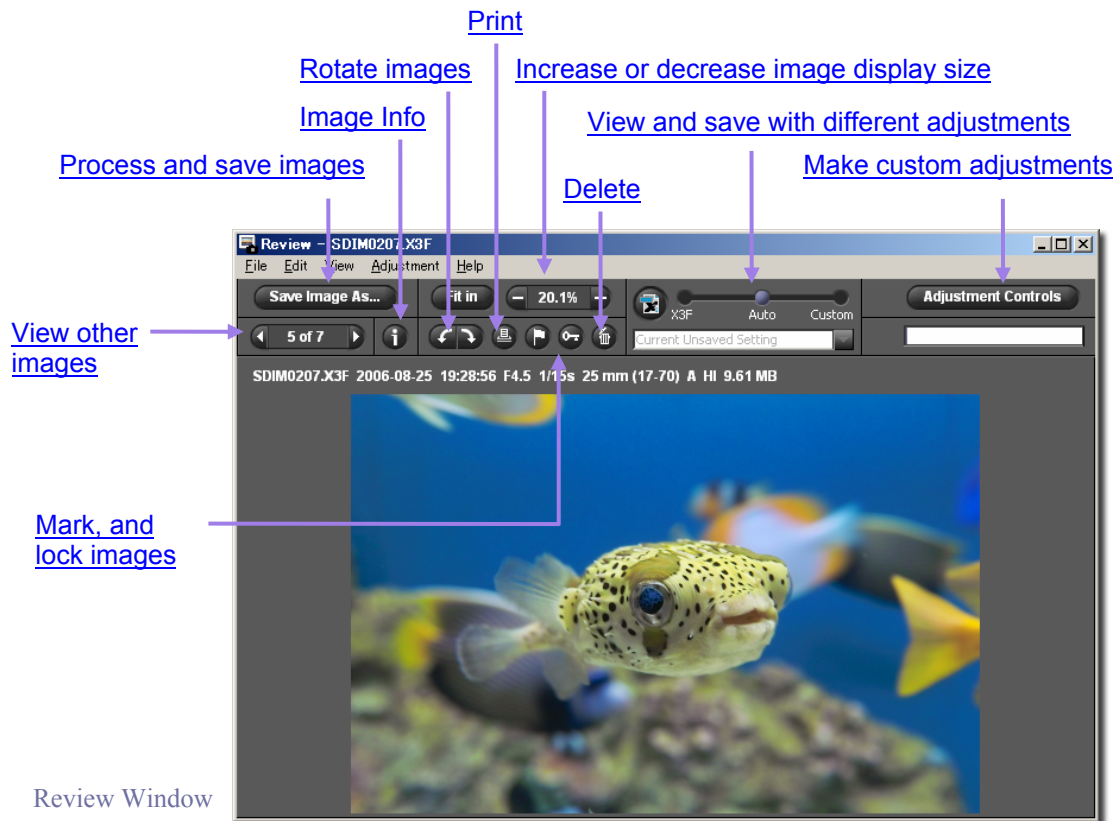
Main functions

Use the Review Window to do the following:

- View individual images at a larger size and higher resolution
- Process and save images individually
- Review images with different adjustment settings
- Access Adjustment Controls for custom processing
- Mark, lock, rotate, or delete images
- Navigate through other images on the camera or in a selected folder
- Access the Image Information Window

Links to more information

Click on any link below to view detailed descriptions of Review Window elements.



6.2 Navigating through a folder using the Review Window

Choosing which image is displayed in the Review Window

When you open a Review Window, the first currently selected thumbnail is displayed. Double clicking on any thumbnail or selecting a thumbnail and clicking the *Review Images* button replaces the image in the open Review Window.

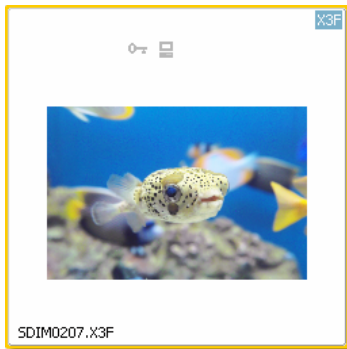
Using Navigation Buttons to select images



Click on the Review Window *Navigation* buttons to cycle through the other thumbnails displayed in the current Main Window. You can also select *View > Next image* or *Previous image* from the Review Window menu.

When the *Previous* button turns gray, it indicates you are viewing the first image in the folder. When the *Next* button turns gray, it indicates you are viewing the last image in the folder.

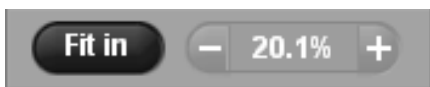
Whenever you switch folders in the Main Window, both *Navigation* buttons will be disabled until you replace the image in the Review Window with an image from the new folder.



Selecting specific images from the Main Window

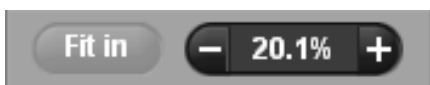
To view a specific image displayed in the Main Window, once you have already opened a Review Window, double-click on that thumbnail in the Main Window. The current image in the active Review Window will be replaced with the new image.

6.3 Using the Magnification



Fit in Button

Click on the Fit in button to fit the image size to the Review Window.



Changing the magnification

The magnification displays a magnified section of the image in the Review Window up to 1600%. To change magnification, click on the + or - buttons next to the *Magnification* button.

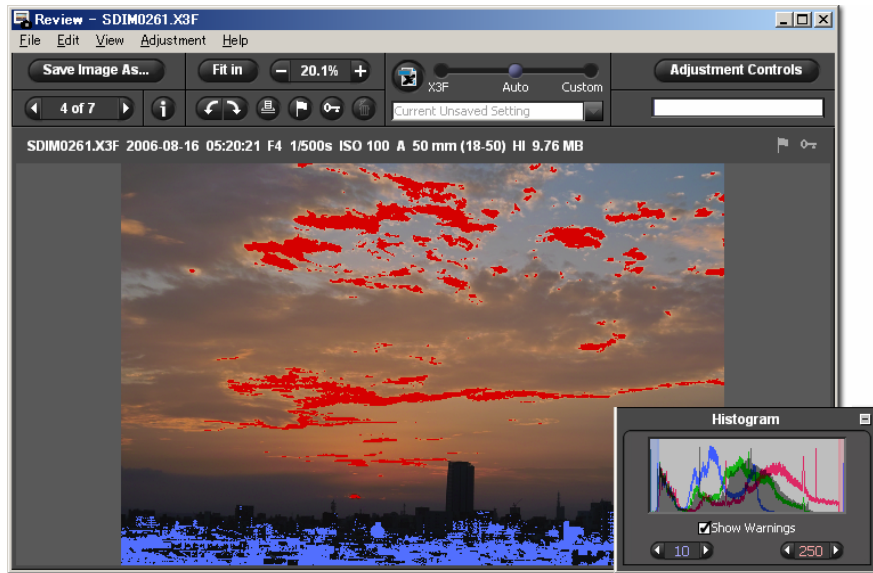
The Minimum magnification is 6.7%(1/15).

It is also possible to increase or decrease magnification by using + or - on your keyboard.

6.4 Viewing Images with Highlight and Shadow Warnings

Using masks to analyze highlights and shadows

Red represents highlight areas exceeding the value set in the Histogram located in the Adjustment Controls Palette, and blue represents shadow areas below the value set in the Adjustment Controls Palette. See Section [8.4](#) for more information about the Highlight and Shadow Warning Mask.



6.5 Using the Adjustment Mode Settings

Use the Adjustment Modes switch to control how image files are processed.

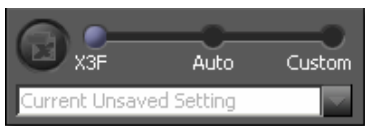


The indicator in the upper right corner of the Review Window animates while the image is processing. When the animation stops, the display will update to a higher resolution reflecting the current adjustment mode.

To select a different mode, drag the blue ball to another adjustment mode or click on the desired mode.

In the case of indicated images, files are X3F format.

X3F Mode: Reviewing images with default adjustments (to match in-camera preview)



With X3F selected, each image displayed in the Review Window first appears as it was rendered on your SIGMA digital camera, without further adjustment to tone, scale or color. You can later change the stored X3F settings if you wish to store your own adjustment settings in the X3F file, by clicking the X3F button.

X3F Mode remains selected until you choose another mode, or manually adjust a setting using Adjustment Controls.

Auto Mode: Reviewing images with automatic adjustments (dependent on image content)



With Auto selected, rendering settings are adjusted automatically for each image displayed.

Auto Mode remains selected until you choose another mode, or manually adjust a setting using Adjustment Controls.

To see what adjustments Auto is making, open the Adjustment Controls. Auto Mode sets these controls for each image automatically. If you want to further adjust the Auto settings, update any of the settings in the Adjustment Controls Palette. Notice that the Auto Mode is replaced with Custom.

Custom Mode: Reviewing images with a specific setting applied



With Custom selected, each image displayed in the Review Window will be rendered with the **custom setting** listed in the pop-down menu, or the current unsaved setting.

The current setting in Custom Mode remains selected until you select another setting from the pop-down menu, choose another mode, or manually adjust a setting using Adjustment Controls.

After selecting another mode, the last custom setting will remain in the pop-down menu. You can return to that setting by selecting Custom again.

Saving Current Unsaved Settings

When “Current Unsaved Setting” is displayed in the pop-down menu, the adjustment settings reflect whatever is currently displayed in Adjustment Controls.

“Current Unsaved Setting” will instantly appear in the pop-down menu any time you manually adjust an image using Adjustment Controls. Moving controls or sliders automatically changes the mode to Custom, and “Current Unsaved Setting” will appear in the pop-down menu.

Save Setting

You can save the setting as an application setting by clicking the Save Setting button in the Adjustment Mode section of the Adjustment Controls Palette. Saving a setting as an application setting allows you to apply the setting to any other X3F image displayed in Photo Pro.



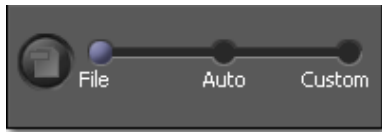
You can also save a setting within an X3F file if you wish to replace the original capture settings with settings you’ve created. To replace a stored X3F setting, click the X3F button in the Adjustment Mode section of the Review Window or Adjustment Controls Palette. You can also store new X3F settings when you save an image by checking the option in the Save dialog box as you create TIFFs and JPEGs. The checkmark box remains checked the next time you save an image.



When the X3F button is disabled, either the settings are in the process of being written to the file, or the saved X3F settings already reflect the same settings being applied to the image.

In the case of displayed images, files are JPEG or TIFF format.

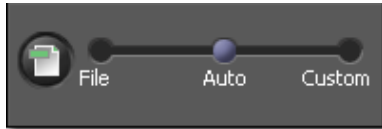
File Mode: Reviewing images without adjustment



With File selected, each image is displayed in the default adjustment.

The current setting in File Mode remains selected until you select another setting from the pop-down menu, choose another mode, or manually adjust a setting using Adjustment Controls.

Auto: Reviewing images with automatic adjustment

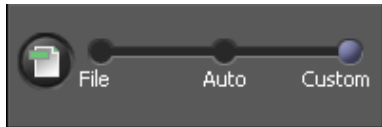


With Auto selected, rendering settings are adjusted automatically for each image displayed.

Auto Mode remains selected until you choose another mode, or manually adjust a setting using Adjustment Controls.

To see what adjustment Auto is making, open the Adjustment Controls. Auto Mode sets these controls for each image automatically. If you want to further adjust the Auto setting, update any of the settings in the Adjustment Controls Pallet. Note that the Auto Mode is replaced with Custom.

Custom Mode: Reviewing images with a specific setting applied



With Custom selected, each image displayed in the Review Window will be rendered with the custom setting listed in the pop-down menu, or the current unsaved setting.

The current setting in Custom Mode remains selected until you select another setting from the pop-down menu, choose another mode, or manually adjust a setting using Adjustment Controls.

After selecting another mode, the last custom setting will remain in the pop-down menu. You can return to that setting by selecting Custom again.

Note: JPEG or TIFF format are not available with X3F Fill Light.



You can also update adjusted images by Auto or Custom Mode. In the case of update images, please click File Button in the Adjustment Mode section of the Review Window or Adjustment Control Panel.



When File is selected (In the case of no Adjustment), File Button turns gray.

Note: It is not possible to “Save Settings” to JPEG and TIFF files. Please note these are rewriteable images.

6.6 Multiple Review Windows

Opening Multiple Review Windows

Having multiple Review Windows open lets you compare images or settings side-by-side. To display an additional Review Window, select *File > Open New Review Window* from the Main or Review Window menu.

Once multiple Review Windows are open, double-clicking on any thumbnail in the Main Window will open the image in the topmost Review Window.

Note: Each Review Window requires additional computer memory, so the program may run more slowly with multiple windows open. To optimize program performance, close Review Windows when not in use.

Using multiple Review Windows to compare images

Displaying similar images in several Review Windows side-by-side allows you to compare details such as composition, facial expressions, or focus before deciding which image you want to save.

Using multiple Review Windows to compare modes

Each Review Window retains its Adjustment Mode; any image displayed in the same Review Window will be processed using the retained Adjustment Mode. Displaying the same image in two different Review Windows side-by-side allows you to compare different modes.

7 PROCESSING & SAVING

In this section you will learn...

- How to process and save images
- How to choose resolution, file type, and color space for your proc

7.1 Main Window Processing

Processing groups of images simultaneously



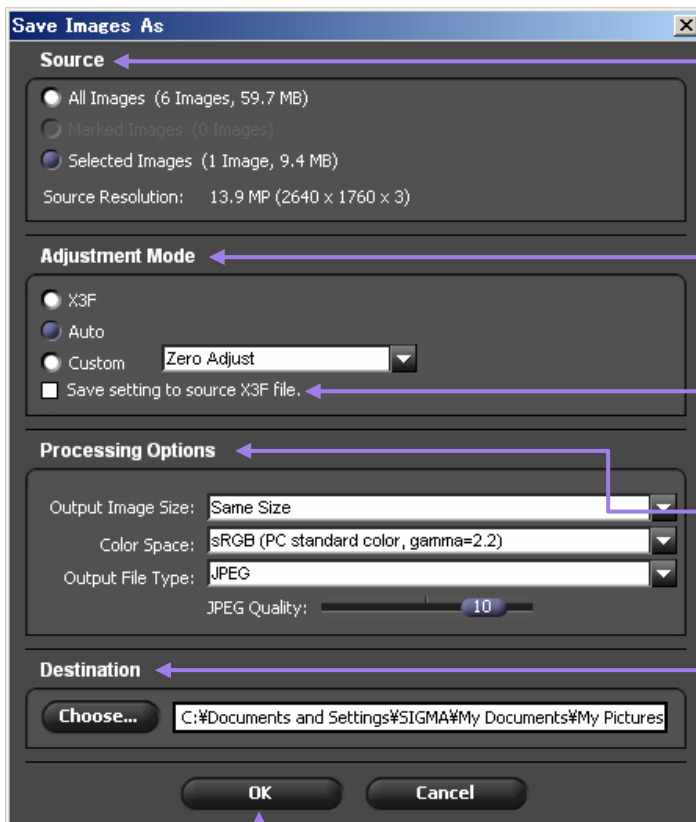
Save Images As...

Processing groups of images in batches is a great way to quickly process X3F files which do not require individual attention. You will not be able to individually name the files, and all files must be processed using the same settings. However, if you select the Auto Adjustment Setting, SIGMA Photo Pro will optimize each image during processing.

To process a batch of images:

- 1) Select the folder containing the X3F images you wish to process.
- 2) You can process the entire folder, selected images, or marked images.
- 3) Select or mark specific thumbnails if desired.
- 4) Click on the *Save Images As* button.

The following dialog box appears:



Source:

The original capture resolution and filename are recorded here.

Adjustment Mode

Choose [Adjustment Mode](#) for image proceeding.

Check option if you wish to update stored adjustment settings in the X3F file.

Processing Options:

Choose [Output file type](#)
[Resolution](#)
[Color Space](#)

Destination:

Click *Choose* to select a place on your computer to store the processed images.

Click *OK* to begin processing or *Cancel* to return to the Main Window.

Note: Above proceeding can not be used with JPEG and TIFF.

7.2 Review Window Processing

Processing individual images

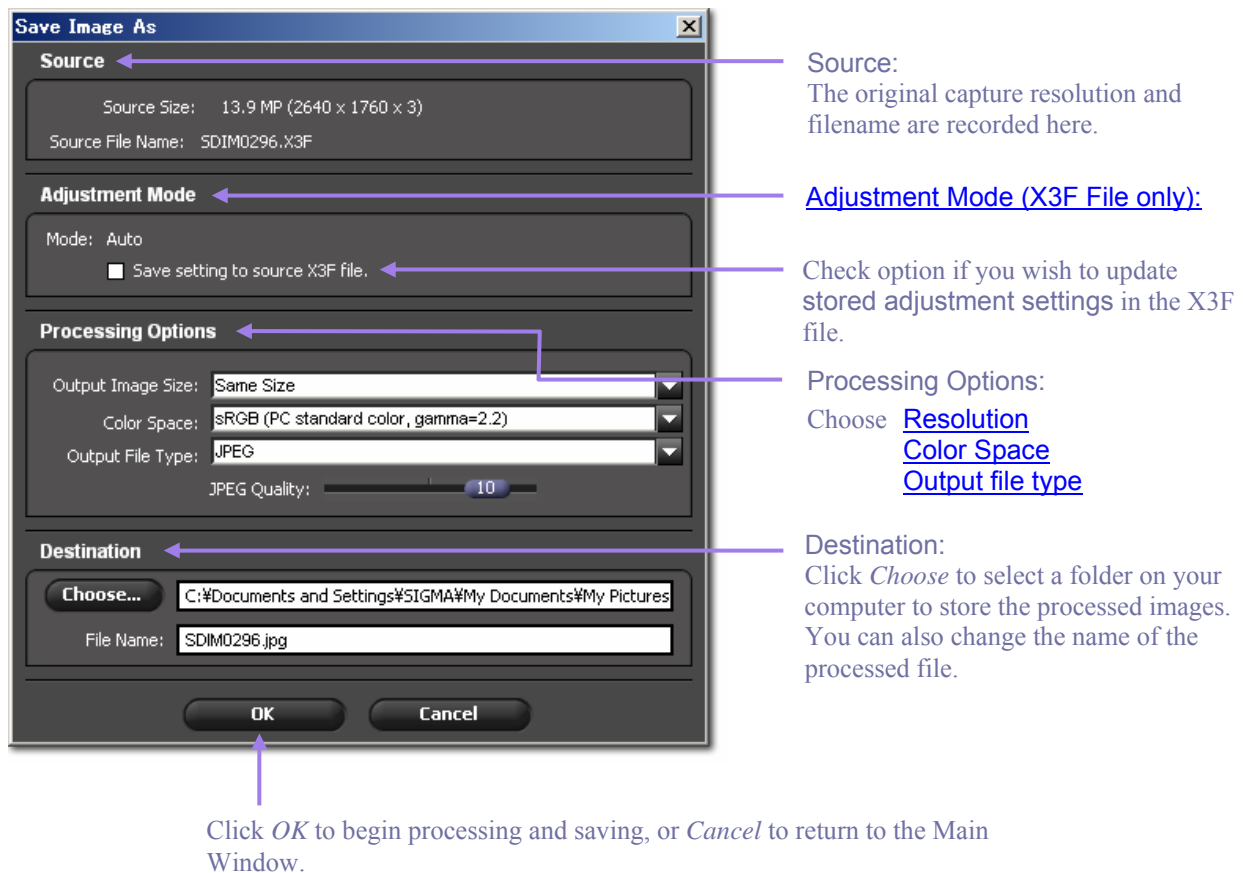
Processing an individual image from the Review Window is similar to processing from the Main Window, with the following added benefits:

- Most of the processing is already done while you are viewing an image, so saving is quick
- You can rename the processed file as it is saved
- You can adjust settings using the Adjustment Controls Palette
- You can review the image in more detail prior to choosing settings

Save Image As...

Once you have chosen the image to process, press the *Save Image As* button.

The following dialog box appears:



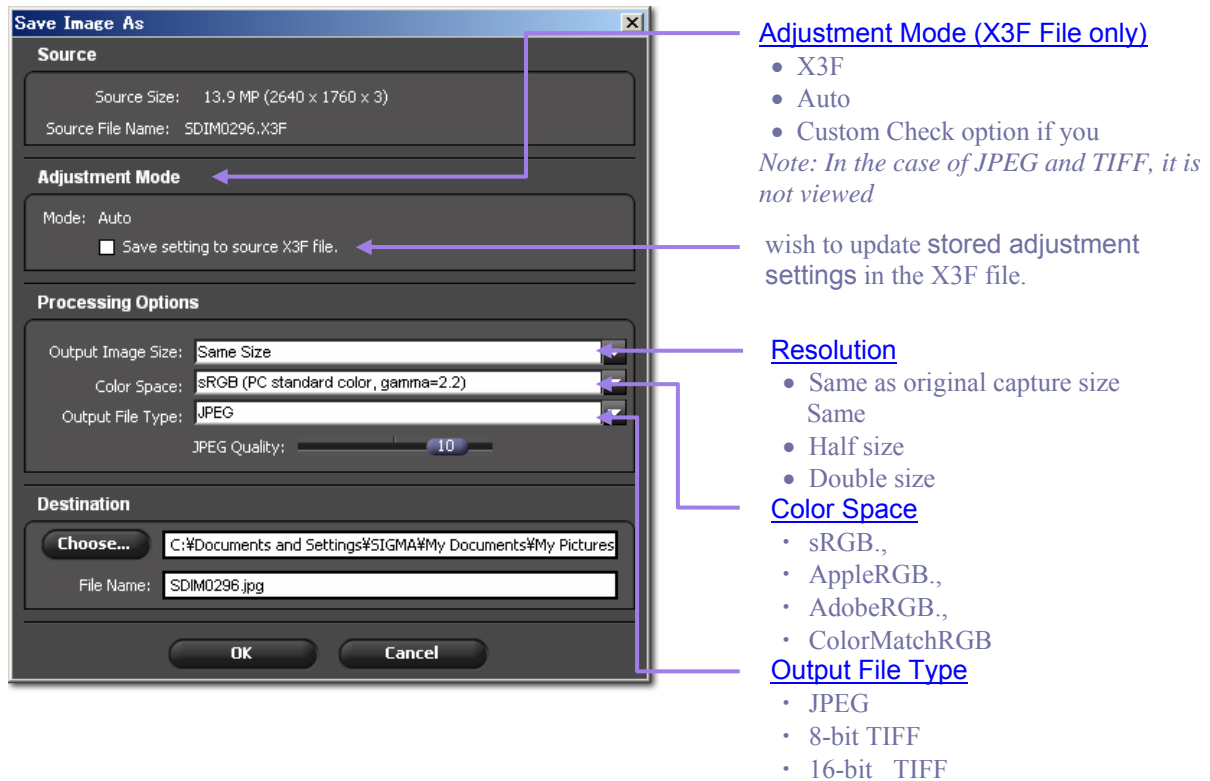
Choosing a destination

When you save images, you can also choose a destination. Images are saved in the previous saving folder. If you change the destination, click Select button and select the folder.

Note: In the case of JPEG and TIFF, repeated processing is decrease image quality.

7.3 Processing options

Use the pop-down menus and radio buttons to choose the processing settings to be applied to your image.



Resolution

The default setting for resolution is the same as the resolution you selected when capturing the image on your camera (High, Medium, or Low). You can also select one half, or double the resolution (one half or double the number of pixels in each dimension) for your processed image to JPEG or TIFF. 「 For more information, see Section 10.2.」 -remove

Adjustment Settings

Three setting options are available: *X3F* as rendered on the camera or by SIGMA Photo Pro, *Auto* with adjustments set automatically by SIGMA Photo Pro, and *Custom* with adjustments set by the user. For more information on how settings work, see [Section 6.5](#). For information on saving settings, see [Section 8.6](#).

Color Space

Selecting the correct color space according to your output needs allows other programs, printers, and users to receive correct color data. If you do not have a specific color management preference, it is recommended that you choose either the PC or Mac standard color space (sRGB or Apple RGB). For more specific color control, you can select other color spaces in the pop-down field according to your needs.

Output File Type

SIGMA Photo Pro supports JPEG, 8-bit TIFF and 16-bit TIFF.

Quality

You can also change compression when saving JPEG files.

8 A D J U S T I N G I M A G E S

In this section you will learn...

- How to use the Adjustment Controls palette
- How to make tonal adjustments
- How to make color adjustments
- How to use the Histogram
- How to set the Warning Masks
- How to change White Balance
- How to save settings
- How to delete saved settings

8.1 Using Adjustment Controls to manually adjust images

Adjustment Controls allow you to manually adjust the settings applied to images in the Review Window. Changing any control or slider places the current Review Window in [Custom Mode](#) *p. 24*. The pop-down menu will show “*Current Unsaved Setting*” indicating that a control has been manually adjusted.

Until you choose another mode or a saved setting, the current settings in the palette will be applied to each image appearing in the associated Review Window. When multiple Review Windows are open, the palette settings will reflect the current topmost active Review Window.

Opening and closing the Adjustment Controls Palette

Adjustment Controls

To open Adjustment Controls, click on the *Adjustment Controls* button in the Review Window.



[Adjustment Mode](#) *p. 38*

Use to set the adjustment mode, and to save and delete specific adjustment settings stored in the application, or in the X3F file

[Tone Adjustments](#) *p. 33*

Use to adjust exposure, shadow, highlight, color saturation, sharpness and X3 Fill Light (Only X3F images)

[White Balance](#) *p. 37*

Use to change white balance in the X3F file.

Note: It will not be displayed with JPEG and TIFF images

[Color Adjustment](#) *p. 34*

Use to neutralize and adjust overall color in your image

[Histogram](#) *p. 36*

Use to evaluate brightness values and assure the desired tonal range has been produced

Maximizing, minimizing, and closing the palette



To maximize or minimize a panel within the Adjustment Controls Palette, click on the gray button in the upper right hand corner of any of each Adjustment control panel; Adjustment Mode, Tone Adjustment, White Balance, Color Adjustment or Histogram.



Click the Close Box in the upper right hand corner of the Adjustment Controls Palette title bar to completely close the palette. Closing all Review Windows will also cause the palette to close.

8.2 Making Tonal Adjustments

Use the sliders to control exposure compensation, contrast, shadow, highlight, sharpness, X3 Fill Light (only X3F files) and saturation.

In Auto Mode, all tonal adjustment sliders, with the exception of Sharpness, may apply when you select Auto Mode. In the case of X3 Fill Light, only a very small amount of adjustment is built into the Auto adjustment. Like Sharpness, the amount of X3 Fill Light is dependent on the content of the image and the preference of the photographer.

To increase sharpness, or increase the dodging and burning effect from X3 Fill Light, further adjust these sliders after selecting Auto Mode.

Note; X3F Fill Light cannot be used with JPEG and TIFF files.



Exposure

The Exposure Compensation slider affects the overall brightness of an image as if the original exposure had been changed. Use this control for slightly under or overexposed images. Each 0.1 increment of the slider represents 0.1 of an f/stop. The range of the Exposure slider is two stops in each direction. These correspond to plus or minus 2 f/stop.

Contrast

The Contrast slider affects the blackness of the blacks and the whiteness of the whites with a single control. Increasing the contrast brightens the whites and darkens the blacks. Decreasing the contrast grays both the whites and the blacks. The range of the Contrast slider is -2.0 to 2.0.

Shadow

The Shadow slider affects the blackness of the shadows. Increasing the number makes shadows lighter, decreasing the number makes shadows darker. The range of the Shadow slider is -2.0 to 2.0.

Highlight

The Highlight slider affects the brightness of the highlights. Increasing the number makes highlights brighter, decreasing the number makes highlights darker. The range of the Highlight slider is -2.0 to 2.0.

Saturation

The Saturation slider affects the intensity of the color in your image. Increasing the saturation makes the color richer, decreasing the saturation makes the color weaker. The range of the Saturation slider is -2.0 to 2.0. The minimum saturation value of -2.0 corresponds to a pure grayscale (Black and White) image.

Sharpness

The Sharpness slider affects the clarity of detail in your image. The higher the number, the stronger the sharpness. The range of the Sharpness slider is -2.0 to 2.0.

X3 Fill Light (X3F files only)

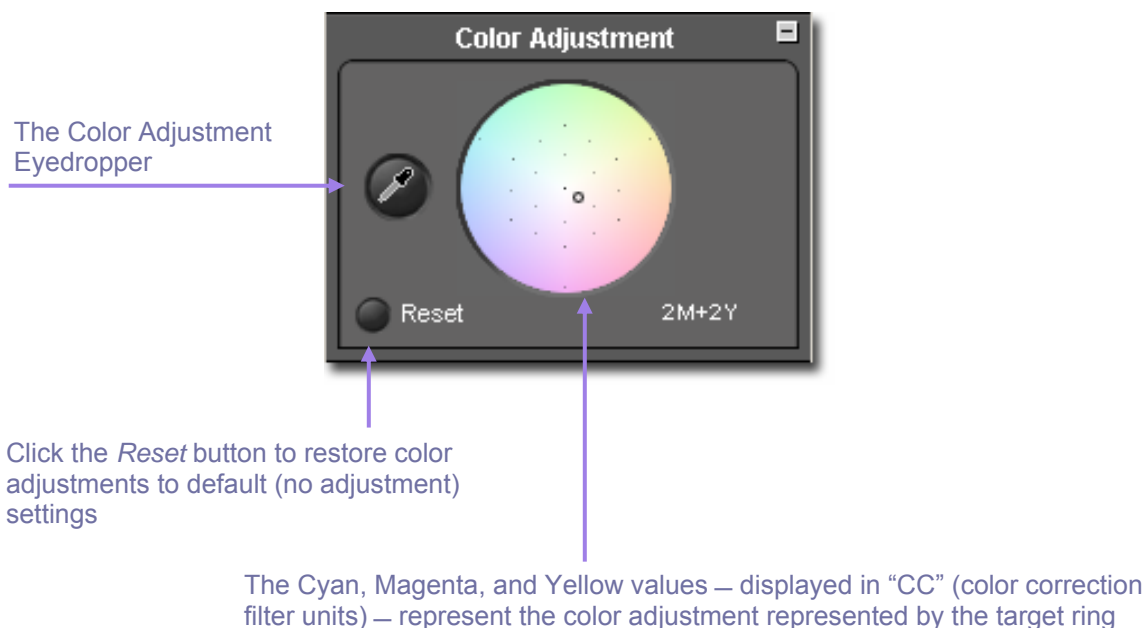
The Fill Light slider affects tone correction by adding extra light energy into the shadow regions without overexposing highlight regions. The range of the X3 Fill Light slider is -2.0 to 2.0.

8.3 Making Color Adjustments

Use Color Adjustment to change the overall color of your image. For example, if your image has an overall yellow tone caused by indoor lighting, adding cyan and magenta will remove the yellow color cast.

Manually adjust color using the **Color Wheel**; slide the control to a desired effect, or use the **Color Adjustment Eyedropper** to automatically neutralize a scene based on a correction to a sample in a known neutral area where the present RGB values are not neutral.

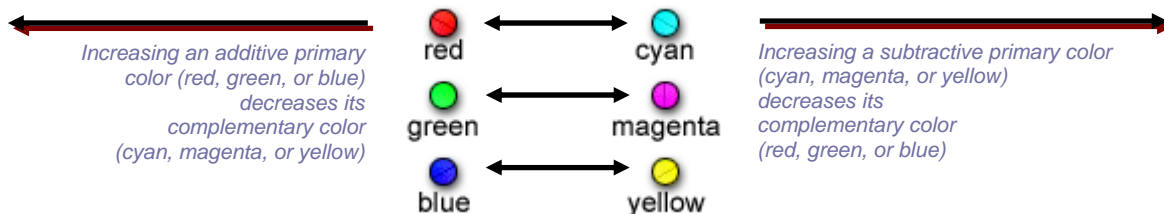
To view the Color Adjust Wheel, display the Adjustment Controls Palette on your screen, and maximize the panel titled Color Adjustment.



Using the Color Wheel

Click and drag the target ring anywhere in the colored portion of the circle. As you move to the edge of the color wheel, the color in the image will become more intense in that range. Moving outside of the circle will continue to produce color changes even when the target ring is no longer in view.

To return the image to the original default settings, click on the *Reset* button.



Using the Color Wheel to manually adjust color

To manually neutralize a color cast, such as a yellow scene caused by indoor lighting, use the eyedropper in the Review Window to sample a color that represents a neutral gray. Based on the RGB values in the eyedropper, drag the target ring in the color wheel to set the CMY values so that the RGB values will equalize. Since the sampled color was known to be neutral, this generally balances the overall color of the image.

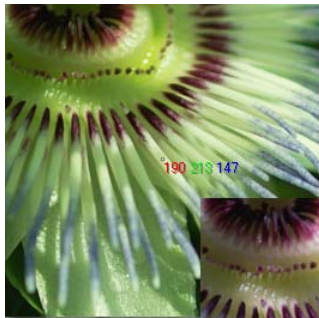
The value of the target ring is represented by units of cyan, magenta, and yellow recorded below the color wheel, displayed in “CC” (color correction filter units). The chart on the preceding page indicates the relationship between red, green, and blue, and cyan, magenta, and yellow.

If you feel the image has an overall color cast, and do not have a neutral color to sample, drag the target ring in the opposite direction of the unwanted color to neutralize. For example, if the image appears too red, move the target ring towards cyan, on the opposite side of red in the Color Wheel.

Using the Color Adjustment Eyedropper to adjust color



Use the Color Adjustment Eyedropper to let SIGMA Photo Pro create neutral gray tones in your image. Locate a portion of your image in the current Review Window that includes a known neutral color that is not rendered as a neutral color. Click on the eyedropper button. The pointer turns to an eyedropper.



Before



After adjustment

Place the eyedropper over the color to be neutralized and click. The software will evaluate that sample and make adjustments to achieve a neutral tone.

Note in this example that the known neutral gray square was weak in Blue. Once balanced, the Blue value increased from 147 to 198, and the gray now appears neutral as in the original scene.

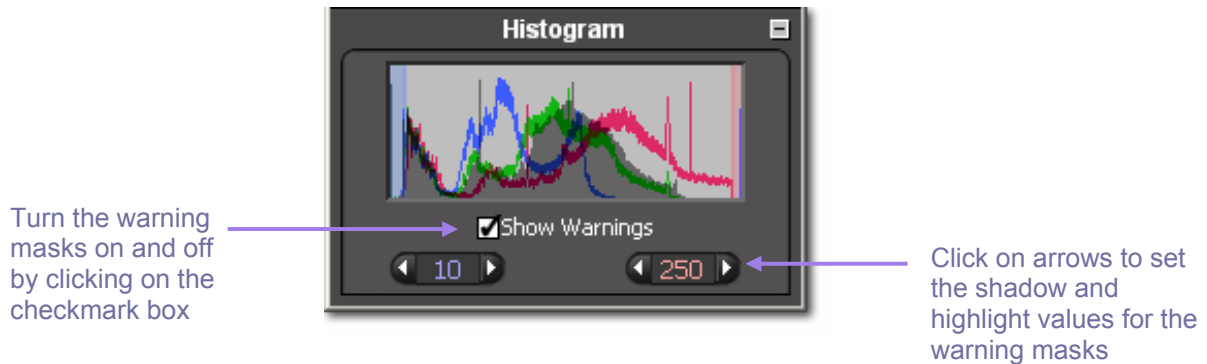
If you wish to redo the gray balance using a different sample point, click on the eyedropper button and repeat the steps above.

If you do not like the results of the color adjustment, click on the *Reset* button at the bottom of the panel to return to default (no color adjustment) setting. You can also use the eyedropper adjustment as a base, and then move the target ring in the color wheel to refine your adjustment.

8.4 Using the Histogram and Warning Masks

Reading the Histogram

To view the Histogram, display the Adjustment Controls Palette on your screen, and open the panel titled Histogram.



The Histogram graphically displays the distribution of brightness values in your image. There are three readouts depicted as colored lines which each represent the brightness values of the Red, Green, and Blue channels. These represent the same RGB values you see individually recorded in the lower right hand corner of the eyedropper in the Review Window.

Shadows are represented on the left side of the graph, mid-tones in the center, and highlights on the right side of the graph. The scale in which these values are measured is between 0 (blackest shadow) and 255 (whitest highlight).

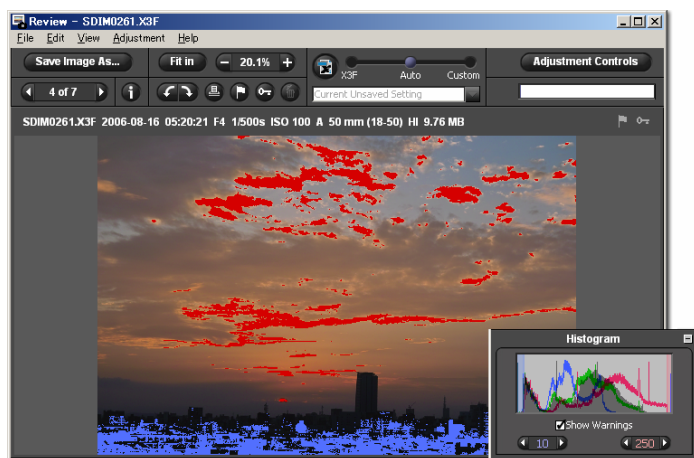
Enabling, disabling and setting values for the Warning Masks

To turn the warning masks on and off click the checkmark box at the bottom of the Histogram panel. You can set the values in the warning mask to alert you when a shadow or highlight value on one or more of the channels falls outside of the specified values.

For example, you may discover that your printer or color lab cannot produce good shadow detail when values fall below 8, and that highlights appear blown out above the value 240. With this information, you can set the warning mask to alert you when the values exceed these limits. To set the limits, click on the arrow buttons below the histogram until the shadow and highlight values are set.

Once you have set the values for the mask, you can manually adjust the sliders in the Adjustment Controls Palette until the warnings are reduced or eliminated. Below is an example of a Review Window with the Warning Mask enabled. This powerful feature helps you to best use the tonal range for your finished print.

↑ Above is an example of a Review Window with the Warning Mask enabled. ↓

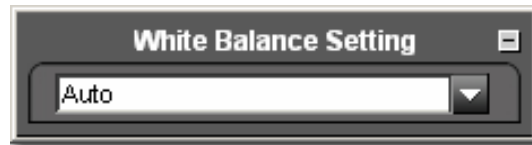


8.5 Changing White Balance

Changing the White Balance setting in an X3F file

White Balance can be adjusted during processing. If you wish to change the lighting type for a particular image, you can match any of the lighting types featured on your SIGMA camera.

To change White Balance, first select the image you wish to change in a Review Window. Next select *Edit > White Balance* from the Review Window menu.



Use the pop-down menu to choose the White Balance setting to be applied to your image.

- | | |
|---------------|---|
| Sunlight: | Select this setting when taking pictures in full sunlight. |
| Shade : | Select this setting when taking pictures in the shade under sunny skies. |
| Overcast: | Select this setting when taking pictures under cloudy overcast skies. |
| Incandescent: | Select this setting when taking pictures indoors under incandescent (tungsten) lighting. |
| Fluorescent: | Select this setting when taking pictures indoors under fluorescent lighting. |
| Flash: | Select this setting when taking pictures with the Sigma EF-500 DG flash. |
| Auto: | Select this setting to allow the camera to automatically determine the appropriate white balance adjustments. |
| Monochrome: | This setting allows Monochrome processing as a White Balance option. * |
| Original : | This sets White Balance back to as-shot. |

When you select a different White Balance setting, the original X3F files will be modified with the updated information. The thumbnail image in the Main Window, and the preview image in the Review Window will not appear to change.

Each time you select a different White Balance setting, the new setting will be automatically saved to the X3F file. To view the effect of the change, wait for the image to complete processing.

Note: Processing an image with "Monochrome" setting will not erase any color information. It is possible to change the White Balance setting after processing the image with "Monochrome" setting.

Note: read only Media such as a CD-ROM will not be able to proceed the above action.

8.6 Saving and applying custom settings

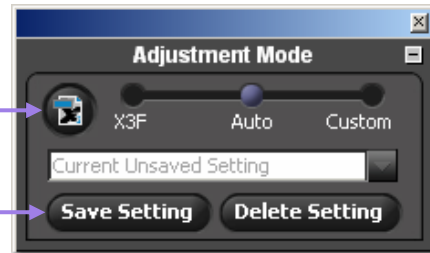
Applying settings from the Adjustment Controls Palette

To view the Adjustment Mode, display the Adjustment Controls Palette on your screen, and open the panel titled Adjustment Mode.

The Adjustment Mode settings in the Adjustment Control Palette reflect the same information as the Adjustment Mode settings found in the active Review Window. See [section 6.5](#) for a review of this information.

Click the X3F Button to replace the stored settings in the X3F file

Click the Save Setting Button to save the
Click the Delete Setting Button to delete the saved setting in the application.



Saving application settings

To save the current setting in the Adjustment Control Palette, click on the *Save Setting* button located at the bottom of the Adjustment Mode Panel. The *Save Setting* dialog box will appear.

Type in a name for your new setting in the input field. To update an existing saved setting, click on the name of the setting you wish to update. Click *Save*.

In the case of the setting not saving, click *Cancel Button* and close the dialog box.

Deleting application settings

To delete a saved setting, click on the *Delete Setting* button located at the bottom of the Adjustment Mode Panel. The *Delete Setting* dialog box will appear.

Click on the name of the setting you wish to delete and click *Delete*.

Replacing stored X3F settings

To replace the original X3F settings (as rendered on your SIGMA digital camera) with current settings, click the *X3F* button. The dialog box will confirm you want to change the embedded adjustment settings associated with the X3F file.

At any time, you can replace the current stored X3F settings with new updated settings of your choice, including the Auto Mode settings if you wish. The ability to store your preferred adjustment settings directly in the X3F file allows you to save unique settings for fast accurate processing in the future.

To restore the original X3F settings, select Custom Mode and choose *Zero Adjust* from the pop-down box. Once *Zero Adjust* is selected, click the X3F button again to replace the current X3F settings with the original X3F settings as rendered on your SIGMA digital camera.

To apply your stored X3F settings when processing a single image, select X3F Mode in the Review Window, the Adjustment Controls Palette, or from the Review Window's Save dialog box.

To apply your stored X3F settings when processing groups of images, select X3F Mode from the Main Window's Save dialog box.

9 GETTING IMAGE INFO

In this section you will learn...

- How to find image info in the Main and Review Windows
- How to open an Image Info Window for additional information

9.1 Image information

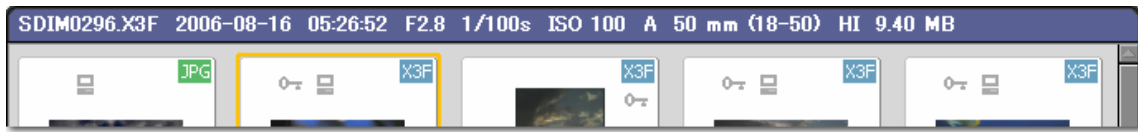


Image information in the Main and Review Windows

When a single image is selected in the Main Window, basic information about the image appears above the Thumbnail Pane in an information field. When multiple images are selected, the Main Window information field will be blank.

Information includes:

- Filename
- Date and time of image capture
- Aperture, shutter speed
- ISO, exposure mode, focal length, resolution
- File size in megabytes (MB) and white balance →pixel

The same information field appears above the image pane in the Review Window.


 In addition to text information, single images will also display icons in the information field indicating marked status, locked status, and **transfer status**. If the selected image is a TIFF or JPEG processed outside of SIGMA Photo Pro, information is limited to file type and locked status icons only.

Image information in the Thumbnail Pane



Information about selected images is located in the information field at the bottom of the Thumbnail Pane in the Main Window. The field indicates how many images are selected and how many MB in total the selected images use.

Image information in the Computer Pane



Similar information is located in fields below the Camera Pane and the Computer Pane. Information includes how many images are presently in the folder or on the camera, and the total MB used.

Information Field

9.2 Accessing the Image Information Window



The Image Info Button

You can view additional information about individual images or groups of selected images by clicking the *Image Info* button in the Main or Review Window.



The Image Information Window

The Image Information Window describes the selected image(s) in the Main or Review Window.

To get information for a different image, click on the Review Window containing the new image or on a new thumbnail in the Main Window. The Image Information Window will update with information about the selected image.

The Image Information Window remains open and floats above the Main and Review Windows until you close it, or until you exit the program.

To close an Image Information Window without exiting SIGMA Photo Pro, click on the *Close* button in the Title Bar or on the *Close* button at the bottom of the window.

There are three sections in the Information Window. The top section contains general information about your file. Next, the capture section summarizes the photometric settings on

the camera at the time the image was captured. Finally, the processing section lists the stored settings when you are viewing an X3F file, and the applied settings when viewing a processed TIFF or JPEG file. If your processed file has been further modified in another post-processing application such as Adobe® Photoshop, a tag will appear in the processing section's title bar.

Copy to Clipboard

To copy the text in the Image Information Window, click on the *Copy to Clipboard* button. Paste the text into any word processing program. Then you can use the word processing program's print function to print the text. If you choose to save these text files in your SIGMA Photo Pro image folders for easy access later, note that they will not be visible from within SIGMA Photo Pro, but you can continue to open and print them from your word processing application.

10 PRINTING AND SLIDESHOW

**In this section you
will find...**

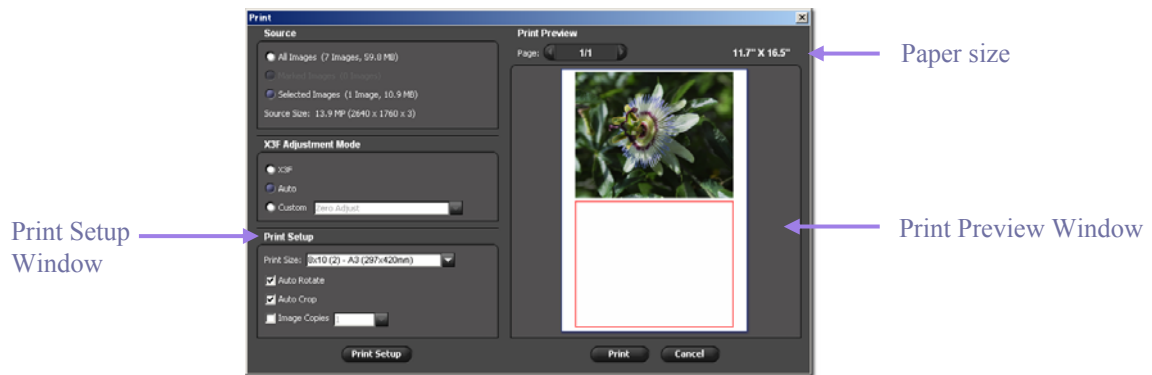
- How to print images
- How to proceed
slideshow

10.1 Printing images in the Main or Review windows

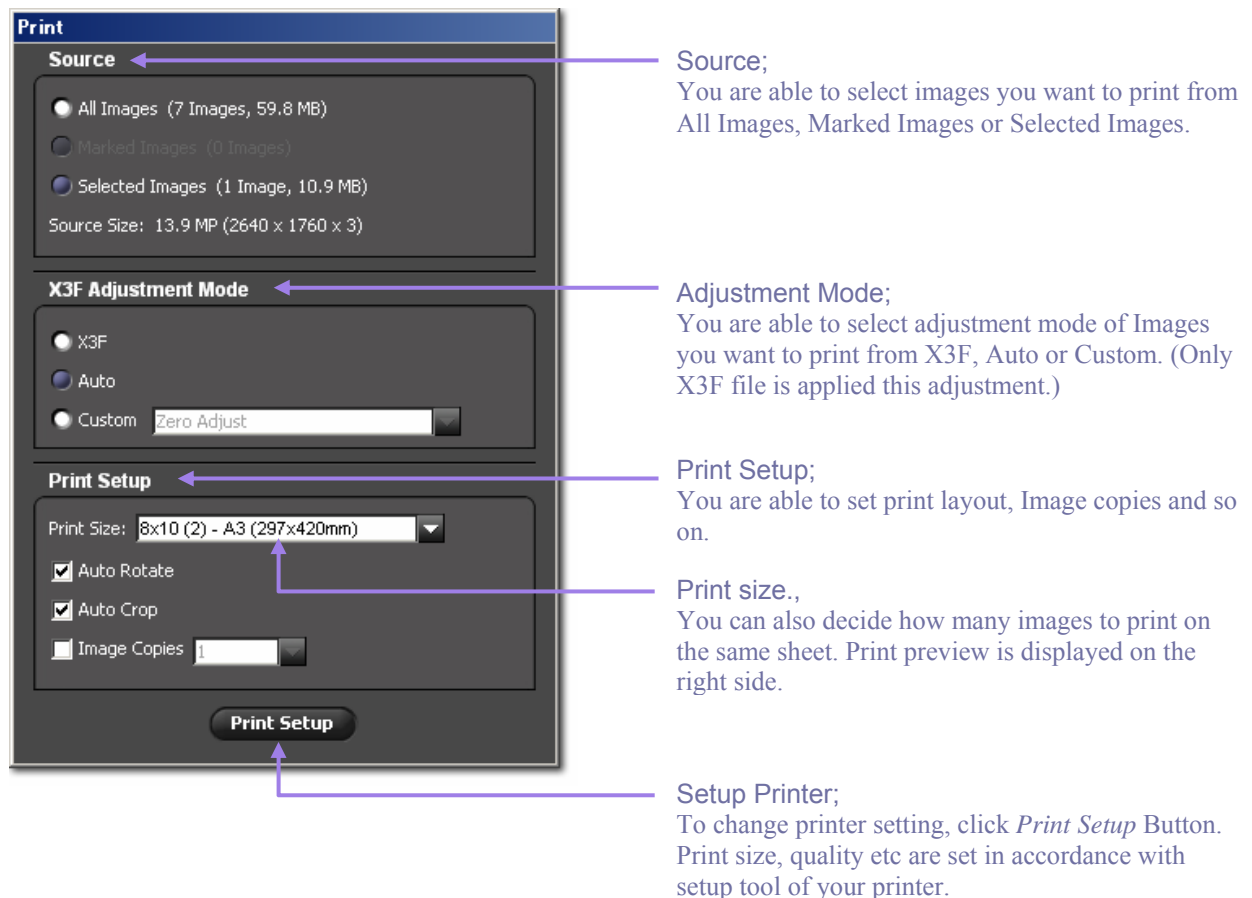


To print images, click Print Button in the Main or Review Window or select *file->print*.

When you proceed with printing from the Main Window, the following dialog box will appear. Print Setup Window is inscribed on the left side of this dialog box and Print preview window is inscribed on the right side.



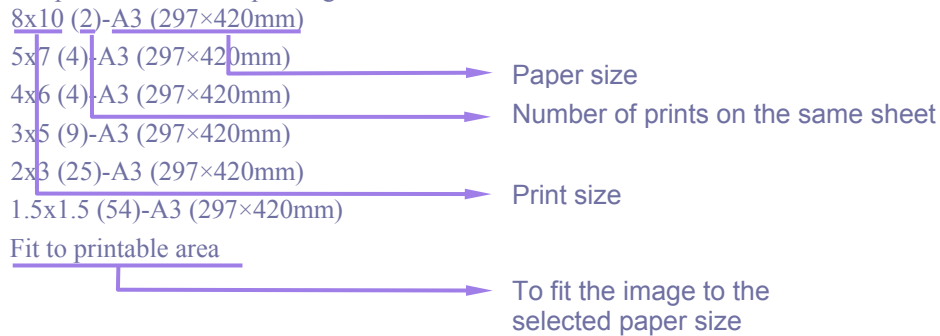
Print Setup window



Print Size

It is possible to select the number of images to be printed on a single sheet. Print status is displayed on the right hand side.

For example: In the case of printing on the A3 size sheet



Note: It is possible to select these printing sizes: 8x10, 5x7, 4x6, 3x5, 2x3 and 1.5x1.5 (inch).

Print size pull down menu may not display the print size of the images, if the image size is larger than paper size selected from print set-up menu.

If you print larger than 8x10 (inch), please select Fit To Printable Area.

Auto Rotate.,

Check “Auto Rotate” to automatically rotate your photo for the best fit on the paper.

Auto Crop.,

The images are trimmed automatically to fit to the print size. The cursor will change to a hand icon on the preview image. It is possible to adjust the trimming position with the hand icon.

Image Copies.,

It is possible to print multiple copies of images.

Please click Print Button after selecting the desired setting. Click Cancel button to close the print options without printing.

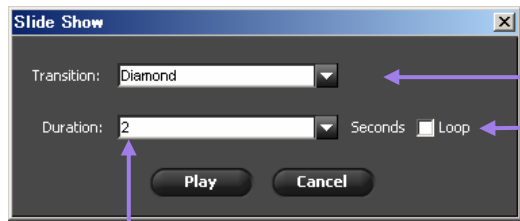
Note: If you choose to proceed with printing from the review window, it is possible to only print the inscribed image on the review window. It is not possible to select and process another image from the Print window.

10.2 SLIDE SHOW



There are two ways to view your photo slide show:

1. Right-click on any photo in the Thumbnail Pane, and select "Slide Show" from the drop-down list.
2. Click on the Slide Show button on top -> and a Slide Show dialog box will appear. The dialog box contains the following options.



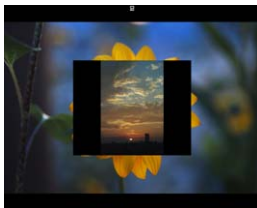
Transition.,
Select transition how to replace images from pop-down menu.
You can also select Zoom, Faed, Roll, Diamond from pull down menu.

Loop.,
Check Loop if you wish to repeat Slide Show.

Duration.,
Please select display time from 1 to 10 seconds from pull down menu.

To start the Slide Show, click Play Button. To abort the Slide Show, click Cancel Button.
To mark images, use the Space Bar on the keyboard once the images already have inscribed
Press ESC key on the keyboard during the Slide Show to finish.

Display Type Slide Show



Zoom.,
Next image appears and expands from the center.



Fade.,
Next image appears after the current displayed image has faded.



Roll.,
The image rolls to the right hand side.



Page Turn.,
Next image appears like a turning page from the upper left corner.



Diamond.,
A diamond shape image will appear and expand from the centre of the screen.