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Canon Utilities

- Digital Photo Professional Ver.2.0

Compatible Models

- EOS-1D Mark II N
- EOS 5D
- EOS-1Ds Mark II
- EOS 350D DIGITAL
- EOS-1D Mark II
- EOS 20D
- EOS-1Ds
- EOS 300D DIGITAL
- EOS-1D
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- EOS D60
- EOS D30
- PowerShot Pro1

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# Introduction

This chapter includes information on the precautions to be read before using Digital Photo Professional, how to use this Instruction Manual, the system requirements and the supported image types. It also explains the functions and window structure, and gives examples of operation.

## About This Manual

Thank you for purchasing this Canon product.

Precautions for using this product safely and icons to help you with procedures, etc. are described at the beginning of this Instruction Manual. Please be sure to read these first before proceeding to the information in the other chapters.

- It is prohibited to reproduce, in whole or part, the contents of this Instruction Manual without permission.
- Canon may change without notice the software specifications and contents of this Instruction Manual.
- The software screens and displays printed in this Instruction Manual may differ slightly from the actual software.
- The content of this Instruction Manual has been reviewed thoroughly. However, if you should notice any errors or omissions, please contact a Canon Service Center.
- Please note that irrespective of the above-mentioned, Canon does not take responsibility for the outcome of the operation of the software.

## Safety Precautions

Please read the safety precautions carefully before using this product. Ensure that you use the product correctly according to the procedures described in these instructions.

The following safety precautions are intended to instruct you in the safe and correct operation of the product and its accessories to prevent injuries or damage to yourself, other persons and property. Please read and ensure that you understand them before you proceed to the other sections of these instructions.

### Warning

Do not play the supplied CD-ROM(s) in any CD-ROM Player that does not support data CD-ROMs. The extremely loud sound that may result from playing the CD-ROM(s) in an audio CD player (music player) could damage the speakers. It is also possible to suffer hearing losses from listening with headphones to the loud sounds of a data CD-ROM played on a music CD player.

## Trademark Acknowledgments

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- Microsoft and Windows are registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

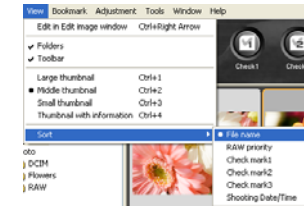
- Click on the item to display its page.

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<b>Example of Operation</b> .....	<b>0-4</b>

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## How to Read the Manual and the Conventions Used

- In this manual, Windows XP Professional/Home Edition is referred to as “Windows XP”, and Windows 2000 Professional is referred to as “Windows 2000”.
- In this manual, the screens used in the examples are from Windows XP.
- In this document, square brackets [ ] are used to indicate items such as window names, menu names and button names that appear on the computer screen.
- Text inside < > in this document indicates the key on the keyboard and camera button names.
- Asterisk in (p. \*-\*) in this document shows reference pages.
- ▶ in this document indicates the sequence of operation as shown on the right.  
Example: [View] menu ▶ [Sort] ▶ [File name]



- The explanations given below describe the type of content indicated by the respective icons.
  - ⚠: Marks information that should be read before use to prevent problems that would interfere with the functioning of software and computer.
  - 📄: Marks additional information that you will find helpful.
- Click any of the chapter content buttons at the right of the Instruction Manual to display the front page of each chapter.
- Clicking the buttons on the bottom right of the Instruction Manual allows you to move as follows:

- ◀ : Displays the previous page.
- ▶ : Displays the next page.
- ↶ : Returns to the previously displayed page.

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# Main Features

Digital Photo Professional (DPP) software is designed for editing RAW images shot with Canon digital cameras and has the following features and functions to meet the requirements of professional and high-end amateurs who mainly shoot RAW images.

## High-speed processing of RAW images

- DPP has made possible, using Canon's own high performance algorithm, high-speed processing and high-speed display of RAW images.
- DPP, Canon's genuine software, has made possible high-image quality processing.

## Operation and window variety that can respond to a professional's workflow

- DPP's operation is easy, compatible with the workflow of a professional, and has a variety of function windows.
- In the main window, images can be displayed as a list (thumbnail image display), selected, rearranged, and basic editing can be performed.
- In the edit image window, one of multiple images can be selected and enlarged, checked, and detailed editing can be performed.
- In the edit window, one image can be enlarged, checked, and detailed editing can be performed.
- In the quick check window, images can be displayed one after the other, checked and selected.

## Real-time image editing

- DPP has various image editing functions where the results of editing are reflected in an image in real-time.
- You can adjust all image editing functions with 16 bit high precision.
- DPP can perform various kinds of image editing with the RAW image adjustment function that is richer and has a larger degree of freedom than the image adjustment features of the camera. It also has the RGB image adjustment function that can edit RAW images and RGB images (JPEG images, TIFF images). There is almost no image deterioration of RAW images edited with the RAW image adjustment function.
- RAW image adjustment features:  
Brightness adjustment, white balance adjustment, Picture Style setting
- RAW image and RGB image (JPEG images, TIFF images) adjustment features:  
Tone curve adjustment, color adjustment, sharpness, trimming, image correction (repair, copy stamp), image rotation (90° to the left or right).
- DPP can save, import or apply recipe data (results of various adjustments made to an edited image) to other images.
- The before and after editing comparative display function allows you to compare and adjust an image displayed in a window showing the before and after versions.

## A diversity of functions

- DPP can select and organize images using 3 kinds of check marks.
- DPP can send one image to Photoshop or a batch of multiple images to optional image editing software .
- DPP can print single copies of compatible images including RAW images.

- Together with Easy-PhotoPrint and Canon BJ printers, DPP can print compatible images including RAW images simply and in high quality.
- DPP can convert and save RAW images as TIFF or JPEG images and attach an ICC profile.
- DPP can convert and save a batch of multiple RAW images (batch processing).
- DPP can change a batch of file names (rename function).
- Together with EOS Capture, DPP is compatible with remote shooting.

## Color management

- DPP is compatible with Color Management System.
- DPP is compatible with 5 kinds of color space (sRGB, Adobe RGB, Wide Gamut RGB, Apple RGB, ColorMatch RGB).
- DPP can attach ICC profiles to a saved image.
- DPP can set monitor and printer profiles.
- With the CMYK simulation function, DPP can simulate the color of an image when printed with a printer, etc. in a CMYK environment.

# System Requirements

OS	Windows XP (Professional/Home Edition), Windows 2000 Professional
Computer	PC with one of the above OS preinstalled * Upgraded machines not supported
CPU	750MHz Pentium III or higher
RAM	Minimum 512MB
Hard disk space	256MB or more
Display	Screen resolution: 1024 × 768 pixels or more Color quality: Medium (16 bit) or more

# Supported Images

This software supports the following image types.

	Image type/ Camera used	Extension
RAW images	EOS-1D Mark II N, EOS-1Ds Mark II, EOS-1D Mark II, EOS 5D, EOS 350D DIGITAL or EOS 20D	.CR2
	EOS-1Ds, EOS-1D	.TIF
	EOS 300D DIGITAL, EOS 10D, EOS D60, EOS D30 or PowerShot Pro1*	.CRW
JPEG images	Exif 2.2 or 2.21-compatible JPEG or JFIF images	.JPG, .JPEG
TIFF images	Exif-compatible TIFF images	.TIF, .TIFF

\*You cannot edit with the Digital Photo Professional RAW image editing function.

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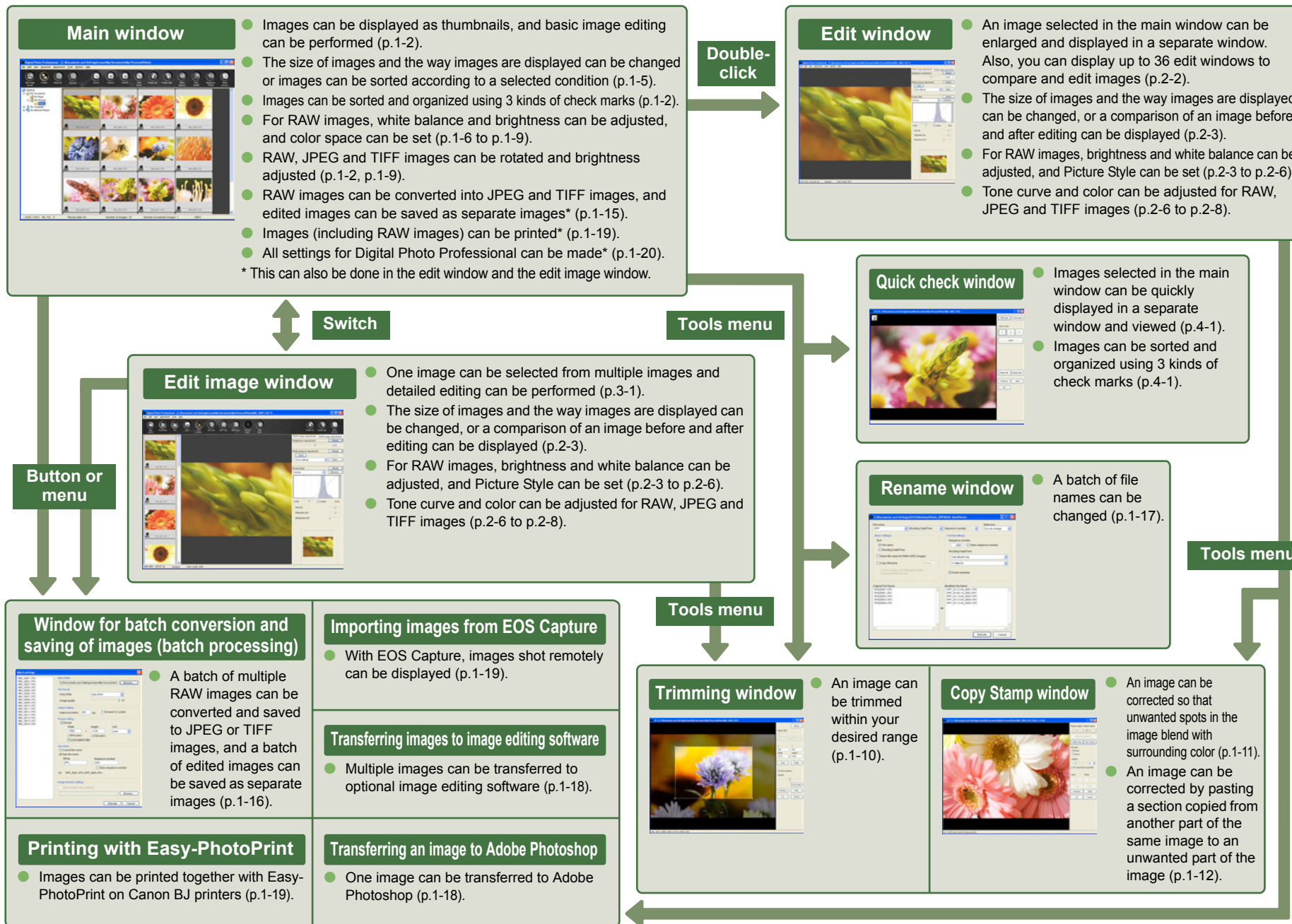
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# Function Window Configuration

Digital Photo Professional comprises the windows and function windows shown below, centering on the main window that is displayed when DPP starts up.



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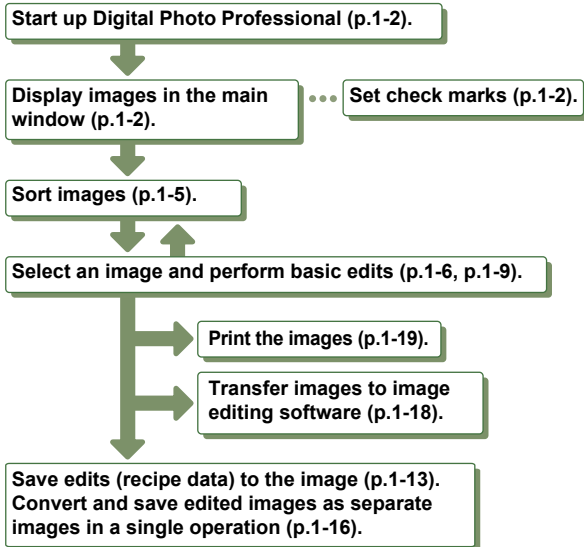
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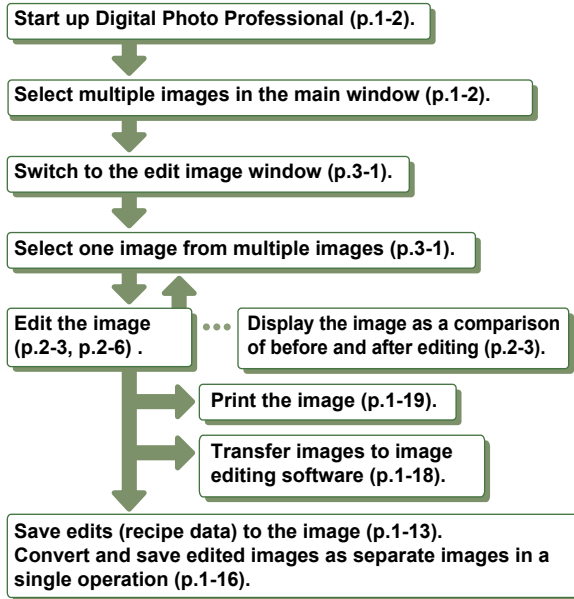
# Example of Operation

The following shows typical flows of operating Digital Photo Professional.

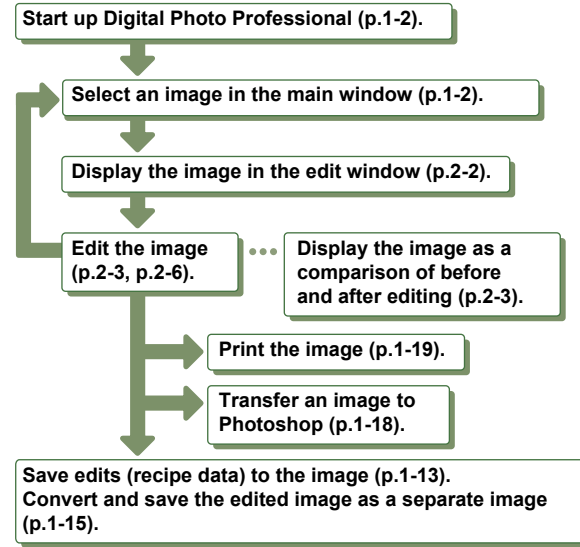
## Example 1: Displaying Thumbnail Images and Performing Basic Edits in the Main Window



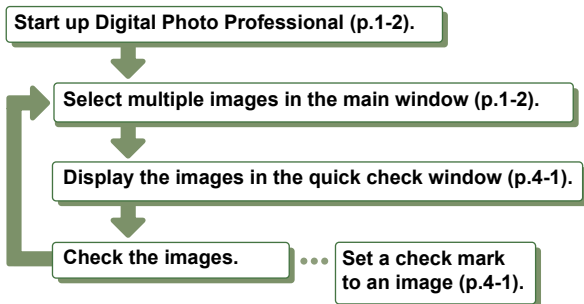
## Example 2: Selecting One Image from Multiple Images and Performing Detailed Edits on the Image in the Edit Image Window



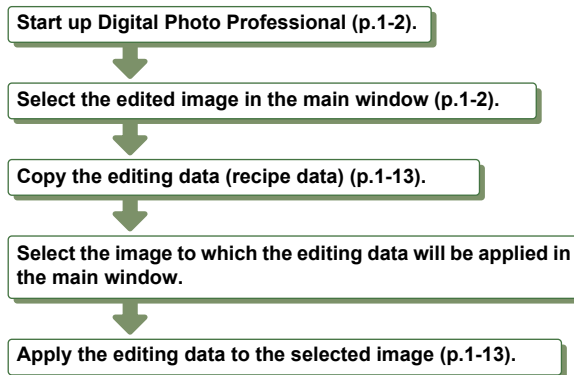
## Example 3: Performing Detailed Edits on a Single Image in the Edit Window



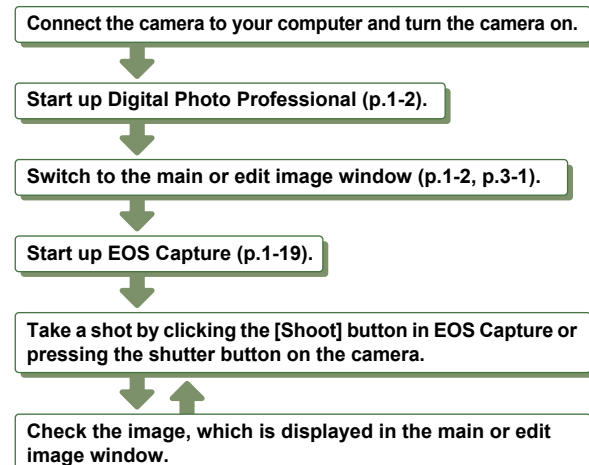
## Example 4: Checking Images in the Quick Check Window



## Example 5: Applying the Editing Data (recipe data) of an Edited Image to Another Image



## Example 6: Remote Shooting with EOS Capture



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# 1

# Displaying Thumbnail Images and Performing Basic Edits in the Main Window

This chapter describes the functions of the main window, and how to display images and perform basic edits on them.

● Click on the item to display its page.

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# Starting up Digital Photo Professional

Double-click the [Digital Photo Professional] icon on the desktop.

- The main window is displayed.
- Alternatively, you can start up Digital Photo Professional by clicking the [Start] button ▶ select [All Programs] ([Programs] in Windows 2000) ▶ [Canon Utilities] ▶ [Digital Photo Professional] ▶ [Digital Photo Professional].



## Main Window

The path for the folder selected in the folder area is displayed.

Menu bar  
Displays the [File], [Edit], [View], [Bookmark], [Adjustment], [Tools], [Window], and [Help] menus.

The main window switches to the edit image window (p.1-6, p.3-1).

Displays/hides the folder area.

Folder area  
The images in the selected folder are displayed in the image display area.

Displays the coordinates of the cursor position and the RGB values (8-bit conversion) of an image while operating the click white balance (p.1-8).

Displays whether or not recipe data (p.1-13) is attached to the selected image.

Displays the total number of images.

Displays the number of the currently selected images.

When you set CMYK simulation profile (p.1-21), [CMYK] is displayed.

Image display area

Adjusts a RAW image with click white balance (p.1-8).

Adjusts the brightness of a RAW image (p.1-9).

Saves all the images in a single operation (p.1-16).

Adjusts the white balance of a RAW image (p.1-6).

Rotates the selected image 90° to the left or right.

Removes all the check marks of the selected images.

Toolbar

Selects all the images in the image display area.

All the selected images in the image display area are deselected.

Selects and sets one from the 3 check marks to the selected image.

- To select an image, click the target image.
- To select multiple images, hold down the <Ctrl> key and click the images.
- To select sequential images, click the first image and then hold down the <Shift> key and click the last image.

- To select RAW images only or images that have check marks set only, select the [Edit] menu ▶ [Select RAW photos only] or [Select check mark\* photos only]. (\* represents a check mark number from 1 to 3.)
- To display or hide the toolbar, select the [View] menu ▶ [Toolbar].
- To exit Digital Photo Professional, select [File] menu ▶ [Exit].

For information on shortcut keys, refer to the "Shortcut List" (p.5-2).

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## Information Displayed with Images

The following shows the information displayed when [Large thumbnail] (p.1-5) is selected.

This mark is displayed for images being trimmed (p.1-10).

This mark is displayed when a check mark is set (p.1-2, p.4-1).

This value is displayed for RAW images for which the brightness was adjusted (p.1-9).

The icon for the specified white balance is displayed with RAW images only (p.1-7).

The [RAW] symbol is displayed for RAW images. (When [Small thumbnail] is selected, the [R] symbol is displayed). No symbol is displayed for JPEG and TIFF images.

The [RAW] mark is not displayed for PowerShot Pro1 RAW images.



This mark is displayed for an image that has been corrected with the copy stamp tool (p.1-11, p.1-12).

The aperture value used when images were shot is displayed.

The shutter speed used when images were shot is displayed.

File name

This mark is displayed for unsaved images being edited.

This mark is displayed for images for which the RGB processing (p.1-9, p.2-6) was performed.

# Displaying Images

You can display images saved on your computer in the main window.

Click the folder in which images are saved.



- You cannot display images saved on a memory card in the camera. You must save images to your computer using other software supplied with the camera or a third-party card reader.
- A JPEG image set to Adobe RGB and taken with the EOS 10D, EOS 300D DIGITAL or PowerShot Pro1 may display with the sRGB color space applied.

- Refer to "Supported Images" for information about the images that can be displayed (p.0-2).
- Images that cannot be displayed appear as [X].
- Images that were shot with the camera held vertically with [Auto rotate] setting to <ON> are automatically displayed vertically.
- You can display images saved on a memory card using a third-party card reader.

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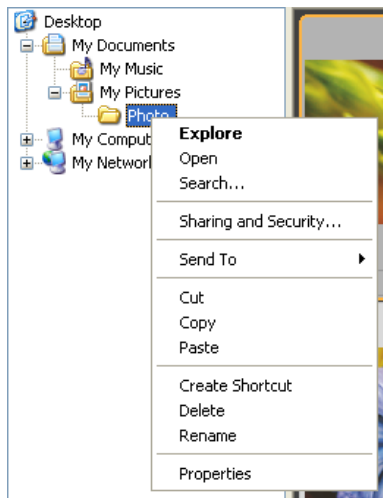


# Handling the Folders

You can handle the folder on the menu that appears by right-clicking the folder.

**Right-click on the folder and select an option from the menu that appears.**

- You can drag and drop folders in the folder area to move them to the other folders. You can also copy the folders by dragging and dropping them while holding down the <Ctrl> key.



## Creating a New Folder

You can create a new folder in the folder area.

- In the folder area, select the location where the new folder is to be created.**
- Select the [File] menu ▶ [Create new folder].**  
→ The [Create new Folder] dialog box appears.
- Enter a folder name.**  
→ The folder is created.

## Registering Frequent Use Folders with the Bookmark

You can register frequent use folders with the [Bookmark] menu.

- Select a folder in the folder area.**
- Select [Bookmark] menu ▶ [Add].**  
→ The selected folder is registered with the [Bookmark] menu.
  - The registered folder can be selected from the [Bookmark] menu.

## Organizing Bookmarks

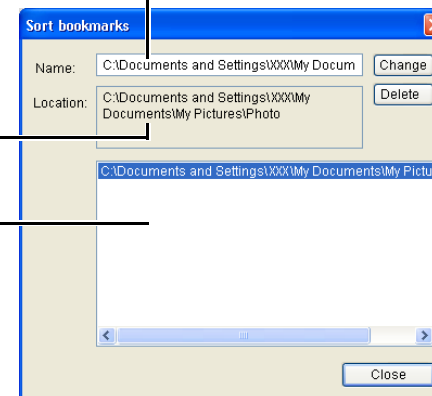
You can change the name of the folder or delete the folder that was registered with the [Bookmark] menu.

- Select [Bookmark] menu ▶ [Organize].**  
→ The [Sort bookmarks] dialog box appears.
- Change the folder name or delete the folder.**

The path and name of the folder that is selected in the bookmark folder area is displayed.

The folder path that is selected in the bookmark folder area is displayed.

Bookmark folder area



- To change the folder name, select the folder in the bookmark folder area, change the displayed folder name, and then click the [Change] button.
- To delete the folder, select the folder in the bookmark folder area, then click the [Delete] button.

- Click the [Close] button.**

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## Copying/Moving an Image

You can copy and save or move an image to another folder.

- 1 **Select the image to be copied or moved.**
- 2 **Select the [Edit] menu ▶ [Copy] or [Cut].**  
→ The image is copied or cut.
- 3 **Select the folder to which the image is to be saved or moved.**
- 4 **Select the [Edit] menu ▶ [Paste].**  
→ The image is copied or moved to the selected folder.

## Deleting Images

You can move unnecessary images to the Recycle Bin on your computer and delete them.

- 1 **Select images and then select [File] menu ▶ [Delete].**  
→ The [Confirm File Delete] dialog box appears.  
→ If you select multiple images, the [Confirm Multiple File Delete] dialog box appears.
- 2 **Click the [Yes] button.**  
→ The images are moved to the Recycle Bin.
- 3 **Select [Empty Recycle Bin] from the menu that appears by right-clicking [Recycle Bin] on the desktop.**  
→ The images are deleted.

- Images that you deleted in step 3 cannot be restored. Check carefully before deleting images.
- When multiple images are selected, all the selected images will be deleted. Take particular care when you have just finished a task involving the selection of multiple images.

In addition to [CRW\_YYYY.CRW] (RAW images) and [IMG\_YYYY.JPG] (JPEG images), [CRW\_YYYY.THM] (images for displaying camera indexes) is saved in the folder [xxxCANON] where images you have taken with the EOS 10D, EOS 300D DIGITAL, EOS D60, EOS D30 and PowerShot Pro1 are saved. With Digital Photo Professional, [CRW\_YYYY.THM] images are not displayed and therefore you cannot move or delete them.  
Move or delete [CRW\_YYYY.THM] images on the Explorer.  
[xxx] of folder names and [YYYY] of image names represent a number.

## Selecting the Image Display Mode

You can change the size or method and sort images according to a selected condition.

### Selecting the Thumbnail Size

The available image sizes are [Large thumbnail], [Middle thumbnail], and [Small thumbnail]. Various information (p.1-3) is displayed in the display frame.

Select [View] menu ▶ Select the size to be set.

→ The images are displayed in the selected size.

### Image with Information Display

You can display the brightness histogram and the shooting information for images.

Select [View] menu ▶ [Thumbnail with information].

→ The images with attached information are displayed.

### Sorting Images

You can sort images according to a condition you select.

Select [View] menu ▶ [Sort] ▶ Select the condition to be set.

→ The images are sorted according to the selected condition.

[File name]	: File names are sorted in alphanumeric order (0 to 9 → a to z).
[RAW priority]	: Displayed in the following order: RAW images (CR2 → CRW → TIF) → RGB images (JPG → TIF) If multiple images have the same extension, they are sorted in order of [File name].
[Check mark1]	: Displayed in the following order: check-marked images with selected number → check-marked images with other numbers → images without check marks If multiple images have the same check mark number, they are sorted in order of [File name].
[Check mark2]	
[Check mark3]	
[Shooting Date/Time]	: Sorted by shooting date and time. If multiple images were taken on the same date and time, they are sorted in order of [File name].

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## Displaying Image Information

You can check various information for images.

### Select an image and then select [File] menu ▶ [Info].

- The image information appears.
- Clicking the [Close] button closes the dialog box.

ⓘ Image information may not appear for JPEG images set to Adobe RGB and shot with the EOS 10D, EOS 300D DIGITAL or PowerShot Pro1.

## Displaying the Edit Window

You can enlarge the image and perform detailed edits.

### Double-click an image.

- The edit window appears.
- See Chapter 2 “Performing Detailed Edits in the Edit Window” for the information on the edit window.

## Displaying the Edit Image Window

You can select one image from multiple images and perform detailed edits.

### Select multiple images and then click the [Edit image window] button.

- The main window switches to the edit image window.
- See Chapter 3 “Performing Detailed Edits in the Edit Image Window” for the information on the edit image window.



## Displaying the Quick Check Window

You can individually display images in a larger size and can quickly view and check each image.

### Select multiple images and then select the [Tools] menu ▶ [Start Quick check tool].

- The quick check window appears.
- See Chapter 4 “Displaying an Image in the Quick Check Window” for the information on the quick check window.

# Editing RAW Images

You can perform various edits on the RAW images that are supported by Digital Photo Professional. With RAW image editing (p.1-6 to p.1-9), there is hardly any of the deterioration which accompanies image editing. You can therefore edit an image multiple times while preserving the image quality at the time the image was shot.

## 1 Select a RAW image.

## 2 Edit the RAW image (p.1-6 to p.1-9).

- You can apply edits to other images by copying and pasting the edit data to the other images (p.1-13).
- You can revert edited images to the last saved settings or shot settings (p.1-14).

## 3 Save the edited image (p.1-14).

- ⓘ You cannot edit PowerShot Pro1 RAW images.
- Before exiting Digital Photo Professional, you must save the edited images (p.1-14).

- ⓘ When multiple images are selected, the edits are applied to all the selected images.
- The editing data can be saved in a separate file (p.1-13).
- The edited images can be transferred to image editing software (p.1-18).

## Adjusting the White Balance

You can set the white balance with each method.

## 1 Click the [White balance] button (p.1-2).

- The [White balance adjustment] dialog box appears.
- Alternatively, you can display this dialog box by selecting [Adjustment] menu ▶ [White Balance].

## 2 Adjust the white balance by making each setting (p.1-7, p.1-8).

## 3 Click the [Close] button.

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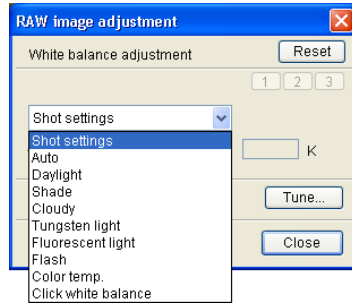
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## Selecting the White Balance

You can specify the white balance.

Select the white balance from the list box.

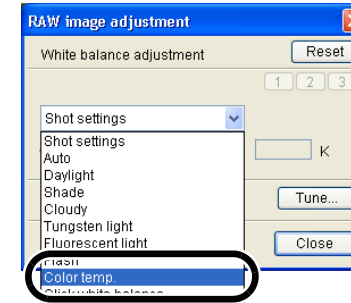


White Balance	Details	Color Temp. K (Kelvin)
Shot settings	To apply the white balance setting used when the shot was taken.	—
Auto	Automatically adjusts the white balance.	Approx. 3000 to 7000
Daylight	For sunny daylight outdoors.	Approx. 5200
Shade	For shaded areas outdoors.	Approx. 7000
Cloudy	For cloudy or hazy days and during sunset.	Approx. 6000
Tungsten light	For tungsten (light bulb) light.	Approx. 3200
Fluorescent light	For white fluorescent light.	Approx. 4000
Flash	When flash is used.	Approx. 6000
Color temp.	You can manually set color temperature for 2800 to 10000K (in 100K increments).	Approx. 2800 to 10000
Click white balance	Displayed for images on which you performed the click white balance.	—

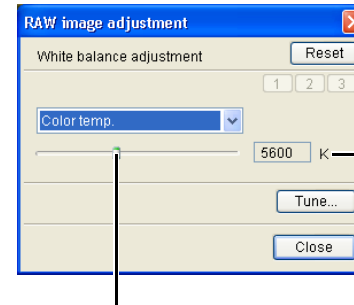
## Specifying the Color Temperature

You can specify the color temperature in the range of 2800 to 10000K (in 100K increments).

1 Select [Color temp.] from the list box.



2 Adjust an image while viewing it.



The adjusted value appears.

Drag the slider left or right to adjust the color temperature.

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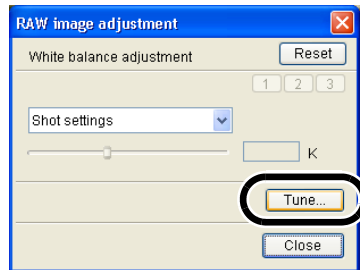
## Adjusting with the Color Wheel

You can select a desired color from the color wheel.

You can also specify the hue in the range of 0 to 359 (in 1-stop increments), and the saturation in the range of 0 to 255 (in 1-stop increments).

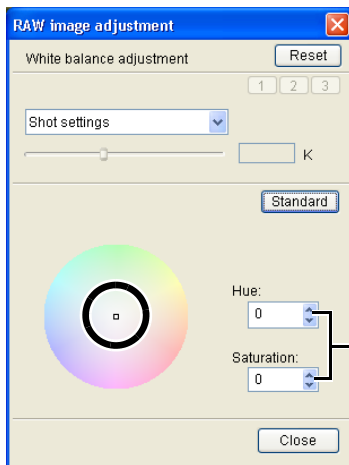
### 1 Click the [Tune] button.

→ The color wheel appears.



### 2 Adjust an image while viewing it.

● Drag [□] to adjust an image.



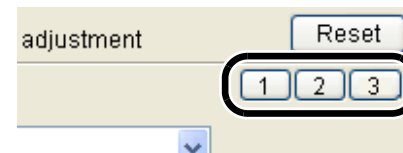
You can enter a value or click the [▲] / [▼] buttons to specify the hue and saturation.

## Personal White Balance

You can apply the personal white balance (p.2-4) that you registered in the edit window or the edit image window to images.

### Click the [1], [2] or [3] button.

→ The registered personal white balance is applied to the image.



❗ You cannot use the personal white balance if you have not registered it.

## Click White Balance Function

Makes white the standard for the point you selected and color in the image is adjusted.

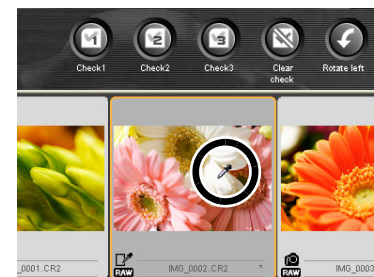
### 1 Click the [Click (RAW)] button (p.1-2).

→ When you move the cursor over the image, the cursor [↔] changes to [↔].

### 2 Click the point where is to be the standard.

→ The color in the image is adjusted with white as the standard on the point you selected.

- If you click on another point over the image, the white balance is adjusted again.
- When you finish this operation, click the [Click (RAW)] button or right-click.



- The coordinates of the cursor position and the RGB values (8-bit conversion) of the image are displayed in the lower-left of the main window (p.1-2).
- The image is adjusted based on the value of 1 × 1 pixels from the clicked point.
- Even if you have selected a neutral gray point of the image, the result of adjustments is the same as when you select a white point.

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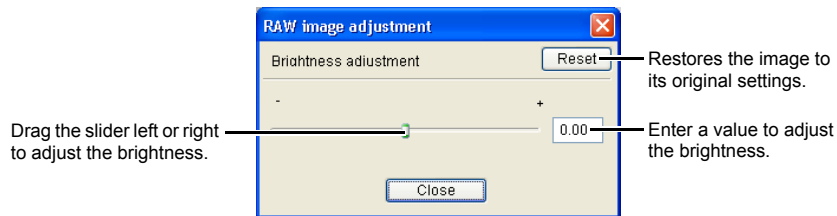
## Adjusting the Brightness

You can adjust the brightness in the range of  $-2.0$  to  $+2.0$  (in 0.01-stop increments when entering a value).

### 1 Click the [Brightness (RAW)] button (p.1-2).

- The [Brightness adjustment] dialog box appears.
- Alternatively, you can display this dialog box by selecting [Adjustment] menu ▶ [Brightness adjustment(RAW)].

### 2 Adjust an image while viewing it.



### 3 Click the [Close] button.

## Specifying Color Space

You can set a color space other than the one set in [Default settings of Work color space] in the preferences (p.1-21).

### Select [Adjustment] menu ▶ [Work color space] ▶ Select a color space to be set.

- The selected color space is set.

The specified color space is added to the ICC profile that is embedded in TIFF or JPEG images that have been converted from RAW images and saved (p.1-15, p.1-16).

A color space is the reproducible color range (the characteristics of color gamut). Digital Photo Professional supports the following 5 kinds of color space.

**sRGB** : Standard color space for Windows. Widely used for the standard color space of monitors, digital cameras, and scanners.

**Adobe RGB** : A wider color space than sRGB. Mainly used for printing for business purposes.

**Wide Gamut RGB** : A wider color space than Adobe RGB.

**Apple RGB** : Standard color space for Macintosh. A slightly wider color space than sRGB.

**ColorMatch RGB** : A slightly wider color space than sRGB. Mainly used for printing for business purposes.

## Editing Images

You can perform various edits on the RAW, JPEG, and TIFF images that are supported by Digital Photo Professional.

### 1 Select an image.

### 2 Edit the image (p.1-9 to p.1-12).

- You can apply edits to other images by copying and pasting the edit data to the other images (p.1-13).
- You can revert edited images to the last saved settings or shot settings (p.1-14).

### 3 Save the edited image (p.1-14).

Before exiting Digital Photo Professional, you must save the edited images (p.1-14).

- When multiple images are selected, the edits are applied to all the selected images.
- The editing data can be saved in a separate file (p.1-13).
- The edited images can be transferred to image editing software (p.1-18).

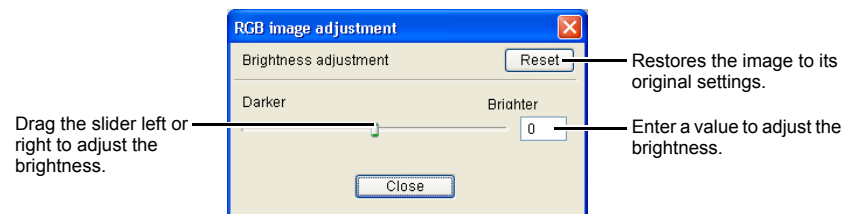
## Adjusting the Brightness

You can adjust the brightness of an image in the range of  $-100$  to  $+100$  (in 1-step increments when entering a value).

### 1 Select [Adjustment] menu ▶ [Brightness adjustment].

- The [Brightness adjustment] dialog box appears.

### 2 Adjust an image while viewing it.



### 3 Click the [Close] button.

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# Trimming an Image

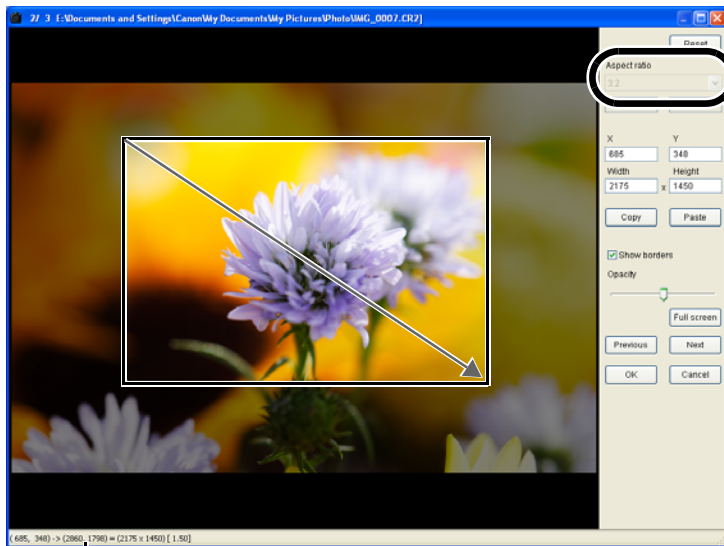
You can trim an image within your desired range.

## 1 Select the [Tools] menu ▶ [Start Trimming tool].

→ The trimming window appears.

## 2 Trim the image.

- Select a ratio from the [Aspect ratio] list box, and drag the trimming range as shown in the diagram.



Displays the coordinate position of the cursor.  
When you have set the trimming range, the upper left and lower right XY coordinates, width, height and aspect ratio of the frame are displayed.

- If you move the cursor in the trimming range you have set, the [↔] changes to [↕]. You can move the trimming range by dragging.
- If you move the cursor to the four corners of the trimming range you have set, the [↕] changes to [↖] or [↗]. You can change the trimming range size by dragging.
- When [Free] is selected in the [Aspect ratio] list box, move the cursor to all four sides of the set trimming range and [↕] will change to [↕] or [↔]. The size of the trimming range can be changed by dragging.

Reset — Returns settings to the original settings.

Aspect ratio — Select the vertical/horizontal ratio of the trimming range. Displays the ratio selected from the [Aspect ratio] list box. You can also enter your own ratio when you select [Custom] from the [Aspect ratio] list box.

X — Displays the upper left coordinates of the trimming range you have set. You can also set the coordinates by entering your desired numbers.

Y — Displays the upper left coordinates of the trimming range you have set. You can also set the coordinates by entering your desired numbers.

Width — Displays the size of the trimming range you have set. You can also set the size by entering your desired numbers.

Height — Displays the size of the trimming range you have set. You can also set the size by entering your desired numbers.

Copy — Copies the trimming range you have set.

Paste — The trimming range copied from another image is reflected in the image displayed.\*

Show borders — Displays borders around the trimming range.

Opacity — Displays the full screen. To return to the original view, click this button again or press the <Esc> key on the keyboard. To switch between full screen display/normal screen display, press the <F11> key or the <Alt> + <Enter> keys on the keyboard.

Full screen — Drag the slider left or right to set the level of opacity outside the trimming range.

Previous — Displays the previous image.\*

Next — Displays the next image.\*

OK — Applies the settings and closes the window.

Cancel — Cancels all settings and closes the window.

\*Functions when you have selected multiple images and the trimming windows are displayed.

## 3 Click the [OK] button.

- You can also set the [Aspect ratio] and switch between full screen/normal screen from the menu that appears by right-click on the image.
- For information on shortcut keys, refer to the "Shortcut List" (p.5-3).

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## Correcting an Image

You can correct an image using the repair function or the copy stamp function.

### Repairing

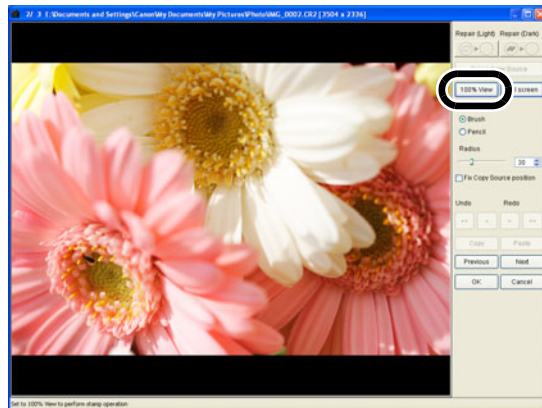
You can correct an image so that unwanted spots (spots you want to delete) on the image blend with surrounding color.

#### 1 Select the [Tools] menu ▶ [Start Stamp tool].

→ The copy stamp window appears.

#### 2 Click the [100% View] button.

→ The image is displayed in the 100% view.



#### 3 Display the section you want to correct.

- Drag the image to display the section you want to correct.

#### 4 Click the [Repair (Light)] button or the [Repair (Dark)] button.

- When the unwanted spot (spot you want to delete) is light in color, click the [Repair (Light)] button and when it is dark in color, click the [Repair (Dark)] button.

→ Move the cursor over the image and the correction range is displayed as [O].

**Repair (Light) button** — Corrects an isolated light spot within the correction range to match the surrounding color.

**[Repair (Dark)] button** — Corrects an isolated dark spot within the correction range to match the surrounding color.

**Select Copy Source** — The image is displayed at 100% (actual pixel size). Click this button again to display the image in the size that fits to the window.

**100% View** / **Full screen** — Displays the full screen. To return to the original view, click this button again or press the <Esc> key on the keyboard. To switch between full screen display/normal screen display, press the <F11> key or the <Alt> + <Enter> keys on the keyboard.

**Radius** — Drag the slider left or right, or click the [▲] / [▼] buttons to set the correction range.

**Undo** — Undoes the previous action.

**Reverts to the original condition before any corrections were performed.** — <<< / < / > / >>>

**Redoes the previous correction.** — > / >>>

**Redoes all the corrections.** — >>>

**Copies the content of the corrections specified.** — Copy

**Applies to the image the content of the corrections copied.** — Paste

**Displays the previous image.\*** — Previous

**Displays the next image.\*** — Next

**Applies the settings and closes the window.** — OK

**Cancels all settings and closes the window.** — Cancel

\*Functions when you have selected multiple images and the copy stamp windows are displayed.

#### 5 Cover the unwanted spot in the image with the correction range [O] and click.

- The unwanted spot within the correction range is corrected.
- If you then click on the image, the unwanted spots within the selected correction range are corrected.
- To correct another section of the image, cancel the repair function by right-clicking or clicking the [Repair (Light)] button or the [Repair (Dark)] button, and perform the operation from step 3 again.

#### 6 Click the [OK] button.

When sections of the image that cannot be corrected with the repair function have been selected, [O] is displayed.

- In step 2, you can double-click on the section you want to correct to display the 100% view. You can also double-click again to return to the original view.
- For information on shortcut keys, refer to the “Shortcut List” (p.5-3).

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## Copy Stamp

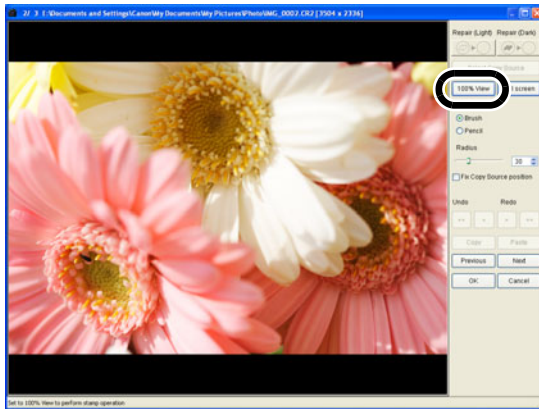
You can correct an image by pasting a section copied from another part of the same image to an unwanted part of the image.

### 1 Select the [Tools] menu ► [Start Stamp tool].

→ The copy stamp window appears.

### 2 Click the [100% View] button.

→ The image is displayed in the 100% view.

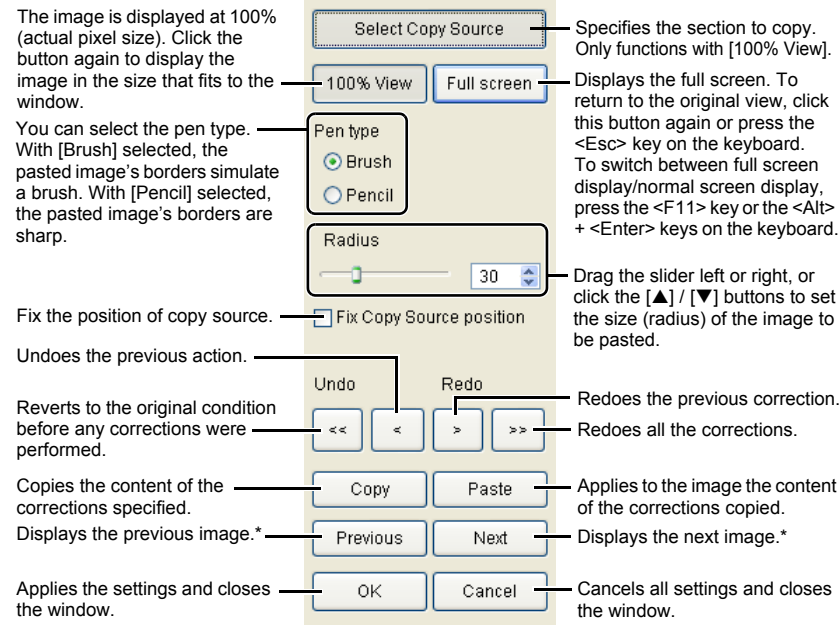


### 3 Display the section you want to correct.

- Drag the image to display the section you want to correct.

### 4 Specify the section to copy.

- Click the [Select Copy Source] button and then click the section to copy.
- To change the copied section, repeat the above procedure.



The image is displayed at 100% (actual pixel size). Click the button again to display the image in the size that fits to the window.

You can select the pen type. With [Brush] selected, the pasted image's borders simulate a brush. With [Pencil] selected, the pasted image's borders are sharp.

Fix the position of copy source.

Undoes the previous action.

Reverts to the original condition before any corrections were performed.

Copies the content of the corrections specified.

Displays the previous image.\*

Applies the settings and closes the window.

Specifies the section to copy. Only functions with [100% View].

Displays the full screen. To return to the original view, click this button again or press the <Esc> key on the keyboard. To switch between full screen display/normal screen display, press the <F11> key or the <Alt> + <Enter> keys on the keyboard.

Drag the slider left or right, or click the [▲] / [▼] buttons to set the size (radius) of the image to be pasted.

Redoes the previous correction.

Redoes all the corrections.

Applies to the image the content of the corrections copied.

Displays the next image.\*

Cancels all settings and closes the window.

\*Functions when you have selected multiple images and the copy stamp windows are displayed.

### 5 Correct the image.

- Click or drag on the section you want to correct on the image. [ + ] in the window indicates the copy origin, and [ ○ ] indicates the copy destination.
- The copied image is pasted in the position where you dragged.

### 6 Click the [OK] button.

- In step 2, you can double-click on the section you want to correct to display the 100% view. You can also double-click again to return to the original view.
- In step 4, you can also specify the section to copy by holding down the <Alt> key and clicking.
- For information on shortcut keys, refer to the "Shortcut List" (p.5-3).

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# Using Edits (Recipe Data)

Editing data that has been applied to RAW images (p.1-6 to p.1-9, p.2-3 to p.2-6) or editing data that has been applied to JPEG, TIFF, and RAW images (p.1-9 to p.1-12, p.2-6 to p.2-8) can be copied and applied to other images. Editing data can also be saved as a separate file containing editing data only and loaded into other images. In Digital Photo Professional, editing data is referred to as “recipe data”.

## Saving the Recipes

**1** Select an image and then select [Edit] menu ▶ [Save recipe in file].

→ The [Save As] dialog box appears.

**2** Select the destination folder, enter the file name, and then click the [Save] button.

- When you select [Save recipe in file], only recipe data (editing data) is saved as a separate file. If you wish to save the image to which the edits were applied, see “Saving Edited Images” (p.1-14).
- Image rotation (p.1-2), trimming (p.1-10) and image correction (repair, copy stamp) (p.1-11, p.1-12) are not included in recipe data.

## Loading and Pasting Recipes

**1** Select an image and then select [Edit] menu ▶ [Read recipe from file].

→ The [Open] dialog box appears.

**2** Select a recipe and click the [Open] button.

**3** Select an image to which the recipe will be applied and then select [Edit] menu ▶ [Paste recipe to selected photo].

- Editing data that can be performed on RAW images only (p.1-6 to p.1-9, p.2-3 to p.2-6) cannot be applied to JPEG and TIFF images. If you try to apply editing data that can be applied to all image types (JPEG, TIFF, or RAW images) (p.1-9 to p.1-12, p.2-6 to p.2-8) together with editing data that can be applied only to RAW images (p.1-6 to p.1-9, p.2-3 to p.2-6), and the target image is in JPEG or TIFF, only the editing data applicable to JPEG and TIFF is applied.

## Copying Recipes and Applying to Other Images

**1** Select the image from which a recipe will be copied and then select [Edit] menu ▶ [Copy recipe to clipboard].

→ The recipe is copied.

**2** Select the image to which the recipe will be applied and then select [Edit] menu ▶ [Paste recipe to selected photo].

→ The recipe is applied to the image.

- Image rotation (p.1-2), trimming (p.1-10) and image correction (repair, copy stamp) (p.1-11, p.1-12) are not included in recipe data.
- Editing data that can be performed on RAW images only (p.1-6 to p.1-9, p.2-3 to p.2-6) cannot be applied to JPEG and TIFF images. If you try to apply editing data that can be applied to all image types (JPEG, TIFF, or RAW images) (p.1-9 to p.1-12, p.2-6 to p.2-8) together with editing data that can be applied only to RAW images (p.1-6 to p.1-9, p.2-3 to p.2-6), and the target image is in JPEG or TIFF, only the editing data applicable to JPEG and TIFF is applied.

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# Reverting Edited Images to Their Original Condition

You can cancel all the edits for images, and revert the edited images to their original settings before being edited or when shots were taken.

## Reverting to Last Saved Settings

Select an image and then select [Adjustment] menu ▶ [Revert to last saved settings].

ⓘ If you select multiple images, all the edited images that you selected are reverted to the last saved settings.

## Reverting to Shot Settings

Select an image and then select [Adjustment] menu ▶ [Revert to shot settings].

ⓘ If you select multiple images, all the edited images that you selected are reverted to the shot settings.

# Saving Edited Images

You can apply edits to one or more images and save the edited images.

## Saving by Overwriting

You can apply edits to an image and overwrite the existing image.

Select an image and then select [File] menu ▶ [Add recipe and save].

## Saving and Renaming

You can apply edits to images and save the new images with another name.

**1** Select an image and then select [File] menu ▶ [Add recipe and save as].

→ The [Save As] dialog box appears.

**2** Select the destination folder, enter the file name, and then click the [Save] button.

## Adding a Thumbnail of the Image

You can create new thumbnails to use for display in the main window, and add to each image. The images will be displayed in the main window quicker and the quality of the images will increase.

Select the image and then select [File] menu ▶ [Add thumbnail to image and save].

ⓘ A large number of images may take some time to add.

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# Converting and Saving RAW Images while Renaming Them

You can convert edited RAW images to the TIFF or JPEG and save them with another name.

**1** Select an image and then select [File] menu ▶ [Convert and save].

→ The [Save As] dialog box appears.

**2** Specify the settings and click the [Save] button.

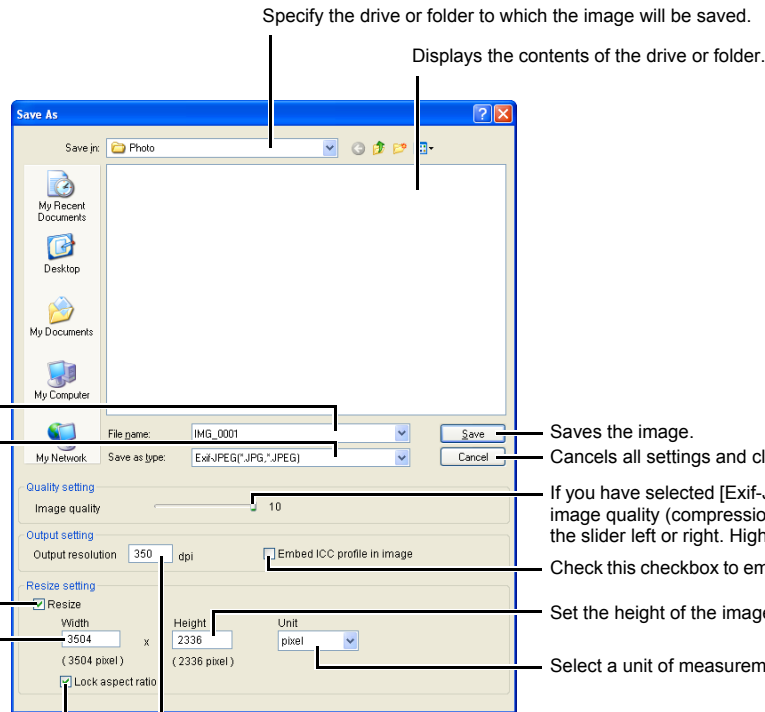


Image Type	Extension
Exif-JPEG	.JPG
Exif-TIFF 8bit	.TIF
TIFF 16bit	.TIF

Enter the name of the image to be saved.

Select an image type used when the image is saved. The image types and extensions used for the saved images are shown below.

Saves the image.

Cancels all settings and closes the window.

If you have selected [Exif-JPEG] in the [Save as type] list box, set the image quality (compression rate) with a range of 1 to 10 by dragging the slider left or right. Higher values give better JPEG image quality.

Check this checkbox to embed an ICC profile in the image to be saved.

Set the height of the image.

Select a unit of measurement.

Check this checkbox to change the size of the image to be saved.

Set the width of the image.

Specify a value between 1 and 60,000 dpi as the output resolution used for the image to be saved.

Check this checkbox to fix the vertical/horizontal ratio of the image.

If you have saved an image in which [Wide Gamut RGB], [Apple RGB] or [ColorMatch RGB] color space (p.1-9, p.1-21) has been specified, an ICC Profile is automatically embedded even if you have not checked [Embed ICC profile in image].

- You can save and rename images without editing them.
- [Resize setting] changes the image size by applying the larger numeric value set in "Width" or "Height" to the longer edge of the image, even when horizontal and vertical images are mixed together.
- When you have set the tone curve to [Linear] (p.2-6), select [TIFF 16bit] and save.

- The specified preferences (p.1-21) or individually specified color space (p.1-9) are added to the ICC profile embedded in TIFF or JPEG images. An ICC profile contains color information, such as color properties and color spaces of devices which are authorized by International Color Consortium (ICC). With this ICC profile, many color management systems can minimize the color differences between devices.

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# Converting and Saving Images in a Single Operation (Batch-processing)

You can save and rename multiple edited images in a single operation. You can also convert edited RAW images to JPEG or TIFF and save them in a single operation.

**1 Edit an image (p.1-6 to p.1-12).**

**2 Select images to be converted and saved in a single operation.**

**3 Click the [Batch process] button (p.1-2).**

- The [Batch settings] dialog box appears.
- Alternatively, you can display this dialog box by selecting [File] menu ▶ [Batch process].

**4 Specify the settings.**

**5 Click the [Execute] button.**

- The processing window appears, allowing images to be saved in a single operation.
- When processing is complete, the images are saved in the specified folder and the [Exit] button appears on the processing window.

**6 Click the [Exit] button.**

- You cannot save multiple images in a single operation unless you specify [Sequence number] when the [New file name] is selected for [File name].

- You can also save and rename multiple images without editing them in a single operation.
- [Resize setting] changes the image size by applying the larger numeric value set in "Width" or "Height" to the longer edge of the image, even when horizontal and vertical images are mixed together.
- The batch processing function is independent of other functions. Therefore, during batch saving, you can perform other operations in the main, edit, and edit image windows.

Select an image type used when the images are saved.  
For the image type and extension used when the image is saved, refer to the table in [Save as] (p.1-15).

The screenshot shows the 'Batch settings' dialog box with the following annotations:

- Save folder:** E:\Documents and Settings\Canon\My Documents\ (with a [Browse] button)
- File format:** Exif-JPEG (dropdown menu)
- Image quality:** 10 (slider)
- Output setting:** Output resolution: 350 dpi; Embed ICC profile:
- Resize setting:** Width: 3504; Height: 2338; Unit: pixel; Lock aspect ratio:
- File name:**
  - Current file name:
  - New file name: 
    - String: DPP\_
    - Sequence number: 0001
    - Save sequence number:
- Image transfer settings:** Open image using software:  (with a [Browse] button)
- Buttons:** [Execute] and [Cancel]

- If you have saved an image in which [Wide Gamut RGB], [Apple RGB] or [ColorMatch RGB] color space (p.1-9, p.1-21) has been specified, an ICC Profile is automatically embedded even if you have not checked [Embed ICC profile].

- The specified preferences (p.1-21) or individually specified color space (p.1-9) are added to the ICC profile embedded in TIFF or JPEG images. An ICC profile contains color information, such as color properties and color spaces of devices which are authorized by International Color Consortium (ICC). With this ICC profile, many color management systems can minimize the color differences between devices.

# Changing File Names in a Single Operation

You can change file names in a single operation.

- 1 Select the images for which you want to change the file names.**
- 2 Select the [Tools] menu ► [Start Rename tool].**  
→ The rename tool window appears.
- 3 Specify the settings and then click the [Execute] button.**  
→ The operation begins and the file names are changed.

Select an item to be set in the file name from each item.

Selects the extension.

Selects the order of the files.

Makes the file names of simultaneously recorded RAW and JPEG images the same (except for the extension).

Copies the image and changes the file name.

When [Copy\_Rename] is checked, specifies the save destination of the copied images.

The original file names are displayed.

You can store a set sequence number.

Selects the shot date and time format.

Enters an underbar.

The modified file names are displayed.

When setting the sequence number, enter the start number and the number of figures.

Modifies the file names.

Cancel all settings and closes the window.

Original File Name	Modified File Name
5F9Z0001.CR2	DPP_03-12-04_0001.CR2
5F9Z0001.JPG	DPP_03-02-14_0002.JPG
5F9Z0002.CR2	DPP_03-12-04_0003.CR2
5F9Z0003.CR2	DPP_03-12-04_0004.CR2
5F9Z0004.CR2	DPP_03-12-04_0005.CR2

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# Transferring Images to Image Editing Software

## Transferring One Image to Photoshop

You can transfer an image to Adobe Photoshop.

- 1 **Select the image to transfer to Photoshop.**
- 2 **Select [Tools] menu ▶ [Transfer to Photoshop].**
  - Photoshop starts up and displays the transferred image.
  - RAW images are converted to TIFF 16bit images before being transferred.

- In order to transfer images, you will need Adobe Photoshop.
- Compatible versions of Photoshop are CS and 7.0. You cannot transfer images to Photoshop Elements.
- One image can be transferred at a time. You cannot transfer multiple images at a time.
- When images are transferred, they are automatically converted to the TIFF 16bit images and the ICC profile is attached to each of them. The specified preferences (p.1-21) or individually specified work color space (p.1-9) information are added to the ICC profile, which allows Photoshop to display images including that color information.

## Transferring Multiple Images to Image Editing Software

You can transfer multiple images to image editing software. The description given here use Adobe Photoshop CS, as an example.

- 1 **Set convert/save in a single operation.**
  - Follow steps 1 to 4 of "Converting and Saving Images in a Single Operation (Batch-processing)" (p.1-16).
- 2 **Click [Browse] button in the [Batch settings] window.**
  - The [Open] window appears.
- 3 **Select the image editing software (Photoshop CS) to which you will transfer the images.**
  - Select [C:] drive ▶ [Program Files] ▶ [Adobe] ▶ [Photoshop CS] ▶ [Photoshop], and then click the [Open] button.
  - The [Open] window closes and Photoshop is set in [Transfer] in the [Batch settings] window.



- 4 **Check the [Open image using software].**
  - The processing window appears and saving in a single operation begins.
  - When saving in a single operation is completed, Photoshop starts up and the transferred images are displayed.
- 5 **Click the [Execute] button.**
  - The processing window appears and saving in a single operation begins.
  - When saving in a single operation is completed, Photoshop starts up and the transferred images are displayed.

- In order to transfer images, you will need image editing software such as Adobe Photoshop.



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# Printing Images

Images can be automatically adjusted and printed within the print range.

**1 Select an image and then select [File] menu ▶ [Print].**

**2 Select a printer to be used and then click the [OK] button.**

→ Printing begins.

- You can set a printer profile to be used for printing. You can select a rendering intent (matching method) when you have set the profile (p.1-21).
- If you have set CMYK simulation profile (p.1-21), the image is printed in a tone corresponding to the specified [CMYK simulation profile].

## Printing with Easy-PhotoPrint

Easy-PhotoPrint is printing software dedicated for Canon BJ printers.

If Easy-PhotoPrint 2.1 or later has been installed in your computer, you can print images with Easy-PhotoPrint.

**Select an image and then select [File] menu ▶ [Print with Easy-PhotoPrint].**

→ Easy-PhotoPrint starts up.

- Follow the instructions displayed on the Easy-PhotoPrint window to print images.

- To print images with Easy-PhotoPrint, you need Easy-PhotoPrint 2.1 or later and a Canon BJ printer that supports Easy-PhotoPrint 2.1 or later.
- The specified output resolution (p.1-20) and trimming (p.1-10) are not supported.
- The setting of CMYK simulation (p.1-21) is not supported.

You can set a rendering intent (matching method) when printing (p.1-21).

# Displaying Images in EOS Capture

Digital Photo Professional version 2.0 is compatible with EOS Capture version 1.1 or later. If you have EOS Capture version 1.1 or later installed on your computer, Digital Photo Professional displays the images shot with EOS Capture.

**1 Connect the camera to your computer and set the camera's power switch to <ON>.**

- When [CameraWindow] and other windows are displayed, close all the displayed windows.

**2 Select [Tools] menu ▶ [Start EOS Capture].**

→ EOS Capture starts up.

**3 Take a shot.**

- Click the [Shoot] button in EOS Capture or press the shutter button on the camera to take a shot.
- The shot image is displayed in the Digital Photo Professional main window.

When EOS Capture starts up, you can switch the Digital Photo Professional window automatically from the main window to the edit image window (p.1-20).

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# Specifying Preferences

You can specify various settings for Digital Photo Professional.

## 1 Select [Tools] menu ▶ [Preferences].

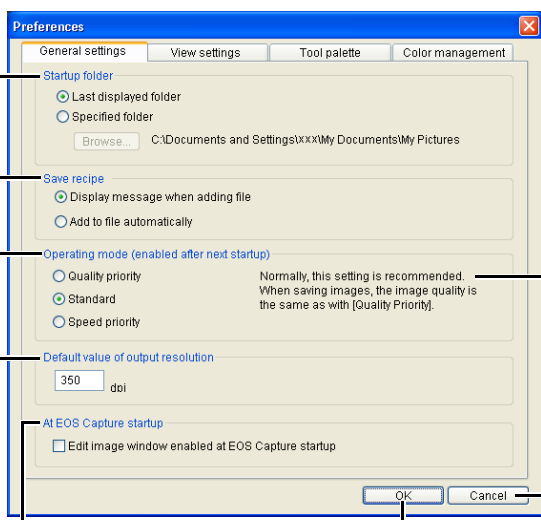
→ The [Preferences] dialog box appears.

## 2 Select the desired tab, specify the settings, and then click the [OK] button.

→ The settings are applied and the [Preferences] dialog box closes.

Allows you to select whether the edited image is saved automatically or the confirmation dialog box is displayed, when you exit Digital Photo Professional or change images displayed in the main window to the ones in another folder.

Allows you to select whether the folder that was open the last time is displayed or the specified folder is always displayed when Digital Photo Professional starts up.



Displays the description of [Operating mode].

If you check this checkbox, the edit image window is displayed automatically when you start up EOS Capture.

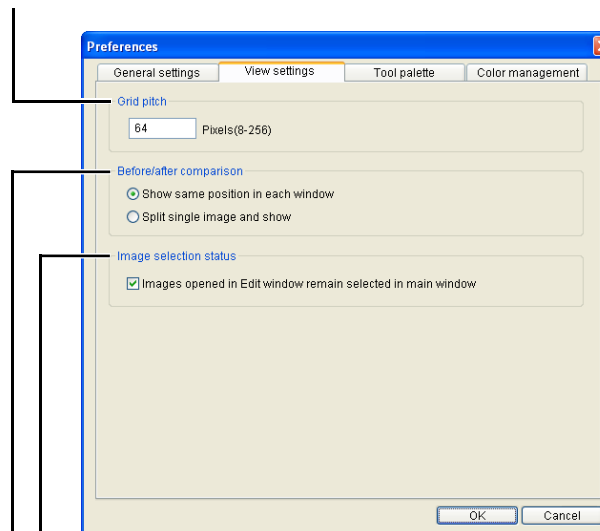
Applies the settings and closes the window.

Allows you to set the output resolution default value from 1 to 60,000 dpi when RAW images are converted to JPEG or TIFF images and saved.

Specify the image quality for displaying or saving images.

- [Quality priority] : Images are displayed and saved with maximum quality because additional filter processings are applied. However, it takes more time to display or save images.
- [Standard] : Images are displayed at maximum speed with no additional filter processing. Images are saved at the same quality as [Quality priority].
- [Speed priority] : Images are displayed and saved at maximum speed because no additional filter processing is applied.

Allows you to specify the grid spacing in a range of 8 to 256 pixels used when the grid lines (p.2-3) are displayed in the edit window or the edit image window.



If you check this checkbox, an image opened in the edit window will appear selected in the main window.

Select the display mode for displaying the edited and original images for comparison in the edit or edit image window (p.2-3).

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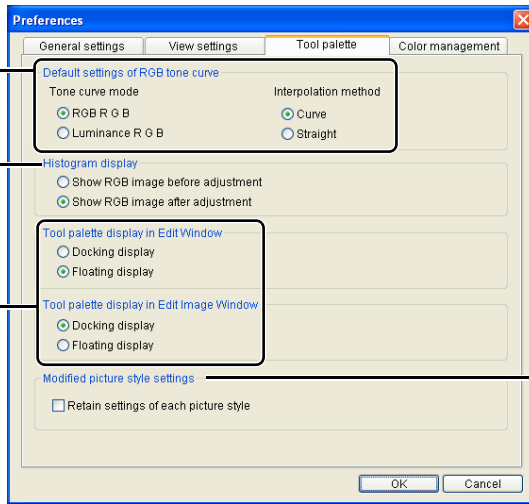
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Allows you to select the histogram displayed in the [RGB image adjustment] tab sheet on the tool palette.

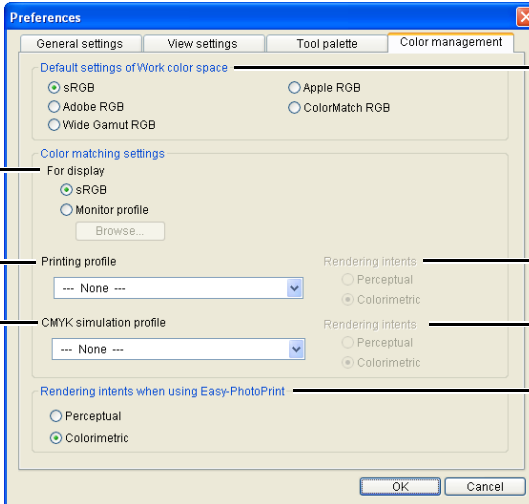
Select [Tone curve mode] (tone curve display), [Interpolation method] (tie method) displayed in the [RGB image adjustment] tab sheet on the tool palette (p.2-7).



Check to preserve [Hue], [Saturation] and [Sharpness] set for each Picture Style item (p.2-5, p.2-6).

Allows you to select whether the tool palette is displayed as [Docking display] (within the window) or [Floating display] (another window).

Select a color space for the monitor. If you select the [Monitor profile], click the [Browse] button and select a profile for the used monitor.



Select a work color space from 5 kinds of color space.

Select a rendering intent (matching method) when a printing profile has been set.

Select a rendering intent (matching method) when a CMYK simulation profile has been set. Select a rendering intent (matching method) for printing with Easy-PhotoPrint (p.1-19).

Select a CMYK simulation profile to be used in CMYK simulation. The image is displayed in the colors of the selected profile and you can simulate the color used when you print in a CMYK environment such as that of a printer. With this setting, [CMYK] is displayed at the bottom of each window (p.1-2, p.2-2, p.3-1). The CMYK simulation display can be temporarily canceled in the edit window (p.2-2) and the edit image window (p.3-1) by holding down the <Ctrl> + <Y> keys on the keyboard.

Select a printer profile to be used for printing images (p.1-19).

- When you restart Digital Photo Professional after changing [Default settings of RGB tone curve] in the [Tool palette] tab sheet or [Default settings of Work color space] in the [Color management] tab sheet, the setting content is applied. However, the setting content is not applied to an image which has been edited before a change was made (p.1-9 to p.1-12, p.2-6 to p.2-8) and which has a [RGB] mark displayed (p.1-3). Change an individual tone curve with the menu (p.2-7) that appears by right-clicking on the tone curve, and an individual color space by selecting the [Adjustment] menu ► [Work color space] (p.1-9).
- To select a monitor or printer profile, you need to have previously installed the monitor and printer profiles to be used on the computer. For details on the monitor and printer profiles to be used, refer to the user manual of each device.

- The specified color space is added to the ICC profile that is embedded in TIFF or JPEG images that have been converted from RAW images and saved (p.1-15, p.1-16). A color space is the reproducible color range (the characteristics of color gamut). Digital Photo Professional supports the following 5 kinds of color space.

**sRGB** : Standard color space for Windows. Widely used for the standard color space of monitors, digital cameras, and scanners.

**Adobe RGB** : A wider color space than sRGB. Mainly used for printing for business purposes.

**Wide Gamut RGB** : A wider color space than Adobe RGB.

**Apple RGB** : Standard color space for Macintosh. A slightly wider color space than sRGB.

**ColorMatch RGB** : A slightly wider color space than sRGB. Mainly used for printing for business purposes.

- You can select a rendering intent (matching method) from [Perceptual] or [Colorimetric] for color conversion when printing an image.
  - Perceptual** : Matching method generally suited to natural images such as photographs which minutely expresses intermediate colors such as skin tones and the blue of the sky.
  - Colorimetric** : Matching method generally suited to graphic-type images such as photographs which expresses an image in the vivid primary colors of red, blue and yellow.

- With [CMYK simulation profile], you can simulate the color used when you print in a CMYK environment such as that of a printer. Digital Photo Professional is compatible with the following 4 types of printing profiles.

**Euro Standard v1.00** : Profile normally used for book printing in Europe, suitable for simulation of standard European printing.

**JMPA v1.10** : Profile normally used for book printing, etc. in Japan, suitable for simulation of magazine advertising standard color printing.

**U.S. Web Coated v1.00** : Profile normally used for book printing in North America, suitable for simulation of North American standard printing.

**JapanColor2001 type3** : Profile becoming a standard in the Japanese printing industry, suitable for simulation of JapanColor standard printing.

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# 2 Performing Detailed Edits in the Edit Window

This chapter describes the functions of the edit window, and how to display images and perform detailed edits on them.

This chapter describes the functions that you can operate in the edit window only. For instructions on operating the functions common to those in the main window, refer to the page described with each item.

- Click on the item to display its page.
- Displaying the Edit Window** ..... 2-2
- Selecting the Image Display Mode**..... 2-3
  - Selecting the Display Size ..... 2-3
  - Displaying the Grid Lines ..... 2-3
  - Displaying the Edited Image and the Original at the Same Time ..... 2-3
- Editing RAW Images** ..... 2-3
  - Adjusting the Brightness ..... 2-3
  - Adjusting the White Balance ..... 2-4
  - Setting Picture Style..... 2-5
- Editing Images** ..... 2-6
  - Adjusting the Tone Curve ..... 2-7

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# Displaying the Edit Window

You can enlarge a single image and perform detailed edits on it in the edit window. You can display multiple edit windows and edit them while comparing each of them (up to 36 images can be displayed).

- This chapter describes the functions that you can operate in the edit window only. For instructions on operating the functions common to those in the main window, refer to the page described with each item.

## Double-click a thumbnail image in the main window.

- The edit window appears.
- A low resolution image is displayed first in the edit window, and then it switches to a high resolution image.
- Alternatively, you can display this window by selecting [File] menu ▶ [Open in Edit window].

## Edit Window

Menu bar

Displays the [File], [Edit], [View], [Adjustment], [Tools], [Window], and [Help] menus.

The path for the image and file name are displayed.

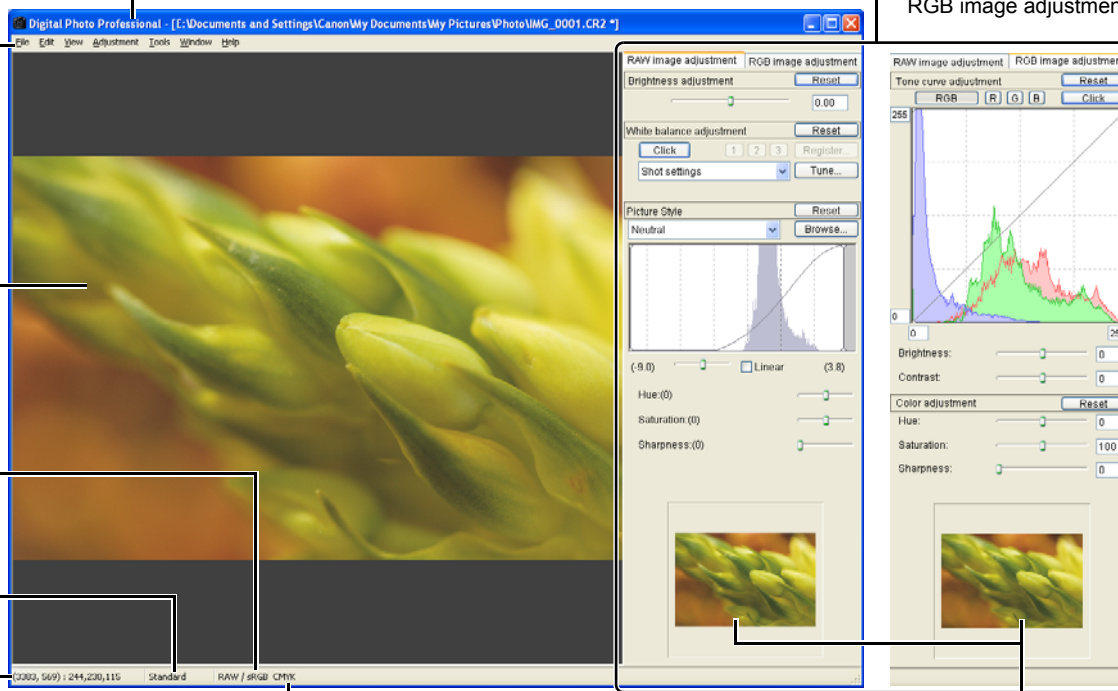


Image display area

Displays the color space ([RAW] is displayed for RAW images) of the image position and the RGB values (8-bit conversion) of an image.

Displays the operation mode (p.1-20).

Displays the coordinates of the cursor position and the RGB values (8-bit conversion) of an image.

When you set CMYK simulation profile (p.1-21), [CMYK] is displayed. The CMYK simulation display can be canceled temporarily by holding down the <Ctrl> + <Y> keys on the keyboard.

Tool Palette

RAW image adjustment tab sheet (p.2-3)  
RGB image adjustment tab sheet (p.2-6)

If you set the tool palette to [Docking display] (p.1-21) and make the edit window large, a thumbnail of the image will be displayed. (When the tool palette is set to [Floating display] (p.1-21), the thumbnail image is always displayed.) The enlarged display position is displayed on the thumbnail and you can move the display position by dragging.

- To display or hide the tool palette, select the [View] menu ▶ [Tool palette].
- If you have multiple edit windows displayed, you can display a sequence of the edit windows by selecting [Window] menu ▶ [Arrange horizontally] or [Arrange vertically].
- To exit the edit window, select [File] menu ▶ [Close].



For some images, it may take some time to switch to the high resolution image.



- You can select whether the tool palette is displayed as another window or displayed within the same window (p.1-21).
- For information on shortcut keys, refer to the "Shortcut List" (p.5-2).

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# Selecting the Image Display Mode

You can change the size and method in which images are displayed.

## Selecting the Display Size

You can select the image size from [Fit to window] (Fitting to the image display area), [50% view], [100% view] (actual pixel size), and [200% view].

### Select [View] menu ▶ Select the size to be set.

- The image is displayed in the selected size.
- When you display an image in a larger size, you can change the display position by dragging the image.

In the [Fit to window] display, if you double-click a section you want to enlarge, the display changes to the [100% view] display. If you double-click on the image in the [50% view], [100% view] or [200% view] display, the display changes to the [Fit to window] display.

## Displaying the Grid Lines

You can display grid lines that allow you to check the horizontal or vertical level of the image.

### Select [View] menu ▶ [Grid lines].

- Grid lines are displayed on the image.
- Performing the same operation again hides the grid lines.

You can specify the grid spacing (p.1-20).

## Displaying the Edited Image and the Original at the Same Time

You can display the edited image and the original at the same time.

### Select [View] menu ▶ [Before/after comparison].

- A split window with the image before and after editing is displayed.

The way the image is displayed can be changed (p.1-20).

## Changing the Display Position

You can also tile images vertically.

### Select [View] menu ▶ [Change up/down/left/right].

- Performing the same operation again tiles images horizontally.

# Editing RAW Images

You can perform more detailed edits on RAW images that are supported by Digital Photo Professional, than in the main window. With RAW image editing (p.2-3 to p.2-6), there is hardly any of the deterioration which accompanies image editing. You can therefore edit an image multiple times while preserving the image quality at the time the image was shot.

## 1 Display the RAW image in the edit window (p.2-2).

- When multiple images are displayed, click the image for which you wish to edit to place it in the top window.

## 2 Select the [RAW image adjustment] tab on the tool palette.

- The [RAW image adjustment] tab sheet appears.



## 3 Edit the RAW images (p.2-3 to p.2-6).

- You can apply edits to other images by copying and pasting the edit data to the other images (p.1-13).
- You can revert edited images to the last saved settings or shot settings (p.1-14).

## 4 Compare the edited image with the original (see left).

## 5 Save the edited image (p.1-14).

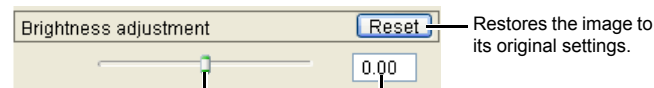
- You cannot edit PowerShot Pro1 RAW images.
- Before exiting Digital Photo Professional, you must save the edited images (p.1-14).

The editing data can be saved in a separate file (p.1-13).

## Adjusting the Brightness

You can adjust the brightness in the range of -2.0 to +2.0 (in 0.01-stop increments when entering a value).

### Adjust an image while viewing it.



Drag the slider left or right to adjust the brightness.

Enter a value to adjust the brightness.

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# Adjusting the White Balance

You can set the white balance with each method.

## Selecting the White Balance (p.1-7)

You can set the white balance.

## Specifying the Color Temperature (p.1-7)

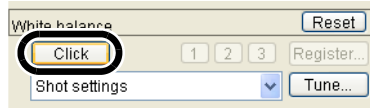
You can specify the color temperature in the range of 2800 to 10000K (in 100K increments).

## Click White Balance Function

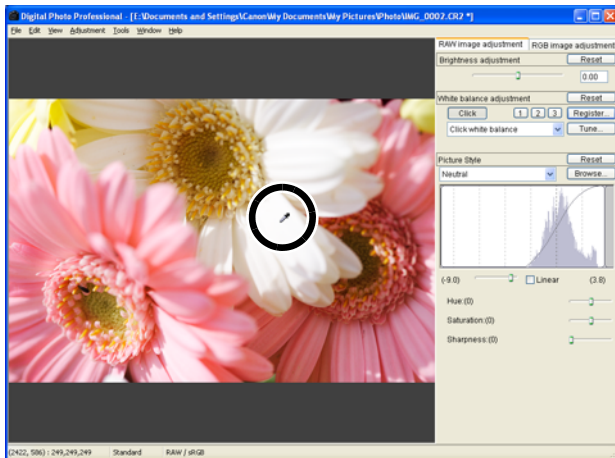
Makes white the standard for the point you selected and color in the image is adjusted.

### 1 Click the [Click] button.

→ When you move the cursor over the image, the cursor [↔] changes to [↔].



### 2 Click the point where is to be the standard.



- The color in the image is adjusted with white as the standard on the point you selected.
- If you click on another point over the image, the white balance is adjusted again.
- When you finish this operation, click the [Click] button or right-click.

- The image is adjusted based on the average value of the range of 5 × 5 pixels from the clicked point.
- Even if you have selected a neutral gray point of the image, the result of adjustments is the same as when you select a white point.

## Adjusting with the Color Wheel (p.1-8)

You can select a desired color from the color wheel. You can also specify the hue in the range of 0 to 359 (in 1-stop increments), and the saturation in the range of 0 to 255 (in 1-stop increments).

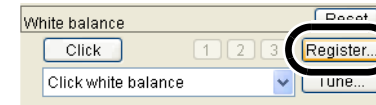
## Registering Adjusted White Balance (Personal White Balance)

You can register up to 3 adjusted white balance data as personal white balance settings.

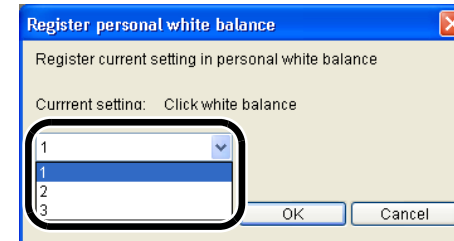
### 1 Adjust the white balance.

### 2 Click the [Register] button.

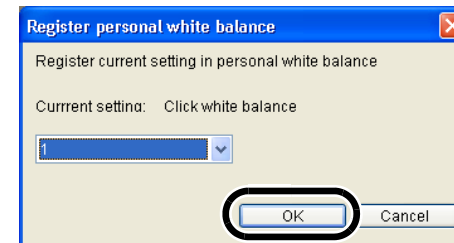
→ The [Register personal white balance] dialog box appears.



### 3 Select the number of the button to be registered from the list.



### 4 Click the [OK] button.



## Personal White Balance (p.1-8)

You can apply the registered personal white balance to images.

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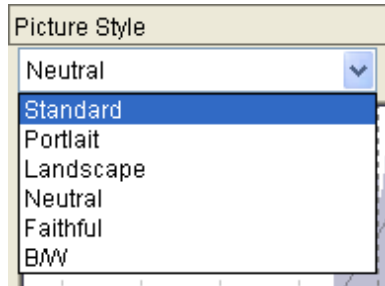


# Setting Picture Style

## Selecting a Picture Style

You can set the Picture Style.

Select a Picture Style from the list box.

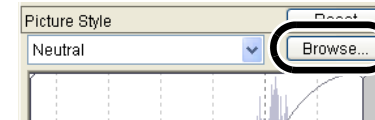


Standard	The image looks vivid, sharp, and crisp.
Portrait	For nice skin tones. The image looks slightly sharp and crisp. By changing the [Hue] (p.2-6), you can adjust the skin tone.
Landscape	For vivid blues and greens, and very sharp and crisp images.
Neutral	For natural colors and subdued images. No sharpness is applied.
Faithful	When the subject is photographed under a color temperature of 5200K, the color is adjusted colorimetrically to match the subject's color. No sharpness is applied.
B/W	For black-and-white images.
(Picture Style file set in the camera)	Displayed when selecting an image shot with Picture Style file set in the camera. In the list, the caption name of the Picture Style file set in the camera is displayed with ( ) attached.
[loaded Picture Style file]	The Picture Style loaded by clicking the [Browse] button is applied. In the list, the caption name of the Picture Style file loaded by clicking the [Browse] button is displayed with [ ] attached.

## Applying a Picture Style file

You can load and apply to images Picture Style files downloaded from Canon's web site and saved on your computer.

- 1 Click the [Browse] button.  
→ The [Open] window is displayed



- 2 Select a Picture Style file and click the [Open] button.  
→ The Picture Style file is loaded.

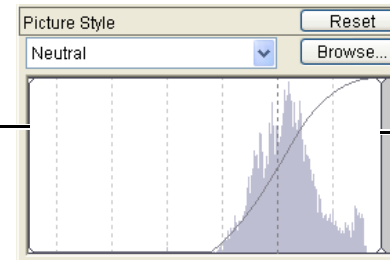
- 3 Select loaded Picture Style file from the list box.  
→ The loaded Picture Style file is applied to the image.

A Picture Style file is a file that expands the Picture Style function. For detailed information on Picture Style files, refer to Canon's web site.

## Adjusting the Shadow and Highlight Points

You can specify the shadow point (the darkest point) and highlight point (the brightest point) to adjust the gradation of images.

Adjust an image while viewing it.



When you move the cursor to the left edge of the graph, the cursor [↔] changes to [↔←]. Drag the slider right to adjust the shadow point.

When you move the cursor to the right edge of the graph, the cursor [↔] changes to [↔→]. Drag the slider left to adjust the highlight point.

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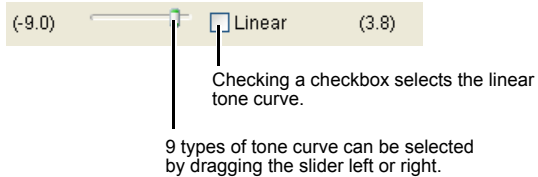
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## Selecting the Tone Curve

You can select the tone curve.

### Select a tone curve while viewing the image.



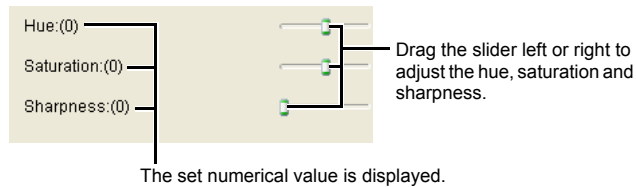
You can select [Linear] when you wish to adjust the image separately in image editing software such as Photoshop.

## Adjusting the Hue, Saturation and Sharpness

The hue and saturation can be adjusted in the range of -4 to +4 (in 1-step increments), and sharpness in the range of 0 to 10 (in 1-step increments).

Also, when [B/W] is selected from the [Picture Style] list box (p.2-5), you can select from 5 types of [Filter effect] displayed ([None], [Yellow], [Orange], [Red], [Green]), and 5 types of [Toning effect] ([None], [Sepia], [Blue], [Purple], [Green]).

### Adjust an image while viewing it.



# Editing Images

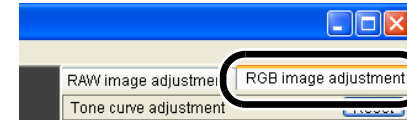
You can perform various edits on the RAW, JPEG, and TIFF images that are supported by Digital Photo Professional.

## 1 Display the image in the edit window (p.2-2).

- When multiple images are displayed, click the image for which you wish to edit to place it on the top window.

## 2 Select the [RGB image adjustment] tab on the tool palette.

- The [RGB image adjustment] tab appears.



## 3 Edit the image (p.2-7, p.2-8).

- You can apply edits to other images by copying and pasting the edit data to the other images (p.1-13).
- You can revert edited images to the last saved settings or shot settings (p.1-14).

## 4 Compare the edited image with the original (p.2-3).

## 5 Save the edited image (p.1-14).

Before exiting Digital Photo Professional, you must save the edited images (p.1-14).

The editing data can be saved in a separate file (p.1-13).

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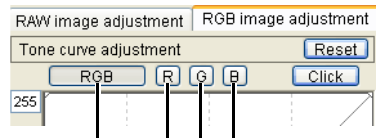


## Adjusting the Tone Curve

A tone curve shows the brightness and color saturation for the original image (input) and the adjusted image (output) in the form of a line graph. You can use the tone curve to adjust the image brightness and color saturation values that were set by the camera automatically when the shot was taken. Also, you can adjust the input and output of the entire image in a single operation, or individually adjust the input and output of [R] (Red), [G] (Green) and [B] (Blue). The horizontal axis shows the brightness and color saturation for the original image (input) image, with the left-hand end indicating shadow (darker areas of the image) and the right-hand end indicating highlights (brighter areas of the image). The vertical axis shows the brightness and color saturation for the adjusted image (output), with the lower end indicating shadow and the upper end indicating highlights.

### Adjusting the Tone Curve

#### 1 Click the button to select a channel.



The same settings are applied to all RGB channels.

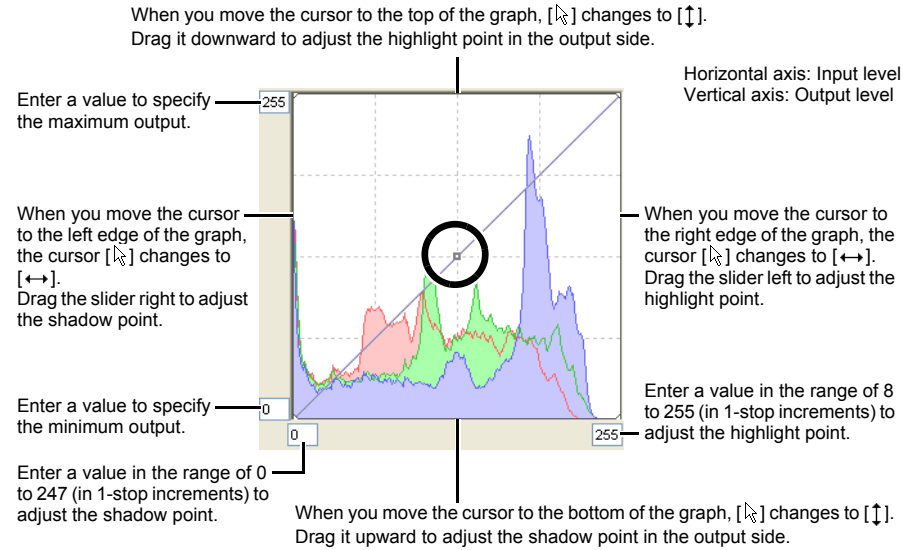
The settings are applied to the G channel.

The settings are applied to the R channel.

The settings are applied to the B channel.

#### 2 Adjust the tone curve.

- Clicking the tone curve shows [□] on the tone curve. Drag [□] to your desired location.
- You can specify up to 8 points of [□].
- Double-clicking [□] or pressing the <Delete> key on the keyboard deletes it.



The minimum number of steps between the shadow point and the highlight point is 8.

You can change the tone curve interpolation method (Curve/Straight) or tone curve modes (RGB R G B/Luminance R G B) from the menu that appears by right-click on a tone curve, or from the [Tool palette] tab sheet in the [Preferences] dialog box (p.1-21).

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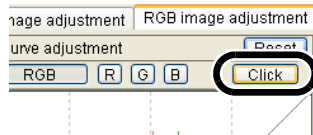


## Click White Balance Function

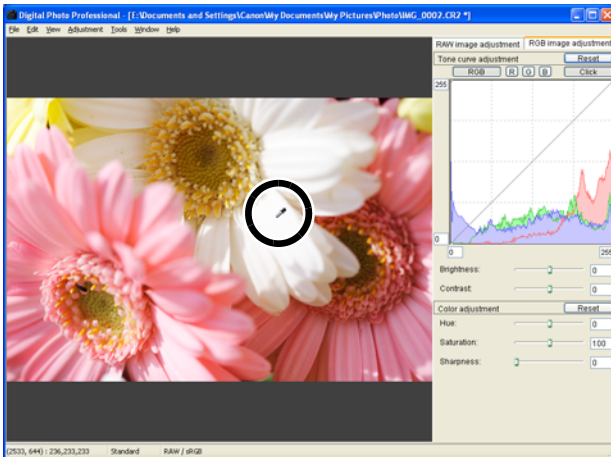
Makes white the standard for the point you selected and color in the image is adjusted.

### 1 Click the [Click] button.

→ When you move the cursor over the image, the cursor [↔] changes to [↔].



### 2 Click the point where is to be the standard.



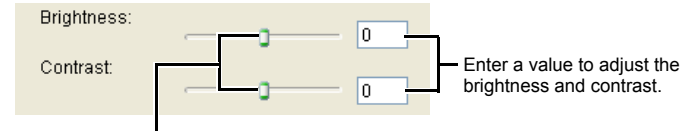
- The color in the image is adjusted with white as the standard on the point you selected.
- If you click on another point over the image, the white balance is adjusted again.
- When you finish this operation, click the [Click] button or right-click.

- The image is adjusted based on the value of 1 × 1 pixels from the clicked point.
- Even if you have selected a neutral gray point of the image, the result of adjustments is the same as when you select a white point.

## Adjusting the Brightness and Contrast

You can adjust the brightness and contrast in the range of -100 to +100 (in 1-stop increments when entering a value).

### Adjust an image while viewing it.

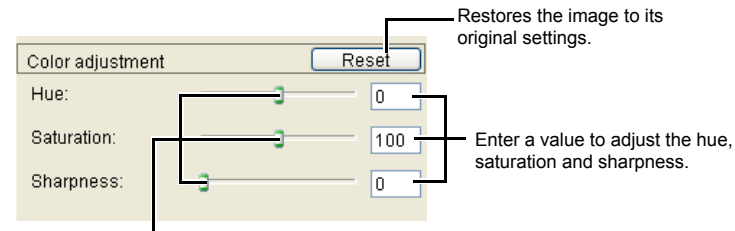


Drag the slider left or right to adjust the brightness and contrast.

## Adjusting the Hue, Saturation and Sharpness

You can adjust the hue in the range of -30 to +30 (in 1-step increments when entering a value), the saturation in the range of 0 to 200 (in 1-step increments when entering a value) and the sharpness in the range of 0 to 500 (in 1-step increments when entering a value).

### Adjust an image while viewing it.



Drag the slider left or right to adjust the hue, saturation and sharpness.

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# 3

# Performing Detailed Edits in the Edit Image Window

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In the edit image window, you can select one image from multiple images and perform detailed edits on the selected image.

- The functions of the edit image window are the same as those of the main window (chapter 1) and of the edit window (chapter 2). For detailed instructions on operating these functions, refer to the page described with each item.

## 1 Select multiple images in the main window.

## 2 Click the [Edit image window] button.

- The main window switches to the edit image window.
- The image clicked in the thumbnail image display area is displayed in the image display area.
- A low resolution image is displayed first, and then it switches to a high resolution image.
- Alternatively, you can display this window by selecting [View] menu ▶ [Edit in Edit image window].

- The edit image window switches to the main window.
- Shows/hides the thumbnail image display area.
- Shows/hides the tool palette.
- Displays grid lines on the selected image.
- Fits the image in the window.
- Scales down the image 50%.
- Thumbnail image display area
- Image display area
- When you display an image in a larger size, you can change the display position by dragging the image.

- Displays the color space ([RAW] is displayed for RAW images) of the image and the work color space (p.1-9, p.1-21).
- Displays the coordinates of the cursor position and the RGB values (8-bit conversion) of an image.

- Select the [View] menu ▶ [Change thumbnail position] to change the position of the thumbnail image display area.
- To delete an image from the thumbnail image display area, select the [File] menu ▶ [Delete from list].
- To exit the edit image window, click the [Main window] button.

For some images, it may take some time to switch to the high resolution image.

## Edit Image Window

The screenshot shows the Edit Image Window interface. Labels point to various parts of the window:

- Menu bar:** Displays the [File], [Edit], [View], [Adjustment], [Tools], and [Help] menus.
- Path and file name:** The path for the image and file name are displayed.
- Toolbar:** Contains icons for navigation and editing.
  - Rotates the selected image 90° to the left or right.
  - Saves all the images in a single operation (p.1-16).
- View Modes:**
  - Displays the image at 100% (actual pixel size).
  - Scales up the image 200%.
  - Selects the previous image.
  - Selects the next image.
- Tool Palette:**
  - RAW image adjustment tab sheet (p.2-3)
  - RGB image adjustment tab sheet (p.2-6)
- Thumbnail Display Area:** Shows a list of image thumbnails.
- Image Display Area:** Shows the selected image in a large view.
- Status Bar:** Displays the operation mode (p.1-20), color space (RAW/RGB/CMYK), and cursor coordinates/RGB values.

- You can select whether the tool palette is displayed as another window or displayed within the same window (p.1-21).
- For information on shortcut keys, refer to the "Shortcut List" (p.5-2).



# 4 Displaying an Image in the Quick Check Window

In the quick check window, enlarged images are displayed and they can be quickly viewed and checked.

1 Select multiple images in the main window.

2 Select the [Tools] menu ▶ [Start Quick check tool].

→ The quick check window appears.

3 View and check the images.

4 Click the [OK] button.

**Quick Check Window**

The screenshot shows a window titled "11/16 E:\Documents and Settings\Canon\My Documents\My Pictures\Photo\IMG\_0001.CR2". The window contains a large image of a yellow flower bud. To the right of the image is a control panel with the following elements and annotations:

- 50% view**: Scales down the image 50%. If you have set [50% view], you can change the display position of an image by dragging the image.
- Full screen**: Displays the full screen. To return to the original view, click this button again or press the <Esc> key on the keyboard. To switch between full screen display/normal screen display, press the <F11> key or the <Alt> + <Enter> keys on the keyboard.
- Check mark**: Selects and sets a number from 3 types of check marks. Includes buttons for 1, 2, and 3.
- Clear**: Removes all the check marks.
- Rotate left** and **Rotate right**: Rotates the image 90° to the left or right.
- Previous**: Displays the previous image.
- Next**: Displays the next image.
- OK**: Applies specified settings to the image and closes the quick check window.

Annotations on the left side of the window:

- The path for the image and file name are displayed.** (points to the title bar)
- Displays a set check mark number.** (points to a small icon in the top-left corner)
- Image display area** (points to the main image)

- You can also specify each setting or switch between full screen/normal screen from the menu that appears when you right-click on the window.
- For information on shortcut keys, refer to the "Shortcut List" (p.5-3).

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This chapter provides troubleshooting, the instructions on uninstalling Digital Photo Professional, and shortcut key list to allow you to use Digital Photo Professional easily.

## Troubleshooting

If you could not complete the installation correctly, Digital Photo Professional does not work, or you could not display images with Digital Photo Professional, consult the items described below.

### Could not complete installation correctly.

- **Are you using Windows XP under a setting other than [Computer administrator] or using Windows 2000 under a setting other than [Administrator]?**
  - You cannot install software if a user setting other than [Computer administrator] or [Administrator] is selected. Select the [Computer administrator] user setting in Windows XP or the [Administrator] user setting in Windows 2000. For detailed information on selecting the user setting, refer to the manuals supplied with your computer.
- **Is there sufficient hard disk space?**
  - 256 MB or more of hard disk space is required.

### Digital Photo Professional does not work.

- **Does your computer meet the system requirements for Digital Photo Professional?**
  - Check the system requirements (p.0-2).
- **Is there enough RAM (memory)?**
  - Check the system requirements (p.0-2).
- **Is the screen resolution less than [1024 by 768 pixels]?**
  - Specify [1024 by 768 pixels] or more for the screen resolution (p.0-2).
- **Is the color quality less than [Medium (16 bit)]?**
  - Specify [Medium (16 bit)] or more for the color quality (p.0-2).
- **Are multiple applications running?**
  - Exit any applications other than Digital Photo Professional. Even if your computer has the RAM capacity (memory) described in system requirements (p.0-2), if other application is running at the same time as Digital Photo Professional, you may not have sufficient RAM (memory).

### Could not display images with Digital Photo Professional.

- **Did you try to display images other than the image types that are supported by Digital Photo Professional?**
  - Check the supported images (p.0-2).

- Click on the item to display its page.

**Shortcut Key List** ..... 5-2

**Index** ..... 5-4

## Uninstalling the Software

Follow the procedure below to uninstall Digital Photo Professional.

- Exit any applications before uninstalling Digital Photo Professional.
- Log in using [Computer administrator] user setting in Windows XP or [Administrator] user setting in Windows 2000.
- To prevent computer malfunctions, always restart your computer after you have uninstalled Digital Photo Professional. Re-installing the software without first restarting your computer is particularly likely to result in computer malfunctions.

### 1 Select the [Start] button ▶ [Control Panel] ▶ [Add or Remove Programs].

- For Windows 2000, select the [Start] button ▶ [Settings] ▶ [Control Panel] ▶ double-click the [Add/Remove Programs] icon.
- The [Add or Remove Programs] dialog box (the [Add/Remove Programs] dialog box in Windows 2000) appears.

### 2 Select [Canon Utilities Digital Photo Professional x.x] from the software list, and then click the [Change/Remove] button.

- “x.x” represents the version of Digital Photo Professional.
- Confirm that [Change or Remove Programs] is selected.
- The [Add or Remove Programs] dialog box (the [Add/Remove Programs] dialog box in Windows 2000) appears.

### 3 Click the [OK] button.

- Digital Photo Professional is uninstalled.

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# Shortcut Key List

## Main Window

Operation	Key	Operation	Key
Open in Edit window	Ctrl + O	Select check mark3 photos only	Ctrl + Alt + 3
Add recipe and save	Ctrl + S	Edit in Edit image window	Ctrl + Right Arrow
Add recipe and save as	Ctrl + Shift + S	Large thumbnail	Ctrl + 1
Add Thumbnail to images and save	Ctrl + Shift + T	Middle thumbnail	Ctrl + 2
Convert and save	Ctrl + D	Small thumbnail	Ctrl + 3
Batch process	Ctrl + B	Thumbnail with information	Ctrl + 4, Ctrl + 0
Print	Ctrl + P	Rotate Left	Ctrl + L
Print with Easy-PhotoPrint	Ctrl + E	Rotate Right	Ctrl + R
Delete	DEL	Add check mark1	Alt + 1
Info display	Ctrl + I	Add check mark2	Alt + 2
Exit	Alt + F4	Add check mark3	Alt + 3
Cut	Ctrl + X	Remove check mark	Alt + Z
Copy	Ctrl + C	Start EOS Capture	Alt + O
Paste	Ctrl + V	Transfer to Photoshop	Alt + P
Select All	Ctrl + A	Start Quick check tool	Alt + Q
Clear All	Ctrl + Shift + A	Start Trimming tool	Ctrl + N, Alt + C
Select RAW photos only	Ctrl + Alt + A	Start Stamp tool	Alt + S
Select check mark1 photos only	Ctrl + Alt + 1	Start Rename tool	Alt + R
Select check mark2 photos only	Ctrl + Alt + 2	Preferences	Ctrl + K

## Edit Window

Operation	Key	Operation	Key
Add recipe and save	Ctrl + S	Rotate Left	Ctrl + L
Add recipe and save as	Ctrl + Shift + S	Rotate Right	Ctrl + R
Convert and save	Ctrl + D	Add check mark1	Alt + 1
Print	Ctrl + P	Add check mark2	Alt + 2
Info display	Ctrl + I	Add check mark3	Alt + 3
Close	Ctrl + W, Alt + F4	Remove check mark	Alt + Z
Show/hide Tool palette	Ctrl + T	Transfer to Photoshop	Alt + P
Fit to window	Ctrl + 4, Ctrl + 0	Start Trimming tool	Ctrl + N, Alt + C
50% view	Ctrl + 1	Start Stamp tool	Alt + S
100% view	Ctrl + 2	Preferences	Ctrl + K
200% view	Ctrl + 3	Cancel CMYK simulation (only functions while holding down the keys)	Ctrl + Y

## Edit Image Window

Operation	Key	Operation	Key
Add recipe and save	Ctrl + S	200% view	Ctrl + 3
Add recipe and save as	Ctrl + Shift + S	Rotate Left	Ctrl + L
Convert and save	Ctrl + D	Rotate Right	Ctrl + R
Batch process	Ctrl + B	Add check mark1	Alt + 1
Print	Ctrl + P	Add check mark2	Alt + 2
Print with Easy-PhotoPrint	Ctrl + E	Add check mark3	Alt + 3
Delete from list	Alt + DEL	Remove check mark	Alt + Z
Info display	Ctrl + I	Start EOS Capture	Alt + O
Exit	Ctrl + W, Alt + F4	Transfer to Photoshop	Alt + P
Return to main window	Ctrl + Left Arrow	Start Trimming tool	Ctrl + N, Alt + C
Show/hide Tool palette	Ctrl + T	Start Stamp tool	Alt + S
Fit to window	Ctrl + 4, Ctrl + 0	Preferences	Ctrl + K
50% view	Ctrl + 1	Cancel CMYK simulation (only functions while holding down the keys)	Ctrl + Y
100% view	Ctrl + 2	-	-

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## Quick Check Window

Operation	Key	Operation	Key
50% view	Ctrl + 1	Remove all check marks	Alt + Z, Z*
Fit to Window	Ctrl + 4	Switch check marks	V
Switch between full screen/normal screen	Ctrl + T, Alt + Enter, F11	Rotate Left	Ctrl + L
Switch back to normal screen	Esc	Rotate Right	Ctrl + R
Add check mark1	Alt + 1, 1*	Display the previous image	Ctrl + Left Arrow, Page Up, Left Arrow
Add check mark2	Alt + 2, 2*	Display the next image	Ctrl + Right Arrow, Page Down, Right Arrow,
Add check mark3	Alt + 3, 3*	Close the quick check window	Alt + S

\* Only functions when in full screen.

## Trimming Window

Operation	Key	Operation	Key
Switch between full screen/normal screen	Alt + Enter, F11	Save the settings and close the trimming window	Alt + S
Switch back to normal screen	Esc	Reset the trimming range	Shift + Delete
Close the trimming window without saving the settings	Ctrl + W, Alt + F4	Move the trimming range	Up, Down, Left and Right Arrows
Display the previous image	Ctrl + Left Arrow	Enlarge/reduce the trimming range	Shift + Up, Down, Left and Right Arrows
Display the next image	Ctrl + Right Arrow	Set the level of opacity (Up: Brighter, Down: Darker)	Wheel up/down
Copy the trimming range	Ctrl + C	Image display (Up: Display the previous image, Down: Display the next image)	Ctrl + Wheel up/down
Paste the trimming range	Ctrl + V	Display the previous image	Page Up
Undo the trimming settings	Ctrl + Z	Display the next image	Page Down

## Copy Stamp Window

Operation	Key	Operation	Key
Switch between full screen/normal screen	Alt + Enter, F11	Redo all the corrections	Ctrl + Shift + Y
Switch back to normal screen	Esc	Undo the previous action	Ctrl + Z
Close the stamp tool window without applying the content of the corrections	Ctrl + W, Alt + F4	Revert to the original condition before any corrections were performed	Ctrl + Shift + Z
Display the previous image	Left Arrow, Ctrl + Up Arrow	Apply the content of the corrections and close the stamp tool window	Alt + S
Display the next image	Right Arrow, Ctrl + Down Arrow	Set the radius of copy destination or correction range in 5 pixel units	Wheel up/down
Repair (Light)	W + click	Set the radius of copy destination or correction range in 1 pixel units	Shift + Wheel up/down
Repair (Dark)	D + click	Select copy source* (only functions when in 100% view)	Alt + click
Copy the content of the corrections	Ctrl + C	Change the display position after copy source is selected (only functions when in 100% view)	Space + drag
Paste the content of the corrections copied (only functions when an image with the same number of pixels for length and width is selected)	Ctrl + V	Set the pen type to brush*	B
Redo the previous correction	Ctrl + Y	Set the pen type to pencil*	P

\* Only functions when using copy stamp functions (p.1-12).

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