







# FinePix A 310



**OWNER'S MANUAL** 

This manual will show you how to use your FUJIFILM DIGITAL CAMERA FinePix A310 correctly. Please follow the instructions carefully.





Getting Read

Using the Camera

> Advanced Features

> > Setting

Software Installation

Viewing Images

# Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

#### For customers in the U.S.A.

Tested To Comply With FCC Standards FOR HOME OR OFFICE USE

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try

to correct the interference by one or more of the following

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

You are cautioned that any changes or modifications not expressly approved in this manual could void the user's authority to operate the equipment.

To comply with Part 15 of the FCC rules, this product must be used with a Fuiifilm-specified ferrite-core A/V cable. USB cable and DC supply cord.

#### For customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

Please read the Safety Notes (⇒P.82) and make sure you understand them before using the camera.

# **IMPORTANT**

Be sure to read this page before using the Software.

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  (b) "Software" means the software which is recorded on Media.
- (c) "Documentation" means the operation manuals of Software and other related written materials which are provided to you together with
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# **EC Declaration of Conformity**

We

Name: Fuii Photo Film (Europe) G.m.b.H.

Address: Heesenstrasse 31

40549 Dusseldorf, Germany

declare that the product

FUJIFILM DIGITAL CAMERA FinePix A310 Product Name:

Manufacture's Name: Fuji Photo Film Co., Ltd.

Manufacture's Address: 26-30, Nishiazabu 2-chome, Minato-ku,

Tokyo 106-8620, Japan

is in conformity with the following Standards

Safety: EN60065

FMC: EN55022: 1998 Classe B

EN55024: 1998

EN61000-3-2: 1995 + A1:1998 + A2:1998

following the provision of the EMC Directive (89/336/EEC, 92/31/EEC and 93/68/EEC) and Low Voltage Directive (73/23/EEC).



Dusseldorf, Germany

Place

March 1, 2003

Date

Managide



Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA

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#### ■ Test Shots Prior to Photography

For particularly important photographs (such as weddings and overseas trips), always take a test photograph and view the image to make sure that the camera is functioning normally.

 Fuji Photo Film Co., Ltd. cannot accept liability for any incidental losses (such as the costs of photography or the loss of income from photography) incurred as a result of faults with this product.

#### ■ Notes on Copyright

Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner, unless intended only for personal use. Note that some restrictions apply to the photographing of stage performances, entertainments and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of **xD-Picture Card** containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

#### ■ Liquid Crystal

If the LCD monitor is damaged, take particular care with the liquid crystal in the monitor. If any of the following situations arise, take the urgent action indicated.

- If liquid crystal comes in contact with your skin Wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid crystal gets into your eye
   Flush the affected eye with clean water for at least
   15 minutes and then seek medical assistance.
- If liquid crystal is swallowed

Flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance.

#### ■ Notes on Electrical Interference

If the camera is to be used in hospitals or aircrafts, please note that this camera may cause interference to other equipment in the hospital or aircraft. For details, please check with the applicable regulations.

#### ■ Handling Your Digital Camera

This camera contains precision electronic components. To ensure that images are recorded correctly, do not subject the camera to impact or shock while an image is being recorded.

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- \* The "Designed for Microsoft® Windows® XP" logo refers to the camera and the driver only.
- Other company or product names are trademarks or registered trademarks of the respective companies.

#### **■** Explanation of Color Television System

- NTSC: National Television System Committee, color television telecasting specifications adopted mainly in the U.S.A., Canada and Japan.
- PAL: Phase Alternation by Line, a color television system adopted mainly by European countries and China.

#### ■ Exif Print (Exif ver. 2.2)

Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

# **Accessories included**

 16 MB, xD-Picture Card<sup>™</sup> (1) Included with: Anti-static case (1)

FUJIFILM

x0-Picture Card

16 MB

Strap (1)



- USB Interface Set (1)
- CD-ROM: Software for FinePix SX (1)
- Special USB cable with Noise Suppression core (1)
- Quick start guide for Camera and Software installation (1)
- Cradle adapter for FinePix A310 (1)



Use this adapter for setting camera to the optional PictureCradle CP-FXA10 (See P.70).

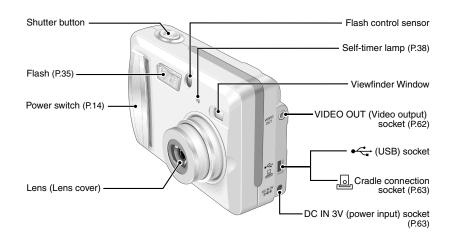
LR6 AA-size alkaline Batteries (2)

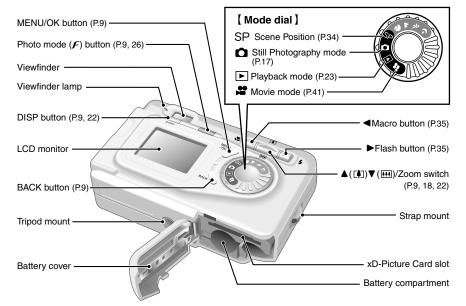


Special video cable
 2.5 mm dia. mini plug-to-pin plug
 Approx. 1.5 m (1)

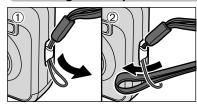


• Owner's Manual (this manual) (1)



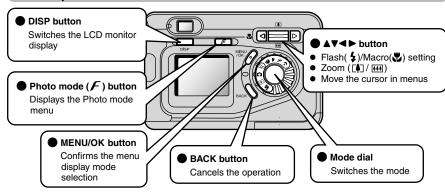


# Attaching the strap



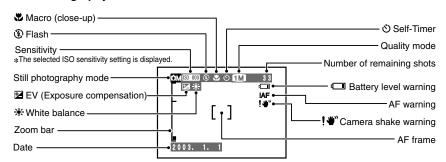
Attach the strap as shown in ① and ②.

# **Basic Operation Guide**

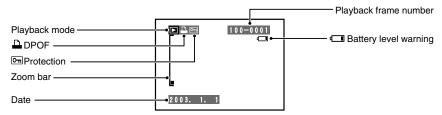


# **Example of LCD Monitor Text Display**

#### ■ Still Photography mode



#### ■ Playback mode



## ◆ Displaying the On-screen Help ◆

Instructions for the next step in the procedure are displayed at the bottom of the LCD monitor. Press the button indicated.



#### DISP ZOOM OK TRIMMING

Press the "DISP" button to use the zoom or the "MENU/OK" button to crop the image.

# **ABOUT THE BATTERIES**

# **Compatible batteries**

AA-size alkaline batteries (2), Rechargeable Battery NH-10 (Sold separately), or optional AA-size Ni-MH batteries (2).

We recommend that the AA-size alkaline batteries used be the same brand as those supplied with the camera.

#### ♦ How to use the battery ♦ -

- Never use the following types of battery, as this could cause serious problems such as battery fluid leakage or overheating:
- 1. Batteries with split or peeling outer casings
- Combinations of different types of batteries or new and used batteries together
- Do not use manganese or Ni-Cd batteries.
- Soiling such as fingermarks on the poles of the batteries can significantly reduce the amount of time for which the batteries can be used.

Outer casing

- The time for which AA-size alkaline batteries (referred to hereafter simply as alkaline batteries) can be used varies depending on the brand, and some alkaline batteries may stop providing power more quickly than those supplied with the camera. Note also that due to their nature, the time for which alkaline batteries can be used decreases in cold conditions (0°C to 10°C). The use of AA-size Ni-MH batteries is recommended for this reason.
- See P.72, 73 for other notes on using batteries.

# ◆ AA-size Ni-MH batteries and the Rechargeable Battery NH-10 ◆

- When used as a power source for a digital camera, AA-size Ni-MH batteries and the Rechargeable Battery NH-10 (referred to hereafter as Ni-MH batteries) are superior to alkaline batteries in that they allow more shots to be taken. However, to retain the original performance characteristics of Ni-MH batteries, care must be taken in the way they are used.
- Ni-MH batteries left unused in storage for long periods can become "deactivated". Also, repeatedly charging Ni-MH batteries that are only partially discharged can cause them to suffer from the "memory effect".

Ni-MH batteries that are "deactivated" or affected by "memory" suffer from the problem of only providing power for a short time after being charged. To prevent this problem, discharge and recharge them several times using the camera's "Discharging rechargeable batteries" function. By repeating this cycle several times, the temporary reduction in performance caused by "memory" or "deactivation" can be remedied and the batteries can be restored to their original performance levels.

See P.11 for the procedure for "Discharging rechargeable batteries".

Deactivation and memory are specific to Ni-MH batteries and are not in fact battery faults.

#### Do not use the "Discharging rechargeable batteries" function when alkaline batteries are being used.

- Ni-MH batteries will deteriorate rapidly if overdischarged. Use the "Discharging rechargeable batteries" function provided in the camera to discharge batteries. Discharging batteries such as in a flashlight can result in impaired battery performance because of overdischarging.
- ♣ The rechargeable battery NH-10 can be charged by setting the camera in the PictureCradle CP-FXA10 (optional). Use AC power adapter AC-3VW which is enclosed with PictureCradle for charging NH-10. Commercially available Ni-MH batteries can not be charged in the Picture Cradle. Use the optional charger to charge AA-size Ni-MH batteries.
- Ni-MH batteries are not fully charged when purchased. They may also be "deactivated". Accordingly, you should discharge them once using the camera's "Discharging rechargeable batteries" function, and then charge them fully again before using them in the camera.
- Ni-MH batteries have a limited service life. If a battery can only be used for a short time even after repeated discharge-charge cycles, it may have reached the end of its service life.
- When using the "Discharging rechargeable batteries" function, do not connect the AC power adapter to the camera or set the camera in the cradle.

Only use the "Discharging rechargeable batteries" function with Ni-MH batteries (rechargeable batteries).

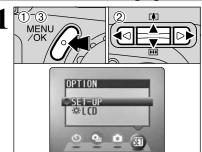
The "Discharging rechargeable batteries" function should not be used with alkaline batteries as it will completely drain the battery charge.

Use the "Discharging rechargeable batteries" function in the following situations:

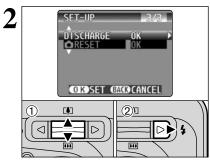
- When the batteries can only be used for a short time after being charged normally
- When the batteries have not been used for a long period
- When you purchase new Ni-MH batteries

Do not use the "Discharging rechargeable batteries" function when the camera is set in the cradle or when you are using the AC power adapter. In these situations, the Ni-MH batteries will not be discharged due to the external power supply.

## Procedure for discharging rechargeable Ni-MH batteries



- 1) Press the "MENU/OK" button.
- ② Press "◀" or "▶" to select "웹" OPTION and then press "▲" or "▼" to select "SET-UP".
- 3 Press the "MENU/OK" button.
- Remove the camera from the cradle when discharging hatteries
- Do not use the procedure for discharging rechargeable batteries with alkaline batteries.



- ① Use "▲" or "▼" to select "DISCHARGE".
- ② Press "▶".

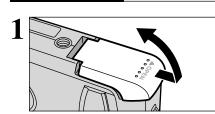


- ① Use "◀" or "▶" to select "OK".
- ② Press the "MENU/OK" button.

The screen changes and discharging begins. When the red battery low indicator starts flashing and discharging ends, the camera switches off.

To cancel discharging, press the "BACK" button.

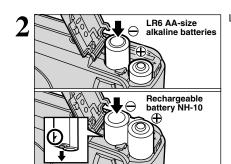
# **LOADING THE BATTERIES AND THE MEDIA**



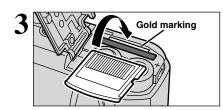
Check that the camera is switched off (viewfinder lamp switches off) before opening the battery cover.

- If you open the battery cover while the camera is switched on, the camera is switched off.
- Do not apply excessive force to the battery cover.

Do not open the battery cover while the camera is still switched on. This could damage the xD-Picture Card or corrupt the image files on the xD-Picture Card



Load the batteries correctly as shown.



Align the gold mark on the xD-Picture Card slot with the gold contact area on the xD-Picture Card and then push the card firmly all the way into the slot.

The xD-Picture Card will not slide fully into the slot if it is inserted facing the wrong way. Be careful not to apply undue force to the xD-Picture Card.



Close the battery cover.

#### ♦ When you want to replace the **xD-Picture Card** ♦

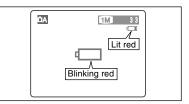


When you push the **xD-Picture Card** into the slot and then slowly remove your finger, the lock is released and the **xD-Picture Card** is pushed out.

# → Checking the remaining battery charge ◆

Switch the camera on and check that no battery level warning ( or ) is displayed on the LCD monitor. If no icon is displayed, there is ample charge left in the batteries.

- ① There is ample remaining battery charge.
- ② There is insufficient charge left in the batteries. The batteries will soon run completely flat and should be replaced.
- ③ The batteries are exhausted. The display will shortly go blank and the camera will stop working. Replace or recharge the batteries.



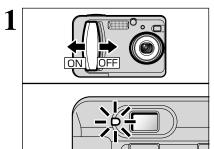
"•• is displayed as a small icon on the right-hand side of the LCD monitor. •• appears as a large icon on the LCD monitor.

- The information above is an approximate guide for photography mode. Depending on the camera mode and the type of batteries used, the transition from "q=1" to "q=1" may occur more guickly.
- When the batteries runs flat, "\( \square\)" is displayed and camera operation automatically stops. When this occurs, the camera may work if you switch it on again even without loading new or fully charged batteries. However, this may cause camera faults such as the camera switching itself off without retracting the lens. Always load new or fully charged batteries.
- Due to the nature of the battery, the battery low warning may appear early when the camera is used in cold locations. This is normal and does not indicate a fault. Try warming the batteries in your pocket or a similar location before use.

#### ◆ Power Save Function ◆

If the camera is not used for 2 minutes, this function automatically switches the camera off. When this function is active, it also switches off the LCD monitor to reduce power consumption if the camera is not used for 30 seconds (See P.51 for details). If the camera is then left unused for a further period (2 minutes), the Power Save function automatically switches the camera off. To switch the camera back on, slide the Power switch to the side to turn the camera off briefly and then turn it back on.

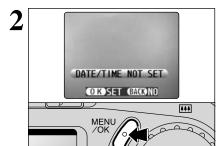
# SWITCHING ON AND OFF, SETTING THE DATE AND TIME



Slide the Power switch to turn the camera on and off. When you switch the camera on, the viewfinder lamp lights (green).

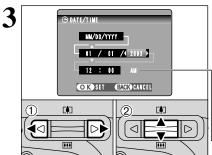
In "a", "SP" or "a" mode, the lens extends and the lens cover opens. Because actions these involve precision mechanisms, you should take care not to obstruct the lens with your hand or fingers.

Obstructing the lens will cause a malfunction or fault and the "FOCUS ERROR" or "ZOOM ERROR" message will appear. Take care also not to get fingerprints on the camera lens as this will result in impaired image quality in your shots.

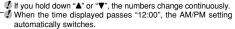


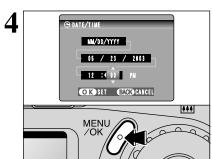
When you first switch the camera on, the date is cleared. Press the "MENU/OK" button to set the date and time.

↑ To set the date and time later, press the "BACK" button.
 ↑ If you do not set the date and time, this confirmation screen will appear each time you switch the camera on.



- ① Press "◀" or "▶" to select Year, Month, Day, Hour or Minute.
- ② Press "▲" or "▼" to correct the setting.

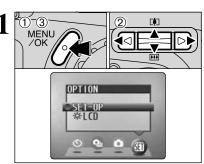




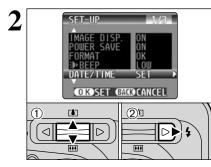
Once you have set the date and time, press the "MENU/OK" button. Pressing the "MENU/OK" button switches the camera to Photography or Playback mode.

At the time of purchase and after you leave the camera for a long period with the batteries removed, settings such as the date and time are cleared. Once the AC power adapter has been connected or the batteries have been loaded for 30 minutes or more, the camera settings will be retained for roughly 3 hours even when the camera has no power (batteries removed and AC power adapter disconnected).

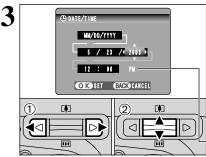
# CORRECTING THE DATE, TIME AND CHANGING THE DATE ORDER, SELECTING THE LANGUAGE



- ① Press the "MENU/OK" button.
- ② Press "◀" or "▶" to select "웹" OPTION and then press "▲" or "▼" to select "SET-UP".
- 3 Press the "MENU/OK" button.



- ① Press "▲" or "▼" to select "DATE/TIME"
- ② Press "▶".



# Changing the date and time

- ① Press "◀" or "▶" to select Year, Month, Day, Hour or Minute.
- ② Press "▲" or "▼" to correct the setting.
- If you hold down "▲" or "▼", the numbers change continuously.
   When the time displayed passes "12:00", the AM/PM setting automatically switches.



# To change the date display format

- -1) Press "◀" or "▶" to select the date format.
- ② Press "▲" or "▼" to set the format.

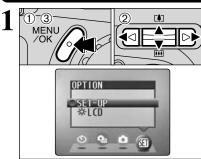
Continued over page...

# CORRECTING THE DATE, TIME AND CHANGING THE DATE ORDER, SELECTING THE LANGUAGE

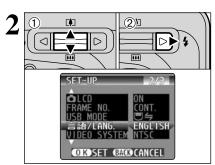
5 MENU /OK

Always press the "MENU/OK" button after you complete the settings.

# SELECTING THE LANGUAGE



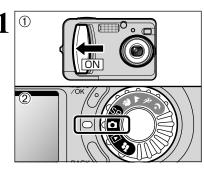
- ① Press the "MENU/OK" button to display the menu screen.
- ② Press "▲", "▼", "◄" or "▶" to select "SET-UP" from the "" OPTION menu.
- 3 Press the "MENU/OK" button.



- ① The "SET-UP" screen appears. Use "▲" or "▼" to select "言語/LANG.".
- ② Press "▶" to select "日本語", "ENGLISH", "FRANCAIS", "DEUTSCH", "ESPAÑOL" or "中文". You can cycle through the language settings by pressing "▶".
- The screens in this manual are shown in English.
   See P.50 for more information on the "௵" OPTION menu.

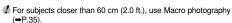
# 2 Using the Camera

# SHOOTING STILL IMAGES ( A AUTO MODE)

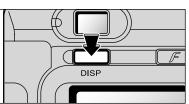


STILL IMAGE MODE

- Slide the Power switch sideways to switch the camera on.
- 2 Set the Mode dial to "a".
- Focus distance: Approx. 60 cm (2.0 ft.) to infinity



If a "CARD ERROR", "NO CARD", "CARD FULL" or "CARD NOT INITIALIZED" message appears, see P.75.



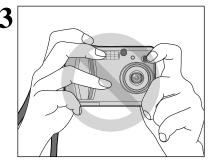
To take pictures using the viewfinder, press the "DISP" button to switch the LCD monitor off (Switching the LCD monitor off conserves battery power).

✓ Note that you cannot switch the LCD monitor off in Macro
mode



Brace your elbows against your sides and hold the camera with both hands. Position the thumb of your right hand so that it is handy for using the zoom.

- The image will be blurred if the camera moves when taking the picture (camera shake). Use a tripod to avoid camera shake, particularly for shots in dark locations when the flash is set to Suppressed Flash mode.
- There may be some unevenness in the brightness at the lower edge of the LCD monitor. This is normal and does not indicate a fault. This does not affect the photographed image.

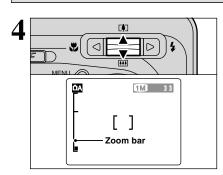


Take care to hold the camera so that your fingers or the strap do not cover the lens, flash or flash control sensor. If the lens, flash or flash control sensor is obscured by your fingers or the camera strap, you may not be able to obtain the correct brightness (exposure) for your shot.

- Check that the lens is clean. If it is dirty, clean the lens as described on P.72.
- If you use the flash in very dusty conditions or when it is snowing, white dots may appear in the image due to the flash reflecting off the dust particles or snowflakes. Try taking the shot using Suppressed Flash mode.

Continued over page..

# STILL IMAGE MODE SHOOTING STILL IMAGES ( AUTO MODE)

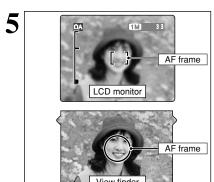


If you want to zoom in on your subject, press zoom switch "▲" ([♣] telephoto). To zoom out, press "▼" ([♠] WIDE). A "zoom bar" appears on the LCD monitor when you zoom in or out.

 Optical zoom focal length (35 mm camera equivalent)

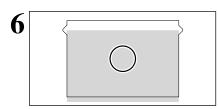
Approx. 38 mm-114 mm Maximum zoom scale: 3×

✓ Zooming stops briefly when the camera switches between optical zoom and digital zoom (→P.22). Pressing the same zoom switch again switches between zoom modes.

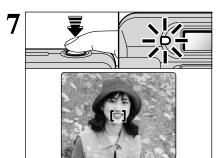


Using the viewfinder or LCD monitor, frame your shot so that the subject fills the entire AF (Auto Focus) frame.

- If your subject is not in the center of the picture, use AF/AE lock to take the picture (→P.21).
- The image shown on the LCD monitor before you take the shot may differ in its brightness, color, etc. from the image actually recorded. If necessary, play back the recorded image to check it (→P.23).
- To frame your shot precisely, you should take the picture using the LCD monitor.
- In some conditions it may be difficult to see your subject clearly on the LCD monitor. (Such as in sunny weather outdoors or when you are shooting dimly lit scenes.) In such situations, use the viewfinder to take the shot.

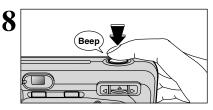


When you are using the viewfinder to take a picture at a distance of 0.6 m to 1.5 m (2.0 ft. to 4.9 ft.), only the shaded area in the figure is photographed.



Press the shutter button down halfway. Focusing is complete when the AF frame on the LCD monitor shrinks and the viewfinder lamp (green) stops blinking and remains lit.

- If "!AF" appears on the LCD monitor, the camera cannot focus.
  When you press the shutter button down halfway, the image on the LCD monitor freezes briefly. However, this is not the recorded image.
- If "!AF" is displayed on the screen (e.g. the shot is too dark for the camera to focus), try standing about 2 m (6.6 ft.) from your subject to take the picture.



To take the picture, press the shutter button down fully without lifting your finger off it. The camera beeps and takes the picture, and the data is then recorded.

- There is a slight delay between the shutter button being pressed and the shot being taken. If necessary, play back the shot to check the image.
- If you press the shutter button down fully in one motion, the shot is taken without the AF frame changing.
- When you take the shot, the viewfinder lamp lights orange (shooting disabled). The viewfinder lamp then changes to green to indicate that the next picture can be taken.
- The viewfinder lamp blinks orange while the flash is charging. If the LCD monitor is switched on, the screen may go dark for a moment. This is normal and does not indicate a fault.
- See P.75-76 for information on the warning displays.

### ■ Viewfinder Lamp Display

Display	Status
Lit green	Ready to shoot.
Blinking green	AF/AE in progress, camera shake warning or AF warning (Ready to shoot).
Blinking green and orange alternately	Recording to xD-Picture Card (Ready to shoot).
Lit orange	Recording to xD-Picture Card (Not ready).
Blinking orange	Flash charging (Flash will not fire).
Blinking green (1-second intervals)	Camera in Power Save mode (➡P.51).
Blinking red	xD-Picture Card Warnings     No card loaded, card not formatted, incorrect format, card full, xD-Picture Card error.     Lens operation error.

\* When the LCD monitor is switched on, more detailed warning messages are displayed (→P.75-76).

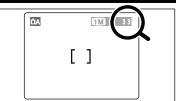
# Subjects Not Suitable for Autofocus

Though the FinePix A310 uses an accurate autofocus mechanism, it may have difficulty focusing or not be able to focus at all for the types of subject and situation listed below. In such cases, the image may be out of focus.

- Very shiny subjects such as a mirror or car body
- Subjects photographed through glass
- Subjects that do not reflect well, such as hair or fur
  Subjects with no substance, such as smoke or
- Subjects with no substance, such as smoke of flames
- When the subject is dark
- When there is very little contrast between the subject and the background (such as white walls or subjects dressed in the same color as the background)
- Subjects moving at high speed
- When something other than your subject is close to the AF frame, has contrasting areas of light and dark and is either closer or further away than your subject (as when you photograph someone against a background with strongly contrasting elements)

For subjects of this type, use AF/AE lock (⇒P.21).

# NUMBER OF AVAILABLE FRAMES



The number of available shots in this card is displayed on the screen.

See P.26 for information on changing the quality mode.

The default quality mode "♣" set at shipment is 
 ■.

#### ■ Standard number of shots per xD-Picture Card

The table below shows the standard number of available shots for a new xD-Picture Card formatted on the camera. The larger the xD-Picture Card capacity, the greater the divergence between the actual number of available shots and the number shown here. Also, because the amount of data recorded for a shot varies depending on the subject, in some cases the number of shots may decrease by 2 or may remain the same. As a result, the actual number of recordable shots may either decrease or increase.

Quality	6M 6M	3M 3M	1M 1M	03M 0.3M
Number of recorded pixels	2816 × 2120	2048 × 1536	1280 × 960	640 × 480
DPC-16 (16 MB)	10	19	33	122
DPC-32 (32 MB)	21	40	68	247
DPC-64 (64 MB)	43	81	137	497
DPC-128 (128 MB)	86	162	275	997
DPC-256 (256 MB)	173	325	550	1997

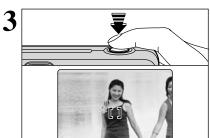
# **USING AF/AE LOCK**



In a shot with this type of composition, the subjects (two people in this case) are not in the AF frame. If the shot is taken at this point, the subjects will not be in focus.



Move the camera slightly so that one of the subjects in the AF frame.



Without moving the camera, press the shutter button down halfway (AF/AE lock). Focusing is complete when the AF frame on the LCD monitor shrinks and the viewfinder lamp (green) stops blinking and remains lit.







Continue to hold the shutter button down halfway (AF/AE lock). Move the camera back to the original image and then fully press down on the shutter button.

- You can reapply the AF/AE lock as many times as you like before releasing the shutter.
- be used to ensure excellent results.

#### ◆ AF (Autofocus)/AE lock (Auto-exposure) ◆

On the FinePix A310, when you press the shutter button down half way, the focus and exposure settings are fixed (AF/AE lock). If you want to focus on a subject that is off to one side of the image or if you want to set the exposure before you compose the final shot, lock the AF and AE settings and then compose and shoot your picture to get the best results.

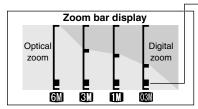
You can zoom in and out by pressing "▲ (🗓)" and "▼ (!!!)" respectively.

The digital zoom can be used with the "M", "IM" and "M" quality mode setting.

When zooming switches between optical and digital, the "■" indicator stops. Pressing the same zoom button again starts the "" indicator moving again.

- ¶ The digital zoom cannot be used with the "

  ™" setting.
- See P.26 for information on changing the quality mode setting. If the shot goes out of focus during zooming, hold the shutter button down halfway to refocus the shot.



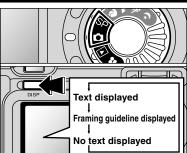
The position of the "

" indicator on the zoom bar shows the zooming status.

If the "■" is below the dividing line, the optical zoom is being used. If it is above the line, the digital zoom is being used.

- The digital zoom can only be used for shots taken using the
- Optical zoom focal length (35 mm camera equivalent) Approx. 38 mm-114 mm, Maximum zoom scale: 3×
- Digital zoom focal lengths (35 mm camera equivalents)
- 3M: Approx. 114 mm-156 mm, Maximum zoom scale: 1.37×
- M: Approx. 114 mm-251 mm. Maximum zoom scale: 2.2×
- M: Approx. 114 mm-330 mm, Maximum zoom scale: 2.9×

# **BEST FRAMING**



Framing guidelines can be set in "a" or "SP" mode. The LCD monitor display changes each time you press the "DISP" button. Press the "DISP" button until "Framing Guideline" appears.

# ♠ Important ◆

Always use AF/AE lock when composing a shot. The image may not be focused correctly if you do not use AE/AF lock.

#### Scene



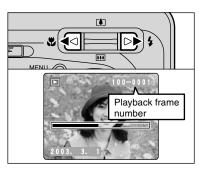
Use this frame with main subject positioned at the intersection of two lines or align one of the horizontal lines with the horizon.

This frame allows you to compose your own shots while remaining aware of the subject's size and the balance of the shot.

- The framing guideline is not recorded on the image.
- The lines in the scene frame divide the recorded pixels into 3 roughly equal parts horizontally and vertically. When the image is printed, the resulting print may be shifted slightly from the scene frame.

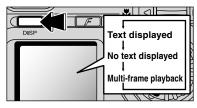
# Single-frame Playback

- Set the Mode dial to "▶".
- ② You can use "▶" to scan forward through your images and "◀" to scan backwards.
- ♦ When you set the Mode dial to "▶", your last shot is played.
- If the lens is extended during playback, the lens automatically retracts as a protective measure if the camera is not used for approx. 6 seconds.



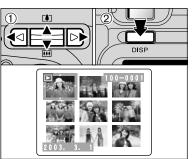
# Fast-forwarding Through Your Images

During playback, you can skip backwards or forwards through the images (the frame number increases or decreases) by holding down "◀" or "▶" for approximately 1 second.



# **Multi-frame Playback**

In playback mode, the display shown on the LCD monitor switches each time you press the "DISP" button. Press the "DISP" button until the multiframe playback screen (9 frames) appears.



- ① Press "A". "▼". "◄" or "▶" to move the cursor (orange frame) to the frame you want to select. Pressing "▲" or "▼" repeatedly switches to the next page.
- 2 You can display the current image enlarged by pressing the "DISP" button again.
- The LCD monitor text display disappears after approximately 3 seconds
- Playback zoom cannot be used with multi-frame playback.

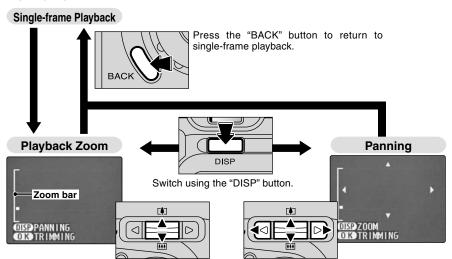
# Still images that can be viewed •

You can use this camera to view still images recorded on the FinePix A310 or still images (excluding some uncompressed images) recorded on a FUJIFILM digital camera that supports xD-Picture Cards.

22 Continued over page.

# PLAYBACK MODE VIEWING YOUR IMAGES (PLAYBACK)

During single-frame playback, you can use the zoom to check your photo or trim the image so that only the part you want to show is saved.



Pressing the "▲ ([♣])" or "▼ (Ⅲ)" switch during single-frame playback zooms in (enlarges) or out on a still image. When you use this function, a zoom bar is displayed.

You can view another area by pressing "▲", "▼", "⋖", or "▶".

For an image attached to E-mail or used on a

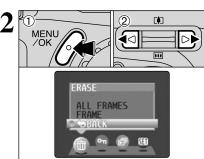
Quality	Max. zoom scale	The size of a saved image varies
6M (2816 × 2120)	18×	depending on the zoom scale. For 0.3M,
3M (2048 × 1536)	13×	the "OKTRIMMING" option appears in yellow.
1111 (1280 × 960)	8×	For levels below 0.3M, the "OTRIMMING"
0311 (640 × 480)	4×	message is not shown.
Press the "MENU/OK" button to crop the image.		
Trimming	Check the size of	of the saved image and press the "MENU/OK"
Trimming  TRIMMING		of the saved image and press the "MENU/OK" ped image is added as a separate file in the final
	button. The cropp	
	button. The cropp	ped image is added as a separate file in the final
TRIMMING → 0.3M	button. The cropp	■ Image Sizes  Printing at A4 or A5 size or printing part of the

website.

# PLAYBACK MODE ERASING IMAGES (ERASE FRAME)

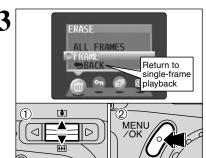


Set the Mode dial to "▶".



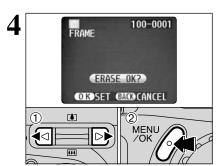
- ① Press the "MENU/OK" button during playback to display the menu.
- ② Press "◀" or "▶" to select "亩" ERASE.

Note that mistakenly erased frames (files) cannot be recovered. You should back up important frames (files) that you do not want to be erased onto your computer or another media.



- ① Press "▲" or "▼" to select "FRAME".
- ② Press the "MENU/OK" button to confirm the selection.

See P.44 for information on "ALL FRAMES".

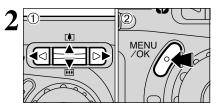


- ① Press "◀" or "▶" to select the frame (file) to be erased.
- ② Press the "MENU/OK" button to erase the displayed frame (file).

To erase another image, repeat steps ① and ②. When you have finished erasing images, press the "BACK" button.

Pressing the "MENU/OK" button repeatedly erases consecutive images. Take care not to erase an image by mistake.

- 1) Slide the Power switch to the side to turn the camera on.
- ② Set the Mode dial to "♠. SP" or "\".
- ③ Press the Photo mode (F) button.



- ① Press "◀" or "▶" to select the quality mode "♣" setting and then press "A" or "V" to change the
- 2 Press the "MENU/OK" button to confirm the settina.
- The quality setting is retained even if you set the Mode dial to playback or switch the camera off.

# Quality settings in Still Photography ( , SP) mode



You can choose from 4 settings. Use the table on the below as a guide for selecting the best setting for the shot you want to take.

- The numbers to the right of each setting show the number of
- ♦ When you change the quality, the number of available shots also changes (⇒P.20).

Quality	Sample Uses
<b>6M</b> 6 MB (2816 × 2120)	Printing at A4 size or printing part of the image cropped at A5 or A6 size.
<b>3 MB</b> (2048 × 1536)	Printing at A4 or A5 size or printing part of the image cropped at A6 size.
■ 1 MB (1280× 960)	Printing at A6 size.
03M 0.3 MB (640 × 480)	For an image attached to E-mail or used on a website

# ◆ Quality setting in high-sensitivity mode ◆

If you try to select a quality setting other than "IM" when the camera is set to high-sensitivity mode, "Dem" is displayed blinking and the quality cannot be changed.

# Quality settings in Movie (2) mode



You can select 2 levels of quality. For better image quality, select "", and for longer photography time, select "100".

		Movie Size	Maximum shooting time
	320	320 × 240	120 sec.
ı	160	160 × 120	480 sec.

800m 400 **AUTO** 

800m

400

2000

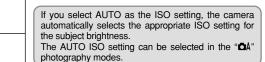
- 1) Slide the Power switch to the side to turn the camera on
- 2 Set the Mode dial to "a" or "SP".
- ③ Press the Photo mode (F) button.

In "\mathbb{\mathbb{A}}" Movie mode, you cannot set the ISO (sensitivity)

- ① Press "◀" or "▶" to select the "ஹ" sensitivity setting and then press "A" or "V" to change the
  - 2 Press the "MENU/OK" button to confirm the settina.

#### Settings

♠A: AUTO, 400, 800 **△M.** SP: 200, 400, 800



- While selecting a higher sensitivity setting will allow you to take pictures in darker locations, it will also increase the amount of speckling in your images.
- Streaking may also be visible in shots of scenes such as the

Choose the sensitivity setting that best suits the conditions.



# High-sensitivity photography (800)

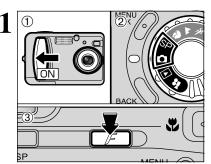
When a high sensitivity (800) is selected, the quality is automatically set to "M".

When you use a high sensitivity setting, "Dem" appears on the LCD monitor.

- ♦ When you specify a high sensitivity, the amount of noise (interference) in the image shown on the LCD monitor before the shot is taken increases. However, this is normal and does not indicate a fault.
- ♪ The digital zoom cannot be used in high-sensitivity. photography.
- The sensitivity setting is retained even if you set the Mode dial to playback or switch the camera off.

# ◆ Quality setting in high-sensitivity mode ◆

If you try to select a quality setting (→P.26) other than "
™ when the camera is set to high-sensitivity mode, "Man" is displayed blinking and the quality cannot be changed.



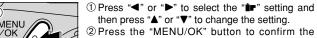
FinePix COLOR

F-CHROME

- F-STANDARD

- 1) Slide the Power switch to the side to turn the camera on.
- ② Set the Mode dial to "a" or "SP".
- ③ Press the Photo mode (F) button.

The FinePix COLOR setting is retained even if you switch the camera off or change the Mode dial setting.



F-STANDARD: The contrast and color saturation are set to standard. Use this mode

for normal photography. **F-CHROME:** The contrast and color saturation are

set to high.

- Subjects with unpredictable results: Closeup shots of people (portraits)
- Because the effects on the image differ depending on the scene being shot, shots should be taken in Standard mode as well as this mode. Note that you may not be able to see any difference on the LCD
- For shots taken in 
   F-CHROME mode. automatic quality adjustment will be suppressed on Exif print compliant printers.

F-B&W: This setting converts the colors in the photographed image to black and white.

# F PHOTO MODE PLAYBACK DPOF SET FRAME

# HOW TO SPECIFY PRINT OPTIONS (DPOF)



DPOF stands for Digital Print Order Format and refers to a format that is used for recording printing specifications for images shot using a digital camera on media such as an xD-Picture **Card**. The recorded specifications include information on which frames are to be printed.

This section gives a detailed description of how to order your prints with the FinePix A310. On the FinePix A310, you can specify multiple per image.

- \* Note that some printers do not support date and time imprinting or specification of the
- \* Note that the warnings shown below may be displayed while you are specifying the prints.

DPOF SPECIFIED. ERASE OK? (ERASE ALL OK?) (⇒P.45)

When you erase the image, the DPOF setting for that image is deleted at the same time.

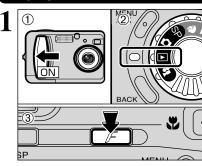
( RESET DPOF OK ? ) (→P.30)

If you load an xD-Picture Card that contains frames specified for printing on another camera, those print specifications are all reset and replaced by the new print specifications.

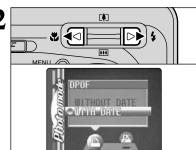
DPOF FILE ERROR (→P.75)

Up to 999 frames can be specified on the same xD-Picture Card.

#### DPOF SET FRAME



- 1) Slide the Power switch to the side to turn the camera on.
- ② Set the Mode dial to "L".
- ③ Press the Photo mode (F) button.



Press "◀" or "▶" to select "♣" DPOF.

# 3 DPOF

- ① Press "▲" or "▼" to select "WITH DATE" or "WITHOUT DATE". If you select "WITH DATE", the date is imprinted on your prints.
- 2 Press the "MENU/OK" button.
- By selecting the "WITH DATE" setting, you can have the date imprinted on your shots when you use the Print Service or a DPOF-compatible printer. (Depending on the printer specifications, the date may not be printed in some cases.)

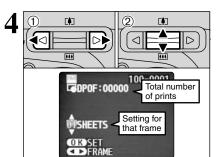
#### ♦ When DPOF settings were specified on another camera ◆



When the data includes a frame with DPOF setting that were specified on another camera, "(RESET DPOF OK?)" is displayed.

Pressing the "MENU/OK" button erases all of the DPOF settings already specified for each frame. You must then specify the DPOF setting for each frame again.

- Press the "BACK" button to leave the previous settings unchanged.
- ② During playback, check that the "♣" is displayed for the previous settings.

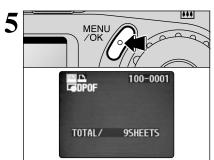


- ① Press "◀" or "▶" to display the frame for which you want to specify DPOF settings.
- ② Press "▲" or "▼" to set a value up to 99 as the number of copies of the frame to be printed. For frames (files) that you do not want printed, set the number of prints to 0 (zero).

To specify more DPOF settings, repeat steps ① and ②.

- You can order prints of up to 999 image frames on the same xD-Picture Card.
- DPOF settings cannot be specified for movies.

If you press the "BACK" button during the settings, all the new settings are cancelled. If there were previous DPOF settings, only the modifications are cancelled.



Always press the "MENU/OK" button when you complete the settings.

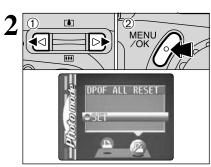
If you press the "BACK" button, no DPOF settings are specified.

# - ◆ Cancelling a frame ◆

To cancel the DPOF setting for a frame you have specified (cancel frame), perform steps 1 to 3 and then ① press " $\blacktriangleleft$ " or " $\blacktriangleright$ " to select the frame with the DPOF setting you want to cancel and then ② set the number of prints to 0 (zero). To cancel the DPOF setting for another frame, repeat steps ① and ②. When you have completed the settings, you must press the "MENU/OK" button.

# DI BACK BAC

- ① Slide the Power switch to the side to turn the camera on.
- ② Set the Mode dial to "▶".
- ③ Press the Photo mode (F) button.



- ① Press "◀" or "▶" to select "¾" DPOF ALL RESET.
- 2 Press the "MENU/OK" button.



A confirmation screen appears.

To reset all the DPOF settings, press the "MENU/OK" button.

is given below.

Allows you to set the "EV" and "White balance" yourself.

Allows you select a Scene Position (\*\*, \*\*, \*\* or \*C\*).

**Specify the Required Photography Function Settings** 

**4** Flash Use the flash for shots in dark locations or for

backlit subjects, etc.

Macro Use these functions for close-up shots.

Self-timer The self timer is used in situations such as group

shots where the photographer is included in the

shot.

**™** EV Using the AE exposure as a reference value of 0,

this function brightens (+) or darkens (-) the shot.

WB White balance Used to fix the white balance to suit the photography

conditions and lighting.

Continuous shooting Allows you use continuous shooting.

# Take the Photograph

# ■ Photography Mode Specifications

		Default Setting	<b>Q</b> A	<b>O</b> M	SP
► \$ FLASH (AUTO/♠/\$/﴿\$/ऽ\$/ऽ∰)		AUTO	YES	YES	YES*
■	MACRO (ON/OFF)	OFF	YES	YES	NO
FinePix		1M	YES	YES	YES
Photo	IN ISO	AUTO*1	YES	YES	YES
mode	<b>I</b> FinePix color	<b>F</b> -STANDARD	YES	YES	YES
	⊗ SELF-TIMER (ON/OFF)	OFF	YES	YES	YES
	<b>△</b> CONTINUOUS SHOOTING	OFF	YES	YES	YES
Menu	SCENE POSITION (♥/▲/%/੯)	9	NO	NO	YES*
	☑ EV (Exposure compensation –2.1 to +1.5)	0	NO	YES	NO
	WHITE BALANCE (♣/端/端/端/**/AUTO)	AUTO	NO	YES	NO

★1 The factory default 

setting for 

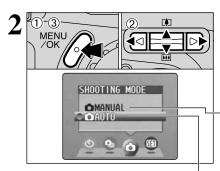
m mode is 200.

\* Some restrictions apply to the available flash modes depending on the SP menu setting (\*, \*, or C) (+P.34).

\* The factory default image quality for Movie mode is 320 × 240 pixels.



Set the Mode dial to "a".



1) Press the "MENU/OK" button to display the

② Press "◀" or "▶" to select "♠" SHOOTING MODE and then press "▲" or "▼" to select "▲AUTO" or "▲MANUAL".

3 Press the "MENU/OK" button to confirm the selection.

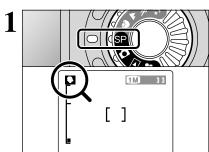
# **MANUAL**

This mode allows you to specify your own "EV (exposure compensation) (⇒P.40) and White Balance (⇒P.40)" settings.

## **D**AUTO

This is the easiest mode for taking pictures and can be used in a wide range of conditions.

# SCENE POSITION SP SCENE POSITION



This mode provides options tailored to different types of scene.

Set the Mode dial to "SP".

Macro mode cannot be used with any of the SP

SCENE POSITION
CNIGHT
\*SPORT **A**SCENE PORTRAIT

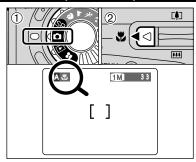
You can choose from 4 types of scene ( , . . . and (\*) displayed on the LCD monitor.

- 1) Press the "MENU/OK" button to display the
- ② Press "◀" or "▶" to select "SP" Scene Position and then press "▲" or "▼" to change the setting.
- 3 Press the "MENU/OK" button to confirm the selection.

	Explanation	Available flash modes
Portrait	Portrait This is the best mode for shooting portraits. Skin tones are shown beautifully and the overall tone is soft.	
Landscape  This is the best mode for shooting scenery in daylight and provides crisp, clear shots of scenery such as buildings and mountains.		can not be used
<b>ॐ</b> Sports	* Sports This is the best mode for shooting sporting events. This mode gives priority to faster shutter speeds.	
This is the best mode for evening and night scenes. This mode allows you to take shots where priority is given to slow shutter speeds of up to 2 seconds. To prevent camera shake, always use a tripod. To prevent camera shake, always use a tripod.		S\$, ∰, <b>③</b>

# MACRO (CLOSE-UP) PHOTOGRAPHY, \$ FLASH

# MACRO (CLOSE-UP) PHOTOGRAPHY



If you use the viewfinder to take a picture in Macro mode, the field visible through the viewfinder does not match the field actually photographed because the viewfinder and lens are in different positions. Accordingly, you should use the LCD monitor to take pictures in Macro mode.

Selecting Macro mode allows you to take close-up

- ① Set the Mode dial to "a".
- ② Press the "♣" Macro button. The "♣" appears on the LCD monitor indicating that you can take

To cancel Macro mode, press the "" Macro button again.

Focus distance

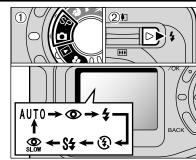
Approx. 10 cm to 80 cm (3.9 in to 31.5 in.)

Effective flash range

Approx. 30 cm to 80 cm (11.8 in. to 31.5 in.)

- Macro photography is automatically cancelled in the following
- When you set the mode dial to a different mode (excluding **E**)
- When you switch to "♠A" or "♠M" modes
- When the camera is switched off
- Select the appropriate Flash mode for the conditions.
- If you are shooting in a dark location (when the "!"" camera shake warning icon is displayed), use a tripod to prevent camera shake.
- digital zoom can be used.
- The LCD monitor is automatically switched ON and cannot be switched OFF.
- When you cancel Macro mode, the LCD monitor remains on.

# **4 FLASH**



You can choose from 6 flash modes according to the type of shot.

- ① Set the Mode dial to "a" or "SP".
- 2 The flash setting changes each time you press the "4" Flash button. The last flash mode displayed is selected.
- Effective flash range (for ♠ AUTO)

Wide-angle: Approx. 0.3 m to 5.0 m (1.0 ft. to 16.4 ft.)

Telephoto: Approx. 0.3 m to 4.0 m (1.0 ft. to 13.1 ft.)

- If you use the flash in very dusty conditions or when it is snowing, white dots may appear in the image due to the flash reflecting off the dust particles or snowflakes. Try taking the shot using Suppressed Flash mode.
- The flash charging time may increase if the charge remaining in the battery is low.
- When you take a shot using the flash, you may see the video image disappear and the screen go dark as the flash charges. At the same time, the viewfinder lamp blinks orange.
- Some restrictions apply to the available flash modes depending on the SP menu setting (♥, ▲, ※ or (+) (→P.34).



## Auto Flash Mode (no icon)

Use this mode for ordinary photography. The flash fires automatically as required by the shooting conditions.

If you press the shutter button while the flash is charging, the shot will be taken without the flash.

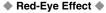


# Red-Eve Reduction

Use this mode to ensure that the subject's eyes appear natural when photographing people in low-light conditions. The flash fires a pre-flash just before the picture is taken and then fires again to take the actual picture.

The flash fires automatically as required by the shooting conditions.

If you press the shutter button while the flash is charging, the shot will be taken without the flash.



When you use the flash to photograph people in low-light conditions, their eyes sometimes appear red in the picture. This is caused by the light of the flash reflecting off the inside of the eye. Use Red-Eve Reduction flash to effectively minimize the likelihood of the red-eye effect.

Take the following measures to make Red-Eve Reduction more effective:

Get the subjects to look at the camera.
 Get as close as possible to the subjects.



#### 4 Forced Flash

Use this mode to photograph backlit scenes, such as a subject against a window or in the shade of a tree, or to obtain the correct colors when you are shooting under lighting such as fluorescent tubes. In this mode, the flash fires in bright as well as dark conditions.



# Suppressed Flash

Use this mode for photography using indoor lighting, for shots taken through glass, and for photography in venues such as theaters or at indoor sporting events where the distance is too great for the flash to be effective. In this situation, you can use the specified white balance (⇒P.40) to take shots that retain the atmosphere given by the ambient lighting.

If you are shooting in Suppressed Flash mode in dark conditions, use a tripod to prevent camera shake.

See P.75 for information on the camera shake warning.



# § \$ Slow Synchro

This is a flash mode that uses a slow shutter speed. This allows you to take pictures of people at night that clearly show both your subjects and the night time backdrop. To prevent camera shake, always use a tripod.

#### Slowest shutter speed

 ← (SP night scene): Up to 2 sec. Modes other than €: Up to 1/4 sec.

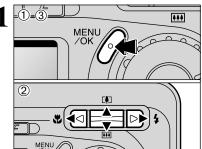
# Red-Eve Reduction + Slow Synchro

Use this mode for slow synchro shots with red-eye reduction.

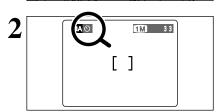
The image may be overexposed when you shoot bright scenes.

To take a picture of a main subject at night with the background brightly lit. please use the "SP" mode "C" (Night Scene) settings (⇒P.34).

## PHOTOGRAPHY MENU OPERATION



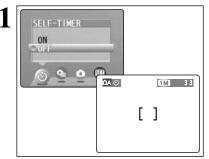
- 1) Press the "MENU/OK" button to display the menu.
- ② Press "◀" or "▶" to select the menu item and "A" or "▼" to change the setting.
- 3 Press the "MENU/OK" button to confirm the selection.



When you enable the setting, an icon appears in the top-left corner of the LCD monitor.

The settings available in the menu screen vary depending on the still photography mode.

# **⊗** SELF-TIMER PHOTOGRAPHY



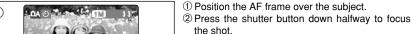
The self timer can be set in "a" or "SP" mode.

The self timer is used in situations such as group shots where the photographer is included in the

When you set the self-timer to "ON". "" appears on the LCD monitor.

In this mode, a timer runs for roughly 10 seconds before the shutter is released.

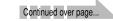
- The self-timer is automatically switched off in the following situations:
- · When shooting ends
- When you switch to "♠A" or "♠M" mode
- When you change the Mode dial setting
- . When the camera is switched off



3 Without releasing the shutter button, press the button all the way down (fully pressed) to start the self-timer.

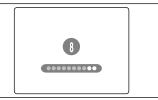


- ✓ You can also use the AF/AE lock (→P.21).
- Take care not to stand in front of the lens when you press the shutter button as this can prevent the correct focus or brightness (exposure) being obtained.



The self-timer lamp lights steadily for roughly 5 seconds and then blinks for another 5 seconds. after which the shot is taken.

To stop the self-timer, once it has started running, press the



A countdown is displayed on the LCD monitor indicating the time remaining until the picture is

Self-timer mode is automatically cancelled after each shot.

# **CONTINUOUS SHOOTING**



This mode can be selected in the "A". still photography modes.

Select the continuous shooting mode you want to use.



If you select Continuous Shooting mode (excluding OFF), the selected mode appears on the LCD monitor.

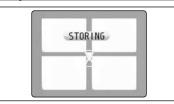
: Top 4-frame Continuous Shooting

**a**: Final 4-frame Continuous Shooting

# ♠ Notes on Using the Continuous Shooting Modes ◆

- "(SHOOTING)" appears on the LCD monitor during shooting.
- The shots should be taken using the viewfinder.
- The results of the shot are displayed even when "IMAGE DISP." is set to OFF (→P.50).
- Shooting continues for as long as you hold down the shutter button.
- If there is insufficient space on the xD-Picture Card, as many frames are shot as can be recorded on the available space.
- The focus and exposure are determined when the first frame is shot and cannot be changed in mid-
- The speed of continuous shooting does not change with the quality mode.
- The flash cannot be used as the flash mode is set to Suppressed Flash.

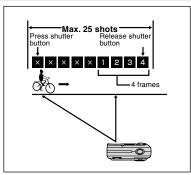
# **□** Top 4-frame Continuous Shooting



In this mode, you can shoot up to 4 frames at intervals as short as 0.3 seconds. When you take the shots, the photographed images are displayed and automatically recorded.

The time required to record a file is approximately 10 seconds in "M" mode (for TOP or FINAL 4-frame continuous shooting).

# Final 4-frame Continuous Shooting



Continuous shooting (at a minimum interval of 0.3 seconds) starts when you press the shutter button and the camera captures the last 4 frames shot immediately before you release the shutter button. If the maximum of 25 shutter operations is reached, the last 4 frames are captured.

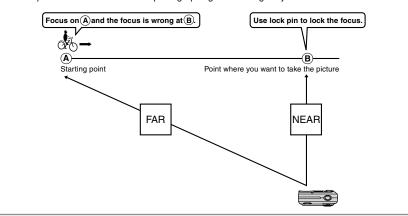
If there is insufficient space on the xD-Picture Card, the camera records as many of the shots taken just before the shutter button was released as will fit on the xD-Picture Card.

# ◆ Focusing on a Moving Subject ◆

If you press the shutter button down halfway to focus on the subject at the starting point (A), the subject may no longer be in focus when it reaches point (B) where you want to take the shot.

In such situations, use AF lock to focus on point (B) beforehand and then lock the focus so that it does

The lock pin feature is also useful for photographing fast-moving subjects that are difficult to focus on.





This mode can be selected in the "

"DM" photography

Use the Brightness setting to obtain the correct brightness (exposure) when the subject is much brighter or darker than the background.

#### Compensation range

-2.1 EV to +1.5 EV (13 steps in 0.3 EV increments) See P.81 for more information on EV.

- The Brightness setting is disabled in the following situations:
- When the flash is used in Auto or Red-Eve Reduction mode
- When dark scenes are shot in Forced Flash mode

# Subjects for Which Exposure Adjustment is Particularly Effective

# Guide to using + (positive) compensation

- · Copying of printed text (black characters on white paper) (+1.5 EV)
- Backlit portraits (+0.6 EV to +1.5 EV)
- Very bright scenes (such as snowfields) and highly reflective subjects (+0.9 EV)
- Shots made up predominantly of sky. (+0.9) EV)

# Guide to using – (negative) compensation

- Spotlit subjects, particularly against dark backgrounds (-0.6 EV)
- Copying of printed text (white characters on black paper) (-0.6 EV)
- Scenes with low reflectivity, such as shots of pine trees or dark foliage (-0.6 EV)

# **WB WHITE BALANCE (SELECTING THE LIGHT SOURCE)**



This mode can be selected in the "

"photography" mode.

Change the white balance setting when you want to take a picture with the white balance fixed for the surroundings and lighting when the picture is taken. In AUTO mode, the correct white balance may not be obtained for subjects such as close-ups of people's faces and shots taken under a special light source. In such situations, select the correct white balance for the light source. See P.81 for information on the white balance.

The color tones may vary somewhat depending on the shooting conditions (light source, etc.).

AUTO: Automatic adjustment (Shooting to show the ambience of the light source)

: Shooting outdoors in fine weather

40

: Shooting in shade

岩: Shooting under "Daylight" fluorescent

岩: Shooting under "Warm White" fluorescent

: Shooting under "Cool White" fluorescent

: Shooting in incandescent light

\* When the flash fires, the white balance set for the flash is used. To achieve a particular desired effect, set the flash mode to Suppressed Flash (⇒P.36).

Set the Mode dial to "#".

This mode allows you to shoot movies up to 120 seconds long (at the 20 setting) or 480 seconds long (at the 160 setting).

Specifications

Motion JPEG without sound Quality selection method

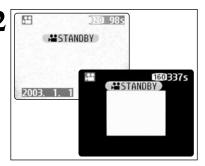
(320 × 240 pixels)

(160 × 120 pixels)

• Frame rate: 10 frames per second See P.81 for information on the frame rate.

- See P.26 for information on changing the quality mode setting. The available shooting time for a movie may decrease depending on the amount of free space on the xD-Picture
- See P.79 for the standard shooting time available with xD-Picture Cards.
- You cannot switch the LCD monitor off in this mode.

It may not be possible to playback your movies on other cameras.

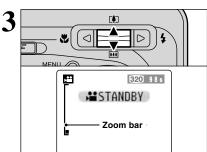


The available shooting time and "STANDBY" are displayed on the LCD monitor.

♦ When the resolution is set to 

• the information is displayed

• the information is d one size smaller.



During movie shooting, the lens is fixed at the wideangle zoom setting and only the digital zoom can be used.

Use "▲ (🗐)" or "▼ (🚻)" to zoom in and out. A zooming bar is displayed on the LCD monitor.

 Digital zoom focal lengths (35 mm camera equivalents) Approx. 38 mm to 110 mm

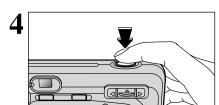
Maximum zoom scale: 2.9×

Focus distance

Approx. 1 m (3.3 ft.) to infinity

Shots taken with the digital zoom have slightly lower image quality. Choose the zoom mode that best suits the scene being shot.

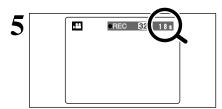
# MOVIE MODE SHOOTING MOVIES



Press the shutter button down fully to start shooting.

- The focus is fixed at approximately 1 m (3.3 ft.) to infinity.
- The brightness and color of the LCD monitor shown during movie shooting may differ from those shown before shooting begins.
- You do not need to hold down the shutter button.

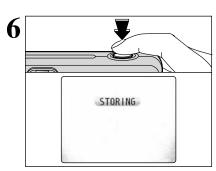
Pressing the shutter button down fully locks the focus, but the exposure varies automatically according to the scene being shot.



During shooting, "

REC" appears on the LCD monitor with a counter showing the remaining time displayed in the top-right corner.

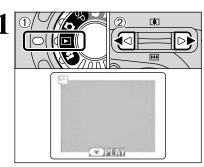
Once the remaining time runs out, movie recording automatically stops and the movie is stored on the xD-Picture Card.



If you press the shutter button during shooting, shooting ends and the movie is stored on the **xD-Picture Card**.

If you end shooting immediately after you start shooting, only 1 second of movie is shot.

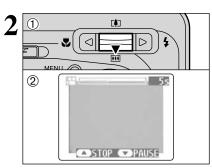
# PLAYBACK MODE PLAYING BACK MOVIES



- ① Set the Mode dial to "▶".
- ② Press "◀" or "▶" to select the movie file.

Movies cannot be played back using multi-frame playback. Use the "DISP" button to select single-frame playback.

Indicated by the "₽" icon.



- ① Press "▼" to play the movie.
- ② The LCD monitor shows the playback time and a playback progress bar.
- If the subject of the movie is very bright, white streaks may appear on the image during playback. This is normal and does not indicat fault.

Movies are displayed somewhat smaller than still images.

# ■ Playing Back Movies

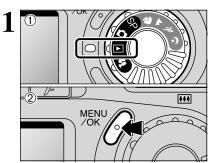
_ · · · · <b>,</b> · · · <b>g</b> _ · · · · · · · · · · · ·			
	Control	Description	
Playback		Playback begins. The movie automatically stops when playback ends.	
Pause/Resume		Pauses the movie during playback. Press this button again to resume playback.	
Stop		Stops playback.  ★ Press "◀" or "▶" while movie playback is stopped to go back to the previous file or advance to the next file respectively.	
Fast forward/Rewind	Rewind Fast forward	Press these during playback to skip forwards or backwards through the movie.	
Skip playback	When paused	Each time you press "◄" or "▶" when the movie is paused, the movie advances or goes back one frame.     Hold down the button to move through the frames quickly.	

#### ─ Playing back movie files ◆

- It may not be possible to play back a movie file that was recorded on a camera other than the FinePix A310.
- To play back movie files on a computer, save the movie file on the **xD-Picture Card** to the computer's hard disk and then play back the saved file.

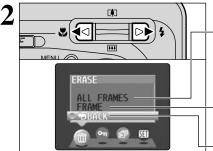
ds

# PLAYBACK MENU TO ERASING SINGLE, ALL FRAMES



- ① Set the Mode dial to "▶".
- ② Press the "MENU/OK" button to display the menu screen.

Note that mistakenly erased frames (files) cannot be recovered. You should back up important frames (files) that you do not want to be erased onto your computer or another media.



Press "◀" or "▶" to select "亩" ERASE.

## **ALL FRAMES**

Erases all unprotected frames (files).

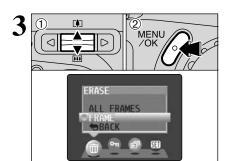
You should copy important frames (files) that you do not want to be erased to your computer or another media.

#### FRAME

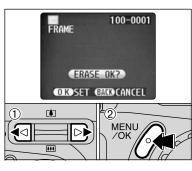
Erase only the selected frame (file).

#### BACK

Returns to playback without erasing any frames (files).



- ① Press "▲" or "▼" to select "ALL FRAMES" or "FRAME".
- 2 Press the "MENU/OK" button.

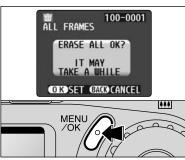


## FRAME

- ① Press "◀" or "▶" to select the file to be erased.
- ② Press the "MENU/OK" button to erase the currently displayed file.

To erase another image, repeat steps ① and ②. When you have finished erasing images, press the "BACK" button.

- Pressing the "MENU/OK" button repeatedly erases consecutive images. Take care not to erase an image by mistake.
- Protected frames cannot be erased. Unprotect the frames before erasing them (→P.46).



#### **ALL FRAMES**

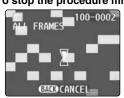
Pressing the "MENU/OK" button erases all the files.

To cancel erasing of all the frames while it is still in progress, press the "BACK" button.

Protected frames cannot be erased. Unprotect the frames before erasing them (→P.46).

If the "( DPOF SPECIFIED.)" message appears, press the "MENU/OK" button again to erase the files.

To stop the procedure mid-way



Press the "BACK" button to stop erasing all the frames. Some unprotected files will be left unerased.

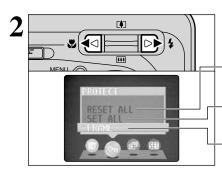
Even if you stop the procedure immediately, some files will be erased.

# PLAYBACK MENU OT PROTECTING IMAGES FRAME, SET ALL, RESET ALL



- ① Set the Mode dial to "▶".
- ② Press the "MENU/OK" button to display the menu screen.

Protection is a setting that prevents frames (files) from being accidentally erased. However, the "FORMAT" function erases all the frames (files), including protected frames (files) (\$\infty\$P.52).



Press "◀" or "▶" to select "◑¬" PROTECT.

#### **RESET ALL**

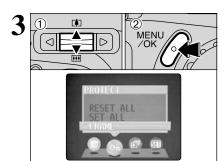
Removes the protection from all the frames (files).

#### SET ALL

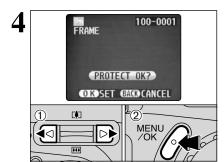
Protects all the frames (files).

#### FRAME

Protects or unprotects only the selected frame (file).



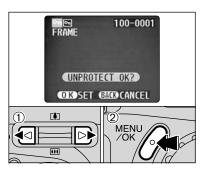
- ① Press "▲" or "▼" to select "FRAME", "SET ALL" or "RESET ALL".
- ② Press "MENU/OK" button to confirm your selection.



#### **FRAME SET**

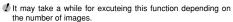
- ① Press "◀" or "▶" to select the file to be protected.
- ② Press the "MENU/OK" button to protect the file currently displayed.

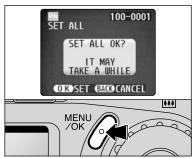
To protect another file, repeat steps ① and ②. To finish protecting files, press the "BACK" button.



## **FRAME RESET**

- ① Press "◀" or "▶" to select the protected file.
- ② Press the "MENU/OK" button to unprotect the displayed file.

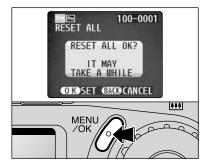




#### **SET ALL**

Press the "MENU/OK" button to protect all the files.

It may take a while for excuteing this function depending on the number of images.



#### **RESET ALL**

Press the "MENU/OK" button to unprotect all the files.

◆ To stop the procedure mid-way ◆



If large number of images are recorded in the **xD-Picture Card**, protecting or unprotecting all the frames may take some time.

If you want to shoot a picture or a movie during the procedure, press the "BACK" button. To then return to protecting or unprotecting all the frames, start the procedure on P.46 from step  $\bf 1$ .

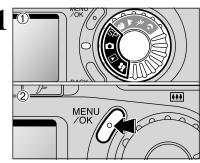
# PLAYBACK MENU AUTO PLAY (AUTOMATIC PLAYBACK)

- MENU /OK / ERASE ALL FRAMES
- ① Set the Mode dial to "▶".
- 2 Press the "MENU/OK" button to display the menu on the screen.

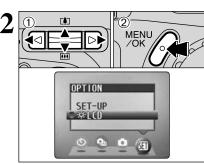
- The Power Save function does not operate during playback. Movie starts automatically. When the preview movie or movie ends, playback moves on to the next frame.
- ① Press "◀" or "▶" to select "➡" PLAYBACK.
- ② Press "▲" or "▼" to choose from 4 automatic playback interval and frame transition setting.
- 3 Press the "MENU/OK" button. The image frames are automatically advanced and played back.
- If you press the "DISP" button once during playback, the playback frame number is displayed on the LCD monitor.
- To interrput "■" PLAYBACK, press the "BACK" button.

4 Settings

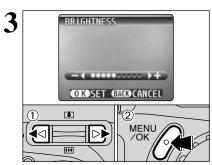
# \* ADJUSTING THE MONITOR BRIGHTNESS



- ① Set the Mode dial to "□", "SP", "▶" or "♣".
- 2 Press the "MENU/OK" button to display the menu on the screen.



- ① Press "◀" or "▶" to select "" OPTION and then press "▲" or "▼" to select "☀LCD".
- 2 Press the "MENU/OK" button.



- ① Press "◀" or "▶" to adjust the LCD monitor brightness.
- 2 Press the "MENU/OK" button to confirm the new setting.

♪ To exit this procedure without changing the settings, press the "BACK" button.

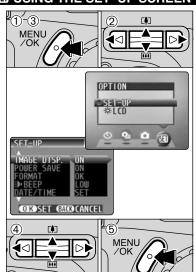
51

# SET-UP

#### ■ SET-UP Menu Options

Settings	Display	Default setting	Explanation	
IMAGE DISP.	ON/OFF	ON This option specifies whether or not an image checking (photography results) is displayed after you take a shot. The photographed image is displayed for a few momen then automatically recorded.		
POWER SAVE	ON/OFF	This option allows you to specify whether the LCD switches off to conserve power if the camera is not used seconds. See P.51 for details.		
FORMAT	OK	-	Erases all files. See P.52 for details.	
<b>∌</b> BEEP	LOW/HIGH/OFF	LOW Sets the volume of the tone emitted when the camera care used.		
DATE/TIME	SET	=	Use this option to correct the date or time. See P.15 for details.	
ŮLCD	ON/OFF	ON	Use this option to specify whether the LCD monitor automatically switched ON or OFF when the Mode dial is s "a".	
FRAME NO.	CONT./RENEW	CONT. Specifies whether frame numbers are assigned conse from previous numbers or begin again. See P.52 for detail		
USB MODE	Ū⇔/ <b>₾</b> PC	Selects the function when the camera is connected to a PC See P.62 for details.		
言語/LANG.	日本語/ENGLISH/ FRANCAIS/DEUTSCH/ ESPAÑOL/中文	ENGLISH	Select English, French or German as the language used f screen display.	
VIDEO SYSTEM	NTSC/PAL	-	Specifies whether video output is set to NTSC or PAL.	
DISCHARGE	OK	-	Discharges rechargeable batteries. See P.11 for details.	
♠RESET	ОК	-	Resets all the camera settings other than the date and tir frame number, language and video output settings to the fact default values set at shipment. Pressing ">" displays confirmation screen. To reset the settings, press the "MENU/C button.	

# **3 USING THE SET-UP SCREEN**



- ① Press the "MENU/OK" button to display the menu screen.
- ② Press "◀" or "▶" to select "៕" OPTION and then press "▲" or "▼" to select "SET-UP".
- ③ Press the "MENU/OK" button to display the SET-UP screen.
- ④ Press "▲" or "▼" to select a menu option and then press "◄" or "▶" to change the setting. Press "▶" for "FORMAT", "DATE/TIME" or "♠RESET".
- (§) After you have modified the settings, press the "MENU/OK" button to confirm the changes.

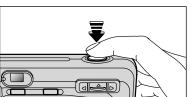
Always switch the camera off when replacing the batteries. If you open the battery cover or disconnect the AC power adapter without switching the camera off, the camera settings may revert to the factory default values set at shipment.

# **POWER SAVE SETTING**



Power consumption is kept to a minimum to prevent battery depletion. You should select the "ON" setting when you are using alkaline batteries.

The POWER SAVE setting is disabled during automatic playback, during rechargeable battery discharging and when a USB connection is being used.



#### Power saving "ON"

① If the camera is not used for approximately 30 seconds, the LCD monitor switches off temporarily to reduce power consumption (The viewfinder lamp (green) flashes at 1-second intervals).

Pressing the shutter button down halfway at this point restores the camera to the ready-to-shoot status.

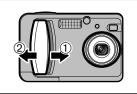
- ② If the camera is left unused for 90 seconds after the LCD monitor switches off, the camera is automatically switched off (the viewfinder lamp switches off).
- The charging time for the flash increases slightly because the flash charging power is reduced.
- If you press the shutter button down halfway and then release it, the screen may go dark briefly because the flash is charging.

If the camera is left unused for about 2 minutes in Playback mode, during setup or while the LCD monitor is switched off, the camera is automatically switched off. However, the LCD monitor does not switch off if the camera is left unused for 30 seconds.

# ● Power saving "OFF"

Batteries are more likely to run flat since no power reduction measures (sleep mode, etc.) are used. However, this function automatically switches the camera off if the camera is not used for approximately 2 minutes.





You can switch the camera back on by briefly switching the camera off ① and then switching it back on again ②.

may revert to the factory default values set at shipment.

# 5 Software Installation

# THE SOFTWARE COMPONENTS

Formatting erases all the frames (files).

Initialize the xD-Picture Card for use in the camera

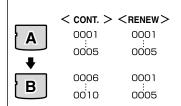
You should copy important files that you do not want to be erased to your computer or another **xD**-**Picture Card** 

- ① Press "◀" or "▶" to select "YES".
- ② Press the "MENU/OK" button to erase all the files and format the **xD-Picture Card**.

Formatting erases protected files also.

If the "CARD ERROR" "WRITE ERROR" "READ ERROR" or "CARD NOT INITIALIZED" message appears before formatting the media, refer to P.75 and take the appropriate measures.

# FRAME NO.



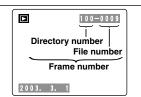
\*Formatted **xD-Picture Card** used for both A and B.

CONT. : Pictures are stored beginning from the highest file number stored on the last xD-Picture Card used.

**RENEW:** Pictures are stored on each **xD-Picture Card** beginning with a file number "0001".

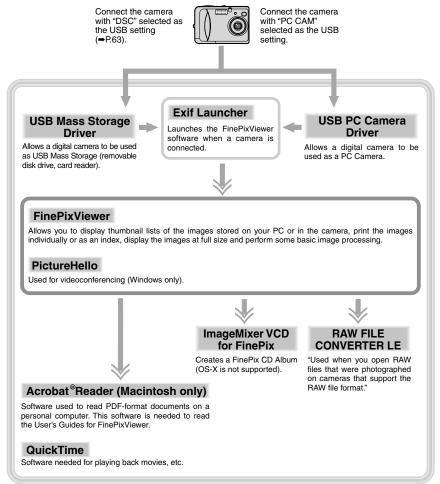
Setting this function to "CONT." makes file management easier as it ensures that file names are not duplicated when images are downloaded to a PC.

If the xD-Picture Card already contains image files with file numbers higher than the highest file number on the last xD-Picture Card, images are stored beginning from the highest file number on the current xD-Picture Card.



You can check the file number by viewing the image. The last 4 digits of the 7-digit number in the top right corner of the screen are the file numbers, while the first 3 digits show the directory number.

- When you change the xD-Picture Card, always switch the camera off before you open the battery cover. If you open the battery cover without switching the camera off, the Frame No. memory may not function.
- ♣ File No. run from 0001 to 9999. Once 9999 is exceeded, the directory number changes from 100 to 101. The maximum number is 999–9999.
- ! The displayed frame number may differ for images photographed on other cameras.
- If the "FILE NO. FULL" message appears, see P.75.



\* Note that the software configuration differs slightly depending on your operating system.

# **INSTALLATION ON A Windows PC**

# Pre-installation checklist (For Windows)

To run this software, you must have the hardware and software described below. Check your system before you begin the installation.

Compatible PCs	IBM PC/AT or compatible*1	
Operating System	Windows 98 (including the Second Edition) Windows Millennium Edition (Windows Me) Windows 2000 Professional* <sup>2</sup> Windows XP Home Edition* <sup>2</sup> Windows XP Professional* <sup>2</sup>	
CPU	200 MHz Pentium or better recommended (800 MHz Pentium Ⅲ or better recommended for Windows XP)	
RAM	64MB minimum (128 MB minimum for Windows XP)	
Hard disk space	Amount required for installation: 140 MB minimum Amount required for operation: 300 MB minimum (When FinePix CD Album Maker is used: 2 GB or better)	
Display	800 × 600 pixels or better, 16-bit color or better	
Internet connection*3	To use FinePix Internet Service, videoconferencing or mail attachment function An Internet connection and e-mail transmission software Connection speed: 56k or better recommended	
Speakers, microphone and sound card		

- \*1 Models with a USB interface as a standard feature and one of the above operating systems preinstalled.
- \*2 When you install the software, log in using a system administrator account (e.g. "Administrator").
- \*3 Required to use the FinePix Internet Service and videoconferencing. The software can still be installed even if you do not have an Internet connection.
- \*4 Sound functions are required for videoconferencing.

# - ♦ NOTE ♦

- Connect the camera directly to the computer using the included USB cable. The software may not
  operate correctly if you use an extension cable or connect the camera via a USB hub.
- If your computer has more than one USB port, the camera can be connected to either port.
- Push the USB connector fully into the socket to ensure that it is securely connected. The software may not operate correctly if the connection is faulty.
- Additional USB interface board is not guaranteed.
- Windows 95 cannot be used.
- Operation is not guaranteed on home-built computers or on computers running updated operating system software.
- If your Internet connection is via a router or via a LAN (connecting machines on the LAN to the Internet), you cannot use videoconferencing.
- If you are using Windows XP and you tick the "Protect my computer and network by limiting or
  preventing access to this computer from the Internet" checkbox in the Internet connection firewall
  settings, videoconferencing cannot be used.
- When you reinstall or remove FinePixViewer, the Internet menu and your user ID and password for the FinePix Internet Service are deleted from your computer. Click the [Register now] button, enter your registered user ID and password and download the menu again.

#### Do not connect the camera to your PC until the software installation is completed.

1 Install FinePixViewer as instructed in the Quick Start Manual.

# **♦** Launching the Installer Manually **♦**

- ① Double-click the "My Computer" icon.
- \* Windows XP users should click "My Computer" in the "Start" menu.
- ② Right-click "FINEPIX" (CD-ROM drive) in the "My Computer" window and select "Open".
- 3 Double-click "SETUP" or "SETUP.exe" in the CD-ROM window.





SETUP

SETUP.exe

- \* The way file names are displayed differs as described below depending on your computer settings.
- File extensions (3-letter suffixes indicating the file type) may be shown or hidden. (e.g. Setup.exe or Setup)
- Text may be shown normally or all in uppercase (e.g. Setup or SETUP).

# - ♦ Installing Other Applications ♦ -

You may see messages for installing QuickTime, NetMeeting, ImageMixer VCD for FinePix and WINASPI. Install these applications as directed by the on-screen instructions. The installation screens for these applications are displayed as required.

After you restart your PC, install DirectX as directed by the on-screen instructions and then restart your PC again. If the latest version of DirectX is already installed on your PC, this installation is not performed.

After you restart your PC, the "FinePixViewer installation completed" message appears.

# **INSTALLATION ON A Mac OS 8.6 TO 9.2**

#### **Pre-installation Checklist**

To run this software, you must have the hardware and software described below. Check your system before you begin the installation.

Compatible Mac	Power Macintosh G3*1, PowerBook G3*1, Power Macintosh G4, iMac, iBook, Power Macintosh G4 Cube or PowerBook G4	
Operating System	Mac OS 8.6 to 9.2.2*2	
RAM	64 MB minimum*3	
Hard disk space	Amount required for installation: 110 MB minimum Amount required for operation: 300 MB minimum (When FinePix CD Album Maker is used: 2 GB or better)	
Display	800 × 600 pixels or better, 16-bit color or better	
Internet connection*4	To use the FinePix Internet Service or mail attachment function An Internet connection and e-mail transmission software Connection speed: 56k or better recommended	
Sound functions*5	Speakers and microphone	

- \*1 Models with a USB port as a standard feature
- \*2 This software does not run correctly in the Mac OS X Classic environment.
- \*3 Turn virtual memory on if necessary.
- \*4 Required to use the FinePix Internet Service. The software can still be installed even if you do not have an Internet connection.



- Connect the camera directly to the Macintosh using the special USB cable. The software may not operate correctly if you use an extension cable or connect the camera via a USB hub.
- Push the USB connector fully into the socket to ensure that it is securely connected. The software
  may not operate correctly if the connection is faulty.
- Additional USB interface board is not guaranteed.
- On Macintosh computers, allocate at least 400 MB of virtual memory when RAW FILE CONVERTER LE is used. If other applications will be used at the same time, allocate the additional amount required for those applications also.

# − ♦ Enable File Exchange ♦

Check whether File Exchange is active.

To use an **xD-Picture Card** that is supported by the camera, the File Exchange utility supplied with Mac OS must be running.

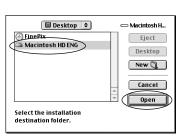
- Switch on your Macintosh and start up Mac OS 8.6 to 9.2.2.
  - Do not connect the camera to your Macintosh until the software installation is completed.
- 2 Select the Extension Manager in the Control Panel and check that the File Exchange check box is ticked. If not, click in the box so that an ⋈ appears and then restart your Macintosh.
- 3 When you load the enclosed CD-ROM into the CD-ROM drive, the "FinePix" window automatically opens.
  - If the "FinePix" window does not open automatically, double-click the CD-ROM icon.
- Double-click "Installer for MacOS8.6-9.x" to launch the Installer.

- **5** The Installer setup screen appears. Click the [Installing FinePixViewer] button.
  - For more information on what is installed, click the [Read Me First] button and [Using FinePixViewer] button.

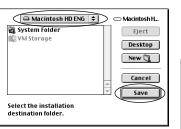


- A confirmation message appears asking whether you want to continue with the installation. Click the [OK] button.
- The User License Agreement for this software is displayed. Read the agreement carefully and then, if you agree to the terms of the Agreement, click the [Yes] button. If you click the [No] button, the software is not installed.
- Select the installation destination for FinePixViewer.

  ① Click the [Open] button to open the installation destination folder.



2 Click the [Save] button.



Install ImageMixer VCD for FinePix as directed by the on-screen instructions.

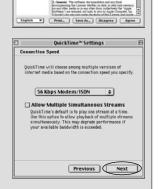
Continued over page...

# **INSTALLATION ON A Mac OS 8.6 TO 9.2**

 $10^{\mathsf{Install}}\,\mathsf{QuickTime}\,\mathsf{as}\,\mathsf{directed}\,\mathsf{by}\,\mathsf{the}\,\mathsf{on}\text{-screen}\,\mathsf{instructions}\,\mathsf{and}\,\mathsf{then}\,\mathsf{restart}\,\mathsf{your}\,\mathsf{Macintosh}.$ 

If you have already installed QuickTime version 5.0.2 or later, this installation is not performed.

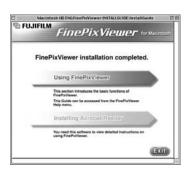
Click [Agree] button in the "License" window.



If the "Connection Speed" window appears after you restart your Macintosh, set the correct speed for your environment of connection and then click the [Next] button.

If you do not know your connection speed, simply click the [Next] button.

After you restart your Macintosh, the "FinePixViewer installation completed" message appears. Click "Using FinePixViewer" to view the basic FinePixViewer functions.



10 To install Acrobat Reader, click "Install Acrobat Reader".

You should install Adobe Systems' Acrobat Reader software to read the FinePixViewer User's Guide (PDF). If you already have the latest version installed, this step is not required.

12 Proceed with the installation as directed by the on-screen instructions.

◆ To install Acrobat Reader later... ◆

- ① Double-click the "FinePix" CD-ROM to open the CD-ROM window.
- ② Double-click "FinePixViewer for Mac OS 8.6-9.x" → "Acrobat Reader" → "English" folder.
- 3 Double-click "English Reader Installer".
- 4 Proceed with the installation as directed by the on-screen instructions.

# **INSTALLATION ON A Mac OS X**

#### **Pre-installation Checklist**

#### ■ Hardware and software requirements

To run this software, you must have the hardware and software described below. Check your system before you begin the installation.

Compatible Mac	Power Macintosh G3*1, PowerBook G3*1, Power Macintosh G4, iMac, iBook, Power Macintosh G4 Cube, or PowerBook G4
Operating System	Mac OS X (compatible with version 10.0.4 to 10.2.2*2)
RAM	192 MB minimum
Hard disk space	Amount required for installation: 110 MB minimum Amount required for operation: 300 MB minimum
Display	800 × 600 pixels or better, at least 32,000 colors
Internet connection*3	To use the FinePix Internet Service or mail attachment function An Internet connection and e-mail transmission software Connection speed: 56k or better recommended

- \*1 Models with a USB port as a standard feature
- \*2 AVI movies cannot be played back on version 10.0.4.
- \*3 Required to use the FinePix Internet Service. The software can still be installed even if you do not have an Internet connection.



- Connect the camera directly to the Macintosh using the special USB cable. The software may not
  operate correctly if you use an extension cable or connect the camera via a USB hub.
- Push the USB connector fully into the socket to ensure that it is securely connected. The software
  may not operate correctly if the connection is faulty.
- Additional USB interface board is not guaranteed.
- On Macintosh computers, allocate at least 400 MB of virtual memory when RAW FILE CONVERTER LE is used. If other applications will be used at the same time, allocate the additional amount required for those applications also.

# ■ Functions not supported in FinePixViewer for Mac OS X

Function	Comment
AVI movie playback	Not supported in version 10.0.4
Batch format conversion	Only supported for still images.
Create data for CD writing	Not supported.
Online updating	Information on updates can be obtained using [Support] in the Internet menu.
Online help	Online help can be viewed by opening "English.pdf" in the installation folder.

#### ■ Using the FinePix Internet Service

The user registration procedure for the FinePix Internet Service and the service upload method are different from those used in Mac OS 8.6 to 9.2.2.

# **INSTALLATION ON A Mac OS X**

Only FinePixViewer is installed on Mac OS X.

AVI movies cannot be played back on version 10.0.4.

Switch your Macintosh on and start up Mac OS X. Do not launch any other applications.

2 Load the enclosed CD-ROM into the CD-ROM drive. The "FinePix" window opens.

If the "FinePix" window does not open automatically, doubleclick the CD-ROM icon.



2 Double-click "Installer for MacOS X".



Click the " 

" icon.



**5** Enter the administrator name and password. Then click the [OK] button.



Click the [Continue] button.

quit any other programs that are running and then click the [Continue] button.

- Click the [Continue] button in the "Software License Agreement" window.
- 9 Select the Mac OS X startup disk as the installation destination and click the [Continue] button.

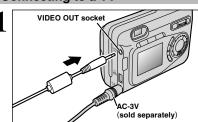


10 Click the [Install (upgrade)] button.

 $\prod_{i=1}^{\infty} \mathbb{R}^{i}$  When you have completed the installation, click the [Restart] button.

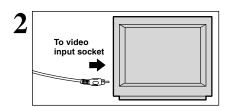


# Connecting to a TV



Switch off the camera and TV. Plug the Video cable (provided with the camera) into the "VIDEO OUT" (video output) socket.

- When you plug the video cable into the VIDEO OUT socket, the LCD monitor display switches off.
- If there is a power outlet available, connect the AC-3V AC Power Adapter.



Plug the other end of the cable into the video input socket on the TV. Then switch the camera and TV on and play back images as you would normally.

Refer to the instructions provided with your TV for more information on video input for your TV.

# Connecting to a computer

The "Camera Connection" section explains how to connect the camera to your computer using the included USB cable and describes the functions you can use once the camera and computer are connected.

If the power cuts out during data transmission, the data will not be transmitted correctly. Always use the AC power adapter when connecting the camera to a computer.

Refer to Section 5 the first time you connect the camera to your computer.

You must install all of the software before connecting the camera to your computer.



CD-ROM (Software for FinePix SX)

# DSC (Mass storage device) Mode

This mode provides a simple way to read images from an **xD-Picture Card** and store images on to an **xD-Picture Card** (→P.63).

# PC CAM (PC Camera) Mode

This function allows you to conduct videoconferencing sessions between PCs connected to the Internet.

- √ Videoconferencing ("PictureHello") is not supported on Macintosh computers.
- Connection is only possible with a FUJIFILM camera equipped with a "PC Camera" function.

For more information on using the software, refer to "How to use FinePixViewer" in the HELP menu which was installed from the CD-ROM.



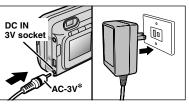
#### You can switch between "DSC" and "PC CAM" in the camera's SET-UP screen.

# Using the optional AC Power adapter

Use only the FUJIFILM "AC Power Adapter AC-3V" or the "AC Power Adapter AC-3VW" bundled with the PictureCradle CP-FXA10 (➡P.71).

Use the AC power adapter to avoid losing power at inconvenient times, such as when you are downloading photographed images to your computer. Using the AC power adapter also allows you to take pictures and play back images without worrying about depleting the batteries.

- See P.73 for notes on using the AC power adapter.
- If you are using the optional cradle, you must use the AC power adapter bundled with the cradle. The use of AC power adapters other than the bundled product will cause faults.
- Only connect or disconnect the AC power adapter when the camera is switched off. Connecting or disconnecting the AC power adapter while the camera is switched on temporarily interrupts the power supply to the camera, so that images or movies being shot at the time are not recorded. Failing to switch the camera off first can also result in damage to the xD-Picture Card or malfunctions during PC connection.



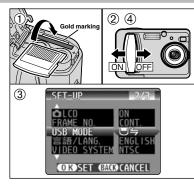
\* Sold separately

Check that the camera is switched off. Plug the AC power adapter connector into the "DC IN 3V" socket and then plug the AC power adapter into the power outlet.

- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- The shape of the plug and socket-outlet depends on the country of use.

Connecting the AC power adapter does not allow you to charge the AA-size nickel-metal hydride batteries. To charge the AA-size nickel-metal hydride batteries, you must use the optional charger (\$\infty\$P.71).

#### Use at DSC mode



Camera

DC IN 3V

(USB) socket

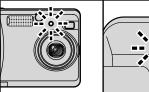
•<- (USB)

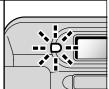
- ① Load an xD-Picture Card containing photographed images into your camera. Plug the AC power adapter connector into the DC IN 3V socket on the camera and then plug the adapter itself into the main power outlet.
- ② Slide the power switch to the side to turn the camera on.
- ③ Set the "USB MODE" setting in the "SET-UP" menu to "□ ←" (→P.50).
- Slide the Power switch to the side to turn the camera off.
- It is recommended that you use the AC Power Adapter AC-3V (sold separately) or the AC Power Adapter AC-3VV bundled with the cradle (sold separately) for the connection. Constant power supply will prevent successful data transfer from trouble caused by power supply.
- ⑤ Switch your PC on.
- (a) Use the included USB cable to connect the camera to your computer.
- 7 Switch the camera on.

Always use the prescribed procedure when disconnecting or switching off the camera (⇒P.66).

- I On Windows XP and Mac OS X, you must specify the automatic launch settings the first time you connect the camera to your computer.
- I Take care to ensure that the included USB cable is connected the correct way around and that the plugs are pushed fully into the connection sockets.

# **Camera Operation**





- When the camera and computer are exchanging data, the self-timer lamp blinks and the viewfinder lamp blinks alternately green and orange.
- "☐⇒DSC" appears on the screen.
- Power Save and Auto Power Off are disabled during USB connection.
- Before replacing the **xD-Picture Card**, always disconnect the camera from the PC using the procedure on P.66.
- Do not disconnect the USB cable when the camera is communicating with the PC. See P.66 for information on the disconnection procedure.

# PC Operation

## Windows 98/98 SE/Me/2000 Professional

- The Windows CD-ROM may also be required during installation. In this event, switch CD-ROMs as directed by the on-screen instructions.
- FinePixViewer automatically starts up.



\* Screen for Windows 98 SE

• A removable disk icon appears and you can use your PC to transfer files to and from the camera.

Windows

Macintosh





Disk

If the above operations do not occur, you do not have the required software programs or drivers installed on your PC. Complete the required PC setup procedures. Then reconnect the camera to your PC.

#### Windows XP

The "Found New Hardware" help message appears in the bottom-right corner of your screen. This message will close when the settings are completed. No action is required.

This step is not required for subsequent connections.



Specify the settings in the "AutoPlay" dialog box.

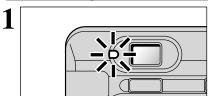
- When FinePixViewer is included in the list of actions to perform Select "Viewing images using FinePixViewer" and then select the "Always do the selected action" checkbox. (This checkbox may not be shown in some cases.) Click the [OK] button to launch FinePixViewer.
  - When FinePixViewer is not included in the list of actions to perform Select "Take no action" and then select the "Always do the selected action" checkbox. (This checkbox may not be shown in some cases.) Click the [OK] button and launch FinePixViewer manually.
- A new removable disk icon appears in the "My Computer" window.

# Regarding the Icons

The next time you connect the camera, the removable disk drive icon and name change to the "FinePix" icon and name.

Proceed to "Using FinePixViewer" on page 67.

# **Disconnecting the Camera**



- ① Quit all applications (FinePixViewer etc.) that are using the camera.
- ② Check that the viewfinder lamp is lit green or that the self-timer lamp is off (no data is being exchanged with the computer).

For a DSC connection, proceed to step 2. For a PC CAMERA connection, proceed to step 3.

- Even when "Copying" is no longer displayed on the computer, the camera and the computer may still be exchanging data. Always check that the viewfinder lamp is lit green or that the self-timer lamp is off.
- Perform the steps shown below before you switch the camera off. This procedure differs depending on the operating system software (or PC) you are using.

#### Windows 98/98 SE

No PC operation is needed.

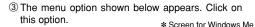
#### Windows Me/2000 Professional/XP

① Right-click the removable disk icon in the "My Computer" window and select Eject. This step is only required in Windows Me.



② Left-click the Eject icon in the taskbar and eject "USB Disk".

\* Screen for Windows Me





④ The "Eject hardware" dialog box appears. Click the [OK] button or the close button.

#### Macintosh

Drag the "Removable drive" icon on the desktop to the Trash.

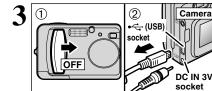
¶ When you drag the icon to the Trash, "

¬REMOVE OK" appears on the camera's LCD monitor.









- 1) Switch the camera off.
- ② Unplug the included USB cable from the camera.

# Mastering FinePixViewer

For all information on FinePixViewer functions, refer to "How to Use FinePixViewer" in the Help menu for details.

#### ♠ Macintosh ◆

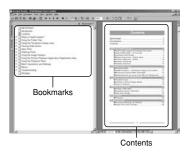
#### ● To read "How to Use FinePixViewer"...

You must install Adobe Systems' Acrobat Reader. See P.58 for information on installing Acrobat Reader.

- What is explained in "How to Use FinePixViewer"...
- "How to Use FinePixViewer" covers a range of topics, including batch processing and ordering prints.

## **■** Example: Looking up slide shows

- ① Click "How to Use FinePixViewer" in the FinePixViewer Help menu.
- ② Search for relevant articles by clicking the corresponding items in the Help "Bookmarks" or "Contents". Here, click "Viewing Slide Shows".



- ③ The "Viewing Slide Shows" information is displayed. Press the "←" key to view the previous page or the "→" key to view the next page.
- For more information on using Acrobat Reader, refer to the Acrobat Reader "Help" menu.



# **Uninstalling the Software**

Only perform this operation when you no longer require the installed software or when the software was not installed correctly.

#### Windows

- 1 Switch on your PC.
- ② Disconnect the camera (⇒P.66).
- 3 Quit all currently running applications.
- 4 Close all files.
- (§) Open the "My Computer" window, open the "Control Panel", and double-click "Add/Remove Programs".



# **USING FinePixViewer**

⑥ The "Add/Remove Programs Properties" window appears. Select the software to be uninstalled (FinePixViewer or the driver) and then click the [Add/Remove] button.



When the confirmation message appears, click the [OK] button. Check your selection carefully since the process cannot be cancelled once you click [OK].



Automatic uninstallation begins.
 When uninstallation ends, click the [OK] button.

#### Macintosh

Only perform this operation when you no longer require the installed software or when the software was not installed correctly.

#### Mac OS 8.6-9.2.2

#### ■ Uninstalling Mass Storage Driver and PC Camera Driver

- ① Check that the camera is not connected to your Macintosh.
- 2 Drag all the files that begin with "USB04CB..." to the Trash.
- 3 Restart your Macintosh.
- 4 Select "Empty Trash" in the "Special" menu.

# ■ Uninstalling Exif Launcher, FinePixViewer and DP Editor

- ① After you have quit Exif Launcher in "Exif Launcher Settings" in the FinePixViewer "Settings" menu, move the Exif Launcher file from the "Startup Items" folder in the System folder to the Trash. Then select "Empty Trash" in the "Special" menu.
- ② After you have exited FinePixViewer and DP Editor drag the installed FinePixViewer folder to the Trash. Then click "Empty Trash" in the "Special" menu.

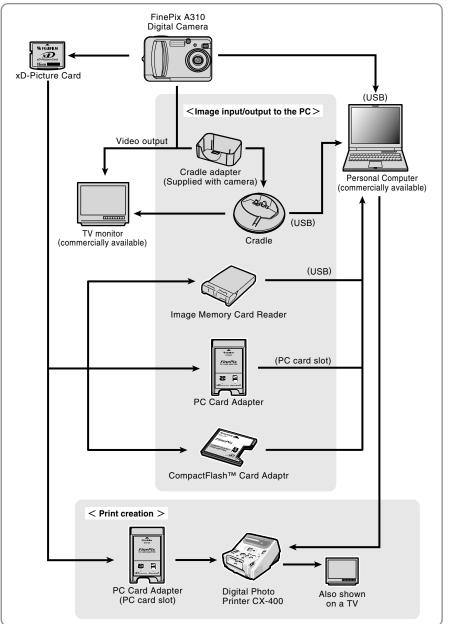
# Mac OS X

#### ■ Uninstalling FinePixViewer

Quit FinePixViewer and DP Editor. Then drag the installed FinePixViewer folder to the Trash and select "Empty Trash" in the "Special" menu.

# **System Expansion Options**

▶ By using the FinePix A310 together with other optional FUJIFILM products, your system can be expanded to fill a wide range of uses.

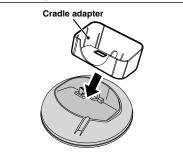


# **System Expansion Options**

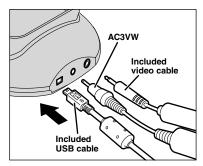
# Overview of the Optional Cradle

I For a detailed description of the cradle and how to use it, refer to the Owner's Manual supplied with the cradle.

#### •Installing the cradle

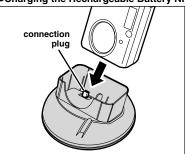


Set the cradle adapter into the cradle.

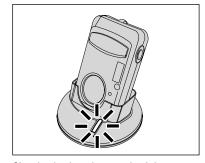


Connect the AC-3VW, included video cable or included USB cable to the cradle.

#### Charging the Rechargeable Battery NH-10



Load the camera containing a Rechargeable Battery NH-10 into the cradle.



Charging begins when you load the camera into the cradle.

#### Taking the camera out of the cradle



Hold the cradle firmly and lift the camera out.

# **Accessories Guide**

The optional accessories (sold separately) can make taking pictures with the FinePix A310 even easier. For information on how to attach and use the accessories, refer to the instructions provided with the accessory used.

Visit the FUJIFILM web site for the latest information on camera accessories. http://home.fuiifilm.com/products/digital/index.html

#### xD-Picture Card

These are separately available xD-Picture Cards.

Use the following xD-Picture Card:

DPC-16 (16 MB)/DPC-32 (32 MB)/DPC-64 (64 MB)/DPC-128 (128 MB)/DPC-256 (256 MB)



Use the AC power adapter when you want to take pictures or play back images for long periods or when the camera is connected to a computer.

Do not connect the AC-3V to the cradle to charge the camera batteries.

\* The shape of the AC power adapter, the plug and socket outlet depend on the country.

# Fuiifilm Rechargeable Battery 2HR-3UF

The 2HR-3UF includes 2 pieces of high-capacity AA-size Nickel-Metal Hydride (Ni-MH)



#### Fujifilm Battery charger with Battery BK-NH (With Euro type or UK type plug)

The BK-NH includes the guick battery charger BCH-NH and 2 Ni-MH batteries. The BCH-NH can charge 2 Ni-MH batteries in approximately 120 minutes.

Up to 4 Ni-MH batteries can be charged simultaneously.

#### PictureCradle CP-FXA10

If you connect the AC power and USB cable to this cradle, you can charge the camera battery pack in the camera or connect the camera to your computer just by placing the

The rechargeable battery NH-10 and AC Power Adapter AC-3VW are bundled with the Picture Cradle CP-FXA10. Comarcially available Ni-MH batteries can not be charged with

To use the cradle for charging the camera batteries, use the AC-3VW power adapter bundled with the cradle.



#### Rechargeable Battery NH-10

This is a battery pack that uses nickel-metal hydride (Ni-MH) batteries. The NH-10 can be charged using the Digital Camera FinePix A310 and Cradle CP-FXA10, or the AC Power

Obtain this battery pack if you need a spare battery after purchasing the cradle. (Note that the NH-10 cannot be charged by itself.)



#### • SC-FXA01

This is a special case made of polyester that protects the camera against soil, dust and minor impacts when it is being carried.

#### DPC-R1 Image Memory Card Reader

The DPC-R1 provides a guick and easy way to transfer images back and forth between your PC and an image memory card (xD-Picture Card and SmartMedia). The DPC-R1 uses the USB interface for high-speed file transfer.

• Compatible with Windows 98/98 SE, Windows Me, Windows 2000 Professional, Windows XP or iMac, Mac OS 8.6 to 9.2, Mac OS X (10.1.2 to 10.2.2) and models that support USB

• Compatible with xD-Picture Card of 16 MB to 256 MB, and SmartMedia of 3.3V, 4 MB to 128 MB.



#### DPC-AD PC Card Adapter

The PC Card Adapter allows the xD-Picture Card and SmartMedia to be used as a PC Card Standard ATA-compliant (PCMCIA 2.1) PC card (Type II).

• Compatible with xD-Picture Card of 16 MB to 256 MB, and SmartMedia of 3.3V, 2 MB to 128 MB.



#### CompactFlash™ Card Adapter

Loading an xD-Picture Card into this adapter allows you to use the card as a CompactFlash card (Type I).

Windows 95/98/98 SE/Me/2000 Professional/XP

Mac OS 8.6 to 9.2/X (10.1.2 to 10.1.5)



# **Notes on Using Your Camera Correctly**

▶ Be sure to read this information in conjunction with "Safety Notes" (→P.82), to ensure that you use your camera correctly.

#### ■ Places to Avoid

Do not store or use the camera in the following types of locations:

- In the rain or in very humid, dirty or dusty places
- In direct sunlight or in places subject to extreme temperature rises, such as in a closed car in summer
- Extremely cold places
- Places subject to strong vibration
- Places affected by smoke or steam
- Places subject to strong magnetic fields (such as near motors, transformers or magnets)
- In contact with chemicals such as pesticides or next to rubber or vinyl products for long periods of time

#### ■ Notes on Immersion in Water or Sand

The FinePix A310 is particularly adversely affected by water and sand. When you are at the beach or close to water, ensure that the camera is not exposed to water or sand. Take care not to place the camera on a wet surface. Water or sand inside the camera can cause faults that may be irreparable.

#### ■ Notes on Condensation

If the camera is carried suddenly from a cold location into a warm place, water droplets (condensation) may form on the inside of the camera or on the lens. When this occurs, switch the camera off and wait an hour before using the camera. Condensation may also form on the **xD-Picture Card**. In this event, remove the **xD-**

Picture Card and wait a short time before using it again.

#### ■ When the Camera is Unused for Long Periods

If you do not intend to use the camera for a long period of time, remove the battery and the **xD-Picture Card** before storing the camera.

#### ■ Cleaning Your Camera

- Use a blower brush to remove dust from the lens, LCD monitor screen or viewfinder, and then wipe lightly with a soft, dry cloth. If any soil remains, apply a small amount of lens cleaning liquid to a piece of FUJIFILM lens cleaning paper and wipe gently.
- Do not scratch hard objects against the lens, LCD monitor screen or viewfinder as these surfaces are easily damaged.
- Clean the body of the camera with a soft, dry cloth.
   Do not use volatile substances such as thinners, benzine or insecticide, as these may react with camera body and cause deformation or remove the coating.

#### ■ Using the Camera Overseas

When travelling overseas, do not place your camera in the check-in baggage. Baggage handling at airports may subject baggage to violent shocks, and the camera may be damaged internally even when no external damage is visible.

# **Notes on the Power Supply**

#### Applicable Batteries

- In the camera, use AA-size alkaline or nickel-metal hydride batteries and the rechargeable battery NH-10.
   Do not use AA-size manganese or nickel-cadmium (Ni-Cd) batteries in your FinePix A310 because the heat generated by the batteries could damage the camera or cause malfunctions.
- The operating lives of alkaline batteries vary between brands and the life of batteries you purchase may be shorter than the alkaline batteries provided with the camera.

#### Notes on the Batteries

Incorrect use of the batteries could cause them to leak, become hot, ignite or burst. Always observe the precautions given below.

- Do not heat the batteries or throw them into a fire.
- Do not carry or store a battery with metal objects such as necklaces or hairpins that could come into contact with the metal positive ⊕ and negative ⊖ poles of the battery.
- Do not expose the batteries to fresh or sea water, and take particular care to keep the terminals dry.
- Do not attempt to deform, disassemble or modify the batteries.
- Do not attempt to peel off or cut the battery outer casing
- Do not drop, strike or otherwise subject the batteries to strong impacts.
- Do not use batteries that are leaking, deformed,

- discolored or exhibit any other obvious abnormality.

   Do not store batteries in very warm or moist
- locations.

   Keep the batteries out of reach of babies and small children.
- When loading the batteries into the camera, ensure that the battery polarity (⊕ and ⊝) is as indicated on the camera.
- Do not use a new battery together with a used battery. In the case of rechargeable batteries, do not use charged and discharged batteries together. Do not use batteries of different types or brands together.
- If you do not intend to use the camera for a long period of time, remove the batteries from the camera. (Note that if the camera is left with the batteries removed, the time and date settings are cleared)
- The batteries may feel warm immediately after being used. Before removing the batteries, switch the camera off and wait until the batteries cool down.
- When replacing the batteries, always fit 2 new batteries.
- Here, "new batteries" denotes newly purchased unused alkaline batteries or a pair of fully charged AA-size Ni-MH batteries that were charged at the same time.
- In cold locations (at temperatures of +10°C/+50°F or below), battery performance deteriorates and the time for which they can be used shortens markedly. This is particularly true of alkaline batteries. In cold conditions, put the batteries in your pocket or a

similar place to warm them before loading them into the camera. If you use a body warmer to warm the batteries, ensure that they are not in direct contact with the warmer.

- Soil (such as fingerprints) on the battery terminals can markedly reduce the number of available shots.
   Carefully wipe the battery terminals clean with a soft dry cloth before loading the batteries.
- ⚠ If any liquid at all leaks from the batteries, wipe the battery compartment thoroughly and then load new batteries.
- If any battery fluid comes into contact with your hands or clothing, flush the area thoroughly with water. Note that battery fluid can cause loss of eyesight if it gets into your eyes. If this occurs, do not rub your eyes. Flush the fluid out with clean water and contact your physician for treatment.

#### ■ Disposing of Batteries

When disposing of batteries, do so in accordance with your local waste disposal regulations.

#### ■ Notes on nickel-metal hydride (Ni-MH) batteries (Rechargeable Battery NH-10 or AA-size Ni-MH batteries)

- Always use the special battery charger to charge AA-size Ni-MH batteries. Charge the batteries as described in the instructions provided with the battery charger.
- Do not use the battery charger to charge batteries other than those specified for use with the charger.
   Note that the batteries may feel warm immediately.
- Note that the batteries may feel warm immediately after being charged.
- When purchased, the NH-10 is not fully charged and may also be "deactivated". Accordingly, you should fully discharge the NH-10 once using the camera's "Discharging" function, and then charge it fully again (=P.10) before using it in the camera.
- The camera mechanism is such that it draws a minute amount of current even when the camera is switched off. Note particularly that AA-size Ni-MH batteries will become discharged if left in the camera for a long period and may become unusable even when recharged.
- AA-size Ni-MH batteries will self-discharge even when not used. Always charge Ni-MH batteries before using them. If the time for which a battery provides power shortens markedly when it has been correctly charged, this indicates that the battery has reached the end of its effective life and should be replaced.
- Soiling such as fingerprints on the terminals of AAsize Ni-MH batteries can significantly reduce the number of available shots. When this occurs, clean the terminals carefully with a soft dry cloth. Then use up the remaining charge in the batteries and recharge them.

AA-size Ni-MH batteries left unused in storage for long periods can become "deactivated". Also, repeatedly charging Ni-MH batteries that are only partially discharged can cause them to suffer from the "memory effect".

When Ni-MH batteries are affected by "memory", the time for which they supply power after being charged once gradually shortens. To prevent this problem, discharge and recharge them several times using the camera's "Discharging rechargeable batteries" function. By repeating this cycle several times, the temporary reduction in performance caused by "memory" or "deactivation" can be remedied and the batteries can be restored to their original performance levels.

- The rechargeable batteries can be charged by installing the camera in the PictureCradle CP-FXA10 (sold separately).
- You cannot use the PictureCradle CP-FXA10 with the camera to charge AA-size Ni-MH batteries.

# AC Power Adapter

Use only the AC-3V AC Power Adapter (sold separately) or the AC-3VW AC Power Adapter (Bandled with PictureCradle sold separately). The use of other AC power adapters may result in damage to your camera.

- The AC-3V cannot be used to charge the NH-10 Rechargeable Battery.
- This AC power adapter is designed exclusively for indoor use.
- Plug the connection cord plug securely into the DC input terminal of the FUJIFILM Digital camera.
- Turn off the power switch of the FUJIFILM Digital camera before disconnecting the connection cord from the FUJIFILM Digital camera's DC input terminal. To disconnect, take hold of the plug and pull it out (do not disconnect it by pulling on the cord).
- Do not use this AC power adapter with any device except the specified device.
- During use, this AC power adapter will become hot to the touch, but this is normal.
- Do not disassemble the AC power adapter. Doing so could be dangerous.
- Do not use this device in a place with high temperature and high humidity.
- Do not drop or subject this device to strong shocks.
- This device may emit a humming noise, but this is normal.
- If used near a radio, this device may cause static, so play the radio in a distant place.

# **Notes on the xD-Picture Card™**

#### **■ Image Memory Card**

 This Image Memory Card is a new image recording media (xD-Picture Card) developed for digital cameras. The Image Memory Card consists of a semiconductor memory (NAND-type flash memory) to record digital image data.

The recording process is electrically performed and enables erasure of existing image data as well as rerecording of new image data.

 When using a new Memory Card, or a Memory Card that has been initialized by a PC, be sure to initialize (format/initialize) the card with your digital camera before using it.

#### ■ Protecting Your Data

- Data may be lost or destroyed in the following situations. Please note that FUJIFILM assumes no responsibility for data that is lost or destroyed.
- Removal of the memory card or turning the power off while the memory card is being accessed (i.e., during record, erase, initialization, and playback operations).
- Improper handling and use of the memory card by the user or third party.
- We recommend saving your important data to another media (i.e., MO disk, CD-R, hard disk, etc.).

#### ■ Notes on Handling xD-Picture Card

- Keep xD-Picture Cards out of the reach of small children. When storing xD-Picture Cards, ensure that they are kept in a location out of the reach of small children to prevent a card being accidentally swallowed. An xD-Picture Card could cause suffocation if accidentally swallowed. If a child swallows an xD-Picture Card, seek medical advice immediately.
- Make sure that the memory card is straight when you insert into the camera etc.
- The memory card is a precision electronic instrument. Do not apply pressure or shock, and avoid bending.
- Do not use the memory card in a hot, humid, or corrosive environment.
- If the contact area on the card is soiled (dust, fingerprints, etc.), wipe it clean with a soft, dry cloth.
- Clean the memory card with a soft dry piece of cloth when dirty.
- xD-Picture Cards should be kept in their special cases or carrying cases when being stored or carried around.
- The memory card can be used reliably for a long period of time, but will eventually lose its ability to store and play back image data. At this point, replace with a new memory card.
- Never remove the xD-Picture Card or switch the camera off during data recording, during data erasing (xD-Picture Card formatting) or during frame advance when images are being played back. These actions could result in damage to the xD-Picture Card.
- The use of xD-Picture Cards is recommended with the FinePix A310.

The camera quality cannot be guaranteed when cards other than those manufactured by FUJIFILM are used.

 The xD-Picture Card may feel warm when it is removed from the camera after extended periods of picture taking or image viewing. This is normal and does not indicate a fault. Do not affix labels to the xD-Picture Card.
 This could result in the label peeling off and causing

# a fault when the card is inserted or removed.

■ Notes on Using xD-Picture Card with a PC

• If you intend to take photos using an xD-Picture
Card that has been used on a PC, format the xD-

Picture Card on your camera.

- When you format an xD-Picture Card in the camera and then shoot and record images, a directory (folder) is automatically created. Image data is then recorded in this directory.
- Do not change or delete the directory (folder) names or file names on the xD-Picture Card from your PC as this will make it impossible to use the xD-Picture Card in your camera.
- Always use the camera to erase image data on an xD-Picture Card.
- To edit image data, copy the image data to the PC's hard disk and then edit the copied data.
- Do not copy files other than those that will be used by the camera.

#### ■ Specifications

Type

Memory type Conditions for use

Temperature: 0°C to +40°C (+32°F to +104°F) Humidity: 80% max (no cond

Dimensions

Humidity: 80% max. (no condensation) 25 mm  $\times$  20 mm  $\times$  2.2 mm (0.98 in.  $\times$  0.79 in.  $\times$  0.09 in.)  $(W \times H \times D)$ 

Image memory card for digital

cameras (xD-Picture Card)

NAND-type flash memory

# **Warning Displays**

The table below lists the warnings that are displayed on the LCD monitor

Warning Displayed	Explanation	Remedy		
(Lit red) (Blinking red)	The batteries in the camera are fully depleted or very low on charge.	Fit new or fully charged batteries.		
! <b>\_</b>	There is a strong likelihood of camera shake because the shutter speed is slow.	Use flash photography. However, a tripod should be used for some scenes and modes.		
!AE	Outside the AE continuous range.	The shot can be taken, but the correct brightness (exposure) will not be obtained.		
!AF	The AF (auto focus) cannot work effectively.	If the image is too dark, take the picture at a distance of around 2 m (6.6 ft.) from the subject.     Use AF lock to take the picture.		
NO CARD	No xD-Picture Card is inserted.	Insert an xD-Picture Card.		
CARD NOT INITIALIZED	The xD-Picture Card is not formatted. The xD-Picture Card contact area is soiled.  Camera fault.	Format the xD-Picture Card in the camera.     Wipe the contact area on the xD-Picture Card with a soft dry cloth. It may be necessary to format the xD-Picture Card. If the error message is still displayed, replace the xD-Picture Card.     Contact your FUJIFILM dealer.		
CARD ERROR	The xD-Picture Card contact area is soiled. The xD-Picture Card is damaged. The xD-Picture Card format is incorrect. Camera fault.	Wipe the contact area on the xD-Picture Card with a soft dry cloth. It may be necessary to format the xD-Picture Card. If the error message is still displayed, replace the xD-Picture Card.     Contact your FUJIFILM dealer.		
CARD FULL	The <b>xD-Picture Card</b> is fully recorded.	Erase some images or use an <b>xD-Picture Card</b> that has ample free space.		
READ ERROR	The file played back was not recorded correctly. The xD-Picture Card contact area is soiled.  Camera fault. You attempted to play a movie that was not recorded on this camera.	Images cannot be played back.  Wipe the contact area on the xD-Picture Card with a soft dry cloth. It may be necessary to format the xD-Picture Card. If the error message is still displayed, replace the xD-Picture Card.  Contact your FUJIFILM dealer.  Movies cannot be played back.		
FILE NO. FULL	The frame number has reached 999–9999.	Insert a formatted xD-Picture Card into the camera.     Set "RENEW" as the FRAME NO. setting in the SET-UP menu.     Start taking pictures. (The frame numbers start from "100-001".)     Set "CONT." as the FRAME NO. setting in the SET-UP menu.		
WRITE ERROR	The data could not be recorded due to an xD-Picture Card error or a connection error between the xD- Picture Card and camera. The photographed image cannot be recorded as it is too large to fit in the available space on the xD-Picture Card.	camera off and then on again. If the erro message is still displayed, contact you FUJIFILM dealer.  • Use a new xD-Picture Card.		
PROTECTED CARD	A protected file was encountered.	Protected files cannot be erased. Remove the protection.		
DPOF FILE ERROR	Prints were specified for 1000 or more frames in the DPOF frame settings.	The maximum number of frames for which prints can be specified on the same <b>xD-Picture Card</b> is 999.  Copy the images for which you want to order prints onto another <b>xD-Picture Card</b> and then specify the DPOF settings.		

# **Warning Displays**

Warning Displayed	Explanation	Remedy		
FOCUS ERROR ZOOM ERROR	Camera malfunction or fault.	Switch the camera on again, taking care not to touch the lens.     Switch the camera off and on again. If the error message is still displayed, contact your FUJIFILM dealer.		
CAN NOT SET DPOF	Movie selected in the DPOF settings.	You cannot use DPOF to order prints of movies.		

# **Troubleshooting**

If you think the camera is faulty, check the following once more

Troubleshooting	Possible causes	Solutions
No power.	The batteries are exhausted. The batteries are loaded backwards. The battery cover is not closed properly. The AC power adapter plug has come out of the power outlet.	Fit new or fully charged batteries.     Load the batteries in the correct direction.     Close the battery cover correctly.     Plug the adapter back in.
Power cuts out during operation.	The batteries are exhausted.	Fit new or fully charged batteries.
Batteries run out quickly.	<ul> <li>You are using the camera in extremely cold conditions.</li> <li>The terminals are soiled.</li> <li>The batteries are flat.</li> </ul>	Put the batteries in your pocket or another warm place to heat it and then load it into the camera just before you take a picture.     Wipe the battery terminals with a clean, dry cloth.     Fit new or fully charged batteries.
No photograph is taken when the shutter button is pressed.	No xD-Picture Card is inserted. The xD-Picture Card is fully recorded.  The xD-Picture Card is not formatted. The xD-Picture Card contact area is soiled. The xD-Picture Card is damaged. The camera was not used for 2 minutes. The batteries are exhausted.	Insert an xD-Picture Card. Insert a new xD-Picture Card or erase some unwanted frames. Format the xD-Picture Card. Wipe the xD-Picture Card contact area with a clean dry cloth. Insert a new xD-Picture Card. Switch the camera on. Fit new or fully charged batteries.
Can't use the flash to take pictures.	The flash is set to Suppressed Flash mode.  You pressed the shutter button while the flash was charging. The batteries are exhausted.	Set the flash mode to Auto, Red-eye Reduction or Forced Flash (The flash cannot be used in some modes).     Wait until charging is completed before pressing the shutter button.     Fit new or fully charged batteries.
I can only select "Suppressed Flash" flash mode.	Continuous shooting is selected.	Set continuous shooting to OFF.
I can only select the "M" quality setting.	• The sensitivity is set to 800 (high- sensitivity photography) in the Photography menu.	• In the Photography menu, set the sensitivity to 400 or less.
The playback image is too dark even though the flash was used.	The subject is too far away.  Your finger was covering the flash/flash control sensor.	Move to within the effective flash range before taking the shot.     Hold the camera correctly.
The image is blurred.	The lens is dirty. The photographed subject was too dark.  You photographed scenery with Macro mode selected. You took a close-up shot without selecting Macro mode. You are shooting a subject that is not suited to autofocusing.	Clean the lens. Try standing approx. 2 m (6.6 ft.) from your subject to take the picture. Cancel Macro mode. Select Macro mode. Use AF/AE lock to take the shot.
There is speckling on the image.	The shot was taken with a slow shutter speed (long exposure) in a high-temperature environment.	This is a characteristic of CCDs and does not indicate a camera fault.
Can't format the <b>xD- Picture Card</b> .	The <b>xD-Picture Card</b> contact area is soiled.	Wipe the <b>xD-Picture Card</b> contact area with a clean dry cloth.

Troubleshooting	Possible causes	Solutions		
Frame erase does not erase the frame.	Some frames may be protected.	Unprotect frames using the camera on which the protection was first applied.		
The ERASE ALL function does not erase all the frames.				
Nothing happens when I use the Mode dial.	Camera malfunction.      The batteries exhausted.	Briefly remove the batteries or disconnect the AC power adapter. Then reload the batteries or reconnect the AC power adapter and try again. Fit new or fully charged batteries.		
There is no image on the TV.	The special video cable was connected during movie playback. The camera is not connected to the TV correctly.  "TV" is selected as the TV input.	Connect the camera and TV correctly.  Connect the camera and TV correctly.  Set the TV input to "VIDEO".		
When the camera is connected to a personal computer (PC), the shot image appears on the camera's LCD monitor.	The included USB cable is not properly connected to the computer or camera.  The PC is not switched on.	Set up the camera and the included USB cable correctly.     Switch the PC on.		
The camera no longer works correctly.	The camera has suffered an unforeseen problem.	Briefly remove the batteries or disconnect the AC power adapter. Then reload the batteries or reconnect the AC power adapter and try again.		

# **Specifications**

System			
Model	Digital camera FinePix A310		
Number of effective pixels	3.1 million pixels		
CCD sensor	1/2.7 inch Super CCD HR in an interwoven pattern		
	Number of total pixels 3.14 million pixels		
Number of recorded pixels	Still image: 2816 × 2120 pixels/2048 × 1536 pixels/1280 × 960 pixels/		
	$640 \times 480$ pixels ( $6M/3M/1M/03M$ )		
	Movie: 320 × 240 pixels (10 frames per second without sound)		
	160 × 120 pixels (10 frames per second without sound)		
Storage media	xD-Picture Card (16/32/64/128/256 MB)		
File format	Still image: JPEG (Exif ver. 2.2)		
	* Design rule for Camera File System compliant DPOF compatible		
	Movie: AVI format, Motion JPEG		
Lens	Fujinon 3× optical zoom lens		
	Aperture: F2.8 to F4.8		
Aperture	F2.8 to F4.8/F7.0 to F11.6 (automatically selected)		
Focus distance f=5.7 mm to 17.1 mm			
	(Equivalent to 38 mm to 114 mm on a 35 mm camera)		
Focal range	Normal: Approx. 60 cm (2.0 ft.) to ∞		
	Macro: Approx. 10 cm (3.9 in.) to 80 cm (2.6 ft.)		
Shutter speed	2 sec. to 1/2000 sec. (depend on Expousure mode)		
Focus	TTL contrast-type, Auto focus		
Sensitivity	Manual: Equivalent to ISO200/400/800 (Image quality fixed at   for shots		
	taken at ISO 800.)		
	AUTO: Equivalent to ISO160-400 (at LCD on and Flash off)		
Photometry	TTL 64-zones metering		
Exposure control	Program AE (exposure compensation available in Manual mode)		
Exposure compensation	-2.1 EV to +1.5 EV in 0.3-step increments (in Manual mode)		
White balance	Auto		
	Manual modes, 7 positions can be selected		
Viewfinder	Real image optical Approx. 80% coverage		
LCD monitor	1.5-inches, 60,000-pixel Amorphous silicon TFT,		
	Approx. 92% coverage		
Flash	Auto flash using flash control sensor		
	Effective range: Wide-angle: Approx. 0.3 m-5.0 m (1.0 ft16.4 ft.)		
	(Approx. 0.3 m-0.8 m (1.0 ft2.6 ft.): Macro)		
	Telephoto-angle: Approx. 0.3 m-4.0 m (1.0 ft13.1 ft.)		
	Flash modes: Auto, Red-Eye Reduction, Forced Flash, Suppressed Flash,		
	Slow Synchro, Red-Eye Reduction + Slow Synchro		
Self-Timer	10 sec.		
Video output	NTSC/PAL selectable		

■ Standard number of available shots/recording time per xD-Picture Card

The number of available shots, recording time or file size varies slightly depending on the subjects photographed. Note also that the divergence between standard number of available shots and the actual number of available shots is greater for xD-Picture Cards with higher capacities.

Tiotale Gardo With higher outpassition.						
Quality	<b>6M</b> 6M	<b>3M</b> 3M	1M 1M	03M 0.3M	Movie 320	Movie 160
Number of recorded pixels	2816 × 2120	2048 × 1536	1280 × 960	640 × 480	320 × 240	160 × 120
Image Data Size	1.5 MB	780 KB	470 KB	130 KB	-	-
DPC-16 (16 MB)	10	19	33	122	Approx. 98 sec.	Approx. 5.6 min.
DPC-32 (32 MB)	21	40	68	247	Approx. 199 sec.	Approx. 11.3 min.
DPC-64 (64 MB)	43	81	137	497	Approx. 6.6 min.	Approx. 22.7 min.
DPC-128 (128 MB)	86	162	275	997	Approx. 13.3 min.	Approx. 45.5 min.
DPC-256 (256 MB)	173	325	550	1997	Approx. 26.7 min.	Approx. 91.2 min.

Accessories

**Optional Accessories** 

Input/Output Terminals	
Video output socket	mini-jack
• 🔄 🖳 (USB) socket	For file transfer to a computer and connection to the optional cradle
DC Input	Socket for specified AC power adapter AC-3V (optional)
	Connection for the AC Power Adapter AC-3VW bundled with the cradle
	(sold separately)

Power Supply and Others	5		
Power supply	Use one of the following:  • 2AA-size alkaline batteries  • Rechargeable Battery NH-10 (optional)  • 2AA-size Ni-MH (Nickel-Metal Hydride) batteries (optional)  • AC-3VW (PictureCradle CP-FXA10, Sold separately)  • AC Power Adapter AC-3V (optional)		
Guide to the number of available shots for battery	Battery Type	With LCD monitor ON	With LCD monitor OFF
operation	Alkaline batteries	Approx. 160 frames	Approx. 250 frames
	Rechargeable Battery NH-10	Approx. 280 frames	Approx. 400 frames
	Ni-MH batteries 1700 mAh	Approx. 250 frames	Approx. 350 frames
	The number of available shots for battery operation given here is a guide to the number of consecutive shots that can be taken under FUJIFILM test conditions.  • Batteries used: Using the alkaline batteries bundled with the camera  Using Ni-MH batteries or the NH-10 Rechargeable Battery at full charge  • Shooting conditions: Measured at normal temperature with 50% flash use  • Note: The number of available shots varies depending on the capacity of the alkaline batteries and the amount of charge in the Ni-MH batteries or NH-10  Rechargeable Battery. Consequently, FUJIFILM makes no guarantee with regard to the numbers of available shots for battery operation given here. Note that the number of available shots will be lower at low temperatures.		
Conditions for use	Temperature: 0°C to +40°C (+32°F to +104°F); 80% humidity or less (no		
	condensation)		
Camera dimensions (W/H/D)	97.0 mm × 63.9 mm × 33.0 mm/3.8 in. × 2.5 in. × 1.3 in.		
O	(not including accessories and attachments)		
Camera mass (weight)	Approx. 155 g/5.5 oz.  (not including accessories, batteries and <b>xD-Picture Card</b> )		
Weight for photography	Approx. 210 g/7.4 oz.		
weight for photography	Approx. 210 g/7.4 02.		

\*These specifications are subject to change without notice. FUJIFILM shall not be held liable for damages resulting from errors in this Owner's Manual.

(including batteries and xD-Picture Card)

See P.7

See P.71

- \* The LCD monitor on your digital camera is manufactured using advanced high-precision technology. Even so, small bright points and anomalous colors (particularly around text) may appear on the monitor. These are normal display characteristics and do not indicate a fault with the monitor. This phenomenon will not appear on the recorded image.
- \* The operation error may be caused in a digital camera by the strong radio interference (i. e. electric fields, static electricity, line noise, etc.).
- \*Due to the nature of the lens, the edges of photographed images may appear distorted. This is normal and does not indicate a fault.

# **Explanation of Terms**

#### Deactivated batteries:

Leaving an Ni-MH battery unused in storage for a long period may cause a rise in the level of substances that inhibit current flow inside the battery and result in a dormant battery. A battery in this state is referred to as deactivated.

Because current flow is inhibited in a deactivated Ni-MH battery, the battery's original level of performance cannot be achieved.

#### DPOF:

#### Digital Print Order Format

DPOF is a format used for recording information on a storage media (image memory card, etc.) that allows you to specify which of the frames shot using a digital camera are printed and how many prints are made of each image.

#### FV.

A number that denotes Exposure Value. The EV is determined by the brightness of the subject and sensitivity (speed) of the film or CCD. The number is larger for bright subjects and smaller for dark subjects. As the brightness of the subject changes, a digital camera maintains the amount of light hitting the CCD at a constant level by adjusting the aperture and shutter speed.

When the amount of light striking the CCD doubles, the EV increases by 1. Likewise, when the light is halved, the EV decreases by 1.

#### Frame rate (fps):

The frame rate is a unit used to indicate the number of images (frames) played back per second. This camera shoots movie files at 10 consecutive frames per second, a rate that is expressed as 10 fps. By comparison, TV images are played at 30 fps.

#### JPEG:

Joint Photographics Experts Group

A file format used for compressing and saving color images. The compression ratio can be selected, but the higher the compression ratio, the poorer the quality of the expanded image.

#### Memory effect:

If an Ni-MH battery is repeatedly charged without first being fully discharged, its performance may drop below its original level. This is referred to as the "memory effect".

#### **Motion JPEG**

A type of AVI (Audio Video Interleave) file format that handles images and sound as a single file. Images in the file are recorded in JPEG format. Motion JPEG can be played back by QuickTime 3.0 or later.

#### C Card

A generic term for cards that meet the PC Card Standard.

#### PC Card Standard:

A standard for PC cards determined by the PCMCIA.

#### PCMCIA:

Personal Computer Memory Card International Association (US).

#### White Balance:

Whatever the kind of the light, the human eye adapts to it so that a white object still looks white. On the other hand, devices such as digital cameras see a white subject as white by first adjusting the color balance to suit the color of the ambient light around the subject. This adjustment is called matching the white balance. A function that automatically matches the white balance is called an **Automatic White Balance function**.

# Exif Print

Exif Print Format is a newly revised digital camera file format that contains a variety of shooting information for optimal printing.

# **Safety Notes**

- To ensure that you use your FinePix A310 camera correctly, read these Safety Notes and your Owner's Manual carefully beforehand.
- After reading these Safety Notes, store them in a safe place.

#### About the Icons

The icons shown below are used in this document to indicate the severity of the injury or damage that can result if the information indicated by the icon is ignored and the product is used incorrectly as a result.

# **⚠ WARNING**

This icon indicates that death or serious injury can result if the information is ignored.

# **⚠** CAUTION

This icon indicates that personal injury or material damage can result if the information is ignored.

The icons shown below are used to indicate the nature of the information which is to be observed.



Triangular icons notify the user of information requiring attention ("Important").



Circular icons with a diagonal bar notify the user that the action indicated is prohibited ("Prohibited").



Filled circles with an exclamation mark notify the user of an action that must be performed ("Required").

# . WARNING

If a problem arises, switch the camera off, remove the batteries, disconnect and unplug the AC power adapter.

Continued use of the camera when it is

emitting smoke, is emitting any unusual

odor, or is in any other abnormal state



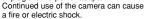
Unplug from

can cause a fire or electric shock.

• Contact your FUJIFILM dealer.

# Do not allow water or foreign objects to enter the camera.

If water or foreign objects get inside the camera, switch the camera off, remove the batteries and disconnect and unplug the AC power adapter.



Contact your FUJIFILM dealer.

Do not use the camera in the bathroom or shower.

This can cause a fire or electric shock.



Never attempt to modify or disassemble the camera. (Never open the casing.) Do not use the camera when it has

Do not use the camera when it has been dropped or the casing is damaged.

This can cause a fire or electric shock.

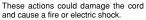
• Contact your FUJIFILM dealer.



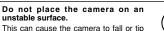
disassemble.

Contact your FootFillin dealer.

Do not modify, heat or unduly twist or pull the connection cord and do not place heavy objects on the connection cord.



 If the cord is damaged, contact your FUJIFILM dealer.



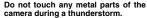


# Never attempt to take pictures while in motion.

over and cause injury.

Do not use the camera while you are walking or operating a moving car or other vehicle.

This can result in you falling down or being involved in a traffic accident.



This can cause an electric shock due to induced current from the lightning discharge.



Do not use the batteries except as specified.

Load the batteries with the poles positioned as indicated by the  $\bigoplus$  and  $\bigcirc$  marks.



# **!** WARNING

Do not heat, modify or attempt to disassemble the batteries.

Do not drop or subject the batteries

to impacts.

Do not attempt to recharge lithium or alkaline batteries.

Do not store the batteries with metallic products.

Do not use chargers other than the specified model to charge the batteries.

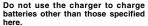
Any of these actions can cause the batteries to burst or leak and cause fire or injury as a result.

Use only the batteries or AC power adapters specified for use with this camera.

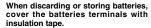
Do not use voltages other than the power supply voltage shown.

The use of other power sources can cause a fire.

If the battery leaks and fluid gets into your eyes or comes into contact with your skin or clothing, this can cause injury or loss of eyesight. Immediately flush the affected area thoroughly with clean water and seek medical treatment.



The charger is designed for Fujifilm HR-AA Ni-MH batteries. Using the charger to charge conventional batteries or other types of rechargeable batteries can cause the battery to leak fluid, overheat or burst.



 Contact with other metallic objects or batteries could cause the batteries to ignite or burst.

Keep xD-Picture Cards out of the reach of small children.

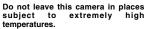
Because xD-Picture Cards are small, they can be accidentally swallowed by small children. Be sure to store xD-Picture Cards out of the reach of small children. If a child accidentally swallows an xD-Picture Card, seek medical advice immediately.



# !\ CAUTION

Do not use this camera in locations severely affected by oil fumes, steam, humidity or dust.

This can cause a fire or electric shock.



Do not leave the camera in locations such as a sealed vehicle or in direct sunlight. This can cause a fire.



Keep out of the reach of small children.

This product could cause injury in the hands of a child.



Do not place heavy objects on the camera.

This can cause the heavy object to tip over or fall and cause injury.



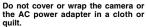
Do not move the camera while the AC power adapter is still connected. Do not pull on the connection cord to disconnect the AC power adapter.

This can damage the power cord or cables and cause a fire or electric shock.



Do not use the AC power adapter when the plug is damaged or the plug socket connection is loose.

This could cause a fire or electric shock.



This can cause heat to build up and distort the casing or cause a fire.



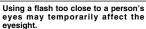
When you are cleaning the camera or you do not plan to use the camera for an extended period, remove the batteries and disconnect and unplug the AC power adapter.

Failure to do so can cause a fire or electric shock.



When charging ends, unplug the charger from the power socket.

Leaving the charger plugged into the power socket can cause a fire.

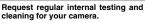


Take particular care when photographing infants and young children.



When an xD-Picture Card is removed, the card may fly completely out of the slot. Use your finger to stop the card from flying out before removing the card.

If an **xD-Picture Card** is allowed to fly out, it could hit someone and cause injury.



Build-up of dust in your camera can cause a fire or electric shock.

• Contact your FUJIFILM dealer to



request internal cleaning every 2 years.





FUJI PHOTO FILM CO., LTD.

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620, Japan http://home.fujifilm.com/products/digital/

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