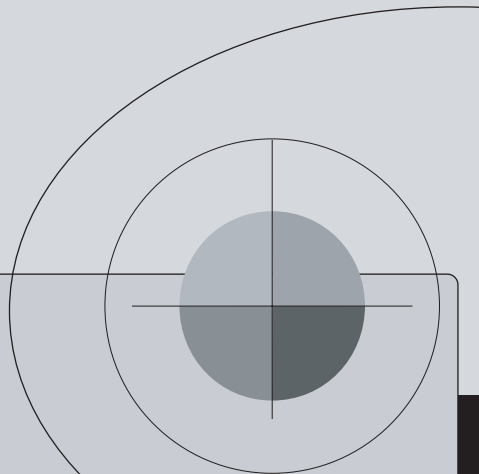


JD 2100 m

JENDIGITAL

**BEDIENUNGSANLEITUNG
USER'S MANUAL
MODE D'EMPLOI
MANUAL DEL USUARIO
MANUALE DI ISTRUZIONI
GEBRUIKSANWIJZING**



JENOPTIK

SYSTEM REQUIREMENTS

IBM PC/AT compatible computer

- MS Windows 98 / 98 SE / 2000 / ME / XP
- 32MB RAM or higher
- 120MB free hard disk space
- VGA colour monitor
- CD ROM driver
- 3.5" floppy disk drive
- USB connection

SYSTEM REQUIREMENTS

Imac, iBook, G3 blue&white series, G4 series

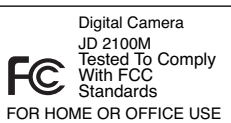
- Mac OS 9 / 9.0.2 / 9.0.4 / 9.1
- 32MB RAM or higher
- 120MB free hard disk space
- VGA colour monitor
- CD ROM drive
- USB connection

Thank you for purchasing the JENOPTIK 2100M.

Please read through this instruction manual so you can enjoy all its features.



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



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.

Do not remove the ferrite cores from the cables.

FOR PROPER AND SAFE USE

Read and understand all warnings and cautions before using this product.

WARNING

Batteries may become hot or explode due to improper use.

- Use only the batteries specified in this instruction manual.
- Do not install the batteries with the polarity (+/-) reversed.
- Do not subject batteries to fire or high temperatures.
- Do not attempt to recharge, short, or disassemble.
- Do not mix batteries of different types, brands, or ages.
- Follow local regulations for battery disposal.

Use caution, accidents may occur when using this product near young children.

Keep batteries or things that could be swallowed away from young children.

Contact a doctor immediately if an object is swallowed.

Immediately remove the batteries and discontinue use if...

- the camera is dropped or subjected to an impact in which the interior is exposed.
- the product emits a strange smell, heat, or smoke.

Do not walk while looking at the monitor.

Do not disassemble. Electric shock may occur if a high voltage circuit inside the camera is touched.

CAUTION

The heat of the camera rises with extended periods of use. Use caution when handling the camera or removing the batteries and compact flash card.

BEFORE YOU BEGIN

Check the packing list before you begin. If some parts are missing, contact your camera dealer or a JENOPTIK Service Facility.

- **JENOPTIK 2100M camera (x 1)**
- **AA-size Alkaline Batteries (x 4)**
- **Video Cable (x 1)**
- **Hand Strap (x 1)**
- **Camera Case (x 1)**
- **USB Cable (x 1)**
- **Software and Documentation on CD-ROM:**

USB Driver Software for :

Windows ® 98/Windows ® 98 SE / Windows ® 2000 / Windows ® ME / Windows ® XP

Instruction Manual (PDF) Windows ® /Macintosh

Adobe PhotoDeluxe 4.0 Family Edition CD-ROM for Windows ®

Adobe PhotoDeluxe 2.0 CD-ROM for Macintosh

QuickTime 5 for Windows and Macintosh

- **Documentation (Printed)**

User's manual (x 1)

Warranty Card (x 1)

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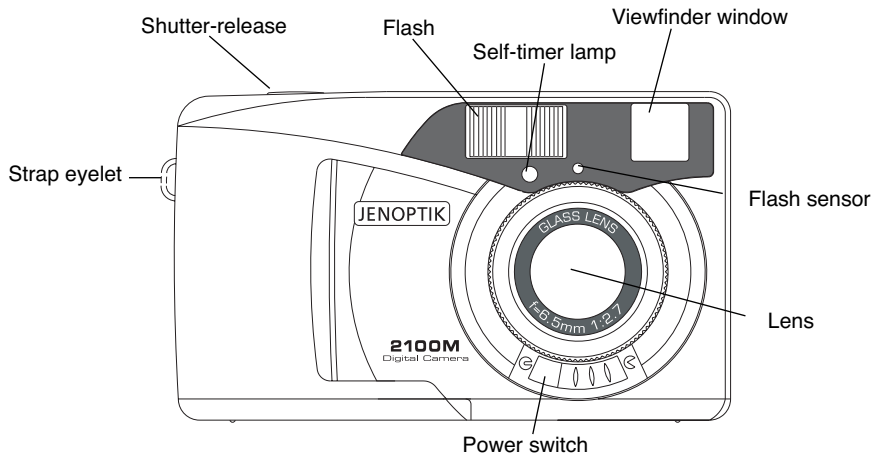
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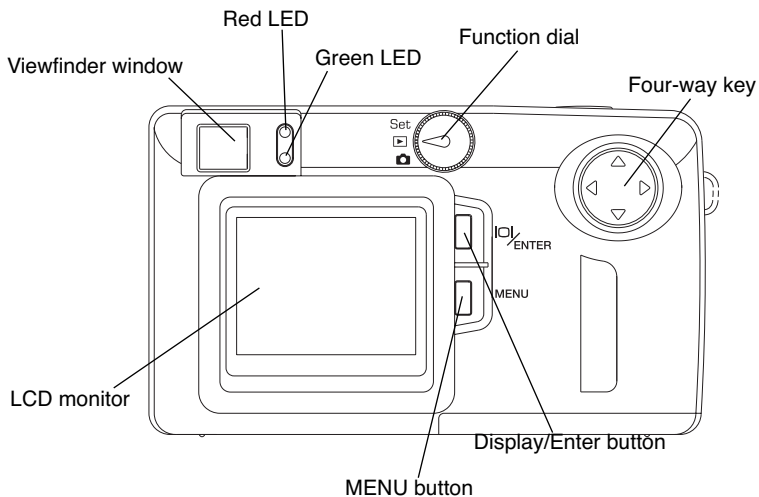
NAMES OF PARTS

CAMERA BODY



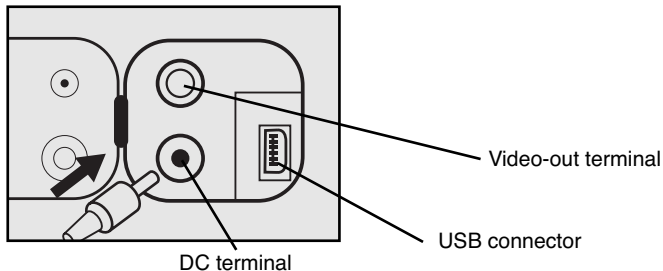
NAMES OF PARTS

CAMERA BODY

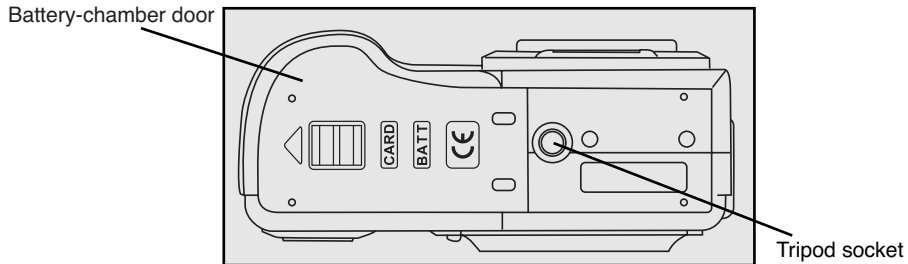


NAMES OF PARTS - CONT'D

INSIDE THE TERMINAL COVER

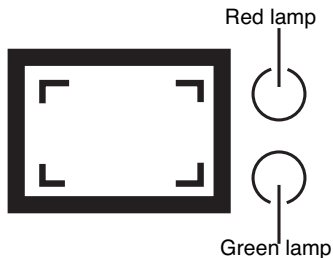


BOTTOM OF BODY



NAMES OF PARTS - CONT'D

VIEWFINDER



Close-framing guide

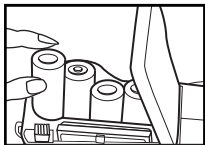
When you shoot a subject which is closer than 1m through the viewfinder, only the part under the close-framing guide is recorded. So, use the LCD monitor to check the image composition when you shoot a subject which is closer than 1m.

NAMES OF PARTS - CONT'D

DESCRIPTION FOR LED LAMP

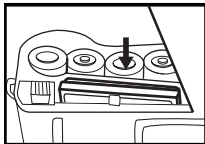
Status	Red LED	Green LED	Description
Ready	---	ON	Normal Status
Busy	---	4HZ blinking	System is in busy status, so it cannot be operated by users. E.g. Flash charging for capture, process recording.
Warning	1HZ blinking	---	E.g. battery low, no CF card, CF card full.
Error	4HZ blinking	---	E.g. Capture failure.
Self-Timer	---	8sec → 2sec → release 1HZ 4HZ ON	Self-timer LED blinking: 8sec → 2sec → release 1HZ 4HZ On
Shooting	ON	ON	At the moment of capturing.
Power On	ON	ON	At the moment of power on.

QUICK REFERENCES



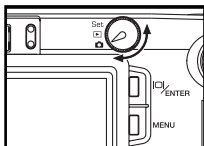
GETTING STARTED

1 Insert the batteries (see page 22).



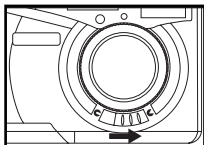
2 Insert the CF card (see page 26).

QUICK REFERENCES - CONT'D



TAKING PICTURES – See page 29 for details.

1 Rotate the function dial to  .

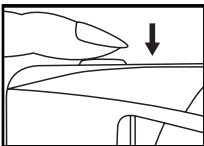


2 Slide the power switch to turn on the camera.



3 Determine the image composition while looking into LCD monitor or viewfinder.

- The default of LCD monitor is switched off, press **ENTER** to turn on LCD monitor.

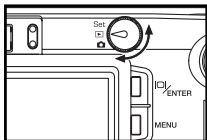


4 Press the shutter-release button to take the picture.

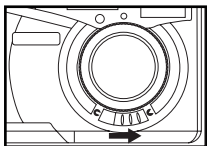
- When the image is in lock, the red and green lamps light up.
- While the captured image is being recording into the CF card, the green lamp blinks (about 4 times in a second).

QUICK REFERENCES - CONT'D

MONITORING THE CAPTURED IMAGES – See page 63 for details.

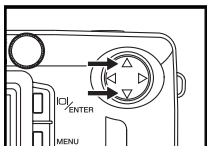




1 Rotate the function dial to .



2 Slide the power switch to turn on the camera.

- The latest image is displayed on the LCD monitor.



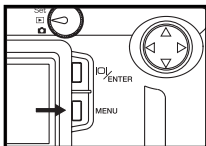
3 When the  or  key is pressed, the display changes to the next or previous image respectively.

QUICK REFERENCES - CONT'D

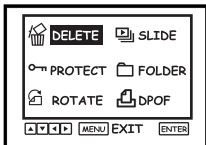
DELETING IMAGES – See page 71 for details.



- 1 Display the image to be deleted on the LCD monitor by performing from steps 1 to 3 of "MONITORING THE CAPTURED IMAGES" described on the previous page.



- 2 Press the **MENU** button.
 - The playback mode menu is displayed on the LCD monitor.

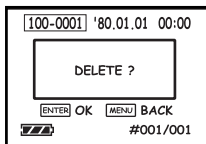


- 3 After confirming that [DELETE] is highlighted, press the **ENTER** key.



- 4 After confirming that [ONE] is pointed, press the **ENTER** button.
 - You may also choose [ALL] to delete all the images in the CF card.
 - The protected images cannot be deleted.

QUICK REFERENCES - CONT'D

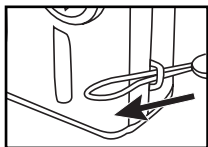


5 Press the **ENTER** button to delete or press the **MENU** button to go back to the previous step.

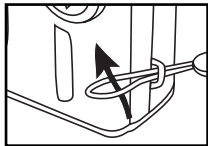
- You can also press  or  to select the images to be deleted.

PREPARATION

THROUGH THE HAND STRAP



1 Insert the small loop of the hand strap through the strap eyelet.

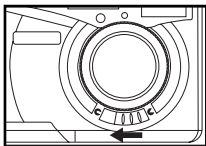


2 Insert the other end of the hand strap through the small loop.

INSERTING THE BATTERIES

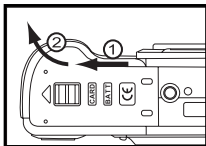
This camera uses four AA-size alkaline or Ni-MH batteries.

* When using AA-size Ni-MH batteries, fully recharge them with a vendor-endorsed battery charger.

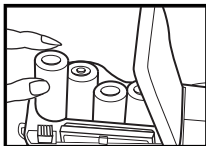


1 When replacing the batteries, slide the power switch to turn off the camera.

- You may skip this step when inserting the batteries for the first time after a purchase.

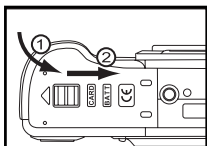


2 Slide the battery-chamber door slightly in the ① direction and open it in the ② direction.



3 Insert the batteries by following the +/- diagram indicated in the back of the battery-chamber door.

INSERTING THE BATTERIES - CONT'D



4 Close the battery-chamber door in the direction of the arrow ① and slide it until it clicks ②.

- After replacing the batteries, check that the built-in clock (date and time) works correctly (See page 108).

If neither AC adapter nor batteries are used more than 5 minutes, the built-in clock may delay or be reset to the default setting. In this case, set the date and time again by following the procedure described on page 108.

- Do not place the camera with the battery-chamber door facing down when the battery-chamber door is open. Doing so may damage the battery-chamber door.
- As the batteries become hot right after the camera is operated, be careful when replacing the batteries.

INSERTING THE BATTERIES - CONT'D

CHECKING THE BATTERY POWER

When the batteries are installed in the camera, the camera checks the battery power automatically and shows the result on the LCD monitor.



The battery power is full.



The battery power is sufficient.



The battery power is low.

- Red LED lamp blinks 1 time per second.
- The flash might not be fully charged, that is, the picture taken with flash may be darker than expected.



The battery power is empty.

- Red LED lamp blinks 4 times per second.
- The camera would be turned off automatically after 2 seconds.

* When nothing is displayed on the LCD monitor , check that the batteries are installed with a correct polarity (+/-). When nothing is displayed even though the batteries are installed correctly, replace the batteries with new ones.

INSERTING THE BATTERIES - CONT'D

POWER SAVE

To save the battery power, This camera will turned off automatically if it is not operated for 2 minutes (Depending on your setting in setup mode). See page 106

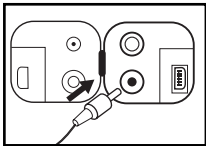
To operate the camera, slide the power switch off and turn on the camera again.

- When using the batteries, the time for the power save function can be changed to 1 minute, 2 minutes, 3 minutes, 5 minutes, 10 minutes or off . See page 106 for details.
- When using the AC adapter (sold separately), this camera will turn off automatically if it is not operated for 10 minutes. (The time for the power save function is fixed in 10 minutes.)
- The power save function is disabled while connecting to PC.

USING THE AC ADAPTER (Sold Separately)

We recommend you to use the AC adapter (sold separately) when using the camera indoor where the AC outlet supplies the power to the camera or when connecting the camera to the personal computer for editing the images.

Be sure to turn off the power of the camera when changing the power supply from the batteries to the AC adapter or vice versa. Do not change it when the power of the camera is turned on.



1 Connect the mini plug of the AC adapter to the DC terminal of the camera.

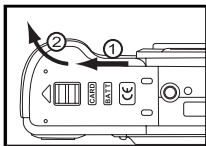
- The Shape of the mini plug may vary depending on the AC adapter.

2 Connect the power plug of the AC adapter to an AC outlet.

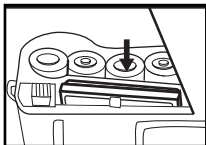
INSERTING/REMOVING THE COMPACT FLASH(CF) CARD

Be sure to turn off the power of the camera when inserting or removing the CF card into or from the camera. Otherwise, the data in the card may be lost or the card may be damaged.

INSERTING THE CF CARD



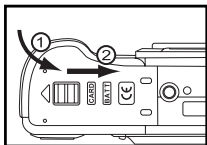
- 1 Slide the battery-chamber door slightly in the ① direction and open it in the ② direction.**



- 2 Insert the CF card into the card slot.**

- Position the flat edge side of the card towards the camera lens and insert the card with the signal part facing down until the card stops.
- Insert the card straight. Do not insert it on the angle.
- If the card stops halfway, check the direction of the card. Forcing the card into the slot may damage the card or the camera.

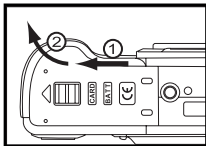
INSERTING/REMOVING THE COMPACT FLASH(CF) CARD



3 Close the battery-chamber door in the direction of the arrow ① and slide it until it clicks ② .

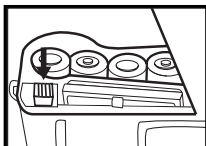
INSERTING/REMOVING THE COMPACT FLASH(CF) CARD

REMOVING THE CF CARD



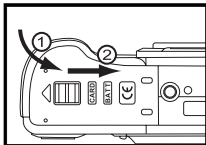
1 Confirm that the power of the camera is turned off.

2 Open the battery-chamber door as shown in the figure.



3 Push in the card-release lever straight.

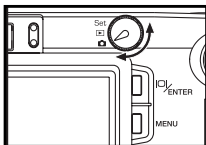
- As the CF card ejects slightly from the camera, pull out the card.
- Be careful with the card because it may be hot.
- Keep the CF card in the protection bag supplied with the card.



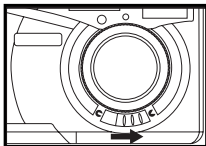
4 Close the battery-chamber door in the direction of the arrow ① and slide it until it clicks ② .

TAKING PICTURES

BASIC RECORDING PROCEDURE



1 Rotate the function dial to  .

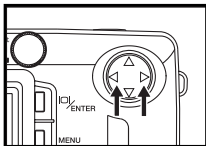


2 Slide the power switch to turn on the camera.





3 Determine the image composition while looking into LCD monitor or viewfinder.

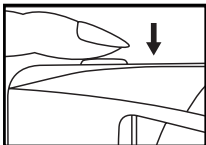
- When holding the camera, be sure not to cover the lens with your fingers and so on.



4 Adjust the image range and size with the  /  keys.

- When the  key is pressed till two seconds, the image size becomes large (Digital zoom mode). When the  key is pressed, the image range becomes wide (Normal mode).

BASIC RECORDING PROCEDURE - CONT'D

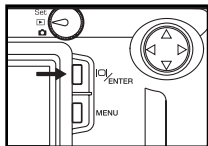


5 Press the shutter-release button.

- The camera adjusts the exposure time and white balance value automatically. The red lamp lights up just at the moment of shooting an image.
- If the green lamp blinks when the shutter-release button is pressed, the flash is being charged.
- The focus range of this camera is 0.5m to infinity.
- The captured image is recorded in the CF card. While the image is recorded, the green lamp blinks fast (4 times in a second) and "WAITTING" blinks on the LCD monitor slowly. Be sure not to open the battery-chamber door, disconnect the plug of the AC adapter or remove the CF card until the recording in the CF card is completed (until the green lamp and "WAITTING" stops blinking). The data in the CF card may be damaged or lost if you do so.

BASIC RECORDING PROCEDURE - CONT'D

THE RECORDING MODE DISPLAY ON THE LCD MONITOR



Each time the **ENTER** button is pressed, the display on the LCD monitor changes in the following order.

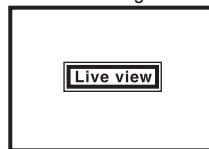
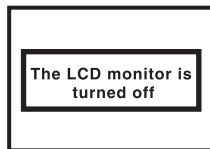
Live view

(The camera settings are displayed)



The LCD monitor is turned off

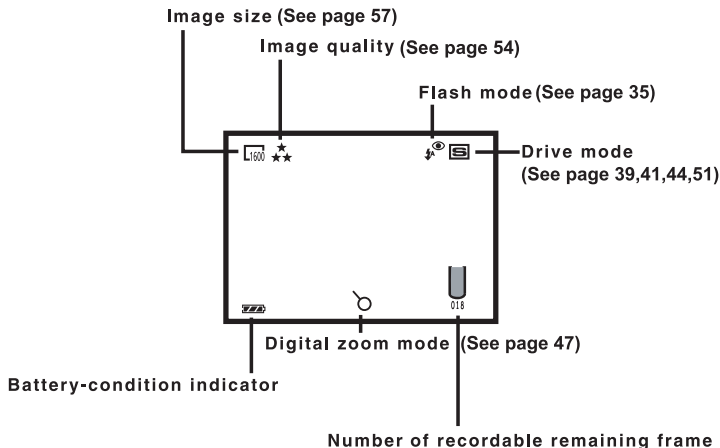
Live view
(The camera settings are not displayed)



BASIC RECORDING PROCEDURE - CONT'D

THE DISPLAY OF THE CAMERA SETTINGS

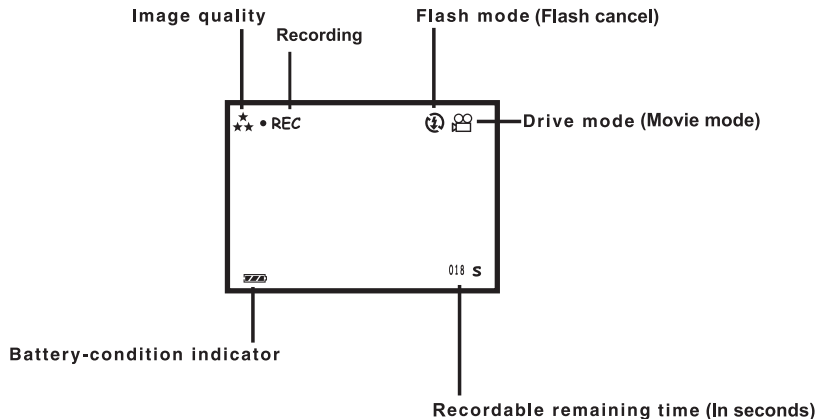
(For details, see the pages in parentheses)



BASIC RECORDING PROCEDURE - CONT'D






THE DISPLAY OF THE CAMERA SETTINGS - MOVIE MODE

(For details, see the pages of movie mode shoot in page 39)



FLASH

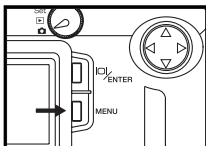
With this camera, the following 5 flash modes are available. You can select them according to your purpose or condition.

 AUTO W/RED-EYE	The flash fires the short burst 2 times before the main flash burst for reducing the red-eye phenomenon. Select this mode when taking the picture of people or animals in the dark
 AUTO	The flash fires automatically when the light level is low or the subject is backlit.
 FILL-IN	The flash fires every time a picture is taken regardless of the light level or backlight. Select this mode to reduce the harsh shadows when you take the picture outdoor and the subject's face is shaded with a hat and so on.
 FORCE OFF	The flash does not fire. Select this mode when taking a picture in the place where the flash photography is prohibited such as in a museum, etc.
 SLOW SYNC	The flash fires automatically. In this mode, the exposure time is increased. Select this mode to increase the brightness of images when the object to be captured is dark and at a distance.

- The flash range is between 0.5m to 2.5m.

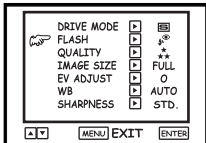
FLASH -CONT'D

SELECTING THE FLASH MODE

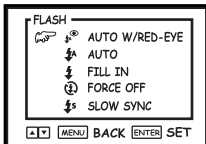


1 Rotate the function dial to and press the **MENU** button.

- The recording mode menu is displayed on the LCD monitor.

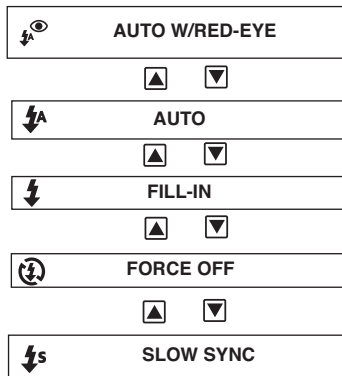


2 After confirming that [FLASH] is pointed, press the **ENTER** key into [FLASH] menu.



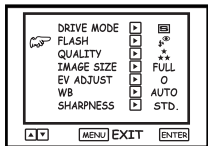
3 Press the or key so that the desired flash mode is pointed.

- The flash mode changes in the following order.



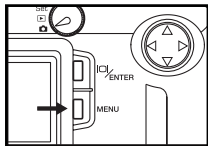
FLASH -CONT'D

4 Press the **ENTER** key to set.



5 Press the **MENU** button back to main menu

- The selected flash mode is displayed with the icon shown on the main menu.



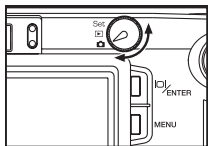
6 Press the **ENTER** button.

- The icon of the selected flash mode is displayed on the upper right side of the LCD monitor when Live view is selected.
- The flash mode returns to "AUTO W/RED-EYE" when the camera is turned off and on again.

ADVANCED OPERATIONS

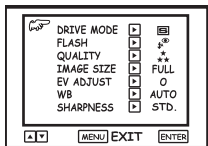
MOVIE MODE SHOOT



In movie mode, you can record the motion images. There is no limit for the length of a movie piece, as long as the CF Card space is sufficient.





1 Rotate the function dial to  and press **MENU button.**

- The recording mode menu is displayed on the LCD monitor.

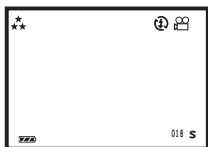


2 Press the  or  key so that [DRIVE MODE] is pointed and press the **ENTER key into [DRIVE MODE] menu.**



3 Press the  or  key so that [MOVIE] is pointed and press the **ENTER key to set.**

MOVIE MODE SHOOT-CONT'D



4 Press the **MENU** button twice to cancel menu.


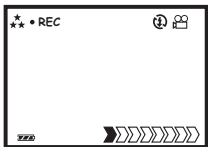
- The LCD monitor shows that movie mode icon  on the upper side and available recording time in the button-right corner. (See page 34)
- The available recording time of the motion image using the CF card of 8 MB standard shooting time is as follows:

Image Quality	Fine	Standard	Economy
Available recording time (SEC.)	Approx. 12	Approx. 24	Approx. 48



- Shooting begins when you press the shutter-release button to shoot.
- A "recording time bar" is displayed on the LCD monitor during shooting.
- When you press the shutter-release button during shooting, shooting stops and the movie is recorded onto the CF card.

BURST IMAGE CAPTURE

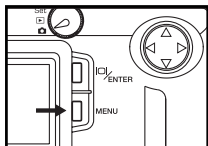
This digital camera can continuously take pictures while the shutter-release button is pressed.

The maximum number of images that can be captured at a time as follows:

The maximum number of the pictures (as a guide)	
FULL size	HALF size
2 pictures	8 pictures

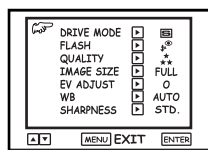
* See page 54 for the image quality and page 57 for the image size (FULL or HALF size).



* The number of the picture you can take sequentially at a time described on the list above can be referred as a guide.



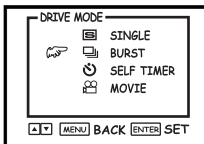
1 Rotate the function dial to  and press the **MENU button.**

- The recording mode menu is displayed on the LCD monitor.



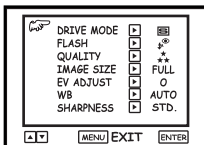
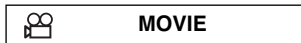
2 Press the  or  key so that [DRIVE MODE] is pointed and press the **ENTER key into [DRIVE MODE] sub-menu.**

BURST IMAGE CAPTURE -CONT'D

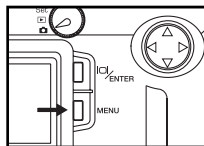


3 Press the or key so that BURST mode is pointed then press **ENTER** key to set.

- The drive mode changes in the following order.



4 Press the **MENU** button back to main menu.



5 Press the **MENU** button.

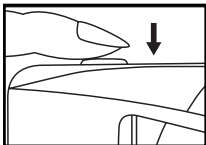
- The burst shot icon appears on the upper right side of the LCD monitor. (See page 33)
- The flash mode is set to "FORCE OFF" automatically. When taking a burst shot or movie mode shot, the flash does not fire.

When the single shot or the self-timer shot is selected, the flash mode returns to "AUTO W/RED-EYE".

BURST IMAGE CAPTURE -CONT'D



- 6 Determine the image composition while looking into LCD monitor or viewfinder and adjust the image range and size with the ◀ or ▶ key.**
- When the ▶ key is pressed(delay 2 sec), the image size becomes large (Digital zoom mode),
When the ◀ key is pressed, the image range becomes wide (Normal mode).

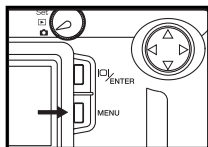



7 Press the shutter-release button.

- The camera adjusts the exposure time and white balance value automatically and these adjustments are applied to all images in the burst shot mode.
- When the adjustment is finished, the red lamp lights up just at the moment of shooting an image.
- When maximum number of pictures are taken, the burst shot is completed.
- Burst shot mode is not cancelled until another mode is selected or the camera is turned off.
- The single shot mode returns when the camera is turned off and on again.

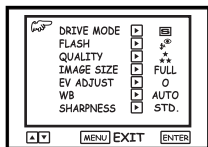
SELF-TIMER

The picture is taken about 10 seconds after the shutter-release button is pressed.

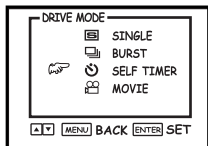



1 After fixing the camera on the tripod, rotate the function dial to  and press the **MENU button.**

- The recording mode menu is displayed on the LCD monitor.

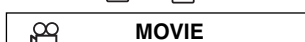


2 Press the  or  key so that [DRIVE MODE] is pointed and press the **ENTER key into [DRIVE MODE] menu.**

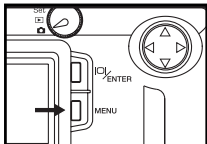


3 Press the  or  key so that SELF-TIMER mode is pointed then press the **ENTER key to set.**


- The drive mode changes in the following order.



SELF-TIMER -CONT'D





4 Press the **MENU** button twice to cancel menu.

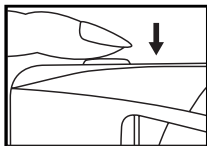
- The self-timer shot icon  appears on the upper right side of the LCD monitor. (When Live view is selected.)



5 Determine the image composition while looking into LCD monitor or viewfinder and adjust the image range and size.

- When the  key is pressed, the image size becomes large (Digital zoom mode).
When the  key is pressed, the image range becomes wide (Normal mode).

SELF-TIMER - CONT'D



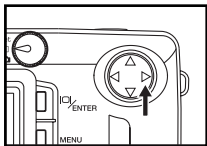
6 Press the shutter-release button to start timer.

- The camera adjusts the exposure time and white balance value automatically. When the adjustment is finished, the red lamp lights up and the timer starts.
- While the self-timer is functioning; the self-timer lamp on the front of the camera and green lamp blinks(1HZ --> 8 seconds,4HZ-->2 seconds). As the time to take the picture is closer, the lamp blinks faster. And just before taking the picture, the lamp lights up to show the time to take a shot.
- The remaining time of taking a shoot is displayed on the righthand side of the LCD monitor when live view is selected.
- The beep sounds at the time when the self-timer blinks. (The beep can be cancelled with the menu in the SETUP mode.)
- After taking the self-timer shot, the drive mode returns to single shot.


* To cancel a self-timer shot, rotate the function dial to  or SET.

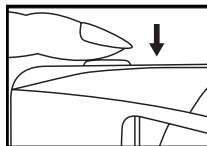
DIGITAL ZOOM

The digital zoom function can increase the magnification of the optical zoom lens to 2 times.




1 In LIVE VIEW mode press and hold the  key for more than 2 seconds.

- The digital zoom function is set, the magnifier icon  appears on the bottom of LCD monitor.
- When digital zoom is functioning, the LCD monitor cannot be turned off.
- There is no digital zoom function in movie mode shot.

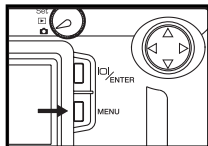


2 Press the shutter-release button to take a picture.

- The camera adjusts the exposure time and white balance value automatically. When the adjustment is finished, the red lamp lights up at the moment of shooting an image.
- Even after taking a picture. The digital zoom is not cancelled. To cancel the digital zoom function, press and hold the  key.

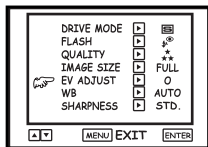
EXPOSURE COMPENSATION



This function makes the image brighter or darker by adjusting the exposure compensation value for CCD. The bigger the exposure compensation value is, the brighter the image is and the smaller the exposure compensation value is, the darker the image is.

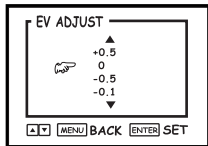




1 Rotate the function dial to  and press the **MENU button.**

- The recording mode menu is displayed on the LCD monitor.



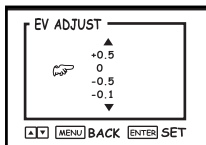
2 Press the  or  key so that [EV ADJUST] is pointed and press the **ENTER key into [EV ADJUST] sub-menu.**



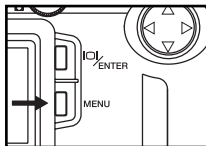
3 Press the  or  key that the desired exposure compensation value appears.

- The exposure compensation value from +2.0 to -2.0 can be specified by 0.5 step.

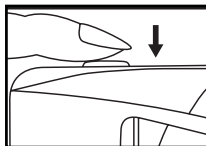
EXPOSURE COMPENSATION- CONT'D



4 Press the **ENTER** key to set.



5 Press the **MENU** button twice to cancel menu.



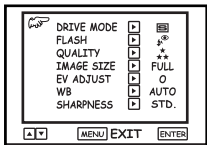
6 Press the shutter-release button to take a picture.

- * To cancel the exposure compensation function, follow the operation steps described above and specify 0 for the exposure compensation value, or turn off and on the camera again.
- * When the image to be captured is whitish, increase the exposure compensation value so that the white part can be easily represented, on the other hand, when the image to be captured is blackish decrease the exposure compensation value so that the black part can be easily represented.

SPECIFYING THE RECORDING MODE

SPECIFYING THE RECORDING MODE

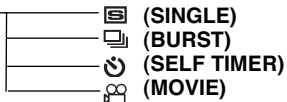
THE RECORDING MODE MENU DISPLAY (LCD Monitor)



THE RECORDING MODE MENU ITEMS

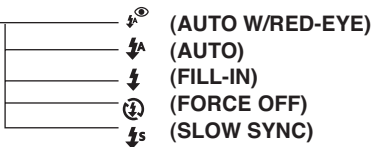
DRIVE MODE

(See page 39,41,44)



FLASH

(For the Flash mode,
see page 35)



SPECIFYING THE RECORDING MODE - CONT'D

QUALITY _____
(For the Image quality, see page 54)

_____	☆☆ FINE
_____	☆☆ STANDARD
_____	★ ECONOMY

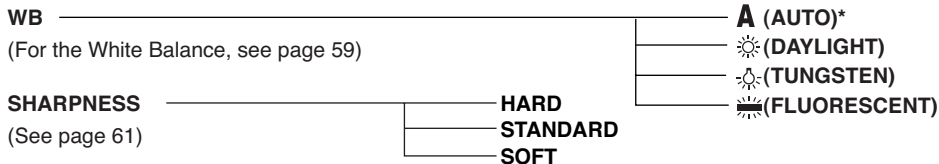
IMAGE SIZE _____
(See page 57)

_____	 (1600X1200)
_____	 (800X600)

EV ADJUST _____
(For the Exposure compensation see page 48)

_____	+2.0
_____	+1.5
_____	+1.0
_____	+0.5
_____	0*
_____	-0.5
_____	-1.0
_____	-1.5
_____	-2.0

SPECIFYING THE RECORDING MODE - CONT'D



* The settings indicated with *mark are resumed when the power of the camera is tuned off and on, or when the batteries are removed and inserted, For "QUALITY" and "IMAGE SIZE", the camera memorizes the last setting before the power of the camera is turned off or before the batteries are removed.

* For "FLASH" mode, see page 35. For the exposure compensation, see page 48. For the "DRIVE MODE (MOVIE MODE SHOOT)", see page 39. For the "DRIVE MODE (BURST IMAGE CAPTURE)", see page 41. For the "DRIVE MODE (self-timer shot)", see page 44.

Only the 4 items of "QUALITY" (image quality), "IMAGE SIZE", "WB" (white balance) and "SHARPNESS" are described on the following pages.

SPECIFYING THE IMAGE QUALITY MODE

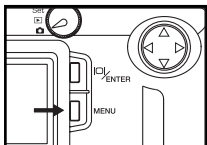
This camera has 3 image quality modes; "FINE", "STDANDARD" and "ECONOMY".

The image quality is related to the compression rate of the image. The compression rate is higher in the order of "FINE" → "STANDARD" → "ECONOMY". The higher the compression rate is, the lower the image quality is. When you want high quality images, select "FINE". However, as the compression rate is low, the number of the images to be recorded in the CF card is less than that in the "STANDARD" or "ECONOMY" mode. When you want to record images in the card as much as possible, select "STANDARD" or "ECONOMY". However, as the compression rate is high, the image quality is lower than that in the "FINE" mode.

The approximate storage capacity is as following.(Using a 8MB CF Card.)

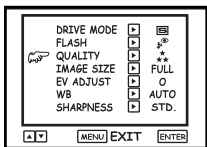
Approximate Storage Capacity (8 MB CF Card)		Fine	Standard	Economy
	Full--Still 1600x1200	12 images	24 images	48 images
	Half--Still 800x600	48 images	96 images	192 images
	Movie 320x240	30 sec.	45 sec.	75 sec.
No length limit for one piece of movie as long as the CF card space is sufficient.				

SPECIFYING THE IMAGE QUALITY MODE CONT'D



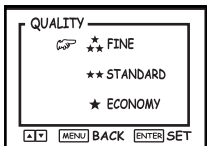
1 Rotate the function dial to and press the **MENU** button.

- The recording mode menu is displayed on the LCD monitor.



2 Press the or key so that [QUALITY] is pointed and press the

ENTER key into [QUALITY] sub-menu.



3 Press the or key so that the desired image quality mode is pointed, press the **ENTER** key to set.

- The image quality mode changes in the following order.

FINE

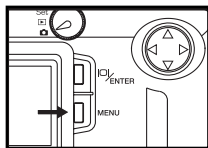


STDANDARD



ECONOMY

SPECIFYING THE IMAGE QUALITY MODE CONT'D



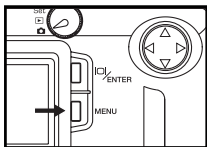
4 Press the **MENU** button twice to cancel menu.


- * It does not matter if there are images recorded in different image quality modes in a CF card.
- * The setting of the image quality mode is stored in the camera's memory even after the camera is turned off.
- * Changing the image quality mode affects the remaining number of images which can be recorded in the card. (In movie mode, the remaining time is effected.) Selecting "FINE", in particular, may considerably reduce the remaining number of imaged.
We recommend you to check the number of recordable remaining frames on the LCD monitor.

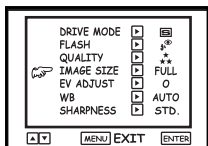
SPECIFYING THE IMAGE SIZE MODE

Changing the image size affects the number of the image which can be recorded in the CF card. The "1600" or "800" size can be selected.

Image Size	Number of Pixels (W x H)
1600	1600 x 1200
800	800 x 600

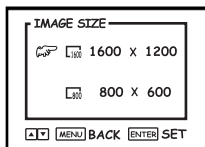


- 1 Rotate the function dial to  and press the **MENU** button.**
- The recording mode menu is displayed on the LCD monitor.



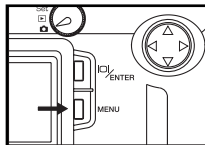
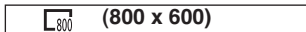
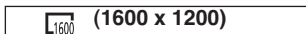
- 2 Press the  or  key so that [IMAGE SIZE] is pointed and press the **ENTER** key into [IMAGE SIZE] menu.**

SPECIFYING THE IMAGE SIZE MODE - CONT'D



3 Press the  or  key so that the desired image size mode is pointed, press the **ENTER** key to set.

- The image size mode changes in the following order.






4 Press the **MENU** button twice to cancel menu.

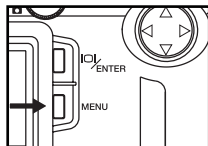
- The selected image size mode is specified and displayed on the left of the image quality on the upper left side of the LCD monitor (see page 33).

- * The setting of the image size is stored in the camera's memory even after the camera is turned off.
- * Changing the image size affects the remaining number of images which can be recorded in the card. We recommend you to check the number of recordable remaining frames on the LCD monitor when you change the image size.

SPECIFYING THE WHITE BALANCE MODE

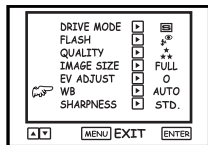
This camera has four white balance modes.



A	Auto This adjusts the white balance according to the light source incident on the CCD. Normally select this mode.
	Daylight Select this mode when taking the picture of the subject illuminated by a sunlight.
	Tungsten Select this mode when taking the picture of the subject illuminated by an incandescent light or tungsten light.
	Fluorescent Select this mode when taking the picture of the subject illuminated by a fluorescent light.



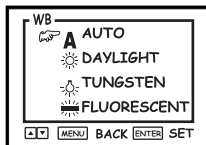
1 Rotate the function dial to  and press the **MENU** button.




- The recording mode menu is displayed on the LCD monitor.



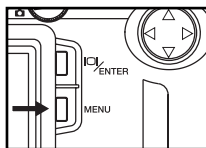
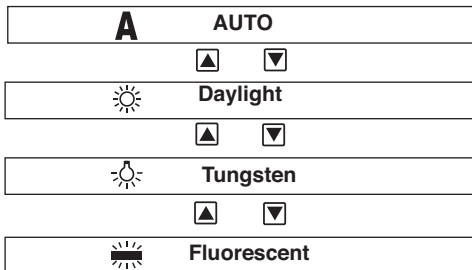
2 Press the  or  key so that [WB] is pointed and press the **ENTER** key to [WB] sub-menu.

SPECIFYING THE WHITE BALANCE MODE - CONT'D



3 Press the  or  key so that the desired white balance mode is pointed, press the  key to set.

- The white balance mode changes in the following order.



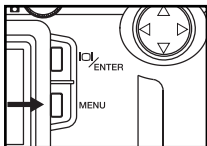
4. Press the  button twice to cancel menu.

- * The white balance mode returns to "AUTO" automatically when the camera is turned off and on again.

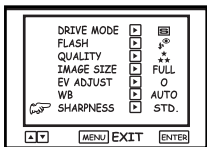
SPECIFYING THE SHARPNESS MODE

This camera has three sharpness modes as described below.

HARD	This enhances the sharpness of image.
STANDARD	No effect of sharpness.
SOFT	This reduces the sharpness of image and makes an image soft.

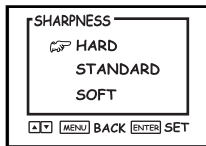




- 1 Rotate the function dial to and press the **MENU** button.
 - The recording mode menu is displayed on the LCD monitor.



- 2 Press the or key so that [SHARPNESS] is pointed and press the **ENTER** key into [SHARPNESS] sub-menu.

SPECIFYING THE SHARPNESS MODE - CONT'D



3 Press the  or  key so that the desired sharpness mode is pointed, press the **ENTER** key to set.

- The sharpness mode changes in the following order.

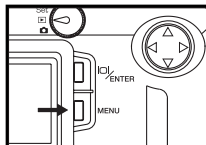
HARD



STANDARD



SOFT

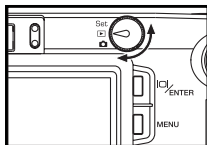


4 Press the **MENU** button twice to cancel menu.

PLAYBACK MODE

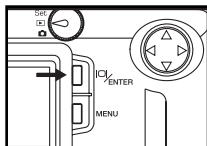
THE PLAYBACK MODE DISPLAY ON THE LCD MONITOR

THE PLAYBACK MODE DISPLAY ON THE LCD MONITOR

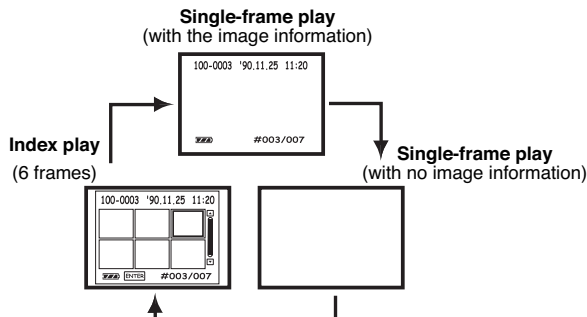


1 Rotate the function dial to  .

- The function dial can be rotated even when the camera is turned on.



2 Each time the **ENTER** button is pressed, the display on the LCD monitor changes in the following order.



THE PLAYBACK MODE DISPLAY ON THE LCD MONITOR - CONT'D

THE IMAGE INFORMATION DISPLAY IN THE PLABACK MODE

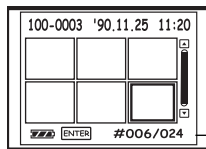
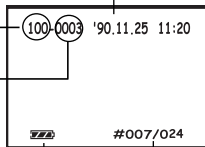
Recorded DCF name,date and time of the image

Folder name

File name

Battery-condition indicator

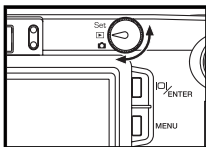
Frame number of the image/Total frame number recorded in the CF card



When the camera enters the index play mode, the highlighted image is the image displayed in the single-frame play mode.

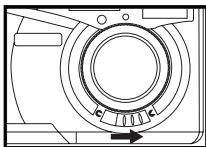
SINGLE-IMAGE PLAY

The images recorded in the CF card can be displayed on the LCD monitor.



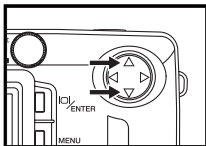
1 Rotate the function dial to .

- The function dial can be rotated even when the camera is turned on.







2 When the camera is not turned on, slide the power switch to turn on the camera.

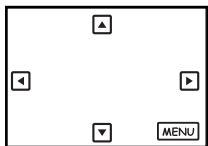
- In a while, the latest image (last recorded) is displayed on the LCD monitor.




3 Press  or  key to display the desired image.

- When the  key is pressed, the following image is displayed. When the  key is pressed, the preceding image is displayed.
- When the latest image (last recorded) is displayed and the  key is pressed, the oldest image (first recorded) is displayed.
- When the oldest image (first recorded) is displayed and the  key is pressed, the latest image (last recorded) is displayed.

SINGLE-IMAGE PLAY-CONT'D







4 When the image is still . Press to zoom in and view it.

- In zoom view , press four-way key to adjust the position.
- Press  to cancel zoom view mode.

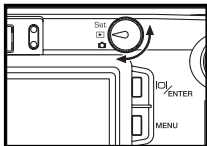


5 When the image is motion JPG image, Press to play it.

- The motion image can be played, only when  PLAY / PAUSE  STOP information displayed on the monitor. Therefore, in order to play the motion image, please make sure that the playback mode with information displayed is selected.
- When the motion image is playing, press  to "PLAY/PAUSE" or  to "STOP".

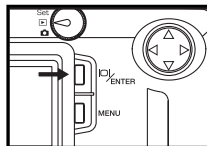
INDEX PLAY

This mode allows you to display 6 frames at a time on the LCD monitor. It is convenient for searching the desired image quickly.



1 Rotate the function dial to .

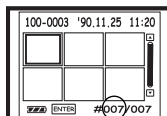
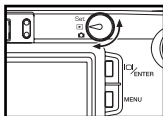
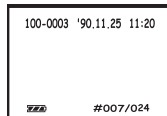
- The function dial can be rotated even when the camera is turned on.



2 When the camera is set to the single-frame play mode, press the

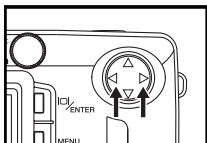
ENTER button once or twice (see page 64).

- When the image information is displayed in the single-frame play mode, press the **ENTER** button twice. When no information is displayed, press the **ENTER** button once.
- The number on the bottom-right of the LCD monitor shows the index of the highlighted image.







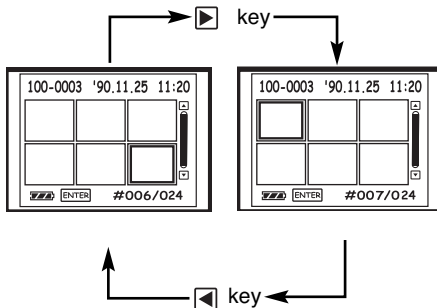
index

INDEX PLAY - CONT'D

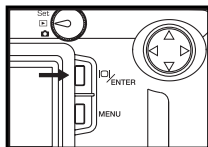


2 Press or key to select the desired image.

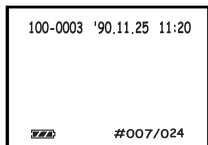
- When the  key is pressed, the following image is selected and highlighted. When the  key is pressed, the preceding image is selected and highlighted.
- When the sixth frame is selected and the  key is pressed, the following 6 frames are displayed.
- When the first frame on the current page is selected and the  key is pressed, the preceding 6 frames are displayed.



INDEX PLAY-CONT'D



3 Press the **ENTER** button once (see page 64).



4. The display on the LCD monitor switches to the single-frame play mode (with the image information).

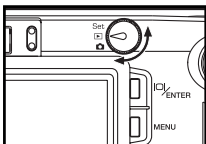
- The selected image is then displayed in the single-frame play mode.

DELETING AN IMAGE

The recorded images in the CF card can be deleted when they are displayed on the LCD monitor.

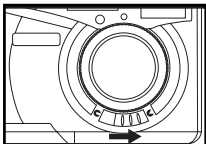
CAUTION

As the deleted image cannot be recovered, be careful when deleting an image.



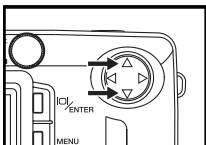
1 Rotate the function dial to .

- The function dial can be rotated even when the camera is turned on.





2 When the camera is not turned on, slide the power switch to turn on the camera.

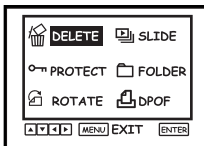
- In a while, the latest image (recorded last) is displayed on the LCD monitor.



3 Press  or  key to select the image to be deleted.

- When the  key is pressed, the preceding image is selected. When the  key is pressed, the following image is selected.

DELETING AN IMAGE - CONT'D



4 Press the MENU button. After confirming that [DELETE] is highlighted, press the ENTER key into [DELETE] menu.

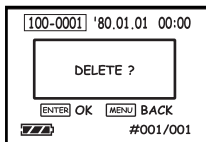
- The playback mode menu is displayed on the LCD monitor







5 After confirming that [ONE] is pointed, press the ENTER button.

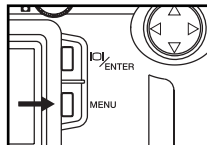
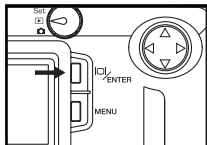
- The image to be deleted (the image displayed on the LCD monitor in step 3) is displayed on the LCD monitor and the display to confirm whether you delete the image or not appears as shown in the figure.
- You cannot use this function to erase the protected images.

DELETING AN IMAGE - CONT'D



6 Press the **ENTER button to confirm .**

- The image displayed on the LCD monitor in step 3 is deleted.
- On this display, the image to be deleted can be selected with the  or  key. When the  key is pressed, the following image is displayed. When the  key is pressed, the preceding image is displayed.
- If the image to be deleted is the latest one, after deleting, the preceding image is displayed on the LCD monitor. If the image is not the latest one, the next image would be displayed.



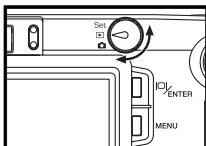
7 Press the **MENU button twice to cancel menu or repeat step 6 to delete another image.**

DELETING ALL IMAGES

All images recorded in the CF card can be deleted at once.

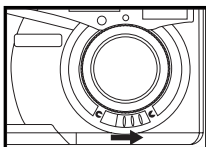
CAUTION

As the deleted image cannot be recovered, be careful when deleting all images.



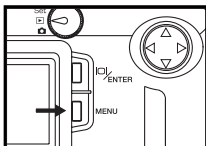
1 Rotate the function dial to  .

- The function dial can be rotated even when the camera is turned on.



2 When the camera is not turned on, slide the power switch to turn on the camera.

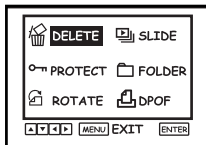
- In a while, the latest image (recorded last) is displayed on the LCD monitor.



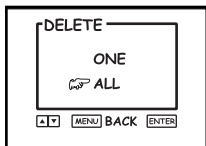
3 Press the **MENU button.**

- The playback mode menu is displayed on the LCD monitor.

DELETING ALL IMAGES- CONT'D



4 After confirming that [DELETE] is highlighted, press the **ENTER** key into [DELETE] menu.



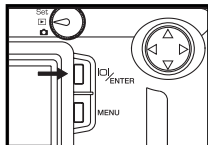
5 Press the **▼** key so that [ALL] is pointed and press the **ENTER** button into [DELETE][ALL] menu.

- The display to confirm whether you delete all images or not appears as shown in the figure.
- Only the files in the selected folder could be deleted.(See page 89 for folder option)
- The protected files cannot be deleted.



6 Press **◀** key so that [YES] is pointed.

DELETING ALL IMAGES - CONT'D



7 Press the **ENTER button to delete all.**

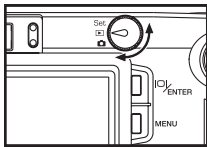
- All images in the selected folder are deleted.



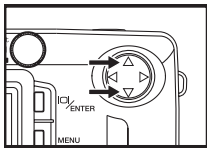
8 After deleting all images, [NO IMAGE] is displayed on the LCD monitor.

SETTING AND REMOVING SINGLE-FRAME PROTECTION

A Setting that prevents images from being inadvertently erased.

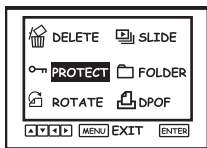


1 Rotate the function dial to .



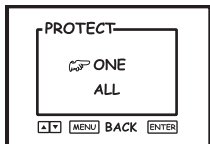
2 Use  or  to select the image to be protected and press the **MENU button.**




- The playback mode menu is displayed on the LCD monitor.

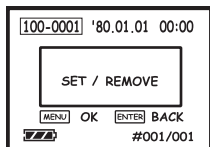






3 After confirming that [PROTECT] is highlighted and press the **ENTER button into [PROTECT] menu.**

SETTING AND REMOVING SINGLE-FRAME PROTECTION



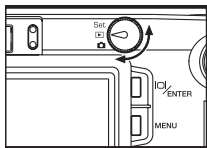
4 Press the  or  key so that [ONE] is pointed and press the  button into [PROTECT] [ONE] menu.



5 When the  button is pressed, the image is protected and the "  " icon appears on the right of the screen. To remove the protection, press the  button again. To finish setting, press the  button to go back.

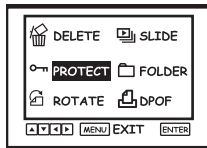
- To protect another image, repeat the procedure from step 2.
- [Format Card] delete all images, including protected images.

SETTING AND REMOVING PROTECTION FOR ALL FRAMES

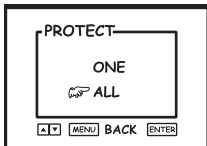



1 Rotate the function dial to  and press the **MENU** button.

- The playback mode menu is displayed on the LCD monitor.



2 After confirming that [PROTECT] is highlighted and press the **ENTER** button into [PROTECT] menu.



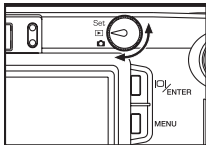
3 Press the  or  key so that [ALL] is pointed and press the **ENTER** button into [PROTECT] [ALL] menu.



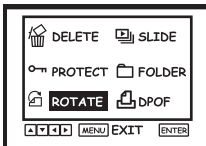
4 Select [SET ALL] and press **ENTER** button to protect all; if you want to remove all protection, Select [REMOVE ALL] and press **ENTER** button to cancel the protection.

ROTATE

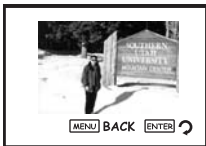
The current image on the LCD monitor could be rotated.



1 Rotate the function dial to  .



2 After confirming that [ROTATE] is highlighted and press the **ENTER** button into [ROTATE] menu.



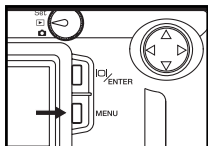
3 Press **ENTER** to rotate the current image 90° clockwise or press **MENU** back to **PLAYBACK** menu.



SLIDE SHOW

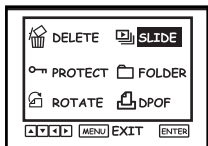
The images can be played back continuously on the LCD monitor like an automatic slide show.

TO START THE SLIDE SHOW



1 Rotate the function dial to  and press the **MENU button.**

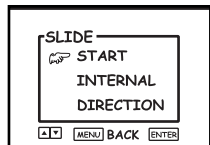
- The playback mode menu is displayed on the LCD monitor.



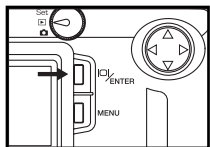
2 After confirming that [SLIDE] is highlighted and press the **ENTER button into [SLIDE] menu.**

- The slide show menu is displayed on the LCD monitor as shown in the figure.

SLIDE SHOW - CONT'D

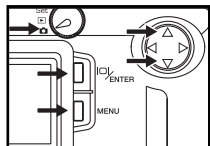


3 Press the ▲ or ▼ key so that [START] is pointed.



4 Press the **ENTER** button to play.

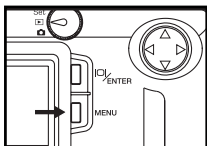
- You can set time interval and direction for the slide show in the slide show mode menu.



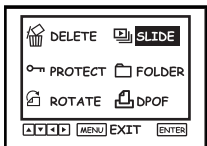
5 Press any key or rotate the Function dial to stop slide show.

SLIDE SHOW - CONT'D

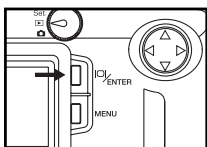
THE SETTING IN THE SLIDE SHOW MODE MENU



1 Rotate the function dial to  and press the **MENU** button.

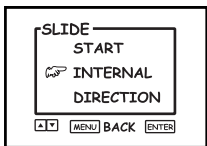




2 After confirming that [SLIDE] is highlighted.



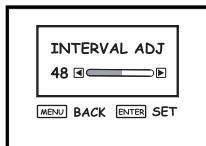
3 Press the **ENTER** button into [SLIDE] menu.

• The slide mode menu is displayed on the LCD monitor.



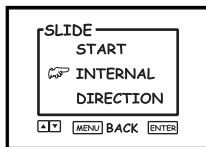
4 Press the  or  key so that [INTERVAL] is pointed and press **ENTER** key into [SLIDE][INTERVAL] menu.

SLIDE SHOW - CONT'D

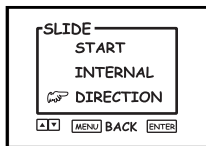


5 Press the [Left Arrow] or [Right Arrow] key so that the desired interval time is highlighted.

- When the [Left Arrow] key is pressed, the time decreases.
- When the [Right Arrow] key is pressed, the time increases.
- The interval time can be specified from 3 to 60 seconds .
- The interval time means the time between when the image is displayed completely and when the camera starts reading the next frame.

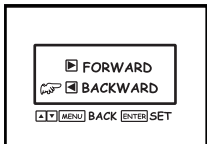


6 Press the [ENTER] key to confirm , then press the [MENU] key back to [SLIDE].



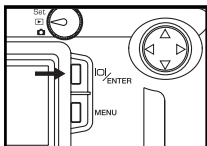
7 Press the [Up Arrow] or [Down Arrow] key so that [DIRECTION] is pointed and press [ENTER] key into [SLIDE][DIRECTION].

SLIDE SHOW - CONT'D

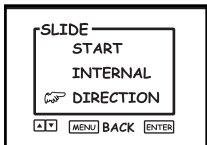


8 Press the  or  key so that the desired direction is pointed.

- The direction changes in the following order.



9 Press the **ENTER** key to confirm.

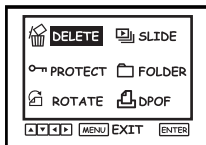


10 Press the **MENU** button back to [SLIDE] menu.

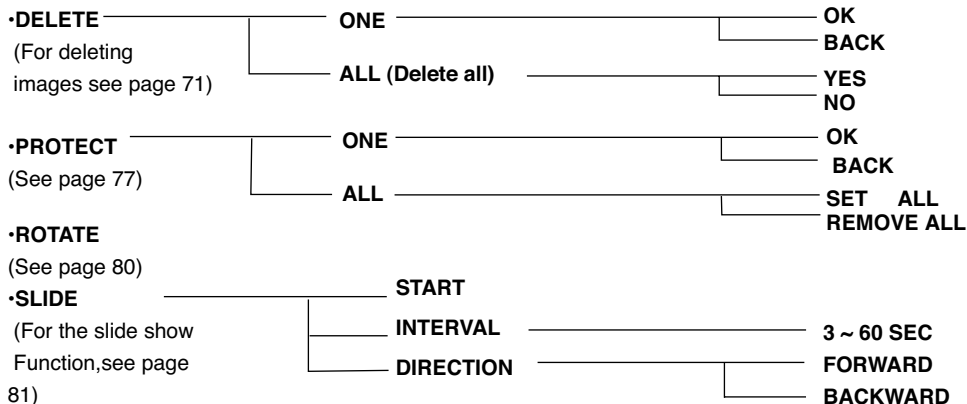
SPECIFYING THE PLAYBACK MODE

THE PLAYBACK MODE MENU

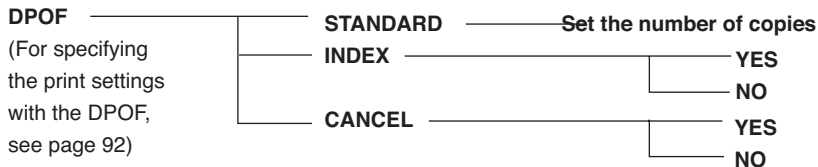
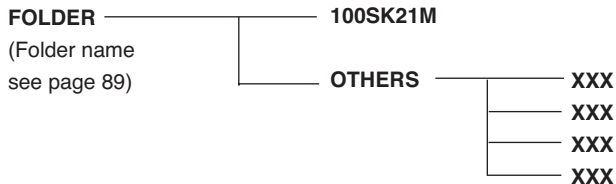
THE PLAYBACK MODE MENU (LCD Monitor)



THE PLAYBACK MODE MENU ITEMS AND EACH SETTINGS



THE PLAYBACK MODE MENU- CONT'D



* For "DELETE" (deleting images), see page 71. For "PROTECT", see page 77. For "ROTATE", see page 80. For "SLIDE SHOW", see page 81. Only the 2 items "PRINT" (Specifying the print setting with DPOF), and "FOLDER" (Folder name) are described on the following pages.

FOLDER NAME

The folder in the CF card is conformed with DCF (Design rule for Camera File system) format.

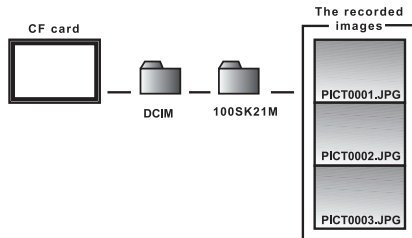
When inserting a CF card into the camera, the "DCIM" folder is made in the directory of the CF card and the "100SK21M" folder is made in the "DCIM" folder. The first still image captured is recorded with the file name of "PICT0001.JPG" and the first captured motion image is recorded with the file-name of "MJPEG0001.AVI" in the "100SK21M" folder. The name of the folder in which the captured images are recorded is displayed on the playback mode menu.

The file name of the motion image to be record consists of "MJPEG", "4-digit number" and "AVI".

The file name of the still image to be recorded consists of "PICT", "4-digit number" and ".JPG".

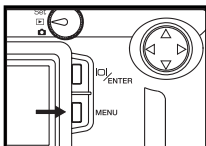
The files are recorded in the "100SK21M" folder until the 4-digit number becomes 9,999 (the file name of "PICT9999.JPG"). When the 10000th file is recorded, a new folder is made in the "DCIM" folder and the 10000th file is recorded with the file name of "PICT0001.JPG" in the new folder.

There will be two or more folders for the images in one CF card if you capture more than 10,000 images. You can select the folder option from played back mode menu in order to change into other folders.



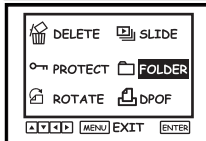
FOLDER NAME- CONT'D

You can also playback the images which are captured by the other digital cameras as long as the DCF format is supported by the camera.




1 Rotate the function dial to  and press the **MENU button.**



- The playback mode menu is displayed on the LCD monitor.



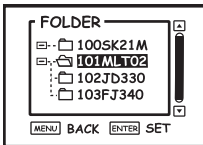
2 After confirming that [FOLDER] is highlighted and press **ENTER key.**



3 Press the  key so that [OTHERS] is highlighted, press **ENTER to show other folder names.**

- The icon on the left side of the selected folder name is opened.
- When only "100SK21M" folder exists, the folder name does not change even the  or  key is pressed.

FOLDER NAME- CONT'D



4 Press the ▲ or ▼ to select the folder and press **ENTER** to confirm.

5 Press **MENU** to close [others] folder.

On DCF (Design rule for Camera File system) Format

DCF (Design rule for Camera File system) is the image format established by JEIDA as the standard format of digital camera.

Through this format, the image files can be used between the digital equipment conformed to DCF.

The following operation can be available between the digital equipment conformed to DCF:

- The images captured with your digital camera can be played back on the LCD monitor of other digital camera.
- The images captured with some digital cameras can be printed out from a printer.
- A recording media (such as a CF card or SmartMedia™) can be used with any of the digital cameras.
- By using the computer conformed to DCF, even the image data recorded with some other digital cameras can be easily sorted out.

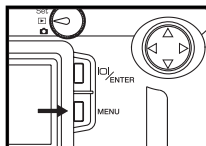
When a folder is selected, all the functions in playback mode and capturing mode are operated in the selected folder. E.g. You can capture images into other folders or delete images from other folders.

SPECIFYING THE PRINT SETTINGS WITH THE DPOF

This camera supports the DPOF™ (Digital Print Order Format) Version 1.00 so that you can specify the images and the number of copies to be printed and the print type. So, the specified images can be printed at the specified number only by handing the CF card or the SmartMedia™, etc. in which not only the captured images but the DPOF data are recorded, to the photo finishing print service supporting the DPOF. You do not need to give them the file name or your password. Also, if you set the media including the DPOF data in the personal printer which supports the DPOF, you can print the specified images at the specified number automatically.

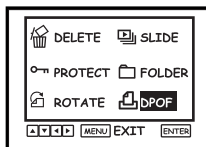
* The DPOF is jointly developed by Eastman Kodak Company, Canon Inc., Fuji Photo Film co., Ltd., and Matsushita Electric Industrial Co., Ltd. for direct printing from digital camera.

SPECIFYING THE IMAGE AND THE NUMBER TO BE PRINTED



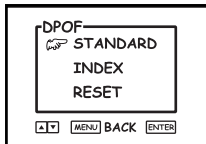
1 Rotate the function dial to  and press the **MENU button.**

- The playback mode menu is displayed on the LCD monitor.



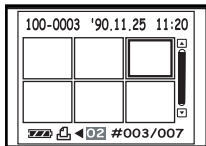
2 Press the  or  key so that [DPOF] is pointed and press **ENTER key.**

SPECIFYING THE PRINT SETTINGS WITH THE DPOF - CONT'D





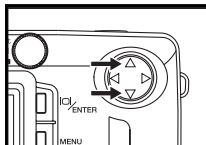
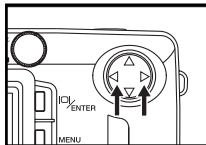
3 After confirming that [STANDARD] is highlighted, press the **ENTER button.**

- The display to specify the number to be printed appears on the LCD monitor.





4 Press  or  key to select the image to be printed.

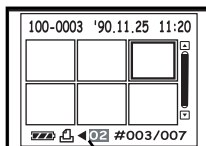
- When the image to be printed is selected, the number to be printed is highlighted.
- When the sixth frame of the current page is selected press  key to display the following page.
- When the first frame of the current page is selected press  key to display the preceding page.



5 Press the  or  key to select the number to be printed.

- When the  key is pressed, the number to be printed becomes larger.
- When the  key is pressed, the number to be printed becomes smaller.

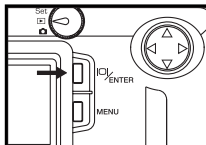
SPECIFYING THE PRINT SETTINGS WITH THE DPOF - CONT'D



The number to be printed.

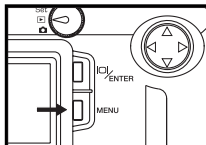
6 Repeat step 4 and 5 to specify the number to be printed for all images.

- For the image you do not want to print specify 0.



7 Press the **ENTER button to create DPOF File.**

- The DPOF file including data of the image and the number to be printed is recorded in the CF card.
- After the file is recorded, the LCD monitor display returns to the [DPOF] menu.



8 Press the **MENU button back to playback mode menu .**

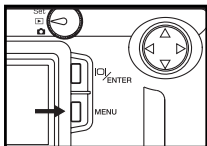
- The LCD monitor display returns to the playback mode.

SPECIFYING THE PRINT SETTINGS WITH THE DPOF - CONT'D

SPECIFYING THE INDEX PRINT SETTING

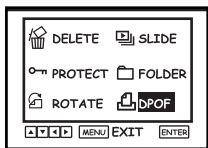
This setting allow you to print all images recorded in the CF card on one sheet as an index print.

The illustration of index print as an image.

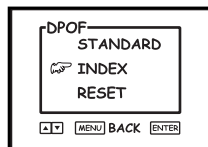


1 Rotate the function dial to  and press the **MENU button.**

- The playback mode menu is displayed on the LCD monitor.



2 Press the  or  key so that [DPOF] is highlighted and press **ENTER key into [DPOF] menu.**



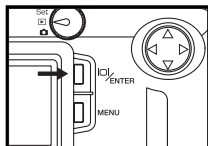
3 Press the  or  key so that [INDEX] is highlighted and press the **ENTER button menu.**

- The display to confirm whether you print the images as an index print or not appears as shown in the figure.

SPECIFYING THE PRINT SETTINGS WITH THE DPOF - CONT'D



4 Press the  key so that [YES] is pointed.



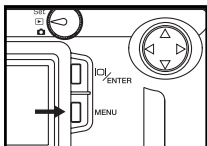
5 Press the **ENTER** button to create.

- The DPOF file including data of the index print setting is recorded in the CF card.
- After the file is recorded, the LCD monitor display returns to the [DPOF] menu.

SPECIFYING THE PRINT SETTINGS WITH THE DPOF - CONT'D

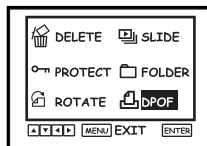
RESETTING THE PRINT SETTINGS WITH THE DPOF.

All Print settings with the DPOF described on pages 92 to 94 can be cancelled. The index print setting (see page 95) is also cancelled.

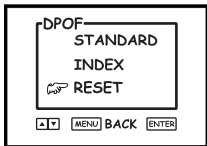


1 Rotate the function dial to ► and press the **MENU button.**

- The playback mode menu is displayed on the LCD monitor.



2 After confirming that [DPOF] is highlighted and press **ENTER key into [DPOF] menu.**



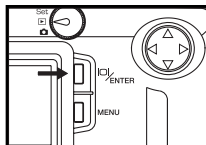
3 Press the ▲ or ▼ key so that [RESET] is pointed and press the **ENTER button.**

- The display to confirm whether you cancel all print settings or not appears as shown in the next figure.

SPECIFYING THE PRINT SETTINGS WITH THE DPOF - CONT'D



4 Press the ◀ key so that [YES] is pointed.



5 Press the **ENTER** button to cancel DPOF File.

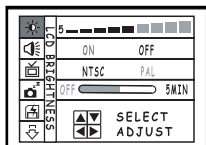
- The DPOF file including data of the print settings is deleted and all print settings are cancelled.
- After the file is deleted, the LCD monitor display returns to the [DPOF] menu.

DPOF file specifying the print settings in the current folder. Therefore, the DPOF file would be invalid and deleted after changing folders. Set your DPOF setting again if the the folder is changed.

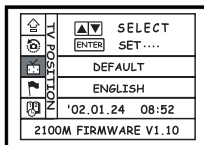
SETUP

THE SETUP MODE MENU DISPLAY

THE SETUP MODE MENU DISPLAY ON THE LCD MONITOR



Page 1



Page 2

There are 2 pages of the menus in **SETUP MODE**.

Page 1 consists of 5 functions which are "**LCD BRIGHTNESS**", "**BEEP**", "**VIDEO OUT**", "**POWER SAVE**", and "**FORMAT CARD**". Page 2 consists of 4 functions which are "**LOAD DEFAULT**", "**TV POSITION**", "**LANGUAGE**", and "**DATE/TIME**".

SWITCHING BETWEEN PAGES:

In page 1 of the SETUP MENU, you can select next page (page 2) by press **ENTER** or **▼** when **FORMAT CARD** is highlighted. In page 2, you can select previous page (page 1) by press **ENTER** or **▲** when **TV POSITION** is highlighted.

THE SETUP MODE MENU DISPLAY

THE SETUP MODE MENU ITEMS AND EACH SETTINGS (Page 1)

LCD BRIGHTNESS

(For adjusting the brightness of the LCD monitor, see page 103)

<input type="checkbox"/>	9(bright)
<input type="checkbox"/>	8
<input type="checkbox"/>	7
<input type="checkbox"/>	6
<input type="checkbox"/>	5
<input type="checkbox"/>	4
<input type="checkbox"/>	3
<input type="checkbox"/>	2
<input type="checkbox"/>	1(dark)

↑
↓

BEEP

(For turning on or off the beep, see page 104)

<input type="checkbox"/>	ON (The beep sounds.)
<input type="checkbox"/>	OFF (The beep does not sound.)

VIDEO OUT

(For switching the video signal from the video-out terminal, see page 105)

<input type="checkbox"/>	NTSC
<input type="checkbox"/>	PAL

POWER SAVE

(Setting the time for the auto power off function, see page 107)

<input type="checkbox"/>	10 MIN. (10 minutes)
<input type="checkbox"/>	5 MIN. (5 minutes)
<input type="checkbox"/>	3 MIN. (3 minutes)
<input type="checkbox"/>	2 MIN. (2 minutes)
<input type="checkbox"/>	1 MIN. (1 minute)
<input type="checkbox"/>	OFF(No power Save)

FORMAT CARD

(For formatting the CF card, see page 109)

<input type="checkbox"/>	YES
<input type="checkbox"/>	NO

THE SETUP MODE MENU DISPLAY - CONT'D

THE SETUP MODE MENU ITEMS AND EACH SETTINGS (Page 2)

LOAD DEFAULT _____ **YES**
(For resetting the camera, see page 110) _____ **NO**

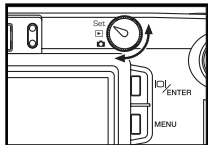
TV POSITION _____ **SETTING**
(For resetting the camera, see page 112) _____ **DEFAULT**

LANGUAGE _____ **ENGLISH**
(For resetting the camera, see page 114) _____ **GERMAN**

DATE/TIME _____ **DATE/TIME** _____ **DATE_ YYYY/MM/DD**
(For setting or correcting
the date and time, see
page 115) _____ **TIME_ HH:MM**

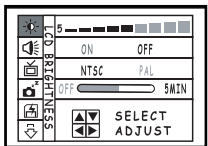
ADJUSTING THE BRIGHTNESS OF THE LCD MONITOR

This allows you to adjust the brightness of the LCD monitor according to the angle at which you watch it or the brightness around the monitor so that the display on the LCD monitor can be seen clearly.

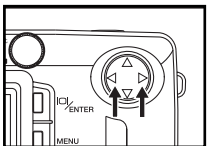


1 Rotate the function dial to "SET" and slide the power switch to turn on the camera.

- The setup mode menu is displayed on the LCD monitor as shown in the figure.



2 After confirming that [LCD BRIGHTNESS] icon is highlighted.



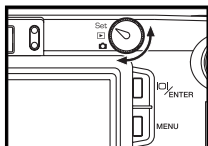
3 Press the ◀ or ▶ key so that the desired brightness is changed.

- The brightness can be adjusted in the range from 1 to 9. The smaller the number is, the darker the LCD monitor is and the larger the number is, the brighter the LCD monitor is.

SETTING THE BEEP SOUND

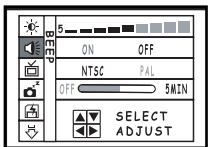
The beep sounds each time you operate this camera with the buttons or function dial and you can turn off or on the beep. The beep is turned on unless you change the setting after you purchase this camera.

When you use this camera in the situation you cannot make noise such as a wedding ceremony, etc., you can turn off the beep.



1 Rotate the function dial to "SET" and slide the power switch to turn on the camera.

- The setup mode menu is displayed on the LCD monitor as shown in the figure.



2 Press the  or  key so that [BEEP] icon is highlighted .

3 Select [ON] or [OFF] with the  or  key.

- The setting of the beep changes in the following order.



- The volume of the beep cannot be changed.

SWITCHING THE VIDEO SIGNAL FROM THE VIDEO OUTPUT TERMINAL

As there is a video-out terminal in this camera, you can watch the captured images on TV by connecting this camera to your TV with the supplied video cable.

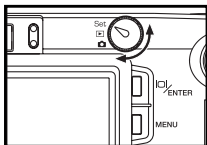
The video output signal can be switched between NTSC and PAL.

What is an NTSC system and a PAL system?

Both are the color television broadcast system. The NTSC system is mainly used in U.S.A., Japan, Canada, Mexico, the Philippines, Korea, etc. The PAL system is used in the western Europe such as Germany, England, Switzerland, Holland, Italy (except for France) and Australia, Singapore, Thailand, China, etc.

As these systems have no compatibility, you cannot watch the NTSC system based TV in the area where a PAL system is used.

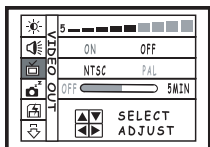
This camera can switch the video output signal to both an NTSC system and a PAL system. So you can watch the images on TV not only in your country, but in other areas.



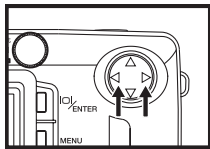
1 Rotate the function dial to "SET" and slide the power switch to turn on the camera.

- The setup mode menu is displayed on the LCD monitor.

SWITCHING THE VIDEO SIGNAL FROM THE VIDEO OUTPUT TERMINAL - CONT'D



2 Press the  or  key so that [VIDEO OUT] icon is highlighted .



3 Select [NTSC] or [PAL] with the  or  key.

- The setting of the video output changes in the following order.

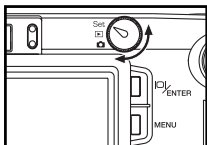
NTSC



PAL

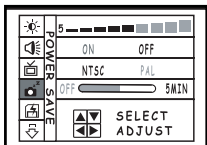
SPECIFYING THE TIME FOR POWER SAVE FUNCTION

To save the battery power, this camera will be turned off automatically if it is not operated for more than 2 minutes. (Power Save) The time for the auto power off is set to 2 minutes unless you change the setting after you purchase this camera.



1 Rotate the function dial to "SET" and slide the power switch to turn on the camera.

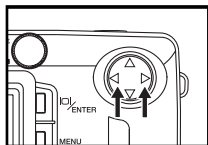
- The setup mode menu is displayed on the LCD monitor as shown in the figure.



2 Press the  or  key so that [POWER SAVE] icon is highlighted

.

SPECIFYING THE TIME FOR POWER SAVE FUNCTION- CONT'D



3 Press the ◀ or ▶ key so that the desired time for the auto power off function is set.

- The time for the auto power off function changes in the following order.

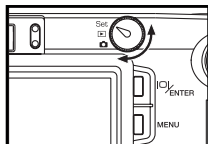


FORMATTING THE CF CARD

This allows you to format the CF card.

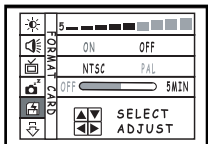
CAUTION

As all the images recorded in the CF card are deleted and cannot be recovered, be careful when formatting the CF card.



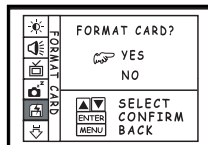
1 Rotate the function dial to "SET" and slide the power switch to turn on the camera.


- The setup mode menu is displayed on the LCD monitor as shown in the figure.



2 Press the  or  key so that [FORMAT CARD] icon is highlighted and press the  button into [FORMAT CARD] menu.

- The display to confirm whether you format the CF card or not appears.



3 Press the  key so that [YES] is pointed and press the button to format.

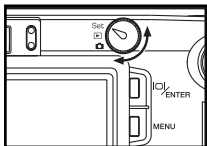
- After formatting the CF card, the LCD monitor returns to the setup mode menu display.

RESETTING TO THE DEFAULT SETTINGS

This allows you to reset all the settings of this camera to the default at a time.

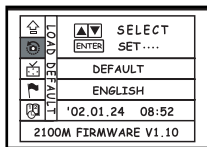
The camera settings	The default settings
Drive mode (see page 39)	Single shot
Flash mode (see page 35)	Autoflash with red-eye reduction
Image quality (see page 54)	STANDARD
Image size (see page 57)	FULL (1600X1200)
Exposure compensation value (see page 48)	0
White balance (see page 59)	AUTO
Sharpness (see page 61)	NORMAL
Time interval for slide show (see page 83)	15 sec.
The brightness of the LCD monitor(see page 112)	5
The time for the power save function(see page 116)	2 MIN. (minutes)
The beep sound (see page 103)	ON (The beep sounds)

RESETTING TO THE DEFAULT SETTING- CONT'D



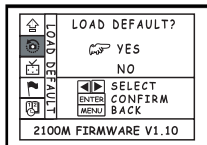
1 Rotate the function dial to "SET" and slide the power switch to turn on the camera.

- The setup mode menu is displayed on the LCD monitor as shown in the figure.



2 Press the or key so that [LOAD DEFAULT] icon is highlighted and press the **ENTER** button into [LOAD DEFAULT] menu.

- The display to confirm whether you reset the camera settings to the default or not appears as shown in the figure.

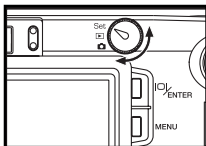


3 Press the key so that [YES] is pointed and press the **ENTER** button.

- The camera settings are reset to the default.
- The LCD monitor display returns to the setup mode menu.

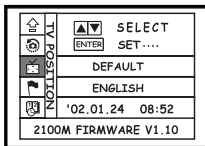
ADJUST THE TV POSITION




The display position on the TV can be adjusted. You can set a suitable position for yourself or load the default value in this function.



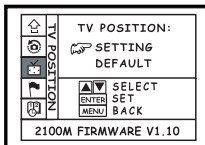
1 Rotate the function dial to "SET" and slide the power switch to turn on the camera.

- The setup mode menu is displayed on the LCD monitor as shown in the figure.



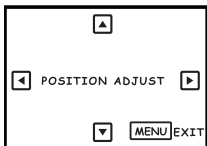
2 Press the  or  key so that [TV POSITION] icon is highlighted and press the  button into [TV POSITION] menu.

- [TV POSITION] is on the second page of the SETUP MODE.



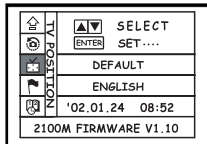
3 Press the  or  key to select the option. To adjust the position, choose [SETTING] and press  .

ADJUST THE TV POSITION-CONT'D



4 Press to adjust the position and **MENU** to exit.

- The position is recorded all the time while you are adjusting. Therefore, set the correct position for your displays before exit.

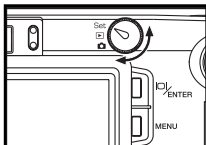


5 The setting for the position is recorded and **[USER]** is displayed for **TV POSITION**.

- To load the default position, choose **[DEFAULT]** in **step 3**.

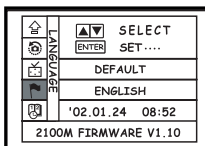
SELECT DIFFERENT LANGUAGES




You can select different languages for the message displayed on this camera. The supported language varies. You can check the supported language in your cameras and select your favorite.



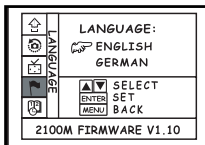
1 Rotate the function dial to "SET" and slide the power switch to turn on the camera.




- The setup mode menu is displayed on the LCD monitor .




2 Press the  or  key so that [LANGUAGE] icon is highlighted and press the  button into [LANGUAGE] menu.

- The display is on the LCD monitor as shown in the figure.
- [LANGUAGE] is on the second page of the SETUP MODE.

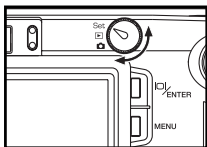


3 Press the  or  key so that your favorite language is highlighted and press  to set.

- After you press , the LCD monitor returns to SETUP MODE MENU and the selected language is displayed.

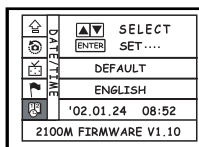
SETTING THE DATE AND TIME

When taking a picture, the date and time are recorded as the part of the image information. If the built-in clock of this camera is not set correctly, the wrong date and time are recorded. Set the date and time correctly by performing the procedure below.



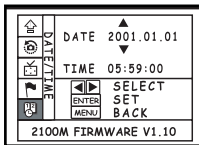
1 Rotate the function dial to "SET" and slide the power switch to turn on the camera.

- The setup mode menu is displayed on the LCD monitor as shown in the figure.





2 Press the  or  key so that [DATE/TIME] icon is highlighted and press the  button into [DATE/TIME] menu.

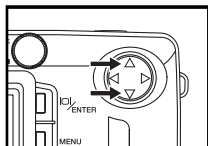
- The display to set the date and time appears as shown in the figure.
- [DATE/TIME] is on the second page of the SETUP MODE.



3 Press the  or  key select which you want to correct.

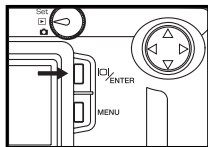
- Each time the  key is pressed, the highlighted part moves in the order of year → month → day → hour → minute (s). Each time the  key is pressed, the highlighted part moves in the reverse order

SETTING THE DATE AND TIME- CONT'D



4 Press the  or  key to specify or correct the date and time.

- When other values need to be changed, repeat step **3** and **4** .



5 After the date and time is specified (corrected), press the  button.

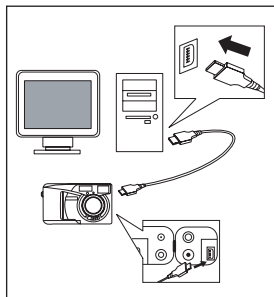
- The built-in clock of this camera starts functioning. The LCD monitor returns to the setup mode menu.

After replacing the batteries, check that the built-in clock (date and time) functions correctly.

If the AC adapter is not used and the battery-chamber door is open for more than 2 days, the built-in clock may delay or be reset to the default setting. In this case, set the date and time again.

CONNECTING TO THE PERSONAL COMPUTER

CONNECTING TO THE PERSONAL COMPUTER / INSTALLING THE USB DRIVER



1 Switch on your PC and start Windows.

- If you are using Windows 2000 professional, login as an Administrator group.

2 Insert the enclosed CD-ROM into the CD-ROM drive.

3 Load a compact flash card containing photograph images into your camera, and switch the camera on.

4 Use a USB cable to connect the camera to the USB port on the PC.

- Any USB port can be used when the PC has 2 or more USB ports. However, if the cable is connected via a USB hub, the software may not operate correctly.
- To avoid communication errors, use the USB cable provided in this package and do not use an extension cable.
- On Macintosh, when this camera is connected to the computer correctly, the CF card in this camera is detected; a new removable disk drive is added.
- When you are using Windows 2000 Professional, a new removable disk drive is added. The following operation is for Windows® 98.

Make sure that the power of the camera is on before connecting the USB.

CONNECTING TO THE PERSONAL COMPUTER /INSTALLING THE USB DRIVER



5 The "Add New Hardware Wizard" dialog appears, click [Next>].



6 Select "Search for the best drive for your device (Recommended)." And click [Next>].

CONNECTING TO THE PERSONAL COMPUTER INSTALLING THE USB DRIVER



7 In the next window, tick "CD-ROM drive" and click [Next>].



8 Check that SX210M. INF has been detected and then click [Next>].

CONNECTING TO THE PERSONAL COMPUTER /INSTALLING THE USB DRIVER



9 When driver installation is completed, the dialog shown at left appears. Click the [Finish] button.

10 After USB device is installed, a new removable device is detected. Follow the instructions from **STEP 5** to **STEP 9** to install the removable drive.

* 210MVXD. INF would be detected in **STEP 8**.

11 Setup is completed when a new removable drive icon  (the connected camera) appears in the "My Computer" window.

CAUTIONS WHEN CONNECTING TO THE PERSONAL COMPUTER

- While this camera is connected to a computer or transferring the image data between this camera and the computer, do not perform the following operations. Otherwise, an error may occur, the camera and the computer may not function correctly, or the image data recorded in the CF card may be erased or damaged.
- Turn off the power of the camera
- Disconnect the USB cable
- Rotate the function dial
- Remove or insert the CF card

On Windows2000 Professional, the data transfer is not actually completed due to the delay of writing even when the display on the computer shows that copying is finished. As the data is transferred for a while even after the copying message disappears, do not turn off the power of the camera, disconnect the USB cable or rotate the function dial during the time. Otherwise, an error may occur; the camera and the computer may not function correctly.

- During the transferring, windows message is completed earlier than the real termination. That is, the transferring message is finished while the transfer is still taking place. Remove or disconnect the USB connecting at this time might cause an error. To avoid this situation, check the green LED light and make sure that the camera is not at busy status (page 14) before disconnecting USB.

CAUTIONS WHEN CONNECTING TO THE PERSONAL COMPUTER-CONT'D

- When the camera is connected to the computer. The power save function is disabled. Which means that the power of the camera is always on unless you turn off the camera manually.
- When connecting the camera to the computer and transferring the image data between them, be sure to check that the battery capacity is full. If the battery power is low, the power of the camera may be turned off while transferring data. If this happens, an error may occur, the camera and the computer may not function correctly, or the image data recorded in the CF card may be erased or damaged.
- When the camera is connected to the computer, we recommend you to use new batteries with a full power capacity or the AC adapter (sold separately).

Make sure that the power of the camera is on before connecting the USB.

INSTALLING Adobe PhotoDeluxe

To use the supplied image editing application Adobe Photo Deluxe Home Edition 4.0 (Windows® version) or Adobe Photo Deluxe 2.0 (Macintosh version), the following systems are required.

For the IBM-PC/AT and the compatible unit

CPU	Intel Pentium II processor of 233 MHz or more, or the computer equipped with the fully compatible processor.
OS	Windows®95, Windows®98 Windows2000. Windows® NT 4.0 (Service Pack 5)
Memory	16 MB or more of built-in memory (For Windows® NT, 32 MB or more of built-in memory).
Hard disk space	110 MB or more of available hard disk space.
Monitor	Resolution 800 x 600/th color monitor for 16-bit color video display
CD-ROM drive	Necessary (when installing and using the software).

For Apple Macintosh

CPU	68040 or later processor or better, or Macintosh or Power Macintosh
OS	Mac OS 8.6, OS9
Memory	32MB RAM or higher
Hard disk space	110 MB or more of available hard disk space.
Monitor	The color monitor capable of displaying 256 colors
CD-ROM drive	Necessary (when installing and using the software).

INSTALLING Adobe PhotoDeluxe- CONT'D

Installing to the IBM-PC/AT and the compatible unit

1. Turn on the computer and start up Windows®.
 2. Insert the Adobe PhotoDeluxe 4.0 CD-ROM into the CD-ROM drive.
 3. When the setup program starts up automatically displayed on the screen.
- When the setup program does not start up automatically, select "Start" → "Run" and input "D:\ENGLISH\INSTALL\SETUP.EXE" in the box of "Open" (when your CD-ROM drive is the D drive) and click [OK].

Installing to the Apple Macintosh

1. Turn on the computer and start up Mac OS.
 2. Insert the Adobe PhotoDeluxe 2.0 CD-ROM into the CD-ROM drive.
 3. When the icon of Adobe PhotoDeluxe 2.0 CD-ROM is displayed on the desktop, double-click its icon.
 4. Double-click "English" folder to open it.
 5. Double-click "PhotoDeluxe™ Installer" icon.
- After that, follow the operations according to the indication displayed on the screen.

INSTALLING QUICKTIME 5

To watch the movie taken by this camera, you can use an Apple's Quicktime software. quicktime 5 is the software supplied with 2100M Camera. In order to use the Quicktime 5 software, the following systems are required.

Mac OS System Requirements

- A PowerPC processor-based Macintosh computer
- At least 32MB of RAM
- MAC OS 7.5.5 or later

Windows System Requirements

- A Pentium-based PC or compatible computer
- At least 32MB of RAM
- Windows 95/ 98/ NT/ 2000 system software
- A Sound Blaster or compatible sound card and speakers
- DirectX version 3.0 or later recommended

INSTALLING QUICKTIME 5

Installing to Windows System

1. Turn on the computer and start up Windows®.
2. Insert the QuickTime 5 CD into the CD-ROM drive.
3. The setup program starts up automatically.
 - If the setup program does not start up automatically, run QuickTimeInstaller. EXE from the CD-ROM drive to start up the setup program.
4. Follow the operations according to the indication displayed on the screen.

Installing to Apple Macintosh

1. Turn on the computer and start up Mac OS.
2. Insert the QuickTime 5 CD into the CD-ROM drive.
3. Run QuickTimeInstaller from the CD-ROM drive to start up the setup program.
4. Follow the operations according to the indication displayed on the screen.

APPENDIX


WATCHING THE CAPTURED IMAGES ON TV

By connecting this camera to your TV with the supplied video cable, you can watch the captured images on TV.


- 1. Confirm that the video out signal from the video-out terminal is set to NTSC or PAL according to the color system in your country. (see page 104).**
- 2. Open the terminal cover on the left side of the camera and connect the mini plug of the supplied video cable to the video-out terminal of the camera.**
- 3. Connect the other side of the video cable to the video input terminal on TV.**
- 4. Turn on the power of TV.**
- 5. Slide the power switch to turn on the camera.**
- 6. Switch the video input of TV according to the terminal to which the video cable is connected.**
- 7. All the function in this camera could be operated when connecting to the TV.
e.g capturing pictures.**
 - The LCD monitor is forced off when connecting to the TV.

TROUBLESHOOTING


If you have any trouble with this camera, check the following items. Should the difficulty persist, contact the JENOPTIK Service Facility.

Problem	Check	Solution	Page
The shutter-release button is not released.	Is the power of the camera turned off?	Rotate the function dial to  and slide the power switch to turn on the camera.	30
	Is the camera set to other mode instead of the recording mode?		
	Is the green lamp blinks quickly (about 4 times in a second) and "WAITING" blinking on the LCD monitor?	The image is recorded in the CF card. Wait until the recording is completed and the green lamp and "WAITING" stop blinking.	31
	Is "CARD FULL" displayed on the LCD monitor?	The CF card is full. Delete unwanted images or transfer the image data to the computer and then delete all images, or use other CF card, which has a memory space.	71 74

TROUBLESHOOTING- CONT'D

Problem	Check	Solution	Page
The live view is not displayed on the LCD monitor.	Is the power of the camera turned off?	Rotate the function dial to  and slide the power switch to turn on the camera.	30
	Are the batteries exhausted?	Replace all four batteries or use the AC adapter (sold separately).	22 25
	Are the batteries inserted with the correct polarity?	Remove the batteries and then insert the batteries by following the +/- diagram indicated in front of the battery-chamber door.	22
	Is the LCD monitor turned off?	Press the ENTER button to turn on the monitor.	32
	The power save function activates.	Slide the power switch to turn on the camera again.	25
	Is the TV cable inserted into the camera?	Remove the cable from the camera.	125
The motion image cannot be played on the LCD monitor.	Do you play it with information displayed?	Switch to the playback mode with information displayed.	67

TROUBLESHOOTING- CONT'D

Problem	Check	Solution	Page
The image cannot be played back on the LCD monitor.	Is the power of the camera turned off?	Rotate the function dial to  and slide the power switch to turn on the camera.	66
	Are the batteries exhausted?	Replace all four batteries or use the AC adapter (sold separately).	22 25
	Are the batteries inserted with the correct polarity?	Remove the batteries and then insert the batteries by following the +/- diagram indicated in front of the battery-chamber door.	22
	Is the CF card inserted in the camera? (Is "NO CARD" displayed on the LCD monitor?)	When "NO CARD" is displayed on the LCD monitor , the CF card is not set. Insert the CF card.	26
	The power save function activates.	Slide the power switch to turn on the camera again.	25
	Is the green lamp blinks slowly (about 2 times in a second) and "LOADING" blinks on the LCD monitor?	The camera reads out the image data from the CF card. Wait until the reading is completed. (The green lamp and "LOADING" stop blinking.)	14
	Is the TV cable inserted into the camera?	Remove the cable from the camera.	125
The image recorded in the flash mode is dark.	Did you take a picture within the flash range?	Take a picture within the flash range (0.5 to 2.5 m)	35
	Is the battery power low?	Replace all four batteries or use the AC adapter (sold separately).	22 25

TROUBLESHOOTING- CONT'D

Problem	Check	Solution	Page
The image is too dark or bright.	Is the exposure compensation value specified?	Specify 0 for the exposure compensation value.	48
The recorded image file is damaged.	Did you remove the CF card when the image data was recorded in the CF card?	The data is being recorded in while the green lamp blinks (about 4 times in a second). Do not remove the CF card from the camera.	31
The camera does not function correctly due to the strong static electricity, etc.	Remove the batteries and insert them again. When using the AC adapter (sold separately) , disconnect the plug of the AC adapter from the AC outlet and then connect it again. After that, turn on the power of the camera. * If the power of the camera cannot be turned off correctly, the CF card may be damaged. In this case, transfer the image data in the CF card to the computer and then format the CF card.		
Unable to establish the connection with computers.	Did you connect the USB cable before turn on the camera.	Make sure to turn on the camera first,before applying a USB cable.	114
Images are damaged or lost after transfer to PC via USB.	Do you remove the USB connection while camera is busy. (Green LED blinks.)	Make sure that the transfer is finished. (Green LED stops blinking.)	

NOTES ON THE HANDLING

Batteries

- Battery performance decreases with lower operating temperatures. In a cold place, we recommend you to prepare new batteries and keep the spare batteries in a warm place such as inside your coat.
As the performance of Ni-MH battery less decreases, we recommend you to use the Ni-MH battery in a cold place. Even if the battery performance decreases due to a cold environment, the battery can recover its power when the battery warms up.
- Remove the batteries when they are not in use for an extended period. The battery leakage may damage the battery-chamber.
- Occasionally, when using alkaline batteries, the battery-condition indicator shows that the battery power is low even if there is enough power capacity.
Continue to use the camera. The low-battery symbol will disappear.
- As the batteries heat up just after the camera is used, be careful when removing or replacing the batteries.
Turn off the power of the camera and allow the batteries to cool down.

Operating Temperatures and Conditions

- This camera has been designed for use in temperatures from 0°C to 40°C (32°F to 104°F).
- Never leave the camera exposed to extreme high temperatures, such as in a car parked in the sun, or to extreme humidity.
- To prevent condensation from forming, place the camera in a sealed, plastic bag when bringing it from a cold place to a warm place. Allow it to come to room temperature before removing it from the bag.

NOTES ON THE HANDLING - CONT'D

List of compatible CF Card manufacturer

SANDISK

LEXAR

HITACHI

PRETEC

*You may use other CF Cards for this camera, however, the compatibility is not guaranteed.

Safety and Handling for the CF card

- Read and follow the instructions manual supplied with the CF card.
- The following may cause data loss or damage. We have no responsibility for it. We recommend you to copy a backup data in other media such as ZIP disc, hard disk, CD-ROM, etc.
 - 1 Improper use of card.
 - 2 Static electrical discharge near card or electric noise.
 - 3 Removing the card or interrupting power supply while camera or equipment is accessing the card (reading, writing, formatting etc.)
 - 4 Non-use of card for an extended period.
 - 5 Using the card over its life.
- When the card is formatted, the recorded data is deleted. Be sure to record a backup data if it is necessary.
- The storage capability of the CF card will diminish with extended use. In this case, buy a new card.
- Keep away from static electricity and electric noise.
- Do not bend, drop, or subject the card to impact.
- The strong static electricity or shock may damage the card so that recording or writing in the card cannot be performed. In this case, buy a new card.
- Do not touch the electrical contacts of the card with your fingers or a metal object.
- Keep away from heat, moisture, and direct sunlight.
- Keep away from small children.
- When not in use, return the card to its protective case.

NOTES ON THE HANDLING - CONT'D

LCD Monitor Care

- The LCD monitor is manufactured using high precision technology. However, there may rarely be a lack of color or bright points on the LCD monitor.
- Do not apply pressure on the surface of the LCD monitor. Permanent damage may occur.
- In a cold environment, the LCD monitor may be temporarily dark. When the camera warms up, normal display will be restored.
- The LCD monitor may be slow to react in a low temperature or may be dark in a hot environment. When the camera warms up, normal display will be restored.
- If there are fingerprints on the LCD monitor surface, gently wipe it with a soft, clean, dry cloth.

Copyright

- TV program, films, video tapes, and other materials may be copy righted.
Unauthorized recording of such materials may be contrary to the provision of the copyright laws. And in some performance and exhibition, etc. taking picture are prohibited. The image which has a copyright cannot be used except for the use within the copyright laws.

DPOF (Digital Print Order Format)

- If the CF card including the DPOF data specified by other camera is set in this camera, the DPOF data specified by other camera will be cancelled.
- Even if you insert the CF card including the data recorded with other digital camera supporting the DCF format, the DPOF data for the images captured with other digital camera (the images in the folder made by other digital camera supporting the DCF format) cannot be specified in this camera.

NOTES ON THE HANDLING - CONT'D

Others

- Do not subject the camera to shock or impact.
- Turn off the power of the camera when transporting.
- This camera is neither waterproof nor splashproof.

Inserting or removing batteries and the CF card, or operating the camera with wet hands may damage the camera.

When using the camera at the beach or near water, take care not to drop water or sand on the camera. If water, sand, dust or salt content accumulates on the camera, it may cause the malfunction.

- Do not leave the camera under direct sunlight. Do not point the lens at direct sunlight. Doing so, CCD may be damaged.

CARE AND STORAGE

Cleaning

- If the camera or the outside of the lens is dirty, gently wipe it with a soft, clean, dry cloth. If the camera or lens comes in contact with sand, gently blow away loose particles. Wiping may scratch the surface.
- To clean the lens surface, first blow away any dust or sand, then, if necessary, moisten a lens tissue or soft cloth with lens cleaning fluid and gently wipe the lens.
- Never use organic solvents to clean the camera.
- Never touch the lens surface with your fingers.

Storage

- Store in cool, dry and well-ventilated place away from dust and chemicals.
For very long periods, store the camera in an airtight container with a silica gel drying agent.
- Remove the batteries or the CF card from the camera when not in use for an extended period.
- Do not store the camera in the closet with mothballs.
- We recommend you to press the shutter-release button sometimes during the storage. Also, check the camera's operation to make sure it is functioning properly before using.

Before Important Events such as a Wedding Ceremony, Overseas Travel

- We recommend you to check the camera's operation beforehand or take test pictures, and to prepare spare batteries.
- JENOPTIK has no responsibility for damages incurred by equipment malfunction.

Questions and Service

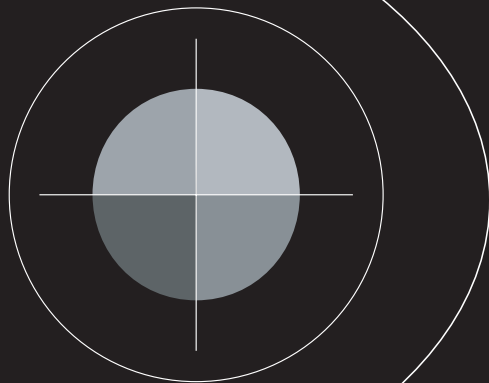
- If you have questions about your camera, contact your local camera dealer or write to JENOPTIK distributor in your area.
- Before shipping your camera for repair, please contact a JENOPTIK Service Facility for details.

TECHNICAL DETAILS

Image Sensor	1/2.7" CCD sensor with 2.1 mega pixels
Image Resolution (24-bit color)	Still:1600x1200(Full)/800x600(Half) Movie:320x240
Lens	f=5.76mm(Equivalent to 37mm lens on 35mm camera), F NO.=2.9/5.7
Focusing	50cm~infinity
Shutter Speed	1/2~1/1000sec.
Sensitivity	Equivalent to ISO 100
View Finder	Visual-image optical viewfinder
LCD monitor	1.6" TFT color LCD monitor
Video Out	NTSC/ PAL
Storage Media	CompacFlash Card (Type 1 slot)
PC Interface	USB (Mass Storage Class)
Power	4 AA alkaline batteries, AC-DC Adapter
White Balance	Auto/ Daylight/ Tungsten/ Fluorescent
Image Format	JPEG, DCF(Exif 2.1)
Exposure	Exposure compensation: -2~+2EV, 0.5EV step
Burst Shot	Full: 2 pictures per shot, Half: 8 pictures per shot

Zoom	2X Digital Zoom			
Flash Mode	Red-eye Reduction/ Auto/ fill-in/ Off/ Slow synchronization			
Approximate	Fine Standard Economy			
Storage	Fill--Still	12	24	48
Capacity	1600x1200 images	images	images	images
(8MB CF Card)	Half--Still	48	96	192
	800x600	images	images	images
	Movie	30	45	75
	320x240	sec.	sec.	sec.
	No length limit for one piece of movie as long as the CF card space is sufficient.			
Print Order	Digital Print Order Format (DPOF)			
Format				
Erase	One/ All			
Protection				
Image Rotation	Clockwise, 90° step			

620-210000-00



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