Konica

DIGITAL STILL CAMERA
Q-M100

Instruction manual

Mode d'emploi

Bedienungsanleitung

© 1997 by Konica Corporation   Q-M100
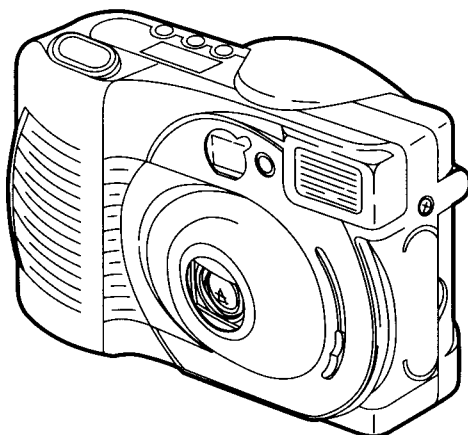
FCC Statement:

FCC ID: EDUMK11

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

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

- Shielded cables must be used for this equipment to comply with the relevant FCC regulation.
- Power requirement is DC 6V ± 10% and 3.0A max. Use only listed and NOM certified power supply adapter.
- The user is cautioned that changes and modifications made to the equipment without approval of the manufacturer could void the user's authority to operate this equipment.

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.

ENGLISH

- However, note that operation of this unit near a radio or television receiver could possibly cause radio disturbance.

FRANÇAIS

- Notez cependant que l'utilisation de cet appareil près d'une radio ou d'un téléviseur peut perturber la réception de leurs signaux.

DEUTSCH

- Beachten Sie, daß Betrieb dieses Gerätes in der Nähe von Radios oder Fernsehgeräten möglicherweise zu Empfangsstörungen führen kann.

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Thank you for your purchase of Konica Q-M100.

Simplified table of basic operation

Preparation
- ●Prepare a power source. (→ p.18)
  - ・ Set specified batteries in the camera. (→ p.28)
  - ・ Connect an optional AC adapter to the camera. (→ p.32)
- ●Set a Konica CF card (CompactFlash memory card) in the camera. (→ p.34)
  - ・ Format the Konica CF card. (→ p.104)

↓

Taking picture
Note: First of all, set the calendar and clock correctly. (→ p.40)
- ●Slide the lens barrier switch to open the lens barrier. (→ p.48)
- ●Select a desired picture quality (resolution) with the picture quality mode switch. (→ p.52)
- ●Compose the picture looking through the viewfinder. (→ p.48)
- ●Press the shutter release button. (→ p.48)
With beep sound of the buzzer the camera records the picture.

↓   ↓   ↓

Playback
- ●Turn on the monitor with the monitor power switch and select a picture desired to play back with the SELECT button. (→ p.66)

Data transfer to personal computer
- ●Connect the camera with a personal computer by means of an Interface cable. (→ p.114)

Direct playback with personal computer
- ● Playing back pictures saved on a CF card directly with a personal computer. (→ p.116)

↓

Playback with TV set
- ●Connect the camera with a TV set by means of a video output cord. (→ p.74)

Trademarks
- ●MS-Windows95 and Windows3.1 are registered trademarks or trademarks of Microsoft Corporation, U.S.A. in the United States and other countries.
- ●Apple, Macintosh and Mac OS are registered trademarks or trademarks of Apple Computer, Inc., U.S.A. in the United States and other countries.
- ●Other names of companies and products appearing in this instruction book are tradenames and trademarks of respective companies.

Though sufficient consideration is given to the safety of the product, carefully read the caution and note symbols below, and be certain that you are using the unit correctly. These symbols are intended to provide important safety information.

⚠ WARNING
This symbol indicates that there is a possibility of serious injury or even death if the product is not used correctly.

⚠ CAUTION
This symbol indicates that there is a possibility of slight or greater injury or damage to equipment.

⚠ Sentences headed by the mark "!" contain important matters that require users' careful attention.

🚫 The prohibited symbol (a circle with a diagonal slash through it) indicates items that are prohibited when using the product. A detailed explanation is provided inside or near the mark.

● The filled circle indicates actions that must be performed. A detailed explanation is provided inside or near the mark.

1. ⚠ WARNING

When you encounter the following cases, stop operation of the camera, close the lens barrier and remove the batteries or disconnect the AC adapter from the camera as soon as possible. When the AC adapter is used, disconnect it from not only the camera but also the AC outlet. After that, consult with the store that you got the camera at with the matter. If you don't discontinue use of the camera in such the case, it may cause fire or electric shock.
●When the camera falls into an abnormal condition such as it generates heat and/or noise, smokes, smells, etc.
●When water or other liquid gets inside the camera and/or accessory.
●When a foreign substance gets inside the camera and/or accessory.

🚫 Never disassemble this camera. There are high voltage wires inside the camera so there is a danger of electric shock.

🚫 If the camera is dropped on snow or in water, or its inside is moistened with water, immediately remove the battery from the camera and ask the store that you got it at or our agent to repair it. If the camera is continuously used as it is wet, it may cause a fire or electric shock.

🚫 Be careful not to drop or insert a metallic material or inflammable material into the camera. If a metallic material gets inside the camera, it may cause a fire, electric shock or camera failure. Don't use the camera while driving a car, riding a bicycle, etc., otherwise, it may induce a traffic accident.

🚫 When you take a picture while walking, pay careful attention to the environmental conditions, road surface, etc.

🚫 Don't use the camera in an unstable condition, particularly at an unstable elevation. If you falls down from an elevated place, you may be in a dangerous situation such as serial injury or accidental death.

🚫 Please do not use the camera to look directly at the sun. There is a danger of injury to the eye.

🚫 When the thunder rumbles, don't touch the metallic part of the camera for a while. If lightning strikes the camera while you are holding it by the metallic part, you may get an electric shock because of induced lightning.

🚫 Don't use any AC adapter other than the specified one. If a different AC adapter is used, it may cause a fire.

🚫 Do not expose the battery to heat or flame. Do not attempt to short or disassemble. There is a danger of explosion and severe injury.

2. ⚠ CAUTION

🚫 Don't aim the lens at the sun or a strong light source, otherwise internal parts of the camera may be damaged by condensed sunbeams or rays of light because the lens gathers them. If the camera is used as its internal parts are damaged, it may result in burning of the camera because short-circuit or poor insulation generates heat.

⚠ Be careful not to catch your fingers in the battery chamber cover or CF card cover to avoid getting injured.

● When you use the camera on the plane, follow the instructions of the airline crew because there is a fear that radio wave generated by the camera affects the instrument of the airplane.

🚫 Don't leave the camera in the following places and conditions.
●Places where the camera may be exposed to the direct sunbeams or may be heated highly such as in a car, because the camera may catch fire or burst in such the condition.
●Places where a baby or a little child can easily touch the camera because there is a fear that a baby or a little child suffocates with the strap or swallows an accessory such as the battery, CF card, etc.
●Unstable place such as the top of a rickety stand, sloping plane, etc. If the camera falls on your head or foot, it may not only hurt you but also damage the camera.
●If internal parts of the camera are damaged by moisture, dust or extreme vibration, the camera may generate the heat, catch fire, or you may get an electric shock.

SAFETY CONSIDERATIONS

A camera is a precision instruments. Please do not drop it, strike it or use excessive force when handling the camera.

Do not discharge the flash close to people's eyes (especially young children.) There is a danger of injury to the eyes.

When setting batteries in the camera, make sure of the polarities (+ and - electrodes) of each battery.
If a battery is set in a wrong orientation, the battery may generate heat, burst or leak the electrolyte and if worst comes to worst you may burn your fingers or get injured.

Don't use a battery soiled with sweat or oil. If it is soiled, carefully clean it with a dry cloth before setting it in the camera.

When you clean the camera, disconnect the AC adapter from the camera for safety.

If the camera won't be used for a long time, remove the batteries from the camera. If the battery is once removed, the setting of the calendar and clock is canceled. When the battery is again set in the camera, reset the calendar and clock without fail.

When the camera is used by a child, the guardian is required to teach him/her correct usage of the camera. If a child uses the camera without a minute explanation, it may cause an injury to him/her.

When mounting the camera on a tripod, don't turn the camera on the platform but turn the camera screw.

In case of electrolyte leak

● If electrolyte leaks from a battery and it stain your hands or clothes, carefully wash it out with water.
● If electrolyte gets into eyes, there is a fear that you may lose your eyesight. In such a case, don't rub your eyes but immediately wash up with water and consult an ophthalmologist as soon as possible.

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Notes on LCD monitor

●The LCD monitor has a characteristic that its brightness slightly changes depending on ambient temperature.

●Although the LCD monitor is developed by full use of the latest high precision technology and is excellent in clearness and quality of picture, there may be some dots that are always bright or dark appearing in the screen. If such a phenomenon occurs, it does not come from a failure of the LCD but results from its peculiarity.

●When the LCD monitor is damaged, be very careful not to be injured by splinters of the broken glass, etc. At the same time, pay heed to the inside liquid crystal not to get it on your skin, mouth, in and around your eyes.

Notes on CompactFlash*(CF) memory card

※ CompactFlash is a trademark of SanDisk Corporation.

●Be sure to use CompactFlash memory cards (hereinafter abbreviated as CF cards) which are identified by "SanDisk" trademark appearing on the backside label, because some CF cards sold on the market don't meet the camera's specifications or are inadequate in the compatibility.

●If data recorded on a CF card is lost or damaged because of malfunction or failure of the CF card or the camera, the manufacturer will be liable for neither the damage/lost itself nor compensation for it at all.

⚠ **Caution** Since CF cards incorporate precision electronic parts inside, carefully handle them following the instructions mentioned below to avoid malfunction or failure of CF cards.

● Don't touch the terminal of CF card with a hand or metallic matter, otherwise inside parts may be damaged by static electricity. Before handling a CF card with hands, be sure to touch a well-grounded metallic matter with your hands to discharge static electricity from your body.

● Be careful not to bend, drop or shock CF cards.

● Carefully keep and use CF cards preventing them from heat, moisture, direct sunbeams.

● Don't remove a CF card from the camera (or personal computer) until reading or writing data is complete.

● Don't dismantle or modify CF cards by any means.

※ It is recommended to back up important data.

※ When operating a CF card on a personal computer, don't change the attribute (read attribute) of a file (picture data) saved on the CF card except for deleting the file. If the read attribute of a file is changed by a personal computer, the camera may fail in deleting the file when the camera is used to do it.

※ Don't use a personal computer to change a file name of picture data stored on a CF card or to write any file other than picture data processed by the camera. If a CF card that is processed in such the way by a personal computer is again set in the camera, it not only results in failure in playback by the camera but also may get the camera disordered in operation. And, the file saved on the CF card may be deleted by the camera.

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ENGLISH

1. Check accessories supplied with the camera.

❶CF (CompactFlash memory) card [4 MB]
❷AA-size (SUM-3) alkaline batteries x 4 [LR6 x 4]
❸Video output cord
❹Strap
❺Soft case
❻Instruction manual (this book) and warranty
❼Installation manual
❽Interface cable for IBM PC/AT compatible.
❾Interface cable for Macintosh.
❿CD-ROM

※For use of the Interface cable for IBM PC/AT compatible, Interface cable for Macintosh and CD-ROM, refer to the installation manual.

2. Read the following before use.

●Test the camera before use.
Before photographing on an important occasion such as a wedding, etc., be sure to try out the camera to see if it operates normally.

●Results of photography are out of manufacturer's guaranty and compensation.
If you fail in photographing owing to failure of the camera or CF card, the manufacturer won't be responsible for the result and will be exempt from compensation.

●Pay heed to copyright.
If you photograph a copyrighted matter, you are prohibited from using the photograph without permission of the copyright holder except the case that you enjoy it individually. Moreover, there are some cases that restrain photographing even when photographers intend to take pictures for individual pleasures.

3. This camera is driven by three power sources as mentioned below.

1) AA-size (SUM-3) alkaline batteries (available at camera store, electrical appliance store, etc.).
• Use of those batteries is the most convenient way to supply power to the camera.
• Manganese (manganese dioxide) batteries and lithium batteries cannot be used for this camera.

2) Mains AC outlet.
• Connect an optional AC adapter (optional) for the Q-M100 between the camera and a mains AC outlet to utilize mains power for the camera.

3) Ni-Cd alkaline battery or Ni-H battery.
• When a rechargeable battery such as Ni-Cd alkaline battery or Ni-H battery is used as a power source, carefully use the battery following the instructions of the battery and the battery charger for it.
• The camera is incompetent to recharge such a battery.
• When disposing a dead Ni-Cd alkaline battery, restore it to the store where you purchased it or so for recycling it. When disposing other kinds of batteries, follow the local regulations of your district.
• Number of pictures that can be taken with a fully charged rechargeable battery depends on the performance and use condition of the battery.

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Names of main parts / Camera body
Nomenclature des organes / Boîtier de l'appareil
Bezeichnung der Hauptteile / Kameragehäuse

1 Flash mode switch
2 Self-timer/Close-up mode switch
3 Image quality mode switch
4 Data display panel (LCD)
5 Shutter release button
6 Viewfinder
7 Grip rubber
8 Objective lens/Lens barrier*
9 Self-timer indicator
10 Flash adjustment sensor
11 Flash tube
12 Video port cover/Video port (inside cover)
13 Power input terminal
14 Serial port
15 I/O terminal cover
16 Lens barrier switch
17 Viewfinder
18 MENU button
19 SET button
20 SELECT buttons
21 LCD monitor
22 Battery cover
23 Green lamp
24 Monitor power switch
25 Card access warning lamp
26 Red lamp
27 CF card cover/CF card ejector button (inside cover)
28 Card cover release button
29 Strap eyelet
30 Tripod socket hole

*The lens barrier that shuts and opens by operation of the lens barrier switch protects the objective lens. Don't directly touch both the lens barrier and objective lens.

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Names of main parts (continued) / Data display panel (LCD)
Nomenclature des organes (suite) / Panneau d'affichage des données (LCD)
Bezeichnung der Hauptteile (Fortsetzung) / Datendisplay (LCD)

ENGLISH

*In the following picture, all indicators of the data display panel are on for explanation.
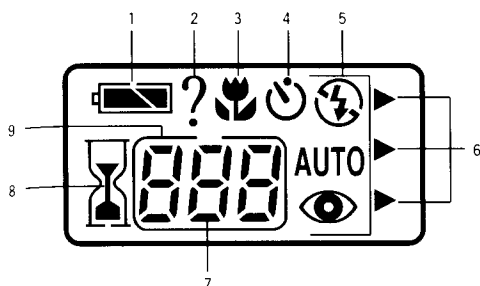
1 **Battery's remaining energy indicator**
Remaining energy of the battery is indicated in three steps of | ▆ | (full), | ▬ | (half) and | ▭ | (depleted).

2 **Card NG indicator**
This indicator goes on when the inserted CF card is unusable. For example, when a CF card which is unformatted, unconformable to this camera, has broken data and so on is inserted, this indicator goes on.

3 **Close-up indicator**
When you want to photograph close to an object (at a distance of 0.2 to 0.8 m to an object), press the self-timer/close-up switch to turn this indicator on. In this mode, the shutter is actuated a little later than the normal photography.

4 **Self-timer indicator**
For self-timer photography, press the self-timer/close-up switch to turn this indicator on.

5 **Flash mode indicator**
Each time the flash mode switch is pressed, indication of this indicator circularly changes from 1) automatic flash (AUTO), to 2) automatic flash with red-eye reduction, to 3) forced flash (ON), to 4) forced flash with red-eye reduction, to 5) non-flash (OFF), and to 1) again for selection of a desired flash mode.

6 **Image quality (resolution) mode indicator**
Each time the picture quality mode switch is pressed, indication of this indicator circularly changes from "FINE" to "SUPER FINE" to "ECONOMY" and to "FINE" again. Each indication expresses the picture quality at the selected mode. Number of pixels to be used to record a picture is 1152 (horizontal) × 872 (vertical) in the FINE and SUPER FINE modes, or 576 (horizontal) × 436 (vertical) in the ECONOMY mode.

7 **Remaining exposure counter**
This counter does not show number of exposed frames but shows number of remaining frames. When the camera is connected with a personal computer, "PC" appears in this indicator.

8 **Sandglass mark**
This sandglass mark blinks in a camera operation that it takes a considerably long time to finish, for example, picture data writing on a CF card or picture data transfer to a personal computer, etc.
While this sandglass mark is blinking, the camera cannot otherwise be operated.

9 **Card status indicator**
This indicator is on when the CF card cover is closed with a proper CF card set inside. This indicator goes out when the CF card cover is opened or a CF card is removed from the camera.

✣When the remaining exposure counter shows "Err" and all other indicators appearing on the indicator panel are blinking, there is an error in camera control. On such an occasion, refer to "Error message" (▸ p.126).

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Names of main parts / LCD monitor
Nomenclature des organes / Ecran à cristaux liquides (LCD)
Bezeichnung der Hauptteile / LCD-Monitor

1. A Set Camera Exposure?
   B Set Screen Brightness

2. a b c d e f g h i
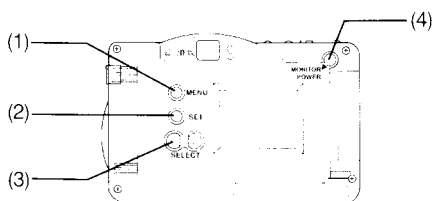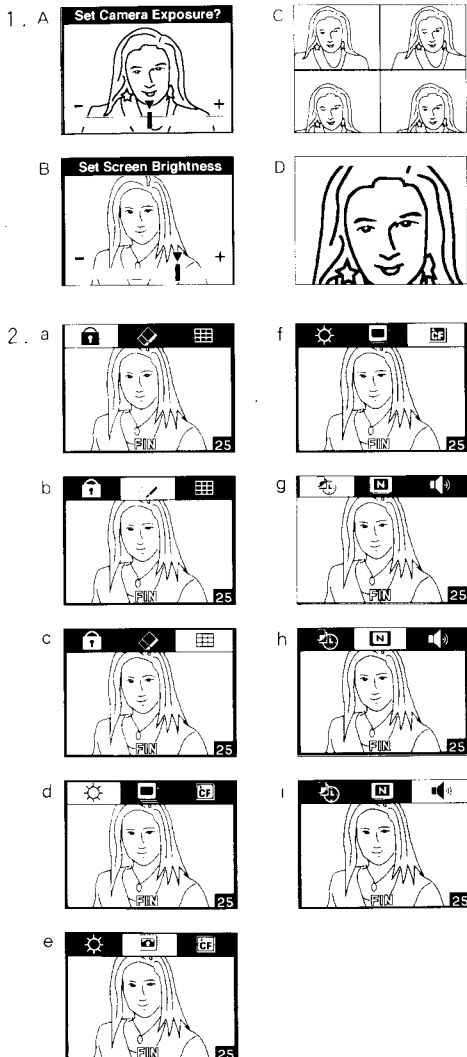
ENGLISH

●The LCD monitor is used for many purposes such
as to show playback pictures (→ p.66), to preview
pictures (→ p.78) and to show menus for selecting
various functions.
For details of each function or operation, read
explanations on and after the next page.

1. **Functions that can be selected by pressing
   the MENU button in the preview mode are
   shown below.**

   A Exposure compensation
   B LCD monitor's brightness adjustment
   C 4-frame continuous shooting.
   D Digital 2x zoom

2. **Functions that can be selected by pressing
   the MENU button in the playback mode are
   shown below. (Number appearing in the
   lower right part of each menu shows the
   menu number.)**
   (Each time the SELECT button (" " or "▷
   ") is pressed, the following menus are cir-
   cularly shown by turn.)

   a Setting of frame protection
   b Erase
   c Index playback
   d Adjustment of LCD monitor's brightness
   e Slide show playback
   f Formatting of CF card
   g Setting of calendar and clock
   h Switching between NTSC and PAL
     (Refer to page 106.)
   i Setting of buzzer

(1)
(2)
(3)
(4)

(1) **MENU button**
   To access menus on the LCD monitor.

(2) **SET button**
   To execute a selected function.

(3) **SELECT buttons**
   To select a function from a menu.

(4) **Monitor power switch**
   To turn on/off the LCD monitor.

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Setting batteries in camera
Mise en place des piles dans l'appareil
Einlegen von Batterien in die Kamera
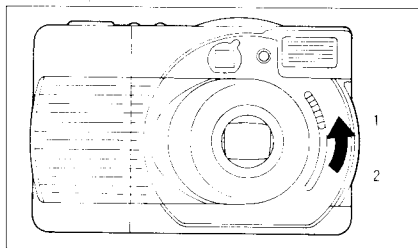
1. First of all. close the lens barrier without fail.
   (Slide the lens barrier switch upwards.)
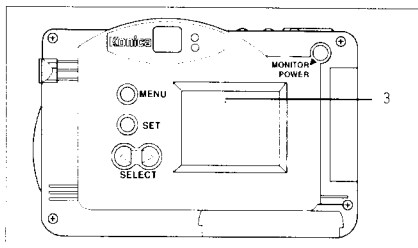
2. Make sure that the LCD monitor on the back of the
   camera is off.
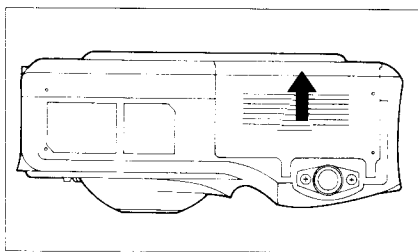
3. Slide the battery cover on the bottom of the camera
   in the direction of the arrow to open it.

   ⚠ Warning: Don't touch the battery cover with
   wet hand. otherwise you may get an
   electric shock.
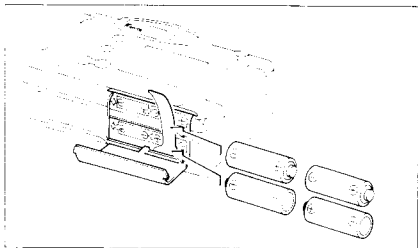
4. Set AA-size batteries (four) in the battery chamber,
   paying careful attention to their respective orienta-
   tions referring to + and - indications inside the bat-
   tery chamber.

   ⚠ Caution: If some battery is set in wrong ori-
   entation. it may cause not only dam-
   age to or soil of the camera but also
   injury on you. because a wrong set
   battery generates heat or leaks elec-
   trolyte.

<figure>
  1 CLOSE
  2 OPEN
  3 LCD monitor

Setting batteries in camera (continued)
Mise en place des piles dans l'appareil (suite)
Einlegen von Batterien in die Kamera (Fortsetzung)

ENGLISH
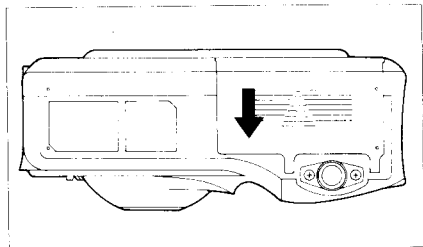
5. After confirming that all batteries are set right firmly close the battery cover by sliding it in th direction of the arrow until it clicks.

 *When the battery's remaining energy indicat indicates the half level, the batteries need replac ment. When replacing the battery, prepare fo new batteries of the same type to replace all at t same time.
When going out with the camera, it is recommen ed to have four new batteries always ready.

Use of AC adaptor (optional accessory) for Q-M100
Utilisation d'un adaptateur secteur (en option) pour le Q-M100
Verwendung des Netzteils (Sonderzubehör) für die Q-M100

ENGLISH

*If you use an optional AC adaptor for Q-M100 supply power to the camera, you can transfer p ture data to a personal computer without wo about remaining energy of batteries.

● Correctly connect an AC adaptor (optional) for M100 to the camera and a mains AC outlet ref ring to "Safety precautions" of this book and precautions of the AC adaptor.

● Be sure to use an optional specified AC adapt because use of another AC adaptor may cause ca era failure, fire or electric shock.

1. First of all, close the lens barrier without fail. (Slide the lens barrier switch upwards.)
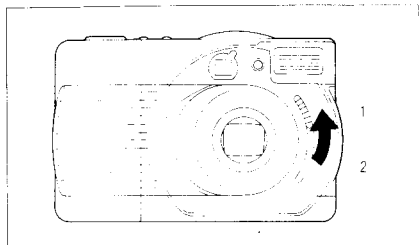
2. Make sure that the LCD monitor on the back of camera is off.
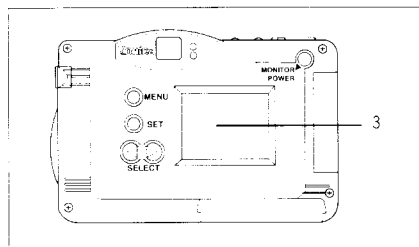
3. Open the I/O cover.
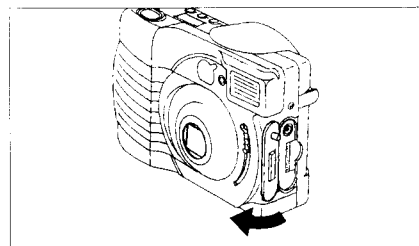
4. Plug the cord connector of the AC adaptor into power input terminal of the camera. Next, plug the AC adaptor in to a mains out (Input 100V ~ 240V,50/60Hz AC).

<figure>
1 CLOSE
2 OPEN
3 LCD monitor

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Setting CF card in camera
Insertion de la carte CF dans l'appareil
Einschieben der CF-Karte in die Kamera

ENGLISH

●First of all, make sure that the lens barrier is clo
the LCD monitor is off and all the power swit
are off. If the camera is turned on in whole o
part, it may cause damage to the camera and a
card set in the camera.
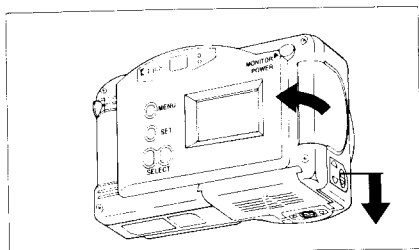
1. Press down the CF card cover release butto
unlock the CF card cover, and then open the
card cover.
⊘Don't open the CF card cover by force, other
the pivot of the cover may be damaged.
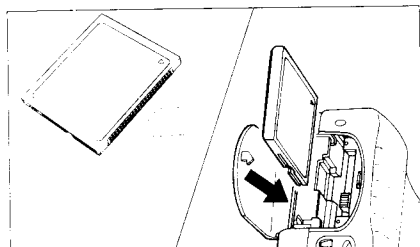
(2 A)   (2 B)

2. Paying heed to the orientation of a CF card, i
it straight into the deepest end. (2B)
⊘Be sure insert a CF card correctly referring to
figure 2A for orientation of the CF card. If a
card is inserted in wrong orientation, the conne
may be damaged.

3. Bend the card ejector button so that it will be
ered by the CF card cover.
＊If the card ejector button is not bent, the CF
cover cannot be closed.
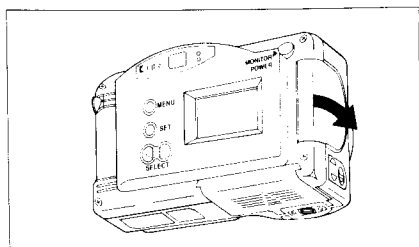
4. Close the CF card cover.
Caution: ⊘If the CF card cover is opened du
playback of picture, the came
compulsorily turned off. Before in
ing or setting a CF card, be sur
turn off the camera.
Don't open the CF card cover w
the card access warning lamp is o
the shooting mode, otherwise op
tion of picture data writing on a
card is interrupted.

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Removing CF card from camera
Retrait de la carte CF
Herausnehmen der CF-Karte aus der Kamera

ENGLISH

● First of all, make sure that the lens barrier is cl[...]
the LCD monitor is off and all the power swit[...]
are off. If the camera is turned on in whole o[...]
part, it may cause damage to the camera and a[...]
card set in the camera.
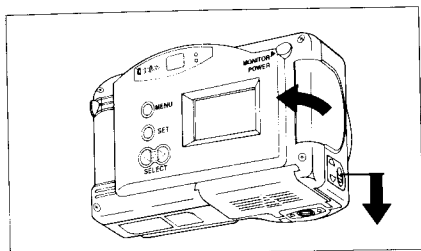
1. Press down the CF card cover release butto[...]
   unlock the CF card cover, and then open the[...]
   card cover.
   ⊘Don't open the CF card cover by force, othe[...]
   the pivot of the cover may be damaged.
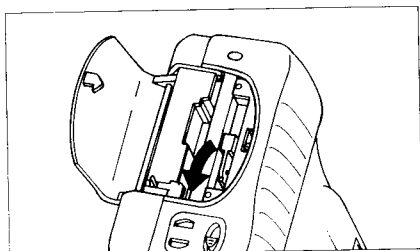
2. Raise the CF card ejector button.
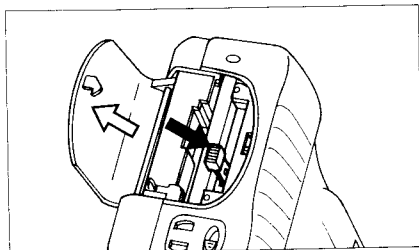
3. Press the CF card ejector button to stick out th[...]
   card, then pick it out of the camera.
   *If the CF card cannot be stuck out by pressin[...]
   CF card ejector button, again push the CF car[...]
   the deepest end and press the CF card ejecto[...]
   ton strongly once more.
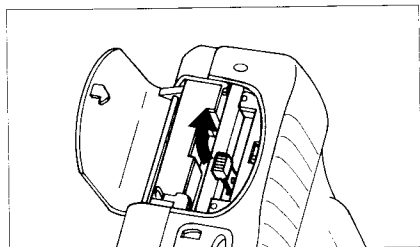   *If the CF card ejector button is pressed wit[...]
   card slot down, the CF card may fall down. A[...]
   pressing the CF card ejector button with the [...]
   slot down.
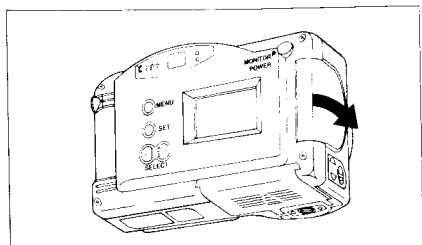
4. Shut the CF card cover.
   Caution: ⊘If the CF card cover is opened d[...]
   playback of picture, the came[...]
   compulsorily turned off. Before i[...]
   ing or setting a CF card, be su[...]
   turn off the camera.
   Don't open the CF card cover w[...]
   the card access warning lamp is o[...]
   the shooting mode, otherwise op[...]
   tion of picture data writing on [...]
   card is interrupted.

36

se of strap (attachment) and soft case (attachment)
Utilisation de la dragonne et de l'étui souple (accessoires fournis)
Verwendung von Tragegurt und Tasche (beide mitgeliefert)

ENGLISH

<Fitting strap to camera>

1. Pass the shorter and thinner end of the strap (su
   plied with the camera) through the strap eyelet
   the camera.
   ○Since it is considerably hard to pass the strap e
   through the strap eyelet. use a toothpick or the li
   to do it.

2. Pass the other end of the strap through the ring
   the strap end passed first. and pull the second
   passed end to tighten the strap.

   ⚠ Warning: When carrying the camera by the
   strap, don't wear it around the neck,
   particularly around the neck of a
   infant or child. If the strap tightens
   itself around the neck, it may cause
   suffocation.

   ⚠ When carrying the camera by the strap. be ca
   ful not to knock the camera against somethi
   other.

<Putting camera into soft case>

1. When putting the camera into the soft case (su
   plied with the camera). insert the flashlight si
   first as shown in the figure on the left.

2. After putting the camera in the soft case. lid
   soft case.
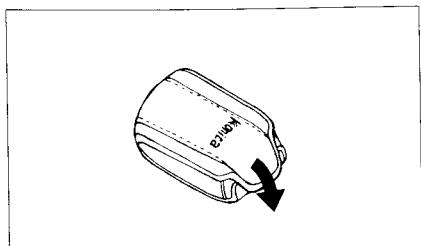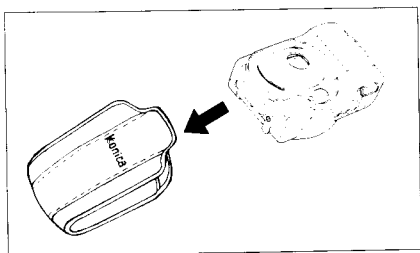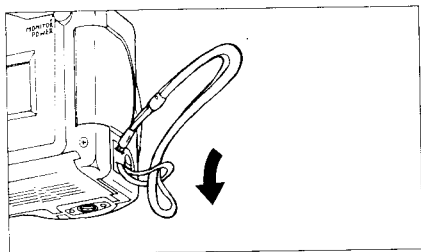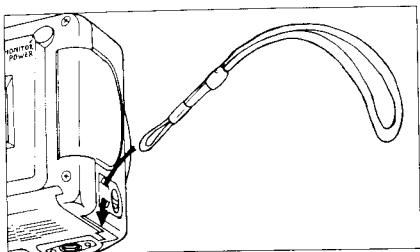
Setting calendar and clock
Réglage du calendrier et de l'horloge
Einstellung von Datum und Uhrzeit

● Before starting calendar setting, make sure that b
teries are properly set in the camera or a specifi
AC adaptor is connected to supply power to
camera and the lens barrier is closed (the lens ba
er switch is set at "CLOSE").

● When you press the MONITOR POWER switch
the first time since you got the camera, you h
access to the scene of the following step 4 for
ting the calendar and clock. On such the occasi
be sure to set the calendar and clock correctly f
of all.
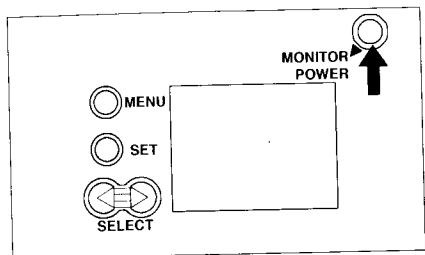
1. Press the monitor power switch to turn on the LC
monitor.
   * When no CF card is set in the camera or no pict
   is recorded on the inserted CF card, a message "
   pictures in camera" appears on the LCD monito
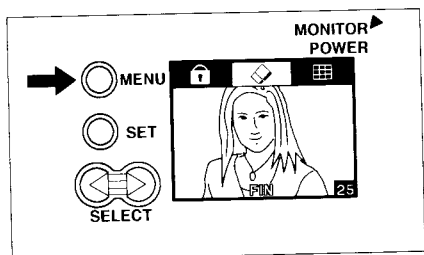
2. Press the MENU button once. The "Erase" i
reversely appears on the screen.
   * When no CF card is set in the camera or no pict
   is recorded on the inserted CF card, a message
   pictures in camera" appears on the LCD moni
   If the MENU button is pressed in this status,
   previous operation is canceled and the cam
   (screen) status returns to the step 1.
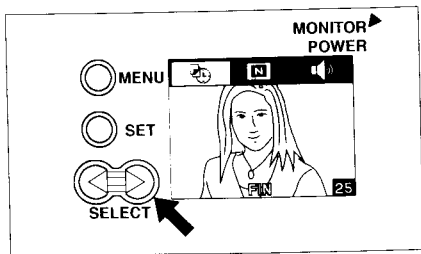
3. Press the SELECT button (" ▷ ") five times.
"Calendar setting" icon reversely appears on
screen.
   * If you fail in repeatedly pressing the SELECT
   ton (" ◁ " or " ▷ "), carefully continue pressing
   button until the "Calendar setting" icon ag
   appears on the screen.
   * If the MENU button is pressed in this status,
   previous operation is canceled and the cam
   (screen) status returns to the step 1.
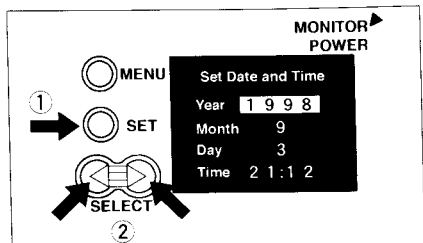
4 . Press the SET button. The camera enters into a
endar setting mode for "Year". Set "Year"
pressing the SELECT button (" ◁ " or " ▷ ").
   * If the MENU button is pressed in this status,
   previous setting is canceled and the cam
   (screen) status returns to the step 3.

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Setting calendar and clock (continued)
Réglage du calendrier et de l'horloge (suite)
Einstellung von Datum und Uhrzeit (Fortsetzung)

```
                    MONITOR►
                    POWER
  ○ MENU    Set Date and Time
①                Year   1 9 9 8
  ► ○ SET        Month  [9]
                 Day      3
                 Time   2 1:1 2
    SELECT
    ②
```

5. Press the SET button. The camera enters into a c[...]
endar setting mode for "Month".
Set "Month" by pressing the SELECT button (" [...]
or "▷").
   *If the MENU button is pressed in this status, [...]
   previous setting is canceled and the cam[...]
   (screen) status returns to the step 3.

```
                    MONITOR►
                    POWER
  ○ MENU    Set Date and Time
①                Year   1 9 9 8
  ► ○ SET        Month    9
                 Day    [3]
                 Time   2 1:1 2
    SELECT
    ②
```

6. Press the SET button. The camera enters into a c[...]
endar setting mode for "Day".
Set "Day" by pressing the SELECT button (" ◁"[...]
"▷").
   *If the MENU button is pressed in this status, [...]
   previous setting is canceled and the cam[...]
   (screen) status returns to the step 3.

```
                    MONITOR►
                    POWER
  ○ MENU    Set Date and Time
①                Year   1 9 9 8
  ► ○ SET        Month    9
                 Day      3
                 Time   [2 1]:1 2
    SELECT
    ②
```

7. Press the SET button. The camera enters into [...]
clock setting mode.
Set "Hour" by pressing the SELECT button (" [...]
or "▷").
   *If the MENU button is pressed in this status, [...]
   previous setting is canceled and the cam[...]
   (screen) status returns to the step 3.

```
                    MONITOR►
                    POWER
  ○ MENU    Set Date and Time
①                Year   1 9 9 8
  ► ○ SET        Month    9
                 Day      3
                 Time   2 1:[1 2]
    SELECT
    ②
```

8. Press the SET button. The camera enters int[...]
clock setting mode for "Minute".
Set "Minute" by pressing the SELECT button ([...]
" or "▷").
   *If the MENU button is pressed in this status, [...]
   previous setting is canceled and the cam[...]
   (screen) status returns to the step 3.

Setting calendar and clock (continued)
Réglage du calendrier et de l'horloge (suite)
Einstellung von Datum und Uhrzeit (Fortsetzung)

```
                        MONITOR▶
                        POWER
  ◯ MENU    9 / 3 / 1 9 9 8
              2 1 : 1 2
  ➡ ◯ SET    Is this correct ?

  ◁◯▷        Y E S   N O
   SELECT
```
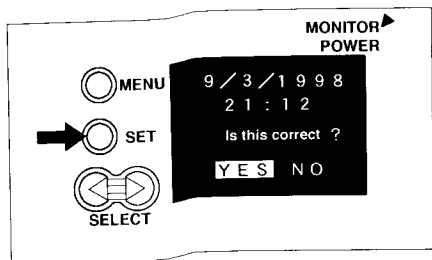
9. Press the SET button. The camera enters into
   mode to fix or cancel the input data on calen
   and clock (year, month, day, hour and minute).
   If the SET button is pressed with "YES" appea
   on the screen, the input of calendar and cloc
   fixed and the camera (screen) status returns to
   step 1.
   *If the MENU button is pressed in this status,
   previous setting is canceled and the cam
   (screen) status returns to the step 3.
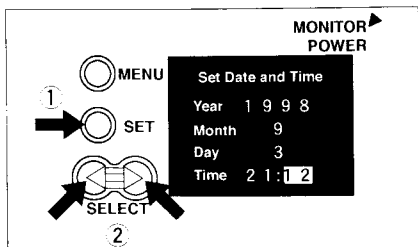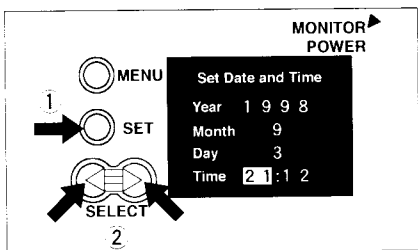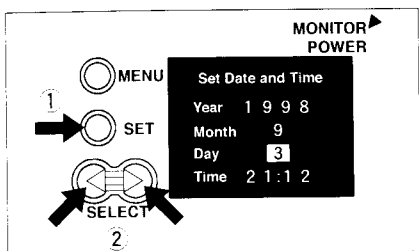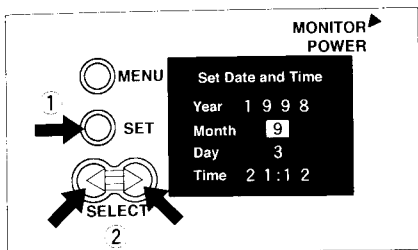   To cancel the input data on calendar and clo
   press the SELECT button (" ◁ " or " ▷ ") to
   "No" appear on the screen and then press the S
   button, or press the MENU button.
   *When the batteries are replaced, make sure of
   setting of the calendar and clock.
   The calendar and clock that can be set effectiv
   are for the period from 0:00 hour of January
   1970 to midnight of December 31, 2037.

Taking pictures
Prise de vues
Bildaufnahme
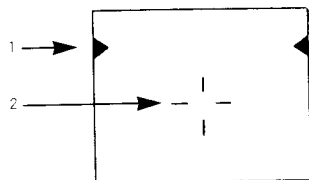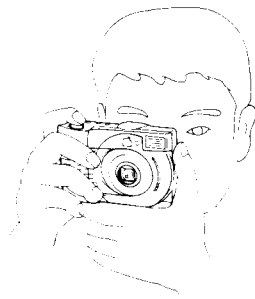
ENGLISH

● Firmly hold the camera by both hands and slight compress your sides by elbows to stabilize the ca era.

● For flash photography in vertical camera positio hold the camera with the flashlight up.

⊘ Carefully hold the camera not to cover the flas light and lens with the strap or fingers.

Viewfinder and indicator lamps

1 Parallax correction marks
The area below these marks is the effective pictu range in the close-up mode (0.2 m to 0.8 m object).
For composing (framing) the picture more preci ly, use the preview function (→ p.78).

2 Target/Auto-focus frame

3 Green lamp
ON: Indicates that camera is ready for sho ing.
Blinking: Indicates that camera fails in automa focusing. (→ p.64)

4 Red lamp
ON: Indicates that flashlight is being charged
Blinking: ● Low illumination warning (blinks times/second).
→ Use the flashlight. (→ p.56)
● Camera shake warning (blinks twi second).
→ Use a tripod.

※ If both the green and red lamps are blinking, it impossible to take pictures.
In this case, the following causes are thinkable.

1) The CF card has no room for writing data in selected data compression mode.
2) There is no CF card set in the camera.
3) The CF card set in the camera is differently f matted.
4) The CF card cover is open.
5) The batteries are dead or depleted.
6) There occurs an error in camera operation Refer to "Error message" on page 126.

FR
● Te rez ma
● Po po
⊘ Te au on

Le
① R La tiv m P p p.
② C
③ V A
C
④ V A
C

※ I p D

1
2
3

4
5
6

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Taking pictures (continued)
Prise de vues (suite)
Bildaufnahme (Fortsetzung)
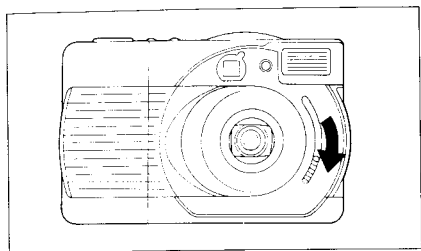
ENGLISH

1. Slide the lens barrier switch downwards to s█
   the "OPEN" position. The lens barrier is o█
   and the camera is turned on.

*Open/close the lens barrier by operating the l█
barrier switch only.
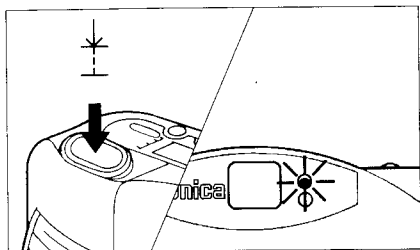
2. Compose a picture looking through the viewfi█
   and lightly press the shutter release button.
   The green lamp goes on to indicate that expo█
   and focus controls are locked.
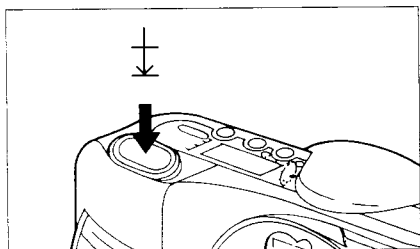
3. Moreover press the shutter release button to █
   ate the shutter. With beep sound, the shootin█
   complete. After that, the camera starts writing█
   ture data on the CF card.
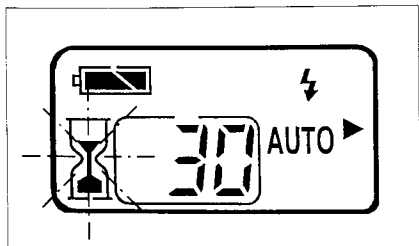
4. The sandglass mark appears on the indicator p█
   and the sand part of the sandglass starts bli█
   while the card access warning lamp goes on.
   While the card access warning lamp is on█
   camera does not accept any operation because█
   writing is performed in this period.
   ⊘Don't remove the CF card until the sandglass █
   stops blinking.

Usual object distance: 0.8 m to ∞

*For shooting an object at a close distance of 0█
to 0.8 m from the camera, refer to "Close-up█
tography" on page 60.

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Taking pictures (continued)
  Prise de vues (suite)
    Bildaufnahme (Fortsetzung)

ENGLISH

●Automatic power-off operation

If the camera is left without operation for more 5 minutes as it is turned on, the automatic power-off function is activated to turn off the data display panel and LCD monitor, therefore, the batteries are prevented from getting consumed.

To cancel the automatic power-off mode after it is activated, slide the lens barrier switch upwards to set it at the "CLOSE" position once and again slide it downwards to set it at the "OPEN" position to turn on both the indicator panel and LCD monitor. At that time, reset the shooting mode depending on the situation because it was canceled with activation of the automatic power-off function.

Automatic power-off function is also activated when the AC adaptor is used.

※After shooting is complete, close the lens barrier without fail to protect the lens.

※If the camera is turned off as the lens barrier is open, set the lens barrier switch at the "CLOSE" position once and then slide it to the "OPEN" position again to turn on the camera for shooting.

FRANÇAIS

●Mise hors tension automatique

Si l'appareil est laissé sous tension pendant plu 5 minutes, la fonction de mise hors tension aut tique entre en service pour couper l'alimentatio panneau d'affichage et à l'écran LCD de mani éviter une décharge des piles.

Pour annuler le mode de mise hors tension aut tique quand il a fonctionné, glissez le levie volet d'objectif vers le haut jusqu'à la posi "CLOSE" (fermé), puis abaissez-le jusqu'à la tion "OPEN" (ouvert) pour remettre sous tensi panneau d'affichage et l'écran LCD. A ce st vérifiez le mode de prise de vue selon la situ car il a été annulé par l'actuation de la fonctio mise hors tension automatique.

La fonction de mise hors tension automatique aussi si vous utiliser l'adaptateur secteur.

※Après la prise de vue, refermez le volet de l'ob pour protéger ce dernier.

※Si l'appareil est mis hors tension alors que le de l'objectif est ouvert, glissez d'abord le levi volet à la position "CLOSE" (fermé), puis à veau à la position "OPEN" (fermé) afin de rem l'appareil sous tension pour la prise de vue.

50

Switching image quality (resolution) mode
Changement du mode de qualité (définition) d'image
Wahl des geeigneten Bildqualität-Modus (Auflösung)

ENGLISH

●Each time the image quality mode switch is pressed, the "▶" mark moves on the data display panel to indicate a image quality mode one after another repeatedly.
 *A image quality mode set once is fixed for continuous shooting, but it is reset to the "FINE" mode when the lens barrier is opened again after it was closed once.
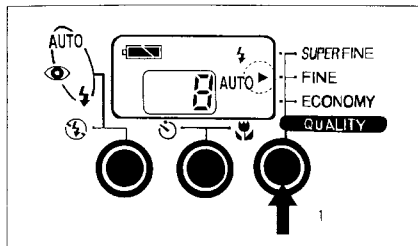
1. When the lens barrier is opened with a CF card in the camera, the image quality mode is reset to the "FINE" mode (normal mode).
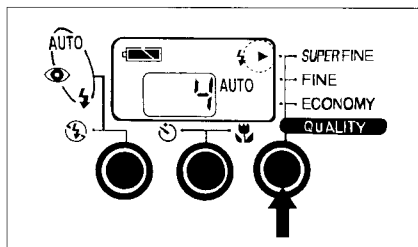
2. When the image quality mode switch is pressed once, the image quality mode is switched to the "SUPER FINE".
 *With switching of the image quality mode, number of frames available for future shooting changes.
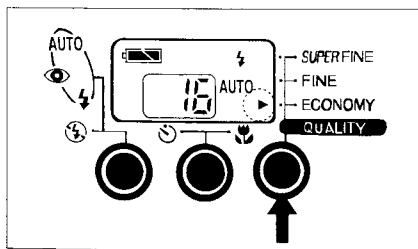
3. When the image quality mode switch is pressed once more, the image quality mode is switched to the "ECONOMY".
 *With switching of the image quality mode, number of frames available for future shooting changes.

<figure> 1 Image quality mode switch

Switching image quality (resolution) mode (continued)
Changement du mode de qualité (définition) d'image (suite)
Wahl des geeigneten Bildqualität-Modus (Auflösung) (Fortsetzung)

ENGLISH

Use of each image quality mode

1) "SUPER FINE" mode: 1152 (horizontal) × 872 (vertical) pixels.

Use this mode that records picture in the highest image quality (finest resolution) to shoot important objects worthy to preserve or to edit pictures on a personal computer, etc.

2) "FINE" mode: 1152 (horizontal) × 872 (vertical) pixels.

Usually take pictures in this mode.

3) "ECONOMY" mode: 576 (horizontal) × 436 (vertical) pixels.

Use this mode for recording pictures temporarily, for taking pictures that are worthless to preserve or to be played back by a TV set, or for taking pictures as many as possible.

Number of pictures (frames) that can be taken in respective image quality modes.

*Each number of pictures shown in the following table is just for reference, because each number decreases if there is data or file other than that of picture recorded on the CF card.

Mode	4-MB card	10-MB card	Standard file size
SUPER FINE	10 pictures (approx.)	25 pictures (approx.)	400 kB
FINE	20 pictures (approx.)	50 pictures (approx.)	200 kB
ECONOMY	50 pictures (approx.)	125 pictures (approx.)	80 kB

*When files (pictures) of a CF card are recorded in different image quality (resolution) modes or/and shooting modes, number of files (pictures) that can be recorded on a CF card differs from the above-mentioned standard.

FRANÇAIS

Utilisation de chaque mode qualité d'image

1) Mode "SUPER FINE": 1152 × 872 pixels (horizontal x vertical).

Utilisez ce mode, enregistrant l'image avec haute qualité (la meilleure définition), pour objets dignes d'être conservés ou pour éditer images sur un ordinateur personnel, etc.

2) Mode "FINE": 1152 × 872 pixels (horizontal x vertical).

Utilisez ce mode pour prendre des photos ordinaires.

3) Mode "ECONOMY": 576 × 436 pixels (horizontal x vertical).

Utilisez ce mode pour enregistrer temporairement des images qui ne devront pas être conservées, qui seront reproduites sur un téléviseur, ou prendre le plus possible d'images.

Nombre d'images (vues) autorisé en chaque mode de qualité

*Le nombre de vues du tableau suivant est donné à titre indicatif seulement, car ce nombre diminue y a autre chose que des fichiers d'images sur la CF.

Mode	Carte 4 Mo	Carte 10 Mo	Fichier standard
SUPER FINE	10 vues env.	25 vues env.	400 k
FINE	20 vues env.	50 vues env.	200 k
ECONOMY	50 vues env.	125 vues env.	80 k

*Si les fichiers (images) d'une carte CF sont enregistrés selon des modes de qualité (définition) des modes de prise de vue différents, le nombre fichiers (images) enregistrables sur une carte sera différent des valeurs standards mentionnées dessus.

Switching flash mode
Sélection du mode flash
Wahl des geeigneten Blitzmodus

● Each time the flash mode switch is pressed, o█
five flash modes appears in turn on the data di█
panel.
  *The flash mode set once is fixed for contin█
  shooting, but it is reset to the "AUTO" (auto█
  flash) mode when the lens barrier is opened █
  after it was once closed.
  *While the red lamp is on after flash photog█
  the shutter release button is locked becaus█
  flashlight is being charged.
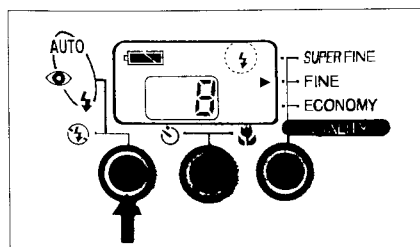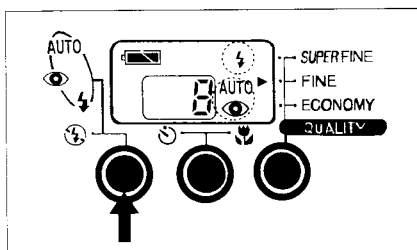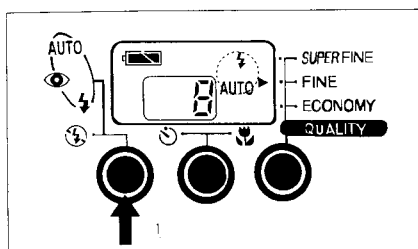
1. When the lens barrier is opened with a CF ca█
   in camera, the flash mode is set to the "AU
   (automatic flash) mode (preset normal mode█
   this mode, the flashlight is automatically act█
   for dark objects.

2. If the flash mode switch is pressed once i█
   "AUTO" mode, the "▶" mark is selected a█
   flash mode is changed to the "red-eye redu█
   automatic flash mode".
   In this mode, the flashlight emits light twice█
   shot, namely preliminary emission and a█
   emission, to control red-eye phenomenon.
   *Since it takes about 0.8 second from prelim█
   emission to actual emission of the flashligh█
   careful not to shake the camera and to prev█
   object from moving during this period.

3. If the flash mode switch is pressed once i█
   "red-eye reducing automatic flash mode", th█
   mark is selected and the flash mode is chang█
   the "forced flash mode". In this mode, the█
   light is actuated at every shooting regardl█
   darkness or brightness of object.
   *Use this forced flash mode to soften a co█
   between light and shade in the picture, for ex█
   a contrast between light and shaded parts in █
   when you take a portrait in the sunny outdoo█
   when you take a picture against the light or i█
   ficial light such as a fluorescent lamp, etc.
   *In case of low illuminance, the shutter sp█
   automatically set at a low speed and the flas█
   is synchronized with it, therefore, it is advi█
   use a tripod for camera shake preventi██

   <figure> 1 Flash mode switch

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Switching flash mode (continued)
   Sélection du mode flash (suite)
       Wahl des geeigneten Blitzmodus (Fortsetzung)
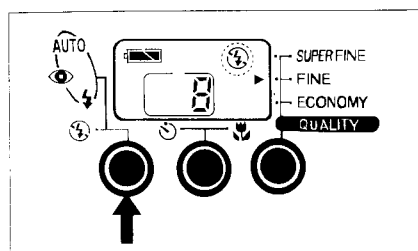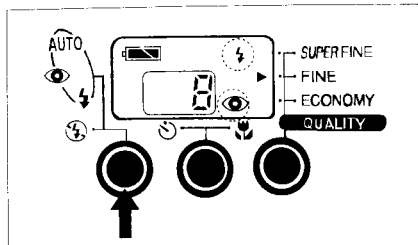
ENGLISH

4. If the flash mode switch is moreover pressed, the ⚡.👁 mark is selected and the flash mode is changed to the "red-eye reduction forced flash mode". In this mode, the flashlight emits light twice for a shot, namely preliminary emission and actual emission, to control red-eye phenomenon.

5. If the flash mode switch is furthermore pressed, the 🚫 mark is selected and the flash mode is changed to the "non-flash mode". In this mode the flashlight never works even in a dark place. Therefore, select this mode for taking pictures in such a place as use of flashlight is forbidden (art museum, etc.) and for taking pictures of nightscape.
    *When taking pictures without flash in a dark place or at night, it is advised to use a tripod to avoid camera shake because the shutter speed is automatically set considerably slow in such a situation.
    *If a moving object is shot, the picture comes out badly as the object blurs.

Recommended object distance for flash photography: 0.5 m to 3.0 m approx.

*If object distance is shorter than 0.5 m, the picture (camera subject) comes out too brightly.

*If object distance is longer than 3.0 m, the picture (camera subject) comes out darkly because the flash has no effect on the distant object.

Self-timer photography/Close-up
Photographie à Retardateur/Gros-plan
Selbstauslöser-/Nahaufnahmen

● Each time the self-timer switch is pressed, one of three modes is selected one after another as indicated on the data display panel.

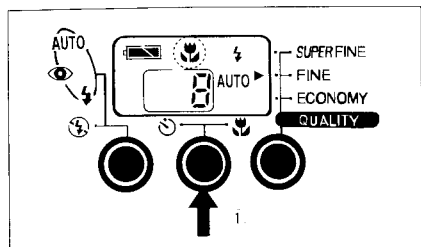1. When the self-timer switch is pressed once, the close-up mode is selected with an indication on the data display panel. Use the close-up mode for shooting an object at a short distance of 0.2 m to 0.8 m.
   *The camera generally focalizes on an object at a distance of 0.8 m to the infinity (∞) out of the close-up mode.
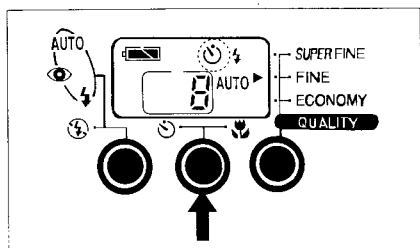
2. When the self-timer switch is pressed twice, the camera enters the self-timer mode with an indication on the data display panel.
   In the self-timer photography mode, the shutter opens about 10 seconds after the shutter release button is pressed. Through the period from pressing the shutter release button and practical operation of the shutter, the self-timer lamp blinks.
   *If you want to cancel self-timer operation halfway, press the self-timer switch once again.
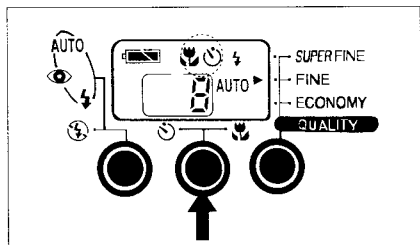
3. When the self-timer switch is pressed three times, the camera is ready for close-up with self-timer. If the shutter release button is pressed in this mode, the shutter opens 10 seconds or more later for precise focusing on the object in the close-up range.
   *To cancel self-timer operation halfway, press the self-timer switch once again.

<figure> 1 Self-timer switch

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Self-timer photography/Close-up (continued)
   Photographie à Retardateur/Gros-plan (suite)
      Selbstauslöser-/Nahaufnahmen (Fortsetzung)

ENGLISH

Regarding self-timer photography

● On taking pictures with self-timer, carefully set up the camera on a tripod or a horizontal stable plane.
● The self-timer mode is canceled each time self-timer photography is complete. If you want to continue to take pictures with self-timer, set the self-timer switch for each photography.

Regarding close-up

● In the close-up mode, it takes a slightly long time compared with the normal photography to actuate the shutter after the shutter release button is pressed, because the lens is comparatively slowly operated for precise focalization.
● In the close-up mode, the actual photographing field is limited to the range below the parallax correction marks (side marks) appearing in the viewfinder. In the close-up mode carefully determine composition of the picture before pressing the shutter release button.
● In a close-up in a dark place where the camera activates the automatic flash function, the object may be illuminated too brightly by the flashlight. In such a case, take a picture at a distant of 0.5 m or more from the object.
● When a close-up subject is extremely dark, the camera occasionally falls into difficulty in focusing. In such a case, temporarily light up the subject with a light bulb or the like to make the camera easily come into focus. In the close-up mode, the camera has difficulty in focusing on such objects as mentioned below.
   · Flat objects unclear between light and shade (sky, white wall, bonnet of a car, etc.).
   · Objects plane in surface such as a plane with horizontal lines.
   · Fast moving objects.
   · Dark objects and places (low luminance/illuminance).
   · Objects in backlight or strongly reflective objects.
   · Flickering objects such as fluorescent lamp, etc.
On photographing such an object, be sure to lock the focus (focus lock function) before pressing the shutter.

FRANÇAIS

A propos de la photographie à retardement

● Avant la prise de vue à retardement, placez convenablement l'appareil sur un pied ou un support stable et horizontal.
● Le mode retardateur est annulé après chaque prise de vue en ce mode. Pour prendre une autre photo avec le retardateur, réglez à nouveau le commutateur de retardateur.
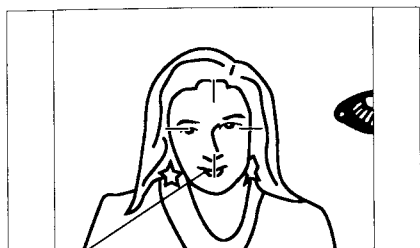
Prise de vue en gros-plan

● En mode gros-plan, il faut un peu plus de temps qu'en photographie normale pour que le déclencheur actionne l'obturateur car l'objectif fonctionne plus lentement pour permettre une mise au point plus précise.
● En mode gros-plan, le champ réel est limité à la zone sous les repères de correction de parallaxe (sur les côtés) apparaissant dans le viseur. En mode gros-plan, composez soigneusement votre image avant d'appuyer sur le déclencheur.
● Lors d'une prise de vue en gros-plan dans un endroit sombre où fonctionne le flash automatique, le sujet risque d'être trop éclairé par le flash. Dans ce cas, placez l'appareil à 0.5 m au moins du sujet.
● Si le sujet à prendre en gros-plan est très sombre, la mise au point est parfois difficile. Dans ce cas, éclairez temporairement le sujet par une lampe pour faciliter la mise au point de l'appareil. En mode gros-plan, la mise au point est difficile sur les sujets suivants:
   · Objets peu contrastés (ciel, mur blanc, capot de voiture, etc.)
   · Objets sans saillies et à lignes horizontales
   · Objets en mouvement rapide
   · Objets et endroits sombres
   · Objets en contre-jour ou objets réfléchissants
   · Objets à lumière instable, comme une lampe fluorescente.
Pour photographier de tels objets, utilisez le verrouillage de mise au point avant de déclencher.

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Self-timer photography/Close-up (continued)
    Photographie à Retardateur/Gros-plan (suite)
        Selbstauslöser-/Nahaufnahmen (Fortsetzung)

ENGLISH

Photographing with focus lock

※ Make sure that the 🌼 mark is bright.
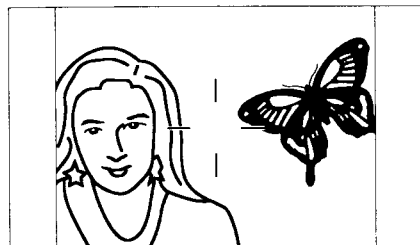
1. Aim at the camera subject with the auto-focus frame and then lightly press the shutter release button. The green lamp goes on to indicate that the focus is locked at the aimed point.
    *If the shutter release button is released from pressure of finger, focus-lock is canceled and the camera is ready for next focus lock operation.

2. While pressing the shutter release button lightly, confirm the composition of picture first and then gently press the shutter release button furthermore to actuate the shutter.

<figure> 1 Auto-focus frame

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Normal playback/Double magnified playback
Lecture normale/Lecture à double zoom
Normale Bildwiedergabe/Doppelt vergrößerte Wiedergabe

●Close the lens barrier and confirm that a CF ca
which picture data is recorded on is set in the ca
era and the camera is turned on with power of b
teries or an AC adaptor.

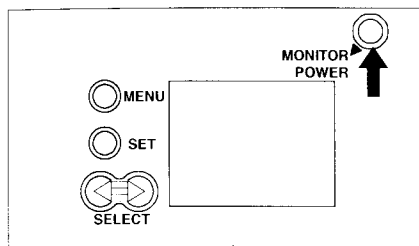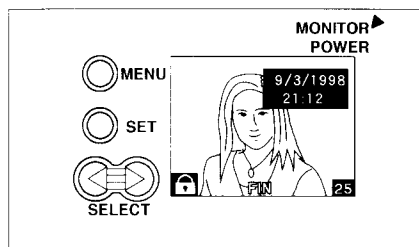1. Press the monitor power switch and the LCD mo
itor will be turned on.

2. The picture taken last with the CF card appears
the LCD monitor screen. Data on the picture su
as the date* when the picture was taken, fra
protection information (key mark), image qual
mode and frame number of the picture are sho
on the screen together with the picture.
Symbols of image quality modes are as follows.
· SFI = SUPER FINE
· FIN = FINE
· ECM = ECONOMY
*The date is shown for 1 second only.

3. If the SELECT button ("<" or ">") is press
the picture appearing on the screen is changed
the next or preceding one.
*When the SELECT button ("<" or ">")
pressed, the first picture appears following the l
picture or the last picture appears ahead of the fi
picture.
*To turn off the LCD monitor, press the moni
power switch once again.

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Normal playback/Double magnified playback (continued)
Lecture normale/Lecture à double zoom (suite)
Normale Bildwiedergabe/Doppelt vergrößerte Wiedergabe (Fortsetzung)
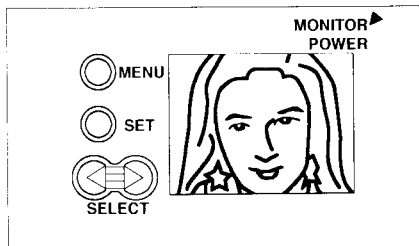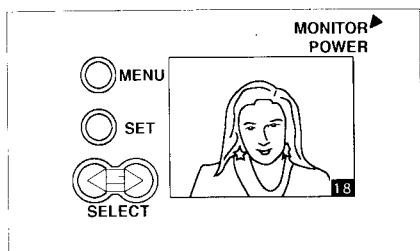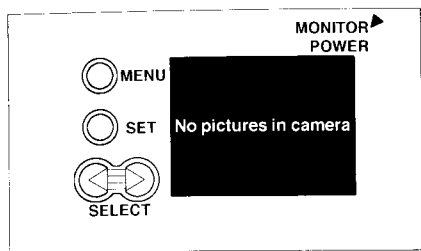
ENGLISH

⚠ When no CF card is set in the camera or a CF card on which no picture data is recorded is set in the camera, a message "No pictures in camera" appears on the monitor screen. In this case, no picture is shown on the screen.

Double magnified playback

When the SET button is pressed in the condition that a picture is being played back on the LCD monitor, the picture is magnified double in its center part.
If the SET button is pressed again, the magnified playback is canceled and the picture is played back normally.
*Pictures taken in the ECONOMY image quality mode or in the 4-frame continuous shooting mode cannot be magnified.

⊘ Be careful not to touch the shutter release button or not to open the lens barrier during playback, because it may cause malfunction of the camera.

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Adjusting brightness of LCD monitor
Réglage de la luminosité de l'écran LCD
Helligkeitsregelung des LCD-Monitors

ENGLISH

● Before adjustment of brightness of LCD mo
close the lens barrier and confirm that a CF
which picture data is recorded on is set in the
era and the camera is turned on with power
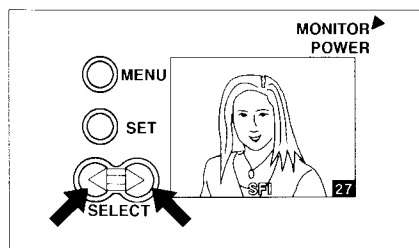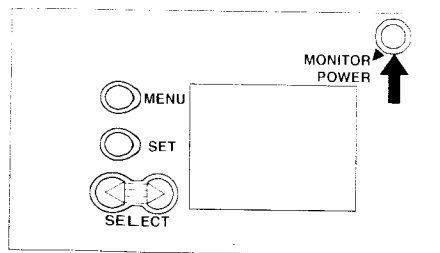plied from batteries or an AC adaptor.

1. Press the monitor power switch to turn on the
monitor.
When no CF card is set in the camera or a CF
on which no picture data is recorded is set i
camera, a message "No pictures" in cam
appears on the monitor screen.
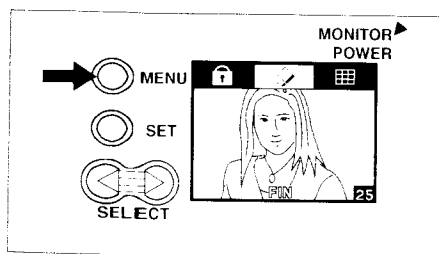
2. Press the MENU button once. The "Erase" ic
reversely shown on the screen.
* If the MENU button is pressed again in this st
the last operation is canceled and the display o
previous step 1 appears again.
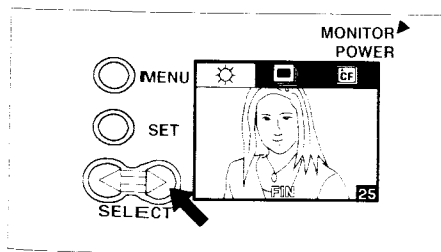
3. Press the SELECT button ( ) twice.
The "Brightness adjustment" icon rever
appears on the screen (Brightness adjustm
menu).
* When the SELECT button ( ) is pressed se
times, the same display appears on the scree
you fail in accessing the "Brightness adjustm
menu, press the SELECT button (or) rep
edly until you access the menu.
If the MENU button is pressed in this status,
previous operation is canceled and the display
the LCD monitor is changed for that of the pr
ous step 1.
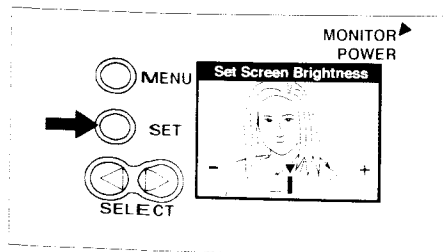
4. Press the SET button. The camera enters the L
monitor brightness adjustment mode.
The cursor in the center indicates the stand
level.

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Adjusting brightness of LCD monitor (continued)
Réglage de la luminosité de l'écran LCD (suite)
Helligkeitsregelung des LCD-Monitors (Fortsetzung)
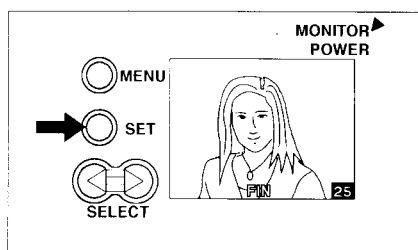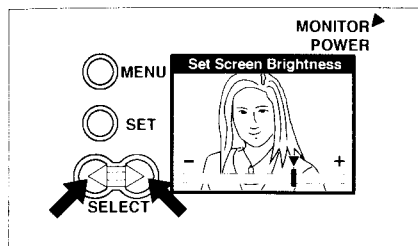
5. If the SELECT button ▷ is pressed, the cursor moves rightwards (to "+" side) and the screen becomes brighter.
   If the SELECT button ◁ is pressed, the cursor moves leftwards (to "-" side) and the screen becomes darker.
   ● Press the SELECT button (◁ or ▷) to adjust the brightness of the LCD monitor as desired.
   *If the MENU button is pressed in this stage, the previous adjustment is canceled and the brightness is reset to the level saved last. At the same time, the display is changed for that of the previous step 3.

6. If the SET button is pressed after brightness adjustment, the last setting of the brightness is saved and the display is changed for that of the previous step 1.
   *The saved data on brightness adjustment will be maintained regardless of operation of the lens barrier and monitor power switch unless it is replaced with new data.

※ Brightness of the LCD monitor can be adjusted in the preview mode, too. If it is desired, select the "Brightness adjustment" icon referring to page 80.

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Playback with TV set
Reproduction des images sur un téléviseur
Bildwiedergabe auf einem Fernsehgerät

ENGLISH
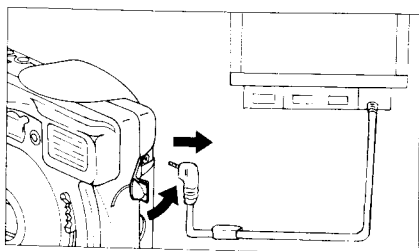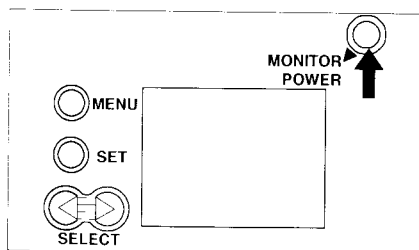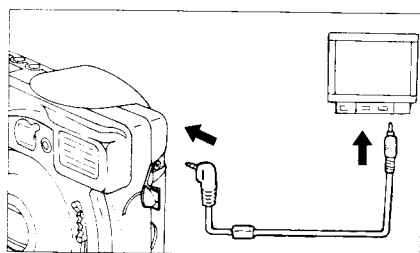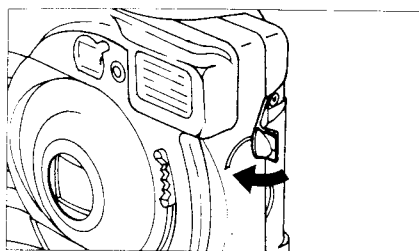
● You can look at pictures on a TV screen. Howe
   pictures that can be seen with a TV set are lim
   to playback pictures only and preview pictures
   not be seen on a TV screen.
● Close the lens barrier first and confirm that a
   card on which picture data is recorded and the c
   era is turned on with power supplied from batte
   or an AC adaptor.
● When a TV set is used to play back pictures,
   LCD monitor cannot be used to play back pict
   at the same time.

1. Open the video port cover.

2. Connect the video output cord (supplied with
   camera) to the camera's video port and the vi
   input terminal of a TV set.
   After connection between the camera and a TV
   is complete, turn on the TV set and set the in
   source selector of the TV set to "VIDEO".

3. Press the monitor power switch, and the last fra
   recorded on the CF card is played back on the
   screen.
   *When no CF card is set in the camera or a CF c
   on which no picture data is recorded is set in
   camera, a message "No pictures in camer
   appears on the monitor screen.
   When a valid CF card is set in the camera, use
   SELECT button to select desired frames.

4. To discontinue playback with a TV set, disconn
   the video output cord from the video port of t
   camera. The picture will appear on the LCD mo
   tor.
   After disconnecting the video output cord, be s
   to close the video port cover and turn off the TV s

   *Read the instructions of the apparatus to be co
   nected with this camera together.

   *When the Q-M100 is connected with a video app
   ratus by the through -connection video input ter
   nal, make sure that nothing is connected to t
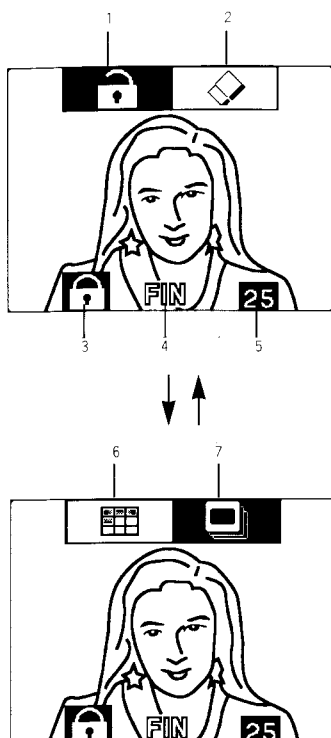   same video input terminal except the Q-M100.

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Playback with TV set (continued)
 Reproduction des images sur un téléviseur (suite)
  Bildwiedergabe auf einem Fernsehgerät (Fortsetzung)

ENGLISH

Getting icons to appear on TV screen

1 Setting of frame protection
2 Erase
3 Information on Frame protection
4 Image quality mode
5 Frame number
6 Index playback
7 Slide show
※ Select a desired icon with the SELECT button.

● In the condition that a TV set is used to play back pictures, available functions are limited to those mentioned below.

When a picture is played back with a TV set, data and time when the picture was taken don't appear on the screen.

Only four icons that respectively represent "Setting of frame protection", "Erase", "Index playback" and "Slide show" functions can be shown on a TV screen, and two of them can be shown on the screen at a time.

For selecting other functions, disconnect the TV set and select a desired function with the picture appearing on the LCD monitor.

For details of respective functions, refer to explanation of "Applied operation" (on and after page 78).

◌ Don't connect/disconnect video output cord to/from the video port during setting operation, otherwise previous setting is canceled.

◌ Don't connect/disconnect the video output cord while the card access warning lamp is on, otherwise the CF card or stored data may be damaged.

● Picture can be double zoomed-in on a TV screen.

● If the video output cord is connected/disconnected to/from the video port during index playback, the picture that is selected at that time appears without the frame number on the display (LCD monitor or TV set) switched on by connection/disconnection of the video output cord, and the index playback is automatically canceled at the same time.

● When the video output cord is connected/disconnected to/from the video port during index playback, it takes a considerably long time to switch the display to show the picture.

● If the video output cord is connected/disconnected to/from the video port during slide show operation, the picture that is selected at that time appears without the frame number on the display (LCD monitor or TV set) switched on by connection/disconnection of the video output cord, and the slide show is automatically canceled at the same time.

● Some TV sets show playback picture in a frame.

Use of preview function
Utilisation de la fonction Prévisionnage
Verwendung der Vorbetrachtungsfunktion

ENGLISH

● The preview function helps you to take well-composed pictures.
● Open the lens barrier and confirm that the camera is turned on with power supplied from batteries or an AC adaptor.
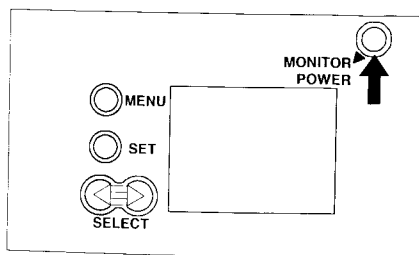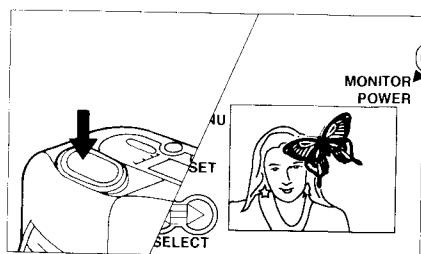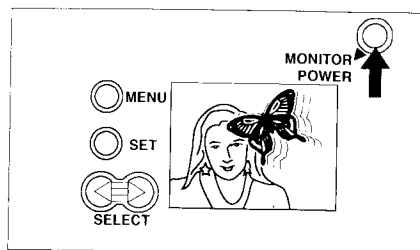
1. Press the monitor power switch to turn on the LCD monitor.
   The LCD monitor serves as a viewfinder and you can see the same image as the lens catches.
   This operation is called "through image display".

2. Press the shutter release button halfway, and the focus and exposure are locked.
   Press the shutter release button furthermore, and the shutter is opened to record the same image as shown on the LCD monitor.
   * The image to be recorded is shown through recording. With completion of recording, the monitor returns to the "through image display" status.

3. If the monitor power switch is pressed again, the LCD monitor is turned off and the camera status is restored to the normal shooting mode (→ p.46).
   * Since use of the LCD monitor considerably consumes the battery power, be careful to turn on/off the LCD monitor frequently or to use an AC adaptor. Therefore, it is recommended to use an AC adaptor for operating the LCD monitor.

Compensation of exposure
Correction de l'exposition
Belichtungsausgleich

●Open the lens barrier and confirm that the camera is turned on with power supplied from batteries or an AC adaptor.
●Exposure can manually be compensated in the range of ±2 in EV (Exposure Value).

1. Press the monitor power switch to turn on the LCD monitor. A "through image" appears on the LCD monitor.
   *When no CF card is set in the camera, "through image" appears on the LCD monitor.

2. Press the MENU button once. The "Exposure" icon reversely appears on the screen and the "through image" appearing on the screen becomes a still picture.
   *If the MENU button is pressed in this status, previous setting is canceled and the display of the LCD monitor returns to the status of the step 1.

3. Press the SET button. The exposure compensation menu bar appears in the lower part of the screen.
   *If the MENU button is pressed in this status, previous setting is canceled and the display of the LCD monitor returns to the status of the step 1.
   *If you want to adjust the brightness of the LCD monitor, select the "Brightness adjustment" icon appearing. For details of the adjustment, refer to page 70.

4. Each time the SELECT button (◁ or ▷) is pressed, the indicator bar moves step by step.
   When the SELECT button ◁ is continuously pressed, the indicator bar moves leftwards to decrease exposure time (under-exposure). When the SET button is pressed in this status, the "through image" is darkened.
   When the SELECT button ▷ is continuously pressed, the indicator bar moves rightwards to increase exposure time (over-exposure). When the SET button is pressed in this status, the "through image" is brightened.
   *If the MENU button is pressed in this status, previous setting is canceled and the display of the LCD monitor returns to the status of the step 2.
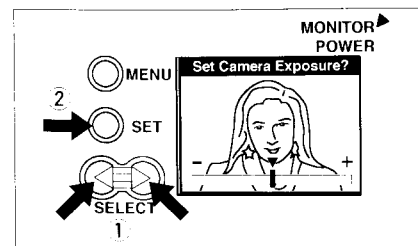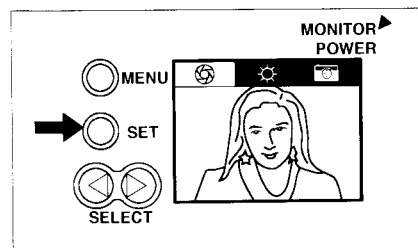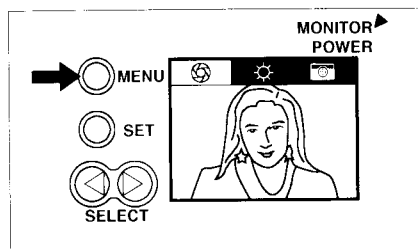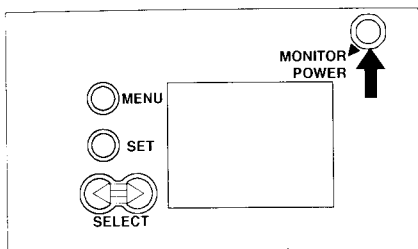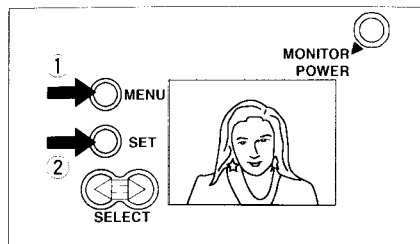
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Compensation of exposure (continued)
      Correction de l'exposition (suite)
            Belichtungsausgleich (Fortsetzung)

ENGLISH

5. If the exposure is not compensated as desired when the display is restored to the "through image" status, again press the MENU button and then press the SET button. The display returns to the status of the step 4, and you can try to compensate exposure once more.

   *When aiming at an object in a dark place, it is hard to recognize the effect of exposure compensation. In such a case, it is recommended to take pictures of the same object repeatedly with different exposure compensation, and play them back on a TV screen or a personal computer display to choose a favorite one.

● Setting of exposure compensation is maintained until the lens barrier is closed.
  When the lens barrier is opened again after it was once closed, the exposure is set at the initial status (indicator bar in the center position).
● In flash photography, it is difficult to compensate exposure as desired.
● When exposure is compensated for under-exposure, taken pictures are played back comparatively dark. Therefore, proper under-exposure compensation is useful to take pictures that emphasize the atmosphere of evening scenes.
● IWhen exposure is compensated for over-exposure, taken pictures are played back comparatively brightly. Therefore, proper over-exposure compensation brings good results in taking pictures against the light.

4-frame continuous shooting function/Digital 2x Zoom
4-Photographies en continu/Zoom électronique 2x utilisable
Serienschnappschußfunktion/Digitale Doppelzoom-Funktion

84

ENGLISH
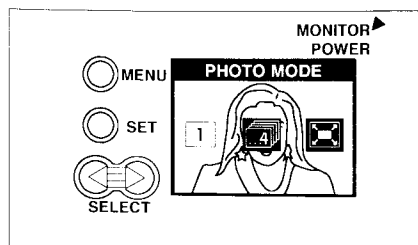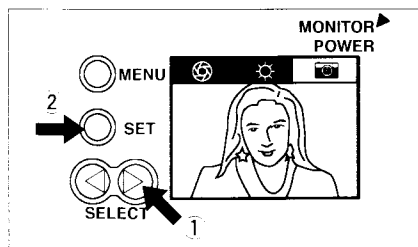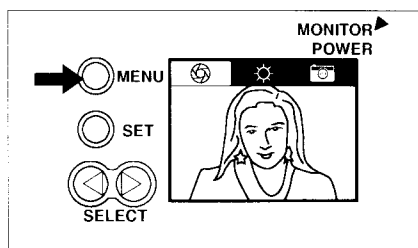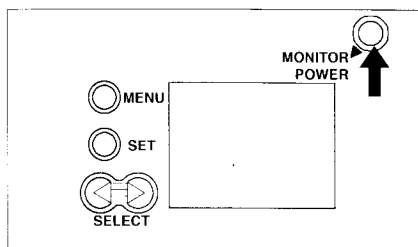
●The continuous shooting function snaps four consecutive scenes at a time and records them together in a frame. A frame of four pictures is composed of 576 × 436 pixels, and each of four pictures is composed of 288 × 218 pixels, namely a quarter of the frame. In the continuous shooting mode, the flash light cannot be used.
●The digital 2x zoom function magnifies the center part of a frame and records it as a picture. In other words, the center part composed of 576 × 436 pixels of a frame composed of 1152 × 872 pixels is magnified to a full-size picture. When the digital 2x zoom-in function is activated in the ECONOMY image quality mode, the picture is roughly played back because the resolution of the original full-size picture is 576 × 436 pixels.
●Confirm that the lens barrier is open and the camera is turned on with power supplied from batteries or an AC adaptor.

1. Press the monitor power switch to turn on the LCD monitor. A "through image" appears on the LCD monitor.
   *When no CF card is set in the camera, "through image" appears on the LCD monitor.

2. Press the MENU button once. The "Exposure" icon reversely appears on the screen.
   *If the MENU button is pressed in this status, previous setting is canceled and the display of the LCD monitor returns to the status of the step 1.
   *Select the "Brightness adjustment" icon to adjust the brightness of the LCD monitor. For details, refer to page 70.

3. Press the SELECT button ▷ twice to select the "PHOTO MODE" icon.
   *Or, press the SELECT button ◁ once for the same result.

   Next, press the SET button.

4. The "Normal shooting" icon is generally selected at this stage and the camera is accordingly set in the normal shooting mode.
   *If the MENU button is pressed, previous setting is canceled and the display of the LCD monitor returns to the status of the step 1.
   *If the camera has been set in the "Continuous shooting" or "Zoom-in" mode, the icon of selected mode appears on the screen.
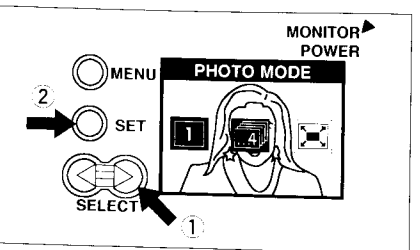
4-frame continuous shooting function/Digital 2x Zoom
4-Photographies en continu/Zoom électronique 2x utilisable
Serienschnappschußfunktion/Digitale Doppelzoom-Funktion
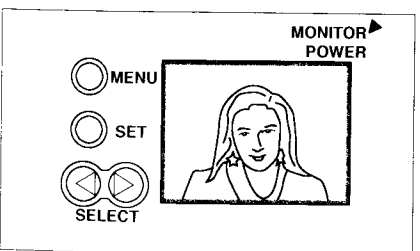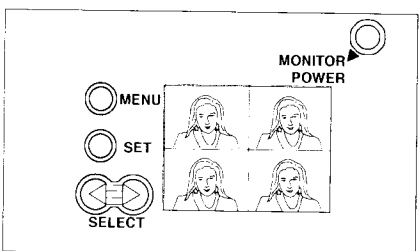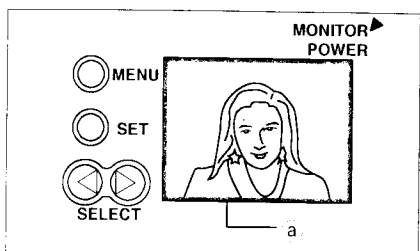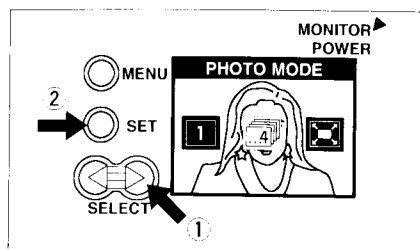
5. **For selecting "4-frame continuous sho ing" mode**
   To select the "4-frame continuous shooting" m
   select the "4-frame continuous shooting" icon v
   the SELECT button ("◁" or "▷") and then p
   the SET button.
   *If the MENU button is pressed for the SET bu
   by mistake, previous setting is canceled and
   display returns to the status of the step 1.
   *If you want to select the digital 2x zoom-in m
   at this stage, proceed to the step 9.

6. A blue frame ᵃ appears on the screen an
   "through image" appears in the frame.
   Since the blue frame represents the continu
   shooting mode, you can take continuous snaps
   of four scenes each in this condition.
   *In the continuous shooting mode, the flashligh
   inactivated. For shooting a dark object, it is rec
   mended to use a tripod or lighting apparatus.

7. If you start shooting in the continuous shooti
   mode, a shot is shown on the screen each time i
   taken. When the fourth shot is taken, a series of
   four shots are recorded on a CF card.
   *Pictures taken in the continuous shooting m
   cannot be magnified in playback.

8. When recording of a series of four shots is co
   plete, a "through image" in a blue frame appe
   on the screen.
   *In this status, the camera is still set in the contin
   ous snapshot mode. If you want to discontinue t
   continuous snapshot mode and to take a picture
   the normal shooting or zoom-in mode, repeat t
   above-mentioned steps 2 and 3 to select t
   "Normal shooting" or "Zoom-in" icon. After sel
   tion of a desired mode, press the SET button.

9. **For selecting "Digital 2x zoom" mode**
   For selecting the digital 2x zoom mode, repeat t
   steps 2 and 3 and select the "Zoom-in" icon wi
   the SELECT button ("◁" or "▷"). After selectio
   be sure to press the SET button.
   *If the MENU button is pressed for the SET butt
   by mistake, previous setting is canceled and t
   display returns to the status of the step 1.
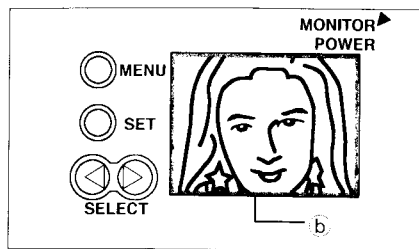
86

4-frame continuous shooting function/Digital 2x Zoom
4-Photographies en continu/Zoom électronique 2x utilisable
Serienschnappschußfunktion/Digitale Doppelzoom-Funktion

10. A red frame `b` appears on the screen and the double magnified center part of a "through image" is shown in the frame. This red frame represents the digital 2x zoom-in mode.
If a picture is taken in this mode, the magnified center part is recorded on a CF card by a resolution of 1152 × 872 pixels.
*In the ECONOMY image quality mode, the magnified center part is recorded by a resolution of 576 × 436 pixels.

When recording is complete, the LCD monitor again shows a "through image" in the red frame.
*In this status, the camera is still set in the digital 2x zoom mode. If you want to discontinue the digital 2x zoom mode and to take a picture in the normal shooting or continuous shooting mode, repeat the above-mentioned steps 2 and 3 to select the "Normal shooting" or "Continuous shooting" icon. After selection of a desired mode, press the SET button.
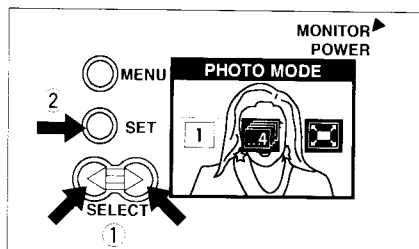
● To return to the normal shooting mode

To reset the camera to the normal shooting mode, carry out one of the following means.
1) Repeat the above-mentioned steps 2 and 3 to select the "Normal shooting" icon. After selecting it, press the SET button. (See the figure on the left.)
2) Press the monitor power switch to turn off the "through image" (to turn off the LCD monitor). Accordingly, the "continuous shooting" mode or "digital 2x zoom" mode is canceled. When the monitor power switch is pressed again, the camera is reset to the "normal shooting" mode.
3) Set the lens barrier switch to the "CLOSE" position, and the "continuous shooting" or "digital 2x zoom" mode is accordingly canceled. When the lens barrier switch is set at "OPEN" position, the camera is reset to the "normal shooting" mode. However, if the shooting mode is reset in this way, all settings of exposure compensation, flash mode and image quality mode are canceled at the same time and they are reset to their respective initial settings. When the automatic power off function is activated, the camera mode is reset to the initial status. When resetting the shooting mode, pay heed to this point.

88

Erasing recorded pictures in part or in whole
Effacement partiel ou total des images enregistrées
Löschen aller oder einzelner gespeicherter Bilder

ENGLISH

● First of all, confirm that the lens barrier is closed and the camera is turned on with power supplied from batteries or an AC adaptor.
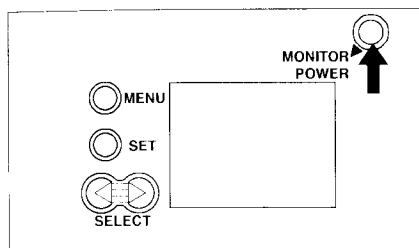
1. Press the monitor power switch to turn on the LCD monitor.
   * When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.
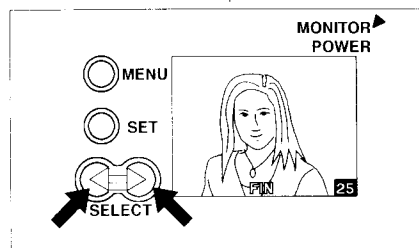
2. To erase recorded pictures one by one, select desired picture with the SELECT button (◁ or ▷).
   (To erase pictures recorded on the CF card in whole, proceed to the step 3.)
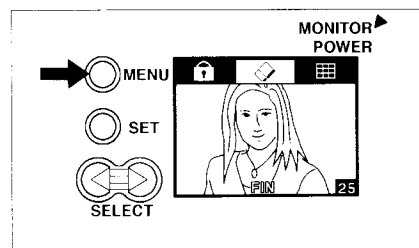
3. Press the MENU button once. The "Erase" icon reversely appears on the screen.
   * When no CF card is set in the camera or a CF card on which no picture is recorded is set inn the camera, a message "No pictures in camera" appears on the screen.
   * If the MENU button is pressed at this stage, previous setting is canceled and the display returns to the status of the step 1.
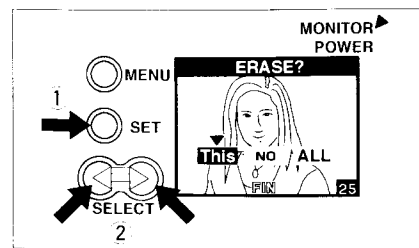
4. Press the SET button. Three erasing modes are shown on the screen.
   Press the SELECT button (◁ or ▷) to select "This", "NO" or "ALL".
   * If the MENU button is pressed at this stage, the display returns to the status of the step 3.
   * If the selected frame is protected against erasing, "This" cannot be selected but "NO" or "ALL" can be selected.
   To erase a protected frame, cancel the setting of frame protection (refer to page 98).
   If the SET button is pressed with selection of "NO", the display returns to the status of the step 1.

90

Erasing recorded pictures in part or in whole (continued)
Effacement partiel ou total des images enregistrées (suite)
### Löschen aller oder einzelner gespeicherter Bilder (Fortsetzung)
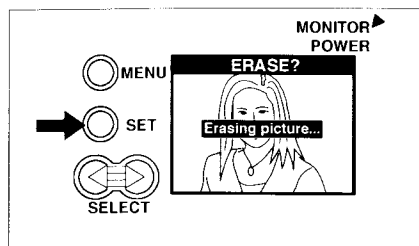
5. If the SET button is pressed with selection of "This", the frame selected in the step 2 is erased. When erasure of the selected frame is complete, the display returns to the status of the step 1.
   * If the MENU button is pressed for the SET button at this stage, the display returns to the status of the step 3.
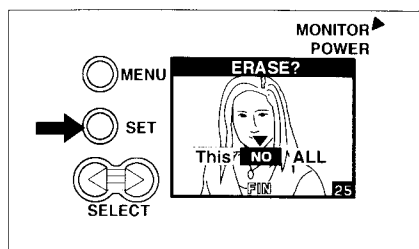
6. If the SET button or the MENU button is pressed with selection of "NO", the display returns to the status of the step 3.
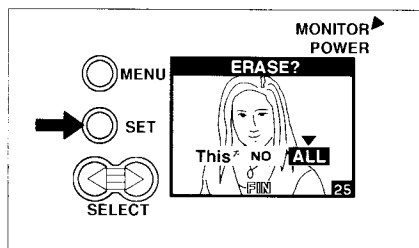
7. To erase all pictures recorded on the CF card set in the camera, select "ALL" and press the SET button. The display changes as shown on the left.
   * If the MENU button is pressed for the SET button at this stage, the display returns to the status of the step 3. Frames that are protected against erasing cannot be erased. (Refer to page 96 for frame protection.)
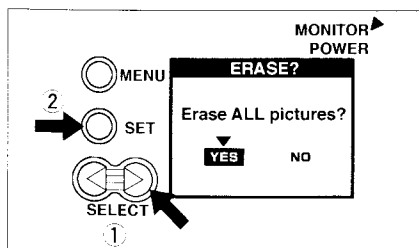
8. In case of the status shown by the left figure. "NO" is selected. Select "YES" and press the SET button to erase all the frames, or press the SET button as "NO" is selected if you don't want to erase all the frames.
   * If the MENU button is pressed, previous setting is canceled and the display returns to the status of the step 3.

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Erasing recorded pictures in part or in whole (continued)
**Effacement partiel ou total des images enregistrées (suite)**
Löschen von gespeicherten Bildern oder Bildabschnitten (Fortsetzung)

ENGLISH
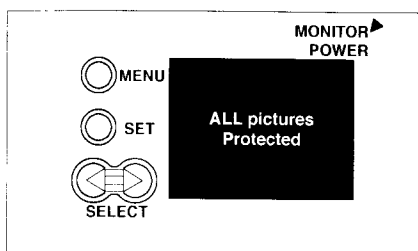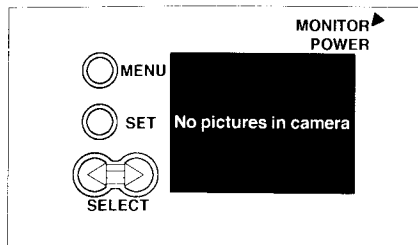
9. If there is a protected frame on the CF card, a message "No pictures in camera" appears on the screen after the erasing operation is complete.

    At that time, a frame that was taken last among protected frames is shown on the screen. After protected frame is shown on the screen, the display returns to the status of the step 1.

    * To erase a protected frame, cancel the setting frame protection. (→ p.98)

    * If all frames recorded on a CF card is protected against erasing, a message "All pictures protected" appears on the screen. In such the case, erasing operation results in failure and the display returns to the status of the step 1. To erase protected frames, cancel the setting of frame protection. (→ p.98)

94

To protect important pictures against erasing (Setting of frame protection)
Protection d'images importantes (Réglage de protection)
Schutz wichtiger Aufnahmen gegen Löschen (Bildschutzeinstellun

● Important pictures can be protected from careless erasure by setting of the frame protection.
● Before starting setting, confirm that the lens barrier is closed and the camera is turned on with power supplied from batteries or an AC adaptor.
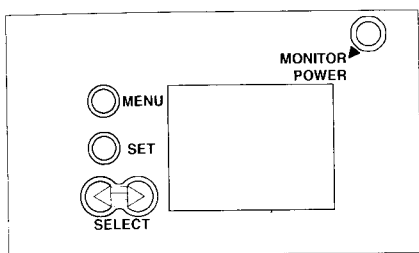
1. Press the monitor power switch to turn on the LCD monitor.
   Select a picture desired to protect against careless erasure or to cancel its erasure protection by pressing the SELECT button (◁ or ▷).
   *When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.

2. Press the MENU button once, and the "Erase" icon reversely appears on the screen.
   *When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.
   *If the MENU button is pressed at this stage, previous setting is canceled and the display returns to the status of the step 1.
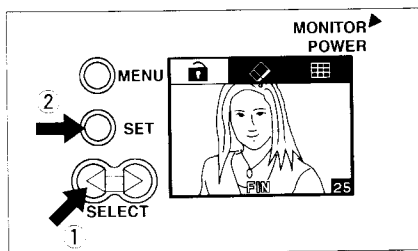
3. Press the SELECT button ◁ once to select the "Setting of frame protection" icon, and then press the SET button.
   When the selected frame (picture) is not protected, 🔒 is shown reversely. (3A)

(3 A)
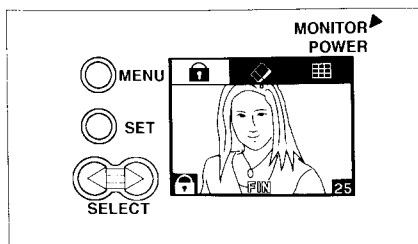
When the selected frame has been protected, 🔒 is shown reversely. (3B)

(3 B)

96

To protect important pictures against erasing (Setting of frame protection) (continued)
    Protection d'images importantes (Réglage de protection) (suite)
        Schutz wichtiger Aufnahmen gegen Löschen (Bildschutzeinstellung) (Fortsetzung)

(4A)

(4B)

ENGLISH
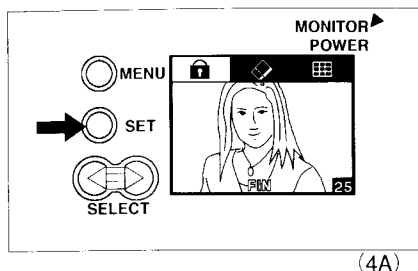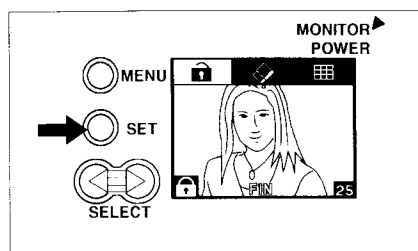
4. To protect a selected frame:
  With the display of the figure 3A, press the SET button. The selected frame is protected against erasing and the display returns to the status of the step 1.
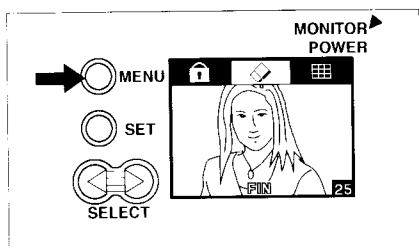 If the MENU button is pressed for the SET button, the display returns to the status of the step 1 without setting of erasure protection for the selected frame.

To cancel erasure protection of a selected frame:
  With the display of the figure 3B, press the SET button. The selected picture is released from erasure protection and the display returns to the status of the step 1.
  If the MENU button is pressed for the SET button, the display returns to the status of the step 1 without canceling the erasure protection of the frame.

● Be careful not to change any attribute of a picture file that has been protected against erasure with personal computer, because the camera may fail in reading a file if its attribute is changed with a personal computer.

98

Looking at multiple pictures at a time (Index playback)
Lecture simultanée de plusieurs images (Lecture à index)
Gleichzeitige Betrachtung mehrerer Bilder (Indexwiedergabe)

● Before starting setting, confirm that the lens barrier is closed and the camera is turned on with power supplied from batteries or an AC adaptor.

1. Press the monitor power switch to turn on the LCD monitor.
   * When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.
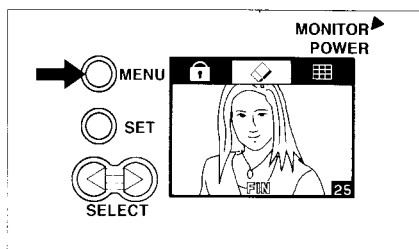
2. Press the MENU button once, and the "Erase" icon reversely appears on the screen.
   * When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.
   * If the MENU button is pressed at this stage, previous setting is canceled and the display returns to the status of the step 1.

3. Press the SELECT button once. After confirming that the "Index playback" icon reversely appears on the screen, press the SET button.
   * If you fail in selecting the "Index playback" icon, continue to press the SELECT button until the "Index playback" icon appears on the screen.
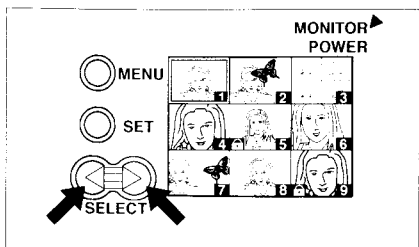
4. The display turns into the index playback menu.
   If the SELECT button (or) is continuously pressed, the cursor (indication box) moves on frames one after another. When the cursor passes the last frame, the nine frames appearing on the screen are replaced by the next nine frames, if there are.
   * If the SET button is pressed in this condition, only a selected frame is shown on the screen (display status of the step 1.).
   * If the MENU button is pressed for the SET button, the display returns to the status of the step 3.

※ If a picture is recorded in the SUPER FINE image quality mode, it takes a considerably long time to show the picture on the screen in the index playback mode.

100

Slide show playback
Lecture successive
Diavorführung-Wiedergabe
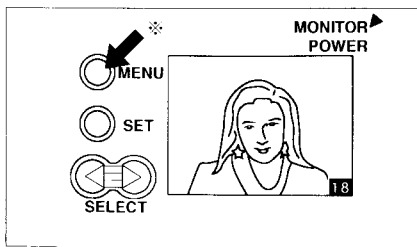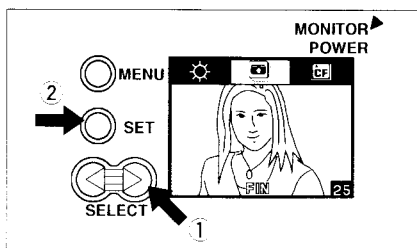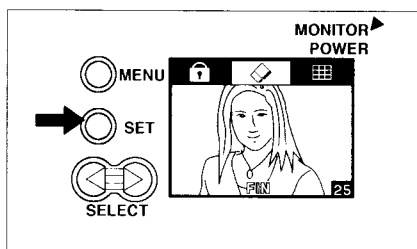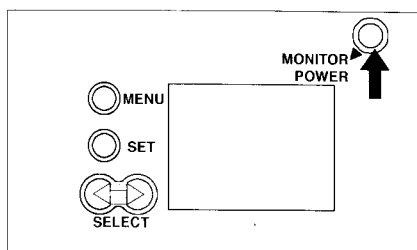
● In the slide show playback mode, recorded pictures can be seen one by one from the first frame.
● Before starting operation of the slide show playback, confirm that the lens barrier is closed and the camera is turned on with power supplied from batteries or an AC adaptor.

1. Press the monitor power switch to turn on the LCD monitor.
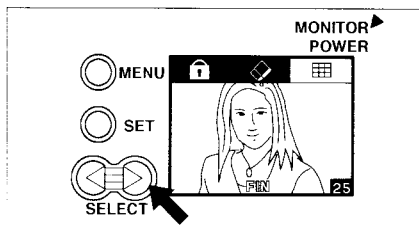   * When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.

2. Press the MENU button once, and the "Erase" icon reversely appears on the screen.
   * When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.
   * If the MENU button is pressed at this stage, previous setting is canceled and the display returns to the status of the step 1.

3. Press the SELECT button ▷ three times. The "Slide show playback" icon reversely appears on the screen.
   Press the SET button to start slide show playback. Recorded pictures are played back one by one for 3 seconds each.
   * If the MENU button is pressed at this stage, the display returns to the status of the step 1.
   * If a picture is recorded in the SUPER FINE image quality mode, it takes a considerably long time to get the picture appearing on the screen as compared with other image quality mode.

4. After the last picture is shown on the screen, the display returns to the status of the step 3.
   * If the SET button is pressed at this stage, slide show playback starts again with the CF card set in the camera.
   * When pictures are shown on the camera's LCD monitor screen in the slide show playback mode, respective frame numbers of the pictures are also shown on the screen. However, when a TV set is used to play back pictures in the slide show playback mode, pictures are shown without frame numbers.

※ To quit the slide show playback mode
Press the MENU button in the slide show playback mode. The slide show playback mode is canceled and the camera mode is reset to the status of the step 1.

102

Formatting (initializing) CF card
Formatage d'une carte CF
Formatieren (initialisieren) einer CF-Karte

● First of all, confirm that the lens barrier is closed and the camera is turned on with power supplied from batteries or an AC adaptor.
● When formatting (initializing) a used CF card, mind that all recorded pictures are erased by formatting if pictures are protected from erasing.
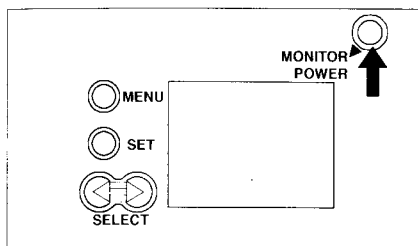
1. Press the monitor power switch to turn on the LCD monitor.
   * When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.
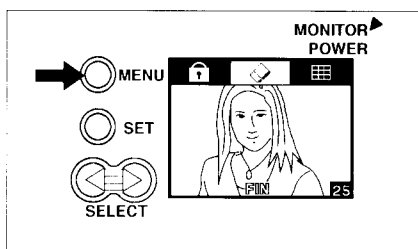
2. Press the MENU button once, and the "Erase" icon reversely appears on the screen.
   * When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.
   * If the MENU button is pressed at this stage, previous setting is canceled and the display returns to the status of the step 1.
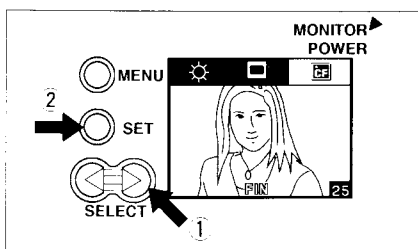
3. Press the SELECT button ▷ four times. While confirming that the "Format" icon reversely appears on the screen, press the SET button.
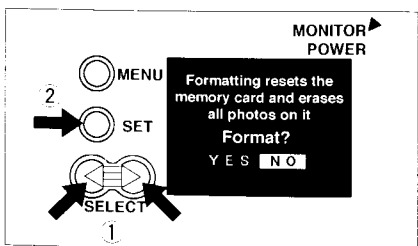
4. To execute formatting of the CF card, select "YES" by pressing the SELECT button (◁ or ▷). Then, press the SET button to start formatting the CF card.
   * If the SET button is pressed with selection of "NO", formatting mode is canceled and the display returns to the status of the step 1.
   * When formatting is complete, a message "No pictures in camera" appears on the screen.

104

Switching from NTSC TV system to PAL TV system
Permutation entre les systèmes de télévision NTSC et PAL
Umschalten von der Fernsehnorm NTSC auf PAL

● For playback with a TV set, this camera is initially set for the NTSC TV system on shipment. For playing back pictures with a TV set in the area of the PAL TV system, the camera needs to switch the initial setting for the NTSC TV system to the PAL TV system.

● Make sure that effective power is supplied to the camera from the batteries or an AC adapter and the lens barrier is closed.
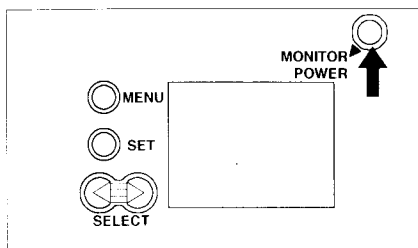
1. Press the MONITOR POWER switch to turn on the LCD monitor.
   * When no CF card is set in the camera or nothing is recorded on a CF card set in the camera, a message "No pictures in camera" appears on the display.
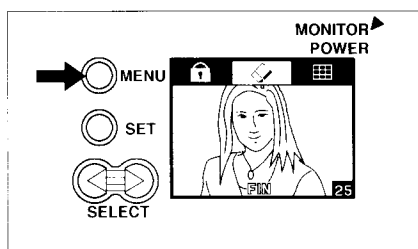
2. Press the MENU button once. A scene which shows the "Erase" icon reversely appears on the screen.
   * When no CF card is set in the camera or nothing is recorded on a CF card set in the camera, a message "No pictures in camera" appears on the display.
   * If the MENU button is pressed in this stage, previous setting is canceled and the scene is shifted to that of the step 1.
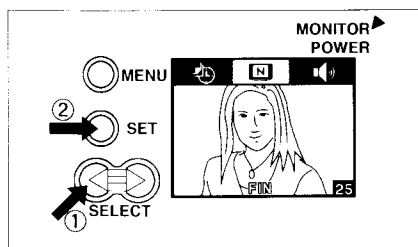
3. Press the SELECT ⟨ button three times. The "N" icon reversely appears on the screen since the camera is set for the NTSC TV system. Press the SET button once and the "N" icon changes to the "P" icon, which indicates that the camera is set for the PAL TV system.
   If the MENU button is pressed in this stage, the scene is shifted to that of the step 1.
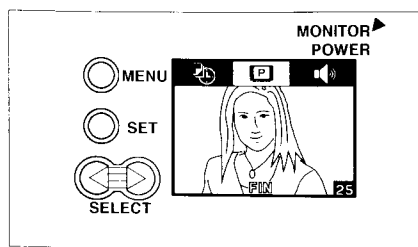
※ For switching the setting from the NTSC TV system to the PAL TV system, perform the same operation as the steps from 1 through 3. In this case, the "P" icon appearing in the step 3 is reversely shown because the camera is set for the PAL TV system.

Switching from NTSC TV system to PAL TV system (continued)
Permutation entre les systèmes de télévision NTSC et PAL (suite)
Umschalen von der Fornsehnorm NTSC auf PAL (Fortsetzung)

ENGLISH

TV systems in main countries

· A TV set or video monitor having a video input connector of either NTSC or PAL TV system can be used for playing back pictures taken by the camera.
· For connecting the camera with such a TV set or video monitor, a VIDEO OUTPUT cord supplied with the camera is necessary.
· On shipment, this camera is set for the NTSC TV system for playback of pictures with a TV set of the PAL TV system (in the PAL TV area), switch the setting of the video output of the camera to the PAL TV system.
· Pictures cannot be played back with a TV set of the SECAM TV system (in the SECAM TV area).

[For reference]

■ For playback in the area of PAL TV system

Change the camera's playback output setting for a TV set referring to page 106 of the instructions of the camera.
• West European countries except France
• China   • Australia   • New Zealand
• Singapore   • Brazil   • Malaysia, etc.

■ For playback in the area of NTSC TV system

The camera need not change the setting for playing back pictures with a TV set.
• U. S. A.   • Korea   • Canada
• Taiwan   • Cuba   • Chile
• Guam   • Mexico   • Japan. etc.

■ In the area of SECAM TV system

In the area of SECAM TV system (France, Russia, etc.), pictures taken by the camera cannot be played back with a TV set.

* Even in the SECAM TV system area, pictures can be played back on a TV screen if a TV set that is compatible with the PAL TV system is available. On such an occasion, set the camera's playback output for the PAL TV system.

NOTE: For the TV broadcasting system of the area. inquire at an electric appliance store.

FRANÇAIS

Système de télévision selon les principaux pays

· Un téléviseur ou un moniteur vidéo, doté d'un connecteur d'entrée vidéo pour le système NTSC ou PAL, peut servir pour la lecture des images prises par l'appareil.
· Pour raccorder l'appareil à un moniteur vidéo ou un téléviseur de ce genre, le cordon de sortie vidéo fourni avec l'appareil est nécessaire.
· A sa livraison, cet appareil est réglé en vue du système de télévision NTSC. Pour une lecture d'images sur un téléviseur du système PAL (dans une région PAL), ajustez le réglage de la sortie vidéo de l'appareil au système de télévision PAL.
· La lecture d'images prises par l'appareil n'est pas possible sur un téléviseur du système de télévision SECAM (dans une région SECAM).

[Pour référence]

■ Pour une lecture dans une région utilisant le système de tétévision PAL

Changez le réglage de sortie de lecture de l'appareil en fonction du tétéviseur en vous référant à la page 107 du mode d'emploi de l'appareil.
• Pays d' Europe de l' Ouest sauf France
• Chine   • Australie   • Nouvelle Zélande
• Singapour   • Brésil   • Malaisie, etc.

■ Pour une lecture dans une région utilisant le systéme de télévision NTSC

Il n'est pas nécessaire de changer le réglage de l'appareil pour lecture des images sur un tétéviseur.
• Etats-Unis   • Corée   • Canada
• Taiwan   • Cuba   • Chili
• Guam   • Mexique   • Japon

■ Dans une région utilisant le système de télévision SECAM

Dans une région où le système SECAM est en vigueur (France. Russie, etc.), il n'est pas possible de restituer sur un téléviseur les images prise par l'appareil photo.

* Même dans une région du système de télévision SECAM. les images peuvent être reproduites sur un écran de télévision si vous disposez d'un téléviseur compatible avec le système de télévision PAL. Dans ce cas, réglez la sortie de lecture de l'appareil photo pour le système PAL.

REMARQUE : Pour connaître le système de télévision utilisé dans sa région, prière de se renseigner dans un magasin d'appareils électriques.

Setting buzzer inactive
   Mise hors service de l'avertisseur
      Ausschalten der Tonsignalfunktion

ENGLISH

●Confirm that the lens barrier is closed and the camera is turned on with power supplied from batteries or an AC adaptor.

1. Press the monitor power switch to turn on the LCD monitor.
   *When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.

2. Press the MENU button once, and the "Erase" icon reversely appears on the screen.
   *When no CF card is set in the camera or a CF card on which no picture is recorded is set in the camera, a message "No pictures in camera" appears on the screen.
   *If the MENU button is pressed at this stage, previous setting is canceled and the display returns to the status of the step 1.

3. Press the SELECT button < twice. The "Buzzer ON" icon appears on the screen.
   Press the SET button to set the buzzer inactive (the "Buzzer OFF" icon replaces the "Buzzer ON" icon). At the same time, the display returns to the status of the step 1.
   If the MENU button is pressed at this stage, the display returns to the status of the step 1 without change of the buzzer setting.

*When the buzzer icon appears as 🔀 in the figure of the step 3, the buzzer has already been set inactive (OFF). In such the case, press the SET button to set the buzzer active (the "Buzzer ON" icon replaces the "Buzzer OFF" icon).
   If the MENU button is pressed at this stage, the display returns to the status of the step 1 without change of the buzzer setting.

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Explanation of "Auto white balance"
A propos de la "Balance automatique du blanc"
"Automatischer Weißabgleich"

What is white balance?

Human eyes have such an adaptability as they recognize the color of an white object as white even when the color of lighting changes.
This digital still camera senses color temperature of the light source and adjust the white balance according to the sort of the light source so that a white object can be reproduced as white as possible. However, the camera frequently fail in sensing the color temperature when the scene is colored almost in monotone.

Cases difficult to adjust white balance:
· Close-up photography of monotone flower.
· Object thoroughly lighted up by color lighting such as the evening sun, stage lights, etc.

In such a case, take pictures and make sure of recording results with the preview function (→ p.78) while checking the composition and coloring. White balance of a picture can be checked on the LCD monitor screen, therefore, compose a picture so that it has a variety of colors and you obtain a satisfactory result in white balance of the picture.

※Image seen on the LCD monitor screen in the preview mode cannot be transferred as video output to a personal computer to see it on its display.
※Since the battery power is considerably consumed in the preview mode, it is recommended to use an AC adaptor to see image in the preview mode.

It is also recommended to set the flash to the forced flash mode, because white balance is automatically adjusted in accordance with the characteristic of the flashlight.

Qu'est-ce que la balance du blanc?

L'œil humain a la faculté de pouvoir reconnaître comme blanc un objet blanc même si l'on change la couleur de l'éclairage.
Cet appareil photo numérique capte la température de couleur de la source de lumière et il ajuste la balance du blanc en fonction du type de source lumineuse de sorte qu'un objet blanc puisse être reproduit aussi blanc que possible. Cependant l'appareil ne parvient plus à distinguer la température de couleur si la scène est presque monochrome.

Cas où le réglage de balance du blanc est difficiles:
· Prise de vue en gros-plan d'une fleur monochrome
· Objet largement éclairé par une lumière colorée, comme le soleil couchant, des projecteurs de théâtre, etc.

Dans de tels cas, effectuez la prise de vue et vérifiez les résultats par la fonction de prévisionnage (→ p.79) en examinant la composition et les couleurs. La balance du blanc d'une image peut se vérifier aussi sur l'écran LCD. Par conséquent, composez une image de sorte qu'elle ait diverses couleurs afin d'obtenir des résultats satisfaisants lors du réglage de la balance du blanc.

※Une image obtenue sur l'écran LCD en mode prévisionnage ne peut pas être transférée comme sortie vidéo vers un ordinateur personnel de manière à l'afficher sur son écran.
※Comme le mode prévisionnage consomme beaucoup de courant des piles, il est conseillé d'utiliser l'adaptateur secteur dans ce cas.

Il est conseillé également de régler le flash en mode "Flash obligatoire" car la balance du blanc est automatiquement ajustée en fonction des caractéristiques du flash.

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Connecting camera with personal computer
Branchement à un ordinateur personnel
Anschluß der Kamera an einen PC

ENGLISH

● For the working environment of a personal computer, refer to the installation manual.
● Install the required software in your personal computer. Before starting operation with the installed software, be sure to read the instructions "Readme" supplied with the software.
● Confirm that the lens barrier is closed, a recorded CF card is set in the camera and the camera is turned on with power supplied from batteries or an AC adaptor.
● To save the battery power, it is recommended to use an optional AC adaptor as a power source for the camera.
● Turn off the personal computer without fail.
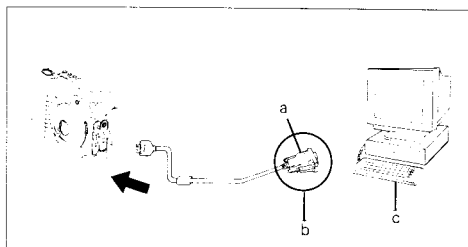
1. Open the camera's I/O terminal cover and connect the camera and a personal computer with each other by means of the connecting cord.
   * Plug the 8-pin connector of the connecting cord into the camera's serial port jack. To disconnect the connecting cord from the camera's serial port, refer to the instruction manual for Q-M100.
   a To Serial port of personal computer.
   b Since the type of personal computer's connector differs from personal computer to personal computer, carefully read the installation manual and use a proper connector or adaptor for connecting the cord.
   c Personal computer (optional)

2. Open the camera's lens barrier and turn on the personal computer.
   When the lens barrier is opened, "PC" appears on the camera's data display panel.
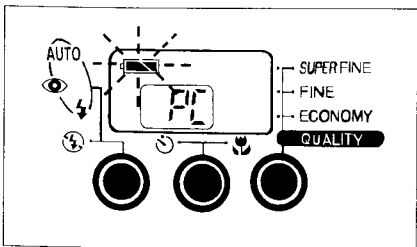
3. When batteries are used as the power source, the battery mark continues blinking while the camera is being on.
   * It is recommended to use an AC adaptor to supply power to the camera because battery power is considerably consumed when the camera is connected with a personal computer.

Connecting camera with personal computer (continued)
Branchement à un ordinateur personnel (suite)
Anschluß der Kamera an einen PC (Fortsetzung)

ENGLISH

Directly reading/writing data saved on CF card with personal computer

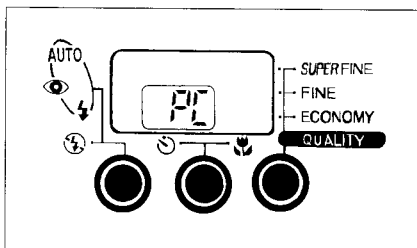●If a CF card adaptor (available on the market) is used, data saved on a CF card can directly be read or rewritten with a personal computer, because a CF card adaptor deals with a CF card as an ATA card conforming to the PCMCIA TYPE II standard.
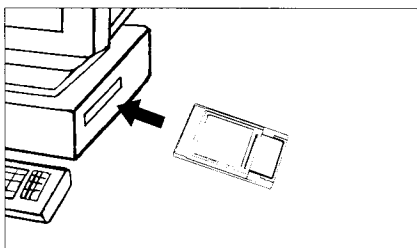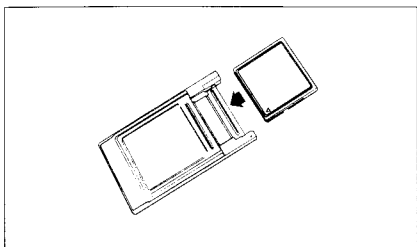
1. Set a CF card taken out of the camera into a CF card adaptor.

2. Set a CF card adaptor in the slot of a personal computer which is capable of reading ATA card and has a slot designed to accept an ATA card conforming to the PCMCIA TYPE II standard.
   *For details of the setting, refer to the instructions of the personal computer to be used.
   *There is a case that a personal computer requires to install an exclusive software, to register the software, to reset the personal computer itself, and so on depending on the operating environment. Therefore, it is advised to read the instructions of the personal computer and the operating system carefully.

3. Open the picture file by the application software supporting the Exif (JPEG).
   In the directory whose name is led by IM, there are picture files named:
   DSC00001.JPG,
   DSC00002.JPG,
   DSC00003.JPG,
   and so on.

※File names that the camera can deal with are from DSC00001.JPG to DSC32767.JPG. On the other hand, file names such as DSC32768.JPG to DSC99999.JPG, and DSC00000.JPG cannot be dealt with by the camera.

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Connecting camera with personal computer (continued)
Branchement à un ordinateur personnel (suite)
Anschluß der Kamera an einen PC (Fortsetzung)

ENGLISH

Important notes:

· Picture file can be erased or copied down onto another memory unit such as a hard disc. etc. as the need arises. For details, refer to the instructions of the operating system of the personal computer.
However, please bear it in mind that Konica won't be responsible for any damage or trouble of the camera or other equipment resulting from such the operation and camera failure caused by such the operation is out of our warranty based service.

· Make a backup copy of important picture data without fail.

· Frame protection by the camera is performed according to the reading attribute of the file. If the attribute is changed by a personal computer, the frame protection set by the camera becomes ineffective. Pay heed to this point when using a personal computer for dealing with a CF card.

◎ Be careful not to change the file name of picture data saved on a CF card or not to write additional file on a CF card with a personal computer. If a CF card whose data is changed or added by a personal computer is set in the camera, the camera may not only fail in playing it back but malfunction.

FRANÇAIS

Remarques importantes

· Au besoin, un fichier d'images peut être effacé ou copié vers un autre support, tel qu'un disque dur, etc. Pour des détails, reportez-vous aux mode d'emploi de l'ordinateur personnel.
Tenez compte cependant que Konica ne pourra pas être tenu responsable de dégâts ou problèmes subis par l'appareil ou d'autres équipements du fait de ces opérations.

· Faites une copie de sauvegarde de vos données d'image importantes.

· La protection des images par l'appareil agit en fonction des attributs de lecture du fichier. Si les attributs sont changés par l'ordinateur personnel, la protection d'image définie par l'appareil devient inefficace. Gardez ce point à l'esprit quand vous utilisez un ordinateur pour travailler sur une carte CF.

◎ Veillez à ne pas changer le nom de fichier de données d'images, sauvegardées sur une carte CF, et à ne pas ajouter de fichier supplémentaire sur une carte CF par l'ordinateur. Si une carte CF dont des données ont été changées ou ajoutées par un ordinateur est placée dans l'appareil, ce dernier risque non seulement de ne pas pouvoir faire la lecture, mais aussi de tomber en panne.

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Advice for good cleaning

Don't use a solvent such as thinner, benzine, etc. for cleaning the camera.

• Before cleaning the camera, remove the battery from it. When an AC adapter is connected with the camera, disconnect it from both the camera and the AC outlet.
• If the outside of the camera is cleaned with benzine, thinner or other solvent, it may discolor or solvent, it may discolor or flake off the surface coating, because the exterior of the camera is mostly made of plastics.
• To remove dirt from the exterior, wipe it out with dry soft cloth. When the exterior is considerably stained, first wipe it down with soft cloth that was once moistened with diluted neutral detergent (for kitchen use) and then squeezed well, and finish the cleaning with dry soft cloth.
• When you clean the camera with chemical wiper, follow the instructions of it.

For keeping camera well after use Advice for good cleaning

If the camera won't be used for a considerably long time, remove the battery from the camera and disconnect an AC adapter from both the camera and the AC outlet without fail.

• If the battery is left in the camera for a long time without use, it may cause electrolyte leak from the battery and breakdown of the camera.
• For keeping the camera and batteries for a long time, keep them in a constantly cool an dry place.
  Recommended ambient temperature: 15°C to 25°C
  Recommended humidity: 40% to 60%

Cautions on CF card

Notes on handling

• Neither bend CF card nor apply it strong force or shock.
• Don't keep CF card in a high humid or dusty place, or where it is apt to generate static electricity or electromagnetic wave.
• Carefully prevent the terminals of CF card from getting dust, water, other foreign substances.

Notes on picture data

• Since pictures taken by the camera are recorded on a CF card as digital data, recorded pictures can be erased from the CF card and it can be reused for recording.
• For erasing pictures or files recorded on a CF card by other camera or personal computer, use a personal computer.

• In the case the user or the third party makes a mistake in handling a CF card is affected by static electricity or electric shock, or a CF card is repaired for some reason, data recorded on the CF card may be eliminated. If a CF card comes into such a failure, the manufacturer won't be liable for the damage or loss resulting from the extinction of recorded data at all.

Cautions on LCD monitor

• Since the LCD monitor is manufactured by high precision technology, 99.98% of its pixels (picture elements) is always effective except in failure, however, 0.02% or less of the whole pixels fail in operation as it is minutely turned on or off.
• Don't press the LCD monitor with a strong force, otherwise it may cause unevenness in playback picture or damage to the LCD monitor.
• When the LCD monitor is turned on in a cold place, the screen is slightly dark at the first stage. However, with rise of the temperature, the screen becomes normal in brightness.
• When the screen is stained with fingerprints,etc., lightly wipe it down with dry soft cloth.

Note on fluorescent lamp inside LCD monitor

• The LCD monitor incorporates a fluorescent lamp inside as a backlight to brighten the screen.
  If the screen is comparatively dark, flickering, or it fails in reproducing picture, it is a sign that the service life of the fluorescent is running out and it needs replacement.
  In such a case, consult with the store that you got the camera at about replacement of the fluorescent lamp.

When you find something wrong with the camera:

●Check the camera (and external equipment) and take proper measures to dispose of the trouble according to the instructions in the following table. If the measures cannot relieve the camera from the trouble, consult with the store that you got the camera at about the trouble.

Case	Check point	Reference page
No power is supplied.	· Battery is dead or depleted. · Battery is set in wrong orientation. · AC adaptor is improperly connected.	28 28 32
Power is supplied but cut off soon after.	· Battery is dead or depleted. · Ambient temperature is too low.	28 120

Shutter is not actuated though shutter release button is pressed.	· Lens barrier switch is not set at "OPEN" position. · A usable CF card is not set in camera. · CF card set in camera is full of pictures. (Erase unnecessary pictures.) · Camera is set in self-timer mode. · Flashlight is being charged. (Wait a little while.)	48 46 90 60 56
Indication or image appearing on LCD monitor is unclear.	· Brightness of LCD monitor is incorrectly adjusted. · LCD monitor is pressed by something. · Screen of LCD monitor is dusty or soiled. · Life of fluorescent lamp is running out. (Consult with the store)	70 120 120 120
Camera does not focus on object.	· Object is difficult for focalizing.	62
Flashlight does not work.	· Flash mode switch is set at "OFF".	58
Color of picture is unnatural.	· Picture is taken without white balance adjustment.	112

Camera fails in playback.	· Monitor power switch is turned off. · CF card having no picture data is set, or no CF card is inserted. · All picture data of CF card set in camera have been erased.	66 68 90
No picture appears on screen of TV set.	· Camera and TV set are incorrectly connected or disconnected. · Input source selector or TV set is not switched to "VIDEO". · NTSC/PAL switch is incorrectly set.	74 74 106
Picture on TV screen is unclear or in unnatural color.	· Incorrect connection between camera and TV set or poor contact in connector. (Check connection between camera and TV set.) · TV set is maladjusted. (Carefully read the instructions of TV set again.)	74

Camera fails in transferring data to personal computer.	· Incorrect connection between camera and personal computer. (Carefully read the installation manual for Q-M100 again.)	114

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Error message
Messages d'erreur
Fehlermeldungen
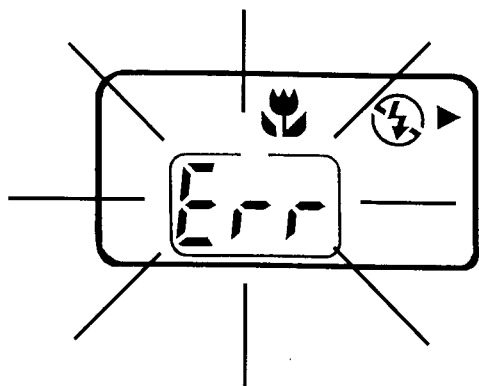
●When the remaining exposure counter reads "Err" and all indicators appearing on the indicator panel are blinking, there is an error in camera control.

If the camera falls into such the status:
1)close the lens barrier, if it is open, and
2)press the MONITOR POWER switch to turn off the LCD monitor.

If the camera does not recover from the error status in spite of the above-mentioned operation:
1)disconnect the AC adapter from the camera if it is connected (→ p.32), and
2)remove all batteries from the camera (→ p.28).

Leave the camera as it is in the above-mentioned status for 1 hour or so, and then set new batteries in the camera.
If the same error occurs after replacement of batteries, consult with the store that you got the camera at about the matter.
When the cause of the error is removed by the above-mentioned procedure, the calendar and clock are initialized. Therefore, reset them referring to page 40.

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Specifications in brief

Type	Digital still camera
Storage media	CF card
Data compression mode	SUPER FINE (10 frames at 4 MB) FINE (20 frames at 4 MB) ECONOMY (50 frames at 4 MB)
Data compression/expansion	Conforming to JPEG
Image format	Exif
Erase mode	Frame/whole/formatting
Lens	Fixed focal length, f = 6.0 mm*, F = 2.8. (* Equivalent to 39 mm for 35 mm camera)
Object distance	0.2 m to ∞ (Close-up mode: 0.2 m to 0.8 m) (Usual object distance: 0.8 m to ∞)
Focus control	All range automatic focusing by focal plane automatic focusing
Viewfinder	Real image type
Pickup device	1/3", 1,080,000-pixels CCD
Exposure control	Program AE (EV 6 to 16)
Diaphragm mechanism	Two diaphragm blades driven by step motor (F2.8, F5.6, F11) Shutter speed: 1/8 to 1/500 sec
Photometric system	Multi-photometry, automatic back-light control
Flash	Built-in automatic flashlight, effective distance: 0.5 to 3.0 m, 5800 K Red-eye reduction/AUTO/ON/OFF mode selective
White balance	Focal plane automatic white balance
Shooting mode	Normal, self-timer (10 sec), close-up, 4-frame continuous shooting, digital 2x zoom
Automatic dating	Automatic recording of year-month-day or hour-minute-second
LED's	Card access warning LED, self-timer LED, viewfinder LED's
Buzzer	Various alarms
Power source	AA-size (UM-3) alkaline battery (four), Ni-Cd alkaline battery, Ni-H battery, or exclusive AC adaptor
Battery life (in case of alkaline battery)	1) Preview shooting mode: for 100 shots or more (based on our test conditions) 2) Playback mode: 80 minutes approx. (based on our test conditions)
Working temperature	0°C to 45°C (at humidity of 20% to 95% RH)
PC interface	RS232C serial interface (115.2 kbps)
LCD monitor	1.8-inch color LCD
Playback mode	Still, double zoom-in, index, slide show
Video output	NTSC/PAL (switchable)
Accessories supplied with camera	CF card (4 MB), AA-size alkaline batteries (four), strap,soft case, video output cord, instruction manual (this book), warranty, Installation manual, Interface cable for IBM PC/AT compatible, Interface cable for Macintosh, CD-ROM
Optional accessories	Personal computer connector kit, AC adaptor
Size	119.0 (W) x 76.0 (H) x 50.7 (D) mm
Weight	290 g approx. (excluding batteries, CF card)

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