

INSTRUCTION MANUAL

VPC-R1EX VPC-R1E VPC-R1

Digital Camera



Important note

This manual explains how to safely operate the digital camera. Any information regarding only one of these products will be labeled as such.

Please read these instructions carefully before using the digital camera. Make sure to read and understand the section "USING YOUR DIGITAL CAMERA SAFELY AND CORRECTLY" from pages 3 to 12. Keep this manual in a safe place for later reference.

Download from Www.Somanuals.com. All Manuals Search And Download.

Warning

TO PREVENT THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

FOR AMERICAN USERS

- 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.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FC Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

Declaration of Conformity

 Model Number
 : VPC-R1

 Trade Name
 : SANYO

 Responsible party
 : SANYO FISHER COMPANY

 Address
 : 21605 Plummer Street, Chatsworth, California 91311

 Telephone No.
 : (818) 998-7322

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.

FOR CANADIAN USERS

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

BEFORE READING THE MANUAL

Apple, Macintosh and QuickTime are trademark or registered trademarks of Apple Computer, Inc.

Windows is a registered trademark of Microsoft Corporation.

CompactFlash is a trademark of SanDisk Corporation and handed over to CFA (CompactFlash Association).

All other company and product names are registered trademarks or trademarks of their respective owners.

Regarding the data storage media

 This digital camera uses CompactFlash cards for data storage. In this manual, the CompactFlash card is referred to as the "card."

Caution

- It is forbidden to copy this manual, whole or in part, without prior written permission.
- All images and illustrations given in this manual are for explanation purposes and may differ slightly from the actual product. Also, actual specifications are subject to change without prior notice and therefore may differ from the contents of this manual.
- Sanyo Electric shall not be held responsible for any problems resulting from the use of this digital camera.
- Sanyo Electric declines all responsibility for damages due to improper use of the camera, failure to adhere to the instructions given in this manual, or repairs or changes done by those other than a technician authorized by the manufacturer.
- Sanyo Electric shall not be held responsible for any damage caused by optional devices or consumable items used with the digital camera other than those supplied with the digital camera or those specified by Sanyo Electric.
- Sanyo Electric shall not be held responsible for any losses or loss of revenue resulting from the loss of data caused by the malfunction, or the repairing of a malfunction, of the digital camera.
- The images captured with this camera will differ in quality from pictures taken with a standard film camera.

Symbols used in this manual

HINT More detailed explanations or cautionary notes.

NOTE Extra information about camera features and terminology.

HELP In case of problems, this may help in certain situations.

CAUTION Points requiring special caution.

- Explanation for still images
- Explanation for sequential shots

You can select different languages for the LCD monitor display (see page 67). Please note, however, that the display examples and the indications in this manual are quoted only from the English version.

CONTENTS

USING YOUR DIGITAL CAMERA SAFELY AND CORRECTLY	. 3
CHECKING THE INCLUDED ACCESSORIES	13
PREPARATION	
PART NAMES	14
INSTALLING THE BATTERIES	15
INSTALLING THE CARD	17
TURNING THE POWER ON/OFF	21
SHOOTING	
3 SHOOTING MODES.	23
SHOOTING STILL IMAGES	24
SEQUENTIAL SHOTS	26
VIDEO CLIPS	28
PLAYBACK	
3 PLAYBACK MODES	29
PLAYING BACK STILL IMAGES	31
PLAYING BACK SEQUENTIAL SHOTS	32
PLAYING BACK VIDEO CLIPS	33
SHOOTING APPLICATIONS	
SHOOTING SETTINGS SCREEN.	35
ADJUSTING THE IMAGE QUALITY	37
TAKING PICTURES WITHOUT USING THE LCD MONITOR	40
TAKING CLOSE-UP PICTURES (MACRO PHOTOGRAPHY)	
	41
USING THE SELF-TIMER [] [] [] []	42
USING THE FLASH [43
EXPOSURE CORRECTION [I] [I] [I]	45
USING THE ZOOM [圖] [圖] [[]]	47

Dewnload from Www.Somanuals.com. All Manuals Search And Download.

PLAYBACK APPLICATIONS	
PLAYING IMAGES IN A SLIDE SHOW [💼]	48
MAGNIFYING (ZOOMING IN) THE IMAGE [💼] [🛄] [🎞]	49
■ OTHER FUNCTIONS	
COPYING IMAGES [團] [🖾]	50
PROTECTING/ERASING IMAGE DATA	51
COPYING TO THE CARD	55
USING WITH A COMPUTER	56
PRESERVING THE RECORDED IMAGES	57
REQUESTING PRINTING	59
SETTINGS & CHECKS	
SETTING THE DATE AND TIME	61
SETTING THE OPERATION SOUND	65
CHANGING THE DISPLAY LANGUAGE	67
CHECKING THE REMAINING BATTERY CHARGE	69
CHECKING THE REMAINING NUMBER OF IMAGES AND RECORDING TIME	71
APPENDICES	
TROUBLESHOOTING	72
SPECIFICATIONS	77
	81

USING YOUR DIGITAL CAMERA SAFELY AND CORRECTLY

CONCERNING THE DIGITAL CAMERA

- If the digital camera makes a strange noise, emits a strange odor, or if smoke comes out from it, immediately turn off the power and remove the batteries
- If the digital camera is used under these conditions, it may cause a fire or electric shock. Immediately turn off the digital camera, remove the batteries, and wait to make sure no more smoke comes from the digital camera. Then take it to the dealer for service. Do not try to repair or open the digital camera yourself.

Do not modify or open the cabinet

 High voltage circuits are inside, and there is a high risk of fire or electric shock if they are touched. Any internal check, setting, or repair should be performed by the dealer.

Do not use while driving

- Do not capture images, play back images, or watch the LCD monitor while driving a vehicle. Doing so may cause an accident.
- Be careful where you put down the digital camera inside an automobile. During sudden stops or turns it may fall behind the brake pedal and prevent braking.
- When using the digital camera while walking, be very careful of your surroundings and especially the traffic to avoid accidents.







Be aware of your surroundings when using the digital camera

- Pay close attention to your surroundings when using the digital camera. Failure to do so may lead to an accident or injury.
- Do not use the digital camera inside an airplane or elsewhere where its use may be restricted.

Do not get the digital camera wet

- This digital camera is not water-resistant. Do not allow it to get wet for it may cause a fire or electric shock.
- Do not use the digital camera in a bathroom.
- If the digital camera gets wet, immediately turn it off and remove the batteries. Then take it to the dealer for repair. Using the digital camera after it has become wet may cause a fire, electric shock, or other accident.

Do not use during a storm

 To avoid the risk of being struck by lightning, do not use the digital camera during a thunderstorm. In particular, if used in an open field, you have an increased chance of being struck by lightning. Quickly seek refuge in a place that will protect you from lightning.

Do not place on an unstable surface

- The digital camera may fall, resulting in damage to the digital camera or injury.
- If the digital camera has fallen and its body is damaged, turn off the digital camera, remove the batteries, and take it to the dealer for repair. Using the digital camera after its body has been damaged may cause a fire or electric shock.

Do not look through the digital camera into the sun

 Do not look through the digital camera at the sun or any other strong source of light. Doing so may seriously injure your eyes.













USING YOUR DIGITAL CAMERA SAFELY AND CORRECTLY

(CONCERNING THE DIGITAL CAMERA)

WARNING

Do not use the flash close to a person's face

• To prevent possible eye injury, do not use the flash near a person's face (especially young children or babies). If the flash is used close to a person's opened eyes, there is a risk that it may damage that person's eyesight.

Do not use where there is risk of explosion

 Do not use the digital camera in a location where there is explosive gas, or any other flammable material in the air. Doing so may cause a fire or an explosion.

Keep the digital camera out of the reach of children

- The following may happen if children play with the digital camera:
 - · They may wrap the strap around their neck and suffocate.
 - They may swallow the batteries or other small parts. In such a case, consult a physician immediately.
 - They may damage their eyesight if the flash goes off too close to their eyes.
 - They may get hurt by the digital camera.





Concerning the Batteries

Concerning the supplied alkaline batteries

- Follow all the warnings indicated below to prevent the batteries from leaking, overheating, exploding, catching fire, or becoming damaged.
 - Do not install with the polarities ((+) and (-)) reversed.
 - Do not heat the batteries or throw them into a fire.
 - Do not allow metal objects to touch the terminals. Do not carry loose with necklaces, hairpins, etc.
 - Do not transform, open, or modify.
 - Do not put in water or any liquid, or get the terminals wet.
 - Do not remove or puncture the external wrapping.
 - Do not use if there is leaking, swelling, rising temperature, discoloration, or any other abnormal condition.
 - Keep out of the reach of children.
 - Do not drop, hit, or submit the batteries to strong shocks.

USING YOUR DIGITAL CAMERA SAFELY AND CORRECTLY

(CONCERNING THE DIGITAL CAMERA)

General precautions for the batteries

- Use the alkaline batteries or other specified batteries with this digital camera. Manganese batteries cannot be used, since they have a short battery life and may overheat, causing damage to the digital camera.
- Do not use alkaline batteries together with Ni-Cd batteries, or batteries of different types or different brands at the same time.
- Make sure not to reverse the polarities ((+) and (-)) when installing the batteries. Install the batteries as described by the indicated polarity.
- Using different types of batteries at the same time may generate heat or cause the batteries to leak, resulting in fire, injury or burns, or damage to the digital camera and other nearby objects.
- Use only specified batteries. Using batteries without protective casings or other inferior products may cause a fire, injury, or burns.
- The batteries may be warm immediately after the digital camera is used. If removing the batteries, turn off the digital camera and allow the batteries to cool down before removing them.



- If a battery is leaking and the electrolyte gets on your skin or clothing, immediately rinse with clean water. If the electrolyte gets into your eyes, you risk losing your eyesight. Immediately rinse your eyes with clean, running water, and seek medical attention right away.
- Do not drop or hit the batteries, or submit them to strong shocks.
- If the digital camera is not going to be used for a long period of time, remove the batteries and store them in a cool place. (When the batteries are removed for a long period, the time and date settings will be cleared.)
- When disposing of the batteries, make sure to follow all applicable regulations.
- If used at temperatures below 10°C, the service life of the batteries will be shorter than normal (except lithium batteries (CR-V3)).
- When using rechargeable batteries, use them after being fully charged.
- Always read the instruction manuals that may come with the batteries or the battery charger you purchase before use.

Dewnload from Www.Somanuals.com. All Manuals Search And Download.

CAUTION

Cautions when carrying the digital camera

- Do not walk around holding the digital camera by the hand-strap. It may hit other objects and get damaged.
 When walking around, hold the digital camera in your hand or place it in a pocket.
- Be careful not to drop the digital camera or subject it to strong shocks.
- Make sure direct sunlight does not hit the digital camera lens, since that may damage the internal parts. When not using the digital camera, be sure to always turn off the digital camera and keep the lens cover closed.

Cautions during use and storage

- This digital camera is a precision instrument. When using or storing the digital camera, make sure to avoid the following locations to privent damage.
 - · Places in direct sunlight
 - · Places where humidity and temperature are high
 - · Places that may get wet
 - · Places close to an air conditioner or heater
 - Inside a car
 - · Places where there is dust and dirt
 - Places where there is a fire burning
 - · Places where volatile products are stored
 - Places subject to vibration

 Temperature 	0 to 40°C (operation) –20 to 60°C (storage)
 Humidity 	30 to 90% (operation, no condensation) 10 to 90% (storage, no condensation)





Download from Www.Somanuals.com. All Manuals Search And Download.

USING YOUR DIGITAL CAMERA SAFELY AND CORRECTLY

Concerning the Accessories

CAUTION

Cautions concerning the use of the AC adaptor

- Use only the separately sold AC adaptor (model VAR-G5EX for the VPC-R1EX, model VAR-G5E for the VPC-R1E and model VAR-G5U for the VPC-R1) with your digital camera. Do not use an AC adaptor other than the one indicted here, designed for specific use with your digital camera.
- If an AC adaptor other than the specified one is used, it may damage the digital camera and cause a fire or electric shock.
- When using an AC adaptor continuously, remove the batteries. Otherwise, batteries may cause excess heat, leakage, injuries, or damage to nearby objects.
- For complete information on how to use the AC adaptor, refer to the instructions accompanying the AC adaptor.

Cautions concerning the CompactFlash

- Immediately after use, the CompactFlash will be very hot. Before removing the CompactFlash, turn off the digital camera and wait for the temperature to cool down.
- Keep out of the reach of children. Young children may put the media in their mouth and choke or cause some other unexpected injury or accident.

For correct use of your digital camera

Cautions before capturing important images

- Before capturing important images, make sure that the digital camera is operating properly and in condition to capture the image properly.
- Sanyo Electric shall not be held responsible for any losses that result from images that could not be recorded, are erased, destroyed, or damaged in any way due to a problem with the digital camera, any of its accessories, or its software.

Cautions concerning copyrights

• The images you capture with your digital camera are for your own private use, any other use may violate the rights of copyrights owners.

Cautions when cleaning the digital camera

- Do not use benzene or thinner products to clean the digital camera. Doing so may cause deformation, discoloration, or peeling of paint. When using a chemically treated cloth, carefully read its instructions and warnings.
- Do not spray insecticides or volatile sprays on the digital camera. Do not leave rubber or vinyl objects against the digital camera for a long period. They may cause deformation, discoloration, or peeling of paint.

Cleaning procedure

- 1 Turn off the digital camera and remove the batteries.
- 2 Remove the dirt with a soft cloth.
- 3 If the digital camera is extremely dirty, wipe with a soft cloth moistened with a mild detergent diluted with water and wrung dry.

Cautions concerning the batteries and their terminals

- Periodically clean with a dry cloth the terminals of the batteries ((+) and (-)) and the terminals located in the battery compartment of the digital camera.
- Do not touch the battery terminals or the terminals in the battery compartment of the digital camera with your bare hands. Doing so will allow contaminants from your hands to adhere to the terminals and oxidize, increasing the contact resistance. If the contact resistance increases, the usable life of the batteries will diminish.

Cautions when cleaning the lens

• If the lens gets dirty, use a commercially available air blower or a cleaning cloth for photographic equipment to clean it.

When not using the digital camera for a long period

- Remove the batteries. However, when the batteries are removed for a long time, the digital camera functions may begin to not work properly.
 Periodically reinstall the batteries and check the digital camera functions.
- If the batteries are left in the digital camera, a small amount of power is still used even if the digital camera is turned off. If the batteries are left in the digital camera for a long period, they may become completely discharged.

Cautions concerning condensation

Using the digital camera with condensation inside it may damage the digital camera.

Be careful of condensation under the following conditions:

- When moving the digital camera suddenly from a cold place to a warm place.
- When the ambient temperature changes drastically, such as when a heater is turned on to quickly heat the room.
- When the digital camera is placed in the path of cool air from an air conditioner.
- When the digital camera is placed in a location of high humidity.

If condensation seems likely to form

• Place the digital camera in a plastic bag and seal it, and then wait until the digital camera has reached the ambient temperature.

Cautions concerning data storage

- It is recommended that any important data be copied onto a separate media (such as a hard disk, MO disk, or CD-R disk).
- Data stored in the internal memory of this camera or on the CompactFlash may be lost (or corrupted). Sanyo Electric will not be held responsible for any damage or lost profits arising from the loss of data.
 - If the CompactFlash or the camera is used incorrectly.
 - If the CompactFlash is not inserted correctly into the digital camera.
 - If the CompactFlash or the internal memory is subjected to electrical or mechanical shocks or other forces.
 - If the CompactFlash is removed from the digital camera or if the digital camera is turned off during reading or writing operations.
 - If the CompactFlash or the internal memory has reached the end of its usable life.

Cautions when handling the CompactFlash

- The CompactFlash card is a precision device. Do not bend, drop, or subject it to strong forces or shocks.
- Avoid using or storing the CompactFlash card in places with extremely high or low temperatures, subject to direct sunlight, in a completely closed vehicle, near air conditioners or heaters, or in humid or dusty locations.
- Avoid using or storing the CompactFlash card in locations where strong static electrical charges or electrical noise can be easily generated.
- Do not allow the edges of the CompactFlash card to become contaminated with foreign materials. Gently wipe away any contamination with a soft, dry cloth.
- When not using the CompactFlash card, put it back into the protective cover to protect it from damage due to static electricity.
- Do not carry the CompactFlash card inside trouser pockets, since it may become damaged when you sit down or make other movements that may apply force.
- Before using an unused card, make sure to format it using the digital camera (see page 19).
- When buying separately sold or commercially available products, carefully read the instructions and warnings that come with them.

CHECKING THE INCLUDED ACCESSORIES

Hand-strap



 Dedicated USB interface cable



4 alkaline batteries



 Software: CD-ROM (Sanyo Software Pack)



USING THE HAND-STRAP

Attach the supplied hand-strap to the digital camera to aid in carrying.

Bend the looped end to slip it through the strap holder.



Other separately sold devices

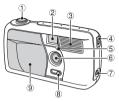
• AC adaptor (Model: VAR-G5EX/E/U)

AC adaptor for use with your digital camera

• CompactFlash (Model: KA-DSM-C32G) 32 MB capacity CompactFlash memory card

PART NAMES

Front



- Shutter release button
- 2 Viewfinder
- ③ Flash
- ④ USB terminal

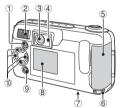
For connecting to a computer with the supplied USB interface cable.

- 5 Self-timer indicator
- 6 Lens
- ⑦ DC IN terminal (for external DC power input)

For connecting the VAR-G5EX/E/U AC Adapter (sold separately).

- 8 Macro switch
- 9 Lens cover

Rear

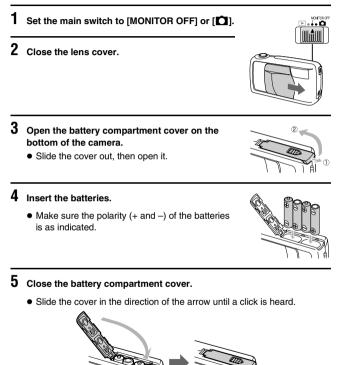


- 1 [MODE] button
- ② Main switch
- ③ Viewfinder
- ④ Standby indicator
- 5 Card slot cover
- 6 Strap holder
- ⑦ Battery compartment cover
- 8 LCD monitor
- 9 [SET] button
- 1 Arrow button
- During use, the area around the LCD monitor may become warm. This is normal and does not indicate a malfunction.
- You may see some black and white dots in the LCD monitor. This is normal and does not indicate a malfunction.

Download from Www.Somanuals.com. All Manuals Search And Download.

INSTALLING THE BATTERIES

Use the four alkaline batteries. To use other batteries, please see "To use other batteries" on page 16, and choose batteries suitable for use with this camera.



CAUTION

Do not use manganese batteries.

 In addition to offering only a short battery life, manganese batteries release heat which may cause damage to the camera.

Do not open battery cover while camera is turned on.

 Do not open the battery cover while the camera is operating. Doing so may cause the loss of memory data. Sanyo cannot take responsibility for any damage arising from such operation.

HINT

To use other batteries

- Types of batteries that can be used in this camera (other than the alkalines):
 - AA-size nickel-metal hydride (Ni-MH) batteries (Sanyo HR-3USV: x 4)
 - AA-size nickel-cadmium (Ni-Cd) batteries (Sanyo N-3US: x 4)



• Lithium batteries (CR-V3 x 2) Make sure the batteries are pointing in the correct direction when installed.

Remove the batteries when not using the camera for a long time.

 A slight amount of battery power is still being used even when the camera is turned off. It is recommended that the batteries be removed from the camera when it is not being used for a long time. However, when the batteries are removed for a long time, the date and time settings may be cleared. When the batteries are reinstalled, please check that the date and time settings are correct (see page 61).

INSTALLING THE CARD

Although the camera can store pictures in its internal memory, the use of a memory card is recommended since only a limited number of pictures can be saved to the internal memory.

- Before you first use a memory card (separately sold KA-DSM-C32G CompactFlash) with the digital camera, it is necessary to format it using this camera. Also, to use a card that was formatted with a computer or another camera, it is necessary to reformat it with this camera.
- In this manual the word "card" is used to refer to the CompactFlash card.

Installing the Card

- 1 Set the main switch to [MONITOR OFF] or [□]. Close the lens cover.
 - Check that the LCD monitor and standby indicator are off.

2 Open the card slot cover on the side of the camera.

3 Insert the card.

- Insert the card from the connector end, in the direction shown by the arrow ([4] mark).
- Insert it fully.





To remove the card...

• Pull the card slowly out with your fingertips.

CAUTION

Do not remove the card when the camera is on.

 Take care not to remove the card when the camera is on, because doing so may cause the data on the card to be lost. Sanyo shall not be held responsible for any data that is damaged or lost in this manner.

HINT

 Inserting a memory card allows picture storage to and playback from that card; the camera's internal memory is used for storage and playback when no card is installed. When the camera is turned on without a card inserted, "X" is displayed on the LCD monitor.

INSTALLING THE CARD

Reformatting a card

1 After inserting a card, set the main switch to [D] and open the lens cover.

- 2 Press the [MODE] button to show the following screen.
- 3 Press [▲] on the arrow button, then press [▶] to select the [³···] icon.
- 4 Press the [SET] button.
 - The Options screen appears.
- 5 Press [▼] to select [REFORMAT].









6 Press the [SET] button.

• The Reformat screen appears.

7 Press [▲] to select [REFORMAT], and then press the [SET] button.

- Reformatting begins.
- During reformatting, [DO NOT POWER OFF] is displayed.
- When reformatting has completed, the display returns to the Options screen.

CAUTION

Do not turn off the digital camera while it is reformatting the card.

• When reformatting begins after step 7, do not turn off the camera.

Reformatting a memory card will erase all data.

 Reformatting a memory card will erase all data which has been stored on that card. Since data which has been protected (see page 51) will also be erased, be sure to save important data to a PC hard disk before performing card reformatting.

HINT

Reformatting with the main switch set to [>].

• Reformatting is also possible with the main switch set to [] in step 1. In this case, it is not necessary to open the lens cover.

To reformat the camera's internal memory

 Perform reformatting after removing the memory card. The reformatting process is the same for internal memory as for memory cards.

To cancel the Reformat operation

• In step 7, select [CANCEL], and press the [SET] button. The display returns to the screen in step 5, and the Reformat operation is canceled.



TURNING THE POWER ON/OFF

Turning the power On

The procedures to turn the power on when taking pictures and when playing back images are different.

When taking pictures

 Set the main switch to [MONITOR OFF] or [D].

 MONITOR OFF:

 The LCD monitor is not used.

 The LCD monitor is used.

2 Open the lens cover.

• The power turns on, and the standby indicator in the viewfinder lights green.



When playing back images

Set the main switch to [▶].

• The power turns on, and an image appears on the LCD monitor.

Turning the power Off

Set the main switch to [MONITOR OFF] or [

2 Close the lens cover.

- The power turns off.
- If the main switch was set to [D], the standby indicator and the LCD monitor turn off.

Dewnload from Www.Somanuals.com. All Manuals Search And Download.

mode).

- Press the shutter release button once.
- Press the [MODE] button.

following steps.

When in the playback mode, you can also ...

• Move the main switch to another position, then back to [[]].

Close and open the lens cover (only in the shooting)

an also... osition, then back

NOTE

To protect your camera's lens...

- Although pictures can be viewed with the lens cover open, closing the cover is recommended to protect the lens.
- When using the AC adaptor (sold separately), the power save function will become active after about 30 minutes of inactivity.



Turning the power on when the power save function is active

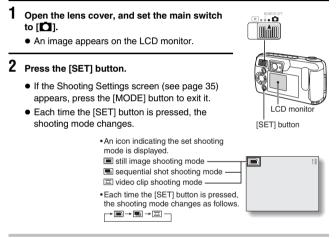
To save battery power, the power save function automatically turns off the power after a period of no operation (about 1 minute in the shooting mode or about 5 minutes in the playback mode).

To restore power when in the power save mode, perform one of

3 SHOOTING MODES

This camera has three different shooting modes to choose from: still image, sequential shot, and video clip. Set the desired shooting mode before taking pictures.

- Still image shooting mode: For taking still pictures.
- Sequential shot shooting mode: For taking several pictures in quick succession.
- Video clip shooting mode: For recording video clips.



HINT

 You can also switch the shooting mode from the Shooting Settings screen (see page 35).

SHOOTING STILL IMAGES

1 Set the camera to the still image shooting mode (see page 23).

2 Point the camera at the subject.



Keep your elbows close to your body.

Incorrect hold



the lens.

Your fingers or the strap should not be in front of the lens or the flash.

3 Press the shutter release button.

- Center the subject in the viewfinder, press the shutter release button halfway and hold it there.
 - Camera settings such as the exposure, are automatically set.
- **2** Press the shutter release button all the way.
 - The picture is taken.







SHOOTING STILL IMAGES

Important points when capturing images

When the next picture cannot be taken ...

• When the standby indicator is flashing, the next picture cannot be taken. When the indicator lights, the next picture can be taken.

When the shutter release beep sounds are desired...

• You can change the setting so that the camera makes a beep sound when the shutter release button is pressed (see page 65).

To save battery consumption...

• You can also take pictures without using the LCD monitor (see page 40).

To view a captured image immediately...

• After taking a picture, if you move the main switch to []], you can view the image that was just captured on the LCD monitor.

Where are pictures stored?

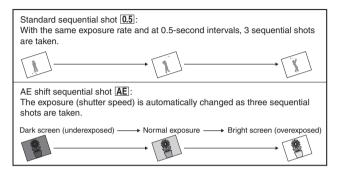
• Pictures are stored on the memory card if installed and otherwise to the camera's internal memory.

Avoid photographing subjects that are positioned in front of bright light sources.

• Flare (lines or patterns of light) may appear in pictures where the subject is lit from behind.

SEQUENTIAL SHOTS

Two types of sequential shot functions are available. In the standard sequential shot mode, images are taken at 0.5-second intervals. In the AE shift sequential shot mode, three sequential images are taken at different exposures (brightnesses).



1 Set the shooting mode to the sequential shot shooting mode (see page 23).

2 Press the [MODE] button.

- The Shooting Settings screen is displayed.
- **3** Select a mode from the sequential shot mode menu, and press the [SET] button.
 - Use the [>] button to change the mode.
 - 0.5: Standard sequential shot
 - AE: AE shift sequential shot





SEQUENTIAL SHOTS

4 Capture the pictures.

- Center the subject in the viewfinder, press the shutter release button halfway and hold it there.
 - Camera settings such as the exposure are automatically set.

Press the shutter release button all the way.

- · Shooting starts.
- When three pictures have been taken, sequential shot shooting stops.
- Refer to page 25 for important points to consider when capturing images.







CAUTION

• In the sequential shooting modes, the flash cannot be used.

VIDEO CLIPS

1 Set the shooting mode to the video clip shooting mode (see page 23).

2 Take a video clip.

- Center the subject in the viewfinder, press the shutter release button halfway and hold it there.
 - Camera settings such as the exposure are automatically set.

Press the shutter release button all the way.

- · Shooting starts.
- The [IE] indicator and the remaining shooting time indicator appear on the LCD monitor during recording.
- When the shutter release button is pressed again, video clip shooting stops.
- Refer to page 25 for important points to consider when capturing images.





LCD monitor

歰





CAUTION

Sound recording is not possible with this camera.

Dewnload from Www.Somanuals.com. All Manuals Search And Download.

3 PLAYBACK MODES

The three playback modes are: still image, sequential shot, and video clip. Set the appropriate playback mode before starting playback.

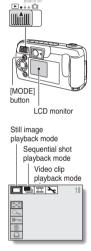
- Still image playback mode: For viewing still image shots.
- Sequential shot playback mode: For viewing sequential shot images.
- Video clip playback mode: For playing back video clips.

1 Set the main switch to [►].

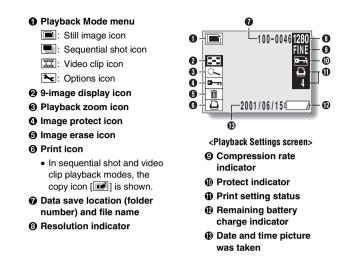
- An image appears on the LCD monitor.
- 2 Press the [MODE] button.
 - The Playback Settings screen is displayed.
- 3 Select the uppermost icon and press [▶] on the arrow button to select the desired playback mode.

4 Press the [SET] button.

 The icon selected in step 3 moves to the left side of the screen, and the playback mode setting is complete.



<Playback Settings screen>



■ To exit the Playback Settings screen, press the [MODE] button again.

HINT

- Magnified (zoomed in) images that have been saved, as well as copied images are also viewed in still image playback mode.
- Remove the memory card to view pictures stored in the camera's internal memory.

PLAYING BACK STILL IMAGES

Playing back still images one by one

 Set the playback mode to the still image playback mode (see page 29).

2 Press [◀] or [▶] on the arrow button.

- [◀]: To display the previous image.
- [►]: To display the next image.

Playing back several images at once (9-image display playback)

- 1 Set the playback mode to the still image playback mode (see page 29).
- 2 Press the [MODE] button.
 - The Playback Settings screen is displayed.

3 Press the [SET] button.

- The 9-image display appears.
- Each image is displayed with its assigned image number.
- 4 Use the arrow button to move the [€] mark to the desired image, and press the [SET] button.
 - The selected image is displayed full-screen.

	100-0046 1280 FINE
2	
一 前	



PLAYING BACK SEQUENTIAL SHOTS

- 1 Set the playback mode to the sequential shot playback mode (see page 29).
- 2 Press [◀] or [▶] on the arrow button.
 - [◀]: To display the previous image.
 - [▶]: To display the next image.

3 Press the [MODE] button.

The Playback Settings screen is displayed.

4 Press the [SET] button.

- The 9-image display appears.
- · Each image is displayed with its folder number.

5 Use the arrow button to move the [1] mark to the desired image, and press the [SET] button.

• The selected image is displayed full-screen.





HINT

- To display a different sequential shot, repeat steps 3 to 5.
- In step 2 with the Playback Settings Screen not displayed, press [▲] or [▼] to change to the previous or following sequential shot respectively.

HELP

When the 9-image display is shown in step 1...

• After step 5, perform step 2.

PLAYING BACK VIDEO CLIPS

1 Set the playback mode to the video clip playback mode (see page 29).

- The 9-image display appears.
- Each image is displayed with its assigned image number.

2 Use the arrow button to move the [♣] mark to the desired video clip.

3 Press the [SET] button.

• The selected image is displayed full-screen.

4 Play back the clip.

Normal playback

Press the [SET] button.

Pause

Press the [SET] button while the video clip is being played back. Press the [SET] button again to resume playback.

Frame-by-frame playback

Forward: While the video clip playback is paused, press [▶]. Reverse: While the video clip playback is paused, press [◄].

Fast playback

2x fast playback: During normal playback, press [▶].

Return to normal playback: During fast playback, press [▶].

Jump

Jump to the start of the current video clip: Press $[\blacktriangle]$.

Jump to the end of the current video clip: Press [▼].

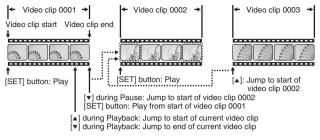
Jump to the start of the next video clip: While the video clip playback is paused, press $[\Psi]$.

Jump to the start of the previous video clip: While the video clip playback is paused, press $[\blacktriangle]$.

Dewnload from Www.Somanuals.com. All Manuals Search And Download.



<Example of button operation>



HELP

If the full-screen display appears in step 1...

Skip to step 4.

Is sound playback possible?

• This digital camera has no sound playback function.

SHOOTING SETTINGS SCREEN

1 Set the shooting mode (see page 23).

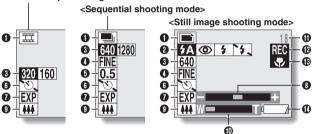
2 Press the [MODE] button.

- The Shooting Settings screen appears on the LCD monitor.
- The appearance of the Shooting Settings screen differs depending on the currently active shooting mode.

[MODE] button



<Video clip shooting mode>



Shooting mode menu

- : Still image icon
- E: Sequential shot icon
- 篮: Video clip icon
- Coptions icon

Ø Flash menu

- 5A: Automatic flash icon
- : Forced flash icon
- : Flash off icon
- ©: Red-eye reduction mode icon

Resolution menu

- 1280 : 1280 x 960 pixels icon
- 640: 640 x 480 pixels icon
- 320 : 320 x 240 pixels icon
- 160: 160 x 120 pixels icon

O Compression rate menu

- FINE: Low compression icon
- MRM: Moderate compression icon

G Sequential shot mode menu

- 0.5 : 0.5-second interval sequential shot icon
- AE: AE shift sequential shot icon

Self-timer menu

- তি: Self-timer on icon
- Self-timer off icon
- Exposure correction icon
- O Exposure correction bar
- O Zoom icon
- Com bar
- Number of images remaining

In the video clip shooting mode, the remaining available recording time is shown as [minutes: seconds].

- Indicator (only when in the video clip shooting mode)
- Macro indicator
- Remaining battery charge indicator

■ To exit the Shooting Settings screen, press the [MODE] button again.

HINT

To change the shooting mode in the Shooting Settings screen...

- Press [▲] or [▼] on the arrow button to select the shooting mode menu.
- 2 Press [▶] to select the desired shooting mode icon.
- (3) Press the [SET] button.
- mode changes.

Download from Www.Somanuals.com. All Manuals Search And Download.



ADJUSTING THE IMAGE QUALITY

The resolution and compression rate can be changed to adjust the image quality.

Set the image resolution ([)] []] []]

At higher resolutions, the image quality is clear and beautiful. But because the data size is also large, the number of pictures that can be taken and the recording time becomes less. Adjust the resolution to match your needs, either for higher picture quality or for quantity.

- 1 Display the Shooting Settings screen (see page 35).
- 2 Select the resolution menu.
- **3** Select the desired resolution from the resolution menu.
 - Press [▶] on the arrow button to select the resolution.
 - 1280 : 1280 x 960 pixels icon (still image/sequential shot modes only)
 - 640: 640 x 480 pixels icon (still image/sequential shot modes only)
 - 320: 320 x 240 pixels icon (video clip mode only)
 - 160: 160 x 120 pixels icon (video clip mode only)



4 Press the [SET] button.

• The selected resolution is set.

To exit the Shooting Settings screen, press the [MODE] button.

HINT

• The resolution setting is retained until you change it.

NOTE

About the resolution and compression rate (see page 39) settings

The image captured by a digital camera is comprised of a collection of small dots. The resolution refers to the number of these dots; the greater the number, the higher the image quality. However, at high resolutions, the volume of data increases, so the number of images that can be recorded decreases. In a digital camera, the common method to compensate for this is to compress the data. This digital camera uses JPEG compression. When JPEG compression is used and the image is returned to its original size, an extremely small portion of the data is lost. The higher the compression rate, the more of the original image is lost. For this reason, this digital camera allows you a mode by which the image quality has a top priority. This is the FINE (low compression) mode. By understanding the resolution and compression characteristics, you can select the appropriate settings that you require for your pictures.

ADJUSTING THE IMAGE QUALITY

Changing the data size (compression rate)

You can set the compression rate for the captured image data. When you increase the compression rate setting, the data size becomes smaller even for pictures taken at the same resolution; at a lower compression rate, the best image quality is ensured.

- 1 Display the Shooting Settings screen (see page 35).
- 2 Select the compression rate menu.
- **3** Select the desired compression rate from the compression rate menu.
 - Press [>] on the arrow button to select the rate.
 - FINE: Image data is stored at low compression (high quality).
 - Image data is stored at moderate compression (normal quality)

4 Press the [SET] button.

• The selected compression rate is set.

To exit the Shooting Settings screen, press the [MODE] button.

HINT

• The compression rate setting is retained until you change it.



TAKING PICTURES WITHOUT USING THE LCD MONITOR [🛋] [] []

You can turn off the LCD monitor and take pictures using the viewfinder. Turning off the LCD monitor saves battery power.

1 Open the lens cover and set the main switch to [MONITOR OFF].



- 2 Point the camera at the subject.
- **3** Compose the image.
 - Look through the viewfinder and aim the camera so that the light-measuring area is in the center of the subject.

Shutter release button

4 Press the shutter release button.

Still image shooting mode

 \rightarrow see page 24, step 3.

Sequential shot shooting mode

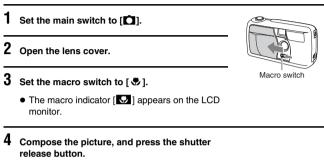
 \rightarrow see page 27, step 4.

Video clip shooting mode

 \rightarrow see page 28, step 2.

TAKING CLOSE-UP PICTURES (MACRO Photography) ([💼] [💷] [ع])

Use the macro photography focus to take pictures at close range (20 to 50 cm).



- If the main switch is set to [MONITOR OFF], you can take pictures without using the LCD monitor (see page 40).
- To return to normal photography, set the macro switch to its original position.

CAUTION

Due to the distance between the viewfinder and the lens, as the camera
gets closer to the subject, the image that is actually recorded becomes
lower and more to the left in the viewfinder area. Therefore, it is
recommended that when taking close-range pictures you compose the
picture by viewing it on the LCD monitor.

Download from Www.Somanuals.com. All Manuals Search And Downlo

USING THE SELF-TIMER [🗐] [🗐] [🎞]]

- 1 Display the Shooting Settings screen (see page 35).
- 2 Select the self-timer menu.
- 3 Select [[1]] from the self-timer menu.
 - Press [>] on the arrow button to select the self-timer mode
 - Self-timer on (the self-timer will be used)
 - Self-timer off (the self-timer will not be used)

4 Press the [SET] button.

- The desired self-timer mode is set
- To exit the Shooting Settings screen, press the [MODE] button.

5 Take the picture.

 When the shutter release button is pressed, the self-timer indicator lights for about 7 seconds, after which it flashes for about 3 seconds. and then the picture is taken.

HINT

To stop the self-timer...

 Press the shutter release button while the self-timer indicator is lit. To restart it, press the shutter release button again.

To cancel the self-timer mode...

• Select [10] in step 3, and press the [SET] button.







USING THE FLASH [🖃]

The flash is used not only in dark conditions, but also when the subject is in the shade or is lit from the back. The four flash modes (automatic flash, forced flash, flash off, and red-eye reduction) allow you to select the mode appropriate for the surrounding conditions. The flash can be used only in the still image shooting mode. Note that the effective flash range is 0.5 to 2.1 m for normal photography, and 0.2 to 0.5 m for macro photography.

1 Display the Shooting Settings screen for the still image shooting mode (see page 35).

2 Select the flash menu.

3 Select the desired flash mode from the flash menu.

- Press [▶] on the arrow button to select the flash mode.
 - **[A]**: (automatic flash) The camera will detect the brightness of the subject and use the flash or not as required.
 - : (forced flash) The flash operates with every picture taken, regardless of the surrounding conditions. Use this setting when the subject is in the shade, under backlight conditions, under fluorescent lighting conditions, etc.



- (flash off) The flash will not operate even under dark conditions. Use this setting when taking a picture in a location where flash photography is prohibited, or when shooting a night landscape scene.
- (ced-eye reduction) When using the flash, the digital camera will operate in a way that reduces the red reflection ("red-eye") in the subject's eyes.

4 Press the [SET] button.

- The selected flash mode is set.
- To exit the Shooting Settings screen, press the [MODE] button.

5 Press the shutter release button.

• If the main switch is set to [MONITOR OFF], you can take pictures without using the LCD monitor (see page 40).

HINT

- The flash mode setting is retained until you change it.
- The flash does not operate for sequential shot or video clip photography.

HELP

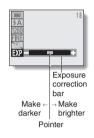
If the shutter button does not work...

 While the flash is charging, the standby indicator in the viewfinder flashes. During this time, a picture cannot be taken even if the shutter release button is pressed. Release the shutter release button and wait until the standby indicator lights to take the next picture.

EXPOSURE CORRECTION [🖃] [🕮] [

You can change the brightness (exposure) of the image when you take the picture.

- 1 Display the Shooting Settings screen (see page 35).
- $\label{eq:linear} 2 \hspace{0.1in} \text{Select the exposure correction icon } [\texttt{EXP}].$
 - The exposure correction bar appears.
- 3 Press [◀] or [▶] on the arrow button to adjust the exposure.
 - Pressing [] or [] moves the pointer on the exposure correction bar to the left or right, changing the exposure.
 - To exit the Shooting Settings screen, press the [MODE] button.



4 Take the picture.

HINT

- The exposure correction is canceled when the main switch is set to [\blacktriangleright] or [MONITOR OFF], when the camera is turned off, or when the pointer is moved to the center position.
- Moving the pointer away from the center position will change the exposure.

Shortcut for setting the exposure correction

Any time the Shooting Settings screen is not shown and you press [▶] or
 [▲] on the arrow button, the exposure correction icon appears, allowing you to change the setting. (If the setting is not available, the icon will not appear.)

USING THE ZOOM [画] [💻]

The subject can be enlarged (zoomed in) when you take a picture.

18

Zoom bar

→ Make

Pointer

larger

Make –

smaller

- 1 Display the Shooting Settings screen (see page 35).
- 2 Select the zoom icon [#].
 - The zoom bar appears.
- 3 Press [◀] or [▶] on the arrow button to adjust the zoom rate.
 - To exit the Shooting Settings screen, press the [MODE] button.

4 Take the picture.

HINT

- The zoom is canceled when the main switch is set to [] or [MONITOR OFF], when the camera is turned off, or when the pointer is moved furthest to the left.
- The image quality will deteriorate slightly when the zoom is used.

Shortcut for setting the zoom

Any time the Shooting Settings screen is not shown and you press [◀] or
 [▼] on the arrow button, the zoom icon appears, allowing you to change the setting.

NOTE

• When the resolution is set to 1280, the zoom icon will not appear.

PLAYING IMAGES IN A SLIDE SHOW [

Images can be played back in slide show fashion.

- 1 Select the still image playback mode (see page 29).
 - If the Playback Settings screen appears, press the [MODE] button to exit it.
- 2 Press and hold $[\blacktriangle]$ or $[\blacktriangledown]$ on the arrow button until the [SLIDE SHOW] indicator appears.
 - Images are played in succession at 4-second intervals
 - [▲]: Images are displayed in reverse order.
 - [▼]: Images are displayed in the normal order.

3 To stop the slide show ...

• Press the [MODE], [SET] or arrow button. [STOP] appears and the slide show ends.





MAGNIFYING (ZOOMING IN) THE IMAGE [画] [画] [] [] [] [] []]

The recorded images can be magnified when they are played back. In addition to still images and sequential shots, video clip images can be magnified when in the pause mode.

1 Display the image you wish to magnify.

- 2 Display the Playback Settings screen (see page 29).
- **3** Select the playback zoom icon [

4 Press the [SET] button.

- The image is magnified and the central portion of the original image is displayed.
- The playback zoom indicator [] appears on the LCD screen.
- Press the [SET] button to magnify the image further.
- You can press the arrow button to view different portions of the magnified image.
- When the image is displayed at maximum magnification, if you press the [SET] button again, the image returns to its original size.
- You can press the shutter release button to save the magnified portion of the displayed imaged as a separate still image.

HINT

 The maximum degree of magnification depends on the resolution of the image.

NOTE

• A video clip cannot be played back when it is magnified.

ownload.

	100-0046 <u>1280</u> FINE
20	

COPYING IMAGES [] [] [] [] []

You can select an image from a sequential shot or video clip. copy it. and save it as a still image.

- 1 Play back a sequential shot or video clip, and display the desired image.
- 2 Display the Playback Settings screen (see page 29).
- 3 Select the copy icon [10].

4 Press the [SET] button.

- The Copy screen appears.
 - [YES]: Saves the displayed image as a still image.
 - Cancels the copy procedure, and [EXIT]: returns the display to the Playback Settings screen.

5 Press the [SET] button.

- [PROCESSING] appears, and the display returns to the copy screen.
- The image is copied and saved.

HINT

After the image is copied, the original image remains unchanged.







PROTECTING/ERASING IMAGE DATA

Images that you no longer want to keep can be erased from the card. In addition, you can protect stored image data from accidental erasure with the protect function.

 To protect and delete data stored in the camera's internal memory, do not insert a memory card.

Image data protect

Still images and sequential shots are protected one frame at a time, and video clips are protected one clip at a time.

1 Display the image that you want to protect from accidental erasure. 2 Display the Playback Settings screen (see page 29). 3 Select the protect icon [B-].

4 Press the [SET] button.

- The [LOCK?] indicator appears.
 - [YES]: The image data is locked and cannot be erased.
 - The protect setting is not changed, [EXIT]: and the display returns to the Playback Settings screen.
- If the image data has already been locked, [UNLOCK?] appears.

-00461280
LUNE



5 Select [YES], and press the [SET] button.

- The image data is locked.
- Images that are protected appear with the protect indicator [E:].

CAUTION

• Even if images are protected, they will be erased if reformatting is performed (see page 19).

HINT

To continue setting the protect mode for other image data...

● After step 5, press [◀] or [▶] to display the desired image, and repeat step 4.

To cancel the protect mode for an image...

 Display the image you wish to unlock, and perform steps 2 to 5. The protect indicator disappears, and the image is unlocked.



PROTECTING/ERASING IMAGE DATA

Erase unneeded data

Images and video clips can be erased one frame at a time, or groups can be erased one group at a time.

2 Display the Playback Settings screen (see page 29).

Display the data that you want to erase.

3 Select the erase icon [1].

1

4 Press the [SET] button.

• The Erase Mode Selection screen appears.

<To erase still images>

- [ONE ERASE]: Erases one still image at a time.
- [GROUP ERASE]: Erases all the still images. [EXIT]: Returns to the Playback Settings screen.

<To erase sequential shots>

- [ONE ERASE]:
 Erases one still image at a time.

 [GROUP ERASE]:
 Erases the entire folder for the sequential shot display (the data for the other sequential shots remains).
- [EXIT]: Returns to the Playback Settings screen.



100-0046<mark>1280</mark>

E 1

<To erase video clips>

[ONE ERASE]:	Erases all the images in the displayed video clip.	
[GROUP ERASE]:	Erases all the video clips.	
[EXIT]:	Returns to the Playback	
	Settings screen.	

5 Press [▲] or [▼] on the arrow button to select the desired erase mode, and press the [SET] button.

- The Erase Confirmation screen appears.
 - [YES]: The selected data will be erased.
 - **[EXIT]:** The selected data is not erased, and the display returns to the Erase Mode Selection screen.

6 Select [YES], and press the [SET] button.

<If [ONE ERASE] was selected>

• [ERASING] appears while the data is being erased.

<If [GROUP ERASE] was selected>

- The Erase Confirmation screen appears once more. Select [YES], and press the [SET] button to erase the data.
- When all the data has been erased, [NO IMAGE] appears on the screen.

HINT

To continue erasing other image data...

 After step 5, press [◄] or [▶] on the arrow button to display the desired image, and repeat step 6.





COPYING TO THE CARD

You can copy internal memory data to the card.

- 1 Insert a card and display the Shooting Settings screen.
 - The following steps can also be performed from the Playback Settings screen (see page 29).
- 2 Select [💽] from the shooting mode menu.
- **3** Press the [SET] button.
 - The Options screen appears.
- 4 Select [COPY TO CF], and press the [SET] button.
 - The Card Copy screen appears.
 [COPY]: Data will be copied to the card.
 [EXIT]: The data will not be copied.

5 Select [COPY], and press the [SET] button.

- Copying begins.
- When copying has completed, the display returns to the Options screen.



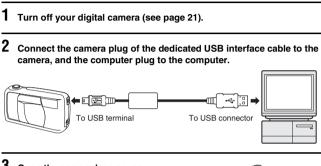






USING WITH A COMPUTER

Install the software on the included CD-ROM (Sanyo Software Pack) before connecting the camera to a computer. The camera can be accessed as an external drive when connected to a computer. See the Sanyo Software Pack instruction manual for more information about software installation.



3 Open the camera lens cover.

HINT

• When the digital camera is connected to a computer, no image is shown on the camera's LCD monitor.

PRESERVING THE RECORDED IMAGES

Saving images

The captured pictures can be saved by downloading to your computer's hard disk, or by printing through a lab service.

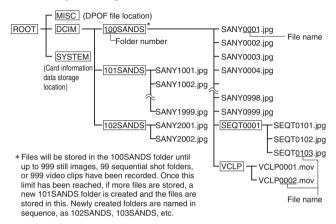
- To save images to a computer, please see the instruction manual of the Sanyo Software Pack (included CD-ROM).
- To use a lab service, please contact a digital print service for digital cameras or access an Internet print service.

Data formats

The format of data saved on the card or into the internal memory, as well as the method of determining file names, are explained below.

 Still image data 				
Data format:	JPEG			
File name structure:	File name starts with SANY, with extension .jpg.			
	Ex.: SANYxxxx.jpg			
	xxxx represents the sequential number assigned to the recorded image.			
 Sequential shot image data 				
Data format:	JPEG			
File name structure:	File name starts with SEQT, with extension .jpg.			
	Ex.: SEQTxxyy.jpg			
	xx represents the sequential shot folder number (2 digits)			
	yy represents the sequential number assigned to the recorded image (2 digits)			
 Video clip data 				
Data format:	QuickTime Movie			
File name structure:	File name starts with VCLP, with extension .mov.			
	Ex.: VCLPxxxx.mov			
	xxxx represents the sequential number assigned to the recorded image.			

Directory configuration of recorded data



CAUTION

Do not modify card data using your computer

 Images recorded with the digital camera are assigned file names and saved in specific folders based on the system explained above. For this reason, if you use a commercial card adapter or the like to modify the file names directly from your computer, the digital camera may not be able to play back the images or may otherwise not work properly.

NOTE

About video clip data recorded with the digital camera

 Video clips can be played back with QuickTime Ver. 3.0 or higher, from Apple Computer, Inc. QuickTime 5.0 for Windows/Macintosh is available on the included CD-ROM (Sanyo Software Pack).

REQUESTING PRINTING

You can have phtographs made of the still images using a printer or taking them to a shop that provides digital print services.

To have images from sequential shots and video clips printed, the images must first be copied and saved as still images (see page 50). Also, to print images that are stored in the internal memory, first copy the images to a card (see page 55) and follow the steps below.

- 1 Insert a card and display the still image you wish to have printed (see page 31).
- 2 Display the Playback Settings screen (see page 29).
- $\textbf{3} \hspace{0.1in} \textbf{Select the print icon [} \blacksquare \textbf{]}.$
- 4 Press the [SET] button.
 - The Print Setting screen appears.
 - [STD PRINT]: To print one image on one sheet.
 - [ALL CLEAR]: To clear the print settings.
 - [EXIT]: To return to the Playback Settings screen.



100-004612

Ē

5 Select [STD PRINT], and press the [SET] button.

- The Copies Printout screen appears.
- Press [◄] or [▶] to continue settings for other images.



6 Press [▲] or [♥] on the arrow button to specify the number of prints.

• The number of prints can be set from 0 to 10.

7 Press the [SET] button.

- This completes the setting for the number of prints.
- The display returns to the Print Setting screen.
- To continue setting the number of prints for the other image data, repeat steps 5 to 7.

HINT

To clear the print settings...

 In step 4 select [ALL CLEAR], and press the [SET] button. A confirmation screen appears. Select [YES], press the [SET] button, and the print settings will be cleared.

NOTE

- This digital camera conforms to DPOF standards, so if the card is taken to a shop that handles the DPOF standard, you can specify—using your digital camera—the number of prints and whether to include the date on the prints.
- The quality of the prints will differ depending on the print service and the printing equipment.
- For more information about printing images, please consult a shop providing digital print services.

About the DPOF standard

 DPOF is one of the print order standards. The print specifications can be set using the digital camera, and very efficient prints can be produced. It also enables the use of DPOF-compatible printers.

SETTING THE DATE AND TIME

The clock in the digital camera records the date and time that a picture is taken and can display it during playback. To display the date and time when playing back images, the date and time settings must be completed before the pictures are taken.

Example: To set the clock to 7:30 p.m., August 28, 2002

1 Display the Shooting Settings screen.

- The following steps can also be performed from the Playback Settings screen (see page 29).
- 2 Select [3] from the shooting mode menu.

3 Press the [SET] button.

- The Options screen appears.
- 4 Select [CLOCK SET], and press the [SET] button.
 - The Clock Set screen appears.
 - The current date and time settings are shown.

Shooting mode menu





EXIT



5 Set the date.

• The date is set in YEAR \rightarrow MONTH \rightarrow DAY order.

OPress the [SET] button.

- The year indication changes to orange.
- $[\blacktriangle]$: The number decreases.
- [▼]: The number increases.
- [SET] button or [◄] [►]: Moves to the next item.
- After the date has been set, press the [SET] button.





6 Set the time.

- The time is set in HOUR \rightarrow MINUTE order.
 - Press [▼] on the arrow button to select the [TIME] indication.

Press the [SET] button.

- The hour indication changes to orange.
- $[\blacktriangle]$: The number decreases.
- [▼]: The number increases.
- [SET] button or [▶]: Moves to the next item.
- After the minute has been set, press the [SET] button.
 - The display returns to the screen in step ①.







SETTING THE DATE AND TIME

7

Set the date display.	OCLOCK SET
 Press the [SET] button. The current indication changes to orange. Press [▼]. Each time [▼] is pressed, the display changes in the following order:	OCLOCK SET
 After selecting the date display, press the [SET] button. The display returns to the screen in step ①. 	OCLOCK SET DATE 2002/08/28 TIME 19:30 DSPON Y/M/D EXIT

8 Select [EXIT], and press the [SET] button.

• The date and time settings are completed, and the display returns to the screen in step 3.

HINT

If the date and time are not set...

 June 1, 2001, 00:00 (midnight) becomes the set time, and during playback the displayed time will show as "2001/06/01 00:00".

To correct the date and time setting

- On the screen in step 4, press [▼] on the arrow button to select the line you wish to correct.
- 2 Press [>] to select the indication you wish to correct.
- ③ Press [▲] or [▼] on the arrow button to correct the indication.
- ④ Press the [SET] button.

Check the clock after changing the batteries.

 When you replace the batteries, the internal clock setting is usually backed up for up to 15 minutes. However, depending on how long the batteries have been used, in some cases the date and time setting may be cleared. For this reason, after changing the batteries and before taking pictures, it is recommended that you check that the clock setting is correct (steps 1 through 4).

SETTING THE OPERATION SOUND

You can set whether or not the operation confirmation sound (beep) is heard when the shutter release, [SET], [MODE], or other button is pressed.

- The following steps can also be performed from the Playback Settings screen (see page 29).
- 2 Select [Sec] from the shooting mode menu.

Display the Shooting Settings screen.

- **3** Press the [SET] button.
 - The Options screen appears.





Select [BEEP], and press the [SET] button. The Beep Sound Setting screen appears. [ALL]: A beep is heard when any button is pressed. [SHUTTER]: A beep is heard only when the shutter release button is pressed.

[OFF]: The beep sound is turned off.

- 5 Select the beep sound setting, and press the [SET] button.
 - The beep sound is set, and the display returns to the Options screen.



HINT

- The beep sound setting is retained even if the main switch is set to [] or [MONITOR OFF], or if the power is turned off.
- The beep sound volume cannot be adjusted.

CHANGING THE DISPLAY LANGUAGE

You can select from the following languages for the LCD monitor display: Japanese, English (initial setting), French, German, Spanish

- 1 Display the Shooting Settings screen.
 - The following steps can also be performed from the Playback Settings screen (see page 29).



2 Select [E] from the shooting mode menu.

3 Press the [SET] button.

• The Options screen appears.



- The Language Setting screen appears.
- Select from Japanese, English, French, German, and Spanish.
- 5 Select the language, and press the [SET] button.
 - The display language is set, and the display returns to the Options screen.



HINT

• The display language setting is retained even if the main switch is set to []] or [MONITOR OFF], or if the power is turned off.

CHECKING THE REMAINING BATTERY Charge

The remaining battery charge can be confirmed on the LCD monitor, and it is recommended that you check it before taking pictures. For information on the battery operation time, please see "Battery Operation" on page 79.

1 Set the main switch to [▶] or [◘].

• If the main switch is set to [1], open the lens cover.



2 Select any shooting or playback mode other than [🛌].

• The remaining battery charge is indicated in the lower-right corner of the LCD monitor.

Battery indication	Remaining charge	
No indication	From full to about 1/4 full	
	From about 1/2 full to less than 1/4 full	
	Replace the batteries. It will soon be impossible to take pictures. (When this status is reached, the indication will be displayed continually on the LCD monitor.)	

HELP

If the LCD monitor suddenly turns off...

 When taking pictures using the LCD monitor and the battery charge becomes low, the LCD monitor may turn off briefly. This is to suppress battery power consumption when the flash is recharging. When the flash has recharged, the LCD monitor will turn on again.

HINT

- Depending on the characteristics of the batteries, the [I] indication may appear prematurely when the temperature is low. The indication may also change depending on the surrounding temperature and other conditions, so therefore should be thought of as a general indication of the remaining battery charge.
- The remaining battery indication is displayed as above only when alkaline batteries (supplied) are used. The indication is not correctly displayed when Ni-Cd or other batteries are used.
- Battery life may differ even among batteries of the same type.
- Battery consumption differs depending on the shooting conditions (how many times the flash is used, whether or not the LCD monitor is used) and surrounding conditions (low temperatures below 10°C), and the number of pictures that can be taken changes significantly.

NOTE

 It is recommended that spare batteries be kept on hand when traveling, at weddings, etc., and in cold weather conditions when battery consumption is high. In cold outdoor environments (when skiing, for example) the batteries can be kept warm by keeping them in your pocket.

CHECKING THE REMAINING NUMBER OF IMAGES AND RECORDING TIME

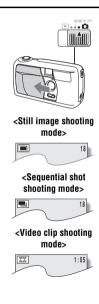
For information about the card's and internal memory's capacity, please see "Possible No. of Images/possible Shooting Time" on page 80.

 To check the number of pictures or time remaining in the camera's internal memory, do not insert a memory card.

1 Set the main switch to [

2 Open the lens cover.

- Select any shooting mode other than [].
- The remaining number of images appears in the upper right of the LCD monitor (for the still image and sequential shot shooting modes).
- The remaining video recording time appears in the upper right of the LCD monitor (for the video clip shooting mode).
- The remaining number of images and video clips differs depending on the resolution and compression rate settings.
- When the indication for the remaining number of images or video clips becomes 0, no more images can be recorded. To record more images, either replace the card with another one, or save the recorded card data (see page 57) and then erase the card (see page 53).
- Even when the indication for the remaining number of images or video clips becomes
 0, in some cases further recording may be possible if you change the shooting mode, lower the resolution (see page 37), and/or increase the compression rate (see page 39).



TROUBLESHOOTING

	Problem	Cause & Solution	Ρ.		
	The power does	The batteries are consumed.			
	not turn on.	\Rightarrow Replace with new batteries.			
		The batteries are not inserted correctly.			
		\Rightarrow Reinsert the batteries, making sure the polarity	15		
		(+ and –) is as indicated.	15		
		The battery compartment cover is not fully closed.			
		⇒Close the battery compartment cover			
er		completely.			
Power		Due to cold temperatures, the batteries			
ď.		temporarily lost their power.	69		
		\Rightarrow Place the batteries in your pocket, for example,	00		
		to warm them up before using them.			
	The power	The AC adapter (sold separately;			
	saving function	VAR-G5U/E/EX) is connected to the camera.			
	does not	\Rightarrow This is not a malfunction. When the AC adapter	—		
	activate.	is connected to the camera, the power saving			
		feature will not activate for at least 30 minutes.			
	The picture is	The power is not turned on.			
	not taken when	\Rightarrow When the power save function is active, press			
	the shutter	the [MODE] button, or press the shutter	22		
	release button	release button once to restore the power.			
	is pressed.	The standby indicator is flashing (the camera is			
		preparing to take a picture).	21		
		\Rightarrow Wait until the standby indicator lights to take	21		
Shooting		the picture.			
oti		The memory is full (the standby indicator flashes			
٩ ۲		quickly, and the remaining images indication on			
S		the LCD monitor shows "0".)			
		\Rightarrow Replace the card.	17		
		\Rightarrow Remove the card and use the internal memory.			
		Or, when using the internal memory, insert a			
		card.			
		\Rightarrow Erase unneeded pictures to free some memory.	53		
	Save the pictures you want to keep before				
		erasing data.	57		

TROUBLESHOOTING

	Problem	Cause & Solution	Ρ.		
	The flash does	The flash off mode is set.			
	not work.	\Rightarrow Set the flash to the forced flash mode or	43		
		automatic flash mode.			
		The camera has detected that the subject is bright			
		enough and does not require the flash.	—		
p		\Rightarrow This is not a malfunction. Take the picture as is. The batteries are consumed.			
Ę		\Rightarrow Replace with new batteries.	15		
Shooting	The brightness	The exposure may not change in some instances,			
S	doesn't change	depending on the surrounding brightness.			
	in AE shift shots.	\Rightarrow This is not a malfunction.			
	Flare (lines or	Flare may appear in pictures where the subject is	_		
	patterns of light)	lit from behind.			
	appears in the	\Rightarrow Avoid photographing subjects that are			
	picture.	positioned in front of bright light sources.			
	When used in	A phenomenon due to the characteristics of the			
	cold weather,	liquid crystals.			
	the image may	\Rightarrow This is not a malfunction. The dots appear on			
	seem to leave	the LCD monitor screen but are not recorded in			
	traces as it	the image.			
	moves.	-			
	Shining red,	A phenomenon due to the characteristics of the	1		
	blue or green	liquid crystals.			
	dots appear on	\Rightarrow This is not a malfunction. The dots appear on			
2	the screen, or	the LCD monitor screen but are not recorded in			
n <u>i</u> t	small black dots	the image.			
LCD monitor	are visible.				
ā	The area	A phenomenon due to the construction of the			
LC	around the LCD	internal parts.			
	monitor is warm.	\Rightarrow This is not a malfunction.			
	When taking a	The main switch is set to [MONITOR OFF].			
	picture, the	\Rightarrow Set the main switch to [
	image is not		23		
	displayed on				
	the LCD				
	monitor.	The main quitch is not eat to []	-		
	The playback	The main switch is not set to $[\blacktriangleright]$. \Rightarrow Set the main switch to $[\frown]$.			
	image is not		29		
	displayed.				

Dewnload from Www.Somanuals.com. All Manuals Search And Download.

	Problem	Cause & Solution	Ρ.				
	The focus does	The subject is too close to the camera.					
	not work.	The macro switch setting is not correct.					
		\Rightarrow For distances between 20 and 50 cm, set the					
		macro switch to [🏶] (macro photography). For	41				
		subjects at least 50 cm from the camera, set					
		the macro switch to normal photography (no					
		macro photography indication).					
		The camera moved when the shutter release	24				
		button was pressed.	27				
		\Rightarrow Hold the camera correctly, and slowly press	28				
		the shutter release button.	20				
		The lens is dirty.	24				
Viewing images	·	⇒Clean the lens.	- ·				
าลดู	The image is	The flash was blocked by a finger or the like.					
in	too dark.	⇒Hold the camera correctly, making sure the					
ng		flash is not obstructed.					
₩.		The subject was too far away.					
Vie		⇒Take the picture within the effective flash range. The subject was lit from behind.	43				
		\Rightarrow Use the forced flash mode.					
		\Rightarrow Correct the exposure.	45				
	The image is	The forced flash mode was set.					
	too bright.	\Rightarrow Select a flash mode other than the forced flash	43				
	coo brighti	mode.					
		The subject was too bright.					
		\Rightarrow Change the angle of the camera.	—				
		⇒Correct the exposure.	45				
	The colors of	This is due to ambient lighting.					
	images taken	\Rightarrow Take the picture using the forced flash mode.					
	indoors are not		43				
	correct.						

TROUBLESHOOTING

	Problem	Cause & Solution	Ρ.			
	A part of the	The lens was blocked by a finger or the				
	picture is	hand-strap.	24			
	missing.	\Rightarrow Hold the camera correctly, and make sure the	24			
		lens is not obstructed.				
		The picture was taken at close range.				
		\Rightarrow When the subject is close to the camera, use	41			
		the LCD monitor to confirm the composition of				
		the picture.				
ŝ	No image ([?]]	This may happen when trying to play back	31			
lge	is displayed.)					
ma		camera.	32 33			
g		⇒Play back pictures from a card recorded using this camera.	33			
vin	An image	The image with the number was erased.				
Viewing images	number seems	\Rightarrow This is not a malfunction.				
-	to be missing in					
	the 9-multiple					
	display					
	[NO IMAGE]	There is no image for the selected mode.	29			
	appears.	\Rightarrow Select a playback mode for which images exist.				
	Vertical stripes	When sequential shots or video clips are taken of				
	are present in	a bright subject, vertical stripes may occur on the				
	the image.	LCD monitor and recorded image.				
		⇒This is not a malfunction.				
	[MEMORY	There is not enough available internal memory or				
	FULL] appears.	memory on the card.	53			
	[CARD FULL]	⇒Erase unnecessary images. When copying a card, erase unnecessary images on the card	55			
	appears.	you wish to copy data to.				
e		\Rightarrow Replace the card.	17			
Other	[PROTECTED]	Images are protected.	17			
U	appears and	\Rightarrow Remove the protection.				
	images can't be	· · · · · · · · · · · · · · · · · · ·				
	erased.		51			
	Some images					
	can't be erased.					
	carri be cracea.					

	Problem	Cause & Solution	Ρ.
	The camera cannot be operated.	A temporary internal circuitry problem may be the cause. ⇒Remove the batteries from the camera, wait a few minutes, then reinstall the batteries and try again.	
Other	[SYSTEM ERROR] is displayed.	 A problem has occurred within the camera or card. ⇒ Try the following measures. ① Remove the card, and then install it again. ② Remove the batteries, and then install them again. ③ Remove the batteries, wait about 1 hour, and then install them again. ④ Install a different card. ⇒ If the [SYSTEM ERROR] message still appears after the above measures are performed, take the camera to a dealer for service. 	_

SPECIFICATIONS

Digital Camera

Туре	CCD digital camera (recording and playback)					
Recording system	Digital recording					
Image file format	Still images: JPEG format (DCF and DPOF compliant)					
	Note: Designed mainly by Japan Electronic Industry Development Association (JEIDA), DCF (Design rules for camera file system) is standard for digital still camera image files to provide interoperability between digital photography devices for the images stored on removable memory cards. However, it is not guaranteed that all devices will support the DCF standard.					
	Video clips: QuickTime Movie					
Data storage media	Internal memory: 2MB (for image storage: about 1MB) External memory: CompactFlash (Type I only)					
Image sensor	1/2.8 inch frame transfer CCD, image pickup elements: about 1,360,000 pixels (effective about 1,300,000 pixels), progressive scan, primary color filter					
Recording resolution	 1,280 x 960 pixels (still images and sequential shots only) 640 x 480 pixels (still images and sequential shots only) 320 x 240 pixels (video clips only) 160 x 120 pixels (video clips only) 					
Video clip frame rate	15 fps					
Data compression	FINE (low compression) (still images and sequential shots only) NORM (moderate compression) (still images and sequential shots only)					
White balance	Full-auto TTL					
Lens	f=5.7mm Fixed (35mm film camera conversion f=38mm) 5 groups, 5 elements					

Aperture		F2.8, F5.6 (automatic)		
Exposure control type		Aperture and shutter programmable exposure control		
		Exposure correction available from the Shooting Setting Screen		
Range		50 cm to infinity (normal photography),		
		20 cm to 50 cm (macro photography)		
Digital zo	om	For shooting		
		Resolution 640: 1x to 2.0x		
		Resolution 320 160: 1x to 4.0x		
		For playback		
01 11		1x to 20x (varies with the resolution)		
Shutter		Still image shooting mode: 1/4 to 1/500 sec. (Flash:		
		1/30 to 1/500 sec.) and Sequential shot video clip shooting modes: 1/30 to 1/500 sec.		
O a se a lati site				
Sensitivit		Auto (equivalent to ISO20 to 100)		
Viewfinde		Optical direct image viewfinder		
LCD mor	hitor	1.5 inch low temperature polysilicon TFT color		
		liquid crystal		
LCD mor	nitor pixels	Approx. 110,000 pixels		
Flash wo	rking range	0.5m to 2.1m (normal shooting),		
		0.2m to 0.5m (macro shooting)		
Flash mo	des	Auto-flash, forced flash, flash off, and red-eye reduction		
Focus		Pan focus		
Self-timer		10-second delay		
Time/date	9	Recorded with image data (automatic calendar from 2000 to 2037)		
Ambient Temperature 0 to 40°C (operation), -20 to 60°C (storage)		0 to 40°C (operation), -20 to 60°C (storage)		
environ- Humidity 30 to 90% (operation, no condensation),		30 to 90% (operation, no condensation),		
ment		10 to 90% (storage, no condensation)		

SPECIFICATIONS

Power supply	Battery	 4 AA alkaline batteries also: 4 AA Ni-Cd batteries (Sanyo N-3US) 4 AA Ni-MH batteries (Sanyo HR-3USV) 2 lithium batteries (CR-V3) Manganese batteries cannot be used. 	
	AC adapter (sold separately)	VAR-G5EX (for VPC-R1EX) VAR-G5E (for VPC-R1E) VAR-G5U (for VPC-R1)	
Dimensions		121 (W) x 65 (H) x 38 (D) mm	
Weight		Approx. 180 g (without batteries and card)	

Digital Camera Connectors

USB terminal	USB connector	USB port		
DC IN (external DC	DC 7.0 V (for exclusive use with separately sold AC			
power input) terminal	adapter)			

Battery Operation

Shooting	980 images:	LCD monitor off, images captured in 20-second intervals, and flash used 1 in 3 times
	350 images:	LCD monitor on, images captured in 20-second intervals, and flash used 1 in 3 times
Playback	5 h. 30 min.:	LCD monitor on, and continuous playback

- Until batteries run out when using a 32 MB CompactFlash card (KA-DSM-C32G) and batteries (fully charged) at a 20°C ambient temperature.
- The time of operation may vary depending on the conditions of the batteries and the conditions of use. Especially when used at temperatures below 10°C, the battery operation time is drastically reduced.

Possible No. of Images/Possible Shooting Time

This table shows the possible number of images and possible shooting times when using a commercially available 32MB CompactFlash card and the internal memory.

Shooting	Resolution (Internal memory		CompactFlash (32MB)	
mode		Compression	One shooting	Total	One shooting	Total
	1280	FINE	-	2	-	80
Still image	1200	NORM	-	3	—	125
	640	FINE	-	10	—	334
	040	NORM	-	15	—	505
	1280	FINE	2	2	3	80
Sequential		NORM	3	3	3	125
shot	640	FINE	3	10	3	334
		NORM	3	15	3	505
Video clip	320	_	_	3 sec.	15 sec.	1 min. 59 sec.
vidoo onp	160	_	_	7 sec.	30 sec.	4 min. 38 sec.

One shooting: Maximum no. of images, shooting time when the shutter release button is pressed once.

Total: Maximum no. of images, shooting time that can be stored.

- Even with cards of the same capacity, the amount of data that can actually be stored may differ depending on the card brand, etc.
- Products are subject to change in design and specifications without notice and without incurring any obligation.

ICON INDEX

Shooting mode display

Shooting settings indicators

	Still image icon	
	Sequential shot icon	
	Video clip icon	
» •c	Options icon	35
EXP	Exposure correction icon	36
###	Zoom icon	36
٢	Macro indicator	41
REC	Recording indicator	41

Playback mode display

Image information indicators

1280	640 320 160 Resolution indicator	30
	Compression indicator	
	Protect indicator	52
	Print setting status	59
~	Playback zoom indicator	49

Camera condition indicators

\mathbf{X}	No card icon	18
	Remaining battery charge indicator	69



SANYO Electric Co., Ltd.

Download from Www.Somanuals.com. All Manuals Search And Download.

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com