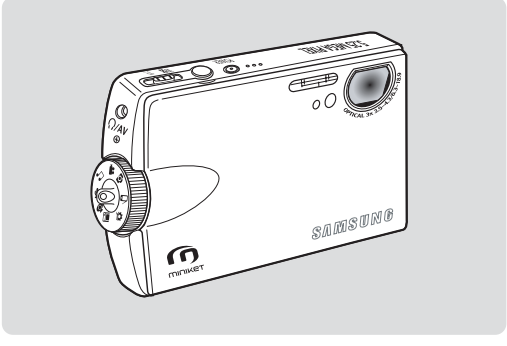
ENGLISH

Digital Camera / Camcorder

SC-MS10/MS11/MS15



AF Auto Focus
CCD Charge Coupled Device
LCD Liquid Crystal Display

Owner's Instruction Book

Before operating the unit, please read this Instruction Book thoroughly, and retain it for future reference.

US PATENT 4415844

Use only approved battery packs.
Otherwise there is a danger of overheating, fire or explosion.
Samsung is not responsible for problems occurring due to using unapproved batteries.

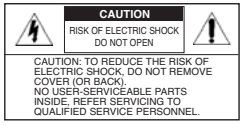
ENGLISH

Notices and Safety Instructions

Safety Instructions

Shock Hazard Marking and Associated Graphical Symbols

Explanation of Safety Related Symbols



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING - To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Apparatus To Rain Or Moisture.

1. **Read these instructions.**
2. **Keep these instructions.**
3. **Heed all warnings.**
4. **Follow all instructions.**
5. **Do not use this apparatus near water.**
6. **Clean only with dry cloth.**
7. **Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.**
8. **Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**
9. **Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet. Consult an electrician for replacement of the obsolete outlet.**
10. **Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.**
11. **Only use attachments/accessories specified by the manufacturer.**
12. **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.**

13. **Unplug this apparatus during lightning storms or when unused for long periods of time.**
14. **Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been moisture, does not operate normally, or has been dropped.**

Notices and Safety Instructions

15. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

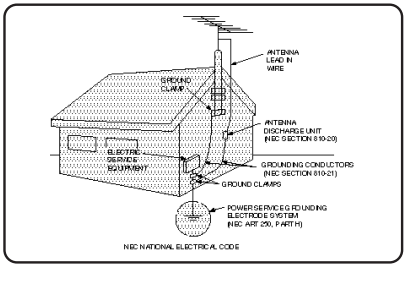
16. VENTILATION:
Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the CAMCORDER and to protect it from overheating. These openings must not be blocked or covered. Never place your CAMCORDER on a bed, sofa, rug, or other similar surface: on or near a radiator or heat register. This CAMCORDER should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

17. POWER SOURCES:
The CAMCORDER should be operated only from the type of power source indicated on the label.
If you are not sure of the type of power supply at your home, consult your appliance dealer or local power company.
A CAMCORDER is intended to be operated from battery power, or other sources, refer to the operating instructions.

18. GROUNDING OR POLARIZATION:
This CAMCORDER may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your outlet. Do not defeat the safety purpose of the polarized plug.

19. POWER-CORD PROTECTION:
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords or plugs, convenient receptacles, and the point where they exit from the unit.

20. OUTDOOR ANTENNA GROUNDING:
If an outside antenna or cable system is connected to the CAMCORDER, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire and supporting structure, grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding to conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.
See figure below.



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Notices and Safety Instructions

21. LIGHTNING:
For added protection of this CAMCORDER during a lightning storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.
This will prevent damage to the CAMCORDER due to lightning and power-line surges.

22. POWER LINES:
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

23. OVERLOADING:
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

24. OBJECTS AND LIQUIDS:
Never push objects of any kind into this CAMCORDER through openings as they may touch dangerous voltage points or short out a part that could result in a fire or electric shock.
Never spill liquids of any kind onto the CAMCORDER. Should spillage occur, unplug unit and have it checked by a technician before use.

25. SERVICING:
Do not attempt to service this CAMCORDER yourself. Opening or removing covers may expose you to dangerous voltage or other hazards.
Refer all servicing to qualified service personnel.

26. DAMAGE REQUIRING SERVICE:
Unplug this CAMCORDER from the wall outlet and refer servicing to qualified service personnel under the following conditions:
a. When the power-supply cord or plug is damaged.
b. If any liquid has been spilled onto, or objects have fallen into the CAMCORDER.
c. If the CAMCORDER has been exposed to rain or water.
d. If the CAMCORDER does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the CAMCORDER to its normal operation.
e. If the CAMCORDER has been dropped or the cabinet has been damaged.
f. When the CAMCORDER exhibits a distinct change in performance, this indicates a need for service.

27. REPLACEMENT PARTS:
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer and having the same characteristics as the original part.
Unauthorized substitutions may result in fire, electric shock or other hazards.

28. SAFETY CHECK:
Upon completion of any service or repairs to this CAMCORDER, ask the service technician to perform safety checks to determine that the CAMCORDER is in safe operating order.

Notices and Safety Instructions

29. To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.

30. If this power supply is used at 240V ac, a suitable plug adapter should be used.

NOTE TO CATV SYSTEM INSTALLER:
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

USER INSTALLER CAUTION:
Your authority to operate this FCC certified equipment could be voided if you make changes or modifications not expressly approved by this party responsible for compliance to part 15 FCC rules.

NOTE:

(Hg) LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. For details see lamprecycle.org, eiae.org, or call 1-800-Samsung

NOTE: 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 and for additional suggestions.
  The user may find the following booklet prepared by the Federal Communications Commission helpful : "How to Identify and Resolve Radio-TV Interference Problems."
  This Booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

FCC Warning
The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC ID : A3L05SAM1
This device complies with Part 15 of 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.

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Notices and Safety Precautions

Precautions on Miniket Photo Care

- ✣ Please note the following precautions for use:
- ✣ Please keep this device in a safe place. The device contains a lens that can be damaged by shock. Keep out of reach of children.

- ■ Please note the following precautions for use:
- ■ Do not place your device in a wet place. Moisture and water may cause the device to malfunction.
- ■ To avoid electric shock, do not touch your device or power cable with wet hands.
- ■ Do not use the flash close to someone else's eyes. The flash emits a strong light that may cause damage similar to direct sunlight on one's eyesight. Particular care should be observed if photographing infants, when the flash should be no less than 3 feet from your subject.
- ■ If the device is not working properly, please consult your nearest dealer or authorised SAMSUNG service centre.
- ■ Disassembling the device by yourself may cause irrecoverable damage which will be difficult to repair.
- ■ Clean the device with a dry, soft cloth. Use a soft cloth moistened with a mild detergent solution for removing stains. Do not use any type of solvent, especially benzene, as it may seriously damage the finish.
- ■ Keep your device away from rain and saltwater. After using, clean the device. Saltwater may cause the parts to corrode.

Notices and Safety Precautions

Notes Regarding COPYRIGHT

- Television programmes, movie video tapes, DVD titles, films and other programme materials may be copyrighted. Unauthorised recording of copyrighted materials may infringe on the rights of the copyright owners and is contrary to copyright laws.
- All the trade names and registered trademarks mentioned in this manual or other documentation provided with your Samsung product are trademarks or registered trademarks of their respective holders.

Notes Regarding Moisture Condensation

1. **A sudden rise in atmospheric temperature may cause condensation to form inside the device.**

For Example:

- Entering or leaving a heated place on a cold day might cause condensation inside the product.
- To prevent condensation, place the product in a carrying case or a plastic bag before exposing it to a sudden change of temperature.

Notes Regarding the Miniket Photo

1. **Do not leave the device exposed to high temperature (above 60°C or 140°F).**
   For example, in a parked closed car in summer or exposed to direct sunlight.
2. **Do not let the device get wet.**
   Keep the device away from rain, salt water, or any other form of moisture.
   The device will be damaged if immersed in water or subjected to high levels of moisture.

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Notices and Safety Precautions

Notes Regarding the Battery Pack

- It is recommended to use original Battery Pack that is available at SAMSUNG service center.
- Make sure the Battery Pack is fully charged before starting to record.
- To preserve battery power, keep the device turned off when you are not operating it.
- If your device is left in STBY mode without being operated for more than 5 minutes, it will automatically turn itself off to protect against unnecessary battery discharge.
- Make sure that the Battery Pack is attached firmly in place.
- The new Battery Pack provided with the product is not charged.
  Before using the Battery Pack, you need to fully charge it.
- Do not drop the Battery Pack. Dropping the Battery Pack may damage it.
- Fully discharging a Lithium Polymer battery damages the internal cells. The Battery Pack may be prone to leakage when fully discharged.
- To avoid damage to the Battery Pack, make sure to remove the battery when no charge remains.
  Clean the terminal to remove foreign substances before inserting the Battery Pack.

✳ When the battery reaches the end of its life, please contact your local dealer.
Batteries must be disposed of as chemical waste.

✳ Be careful not to drop the Battery Pack when you release it from the device.

Note Regarding a Trademark

- The logos regarding DivX, DivX Licensed are the trademark of DivX, Network, Inc and can be used after contracting license.

Notices and Safety Precautions

Note Regarding the Lens

- Do not film with the Miniket Photo's lens pointing directly at the sun.
  Direct sunlight can damage the CCD (Charge Coupled Device, the imaging sensor).

Notes Regarding the LCD Display

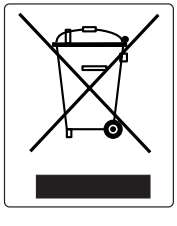
1. The LCD monitor has been manufactured using the high precision technology. However, there may be tiny dots (red, blue or green in color) that appear on the LCD monitor. These dots are normal and do not affect the recorded picture in any way.
2. When you use the LCD monitor under direct sunlight or outdoors, may be difficult to see the picture clearly.
3. Direct sunlight can damage the LCD monitor.

Precautions Regarding Service

- Do not attempt to service the device yourself.
- Opening or removing covers may expose you to dangerous electricity or other hazards.
- Refer all servicing to qualified service personnel.

Precautions Regarding Replacement Parts

- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer and with the same characteristics as the original part.
- Unauthorised substitutions may result in fire, electric shock or other hazards.



Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

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Getting to know your Miniket Photo

Features

- **Integrated Digital Camcorder / DSC operation**
  An integrated digital imaging device that easily converts between a Digital camcorder and a Digital Still Camera with comfortable and easy recording.
- **High Resolution Image Quality (Digital Still Camera)**
  Employing 5Mega CCD Pixels with an available maximum resolution of 2592X1944.
- **X15 Digital Zoom**
  Allows the user to magnify an image up to 15x its original size.
- **Colorful TFT LCD**
  A high-resolution(150K) colorful TFT LCD gives you clean, sharp images as well as the ability to review your recorded files immediately.
- **Digital Image Stabiliser (DIS)**
  With the Miniket Photo, you can reduce unstable images by minimizing the effects of natural shaking movements.
- **Various Digital Effects**
  The DSE (Digital Special Effects) allows you to give the film a special look by adding various special effects.
- **USB Interface for Data Transfer**
  You can transfer still images and video files or any other files to a PC using the USB interface.
- **PC Cam for multi-entertaining**
  You can use the device as a PC camera for video chatting, video conferencing, and other PC camera applications.
- **Voice Record / Playback with vast memory**
  You can record voices and store it in the internal memory or mini SD memory card and play back the recorded voice.
- **Plus Advantage, MP3**
  With this device, you can play back MP3 files stored in the internal memory or mini SD memory card (optional accessory). Enjoy your favourite songs with the MP3 files with your Miniket Photo.
- **PictBridge/DPOF Function**
  When you connect the device to a PictBridge-supported printer and DPOF (Digital Printing Order Format) function using a USB cable, you can print your stored pictures without a PC.

Getting to know your Miniket Photo

Accessories Supplied with the Device

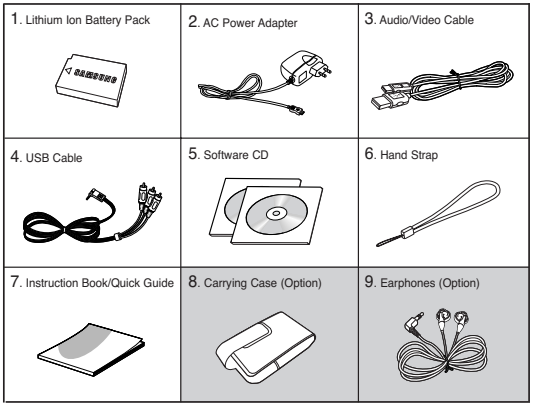
✤ Make sure that the following basic accessories are supplied with your device.

Basic Accessories

1. Lithium Ion Battery Pack
2. AC Power Adapter
3. Audio/Video Cable
4. USB Cable
5. Software CD
6. Hand Strap
7. Instruction Book/Quick Guide

Optional Accessories

8. Carrying Case
9. Earphones



[Notes]

✤ Parts and accessories are available at your local Samsung dealer and service center.

✤ You can download programs, the latest driver software, and CODECs from the Samsung Electronics webpage.

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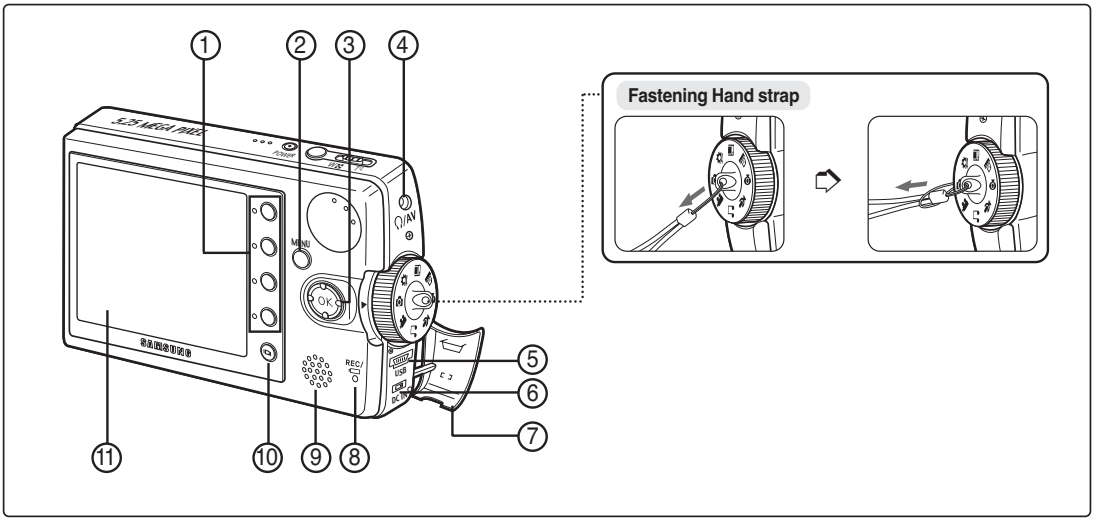
Name of Each Part

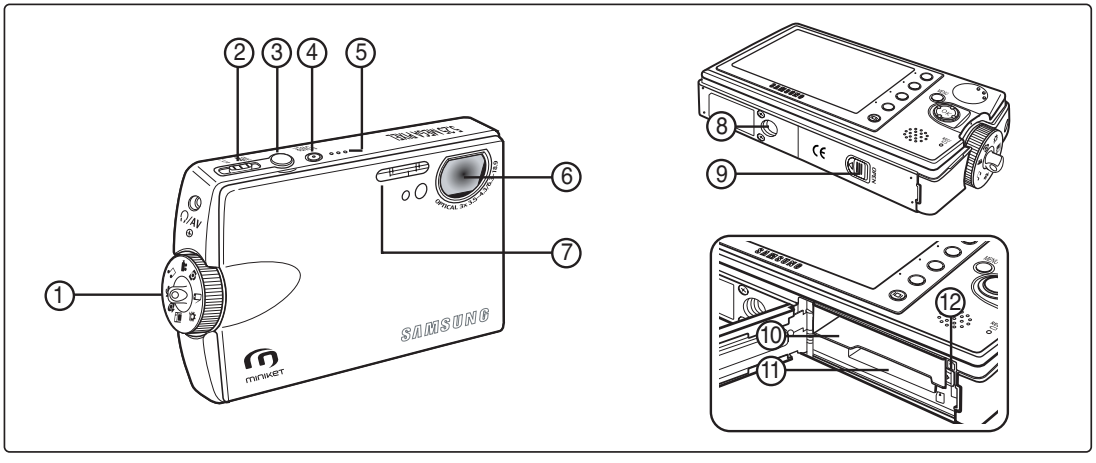
Rear & Left View



1. Shortcut Buttons
2. Menu Button
3. Joystick (Up, Down, Left, Right, OK)
4. Earphones and Audio / Video jack
5. USB port
6. Power Adapter Receptacle
7. Connector Cover
8. Recording / charging Indicator
9. Built-in Speaker
10. Display Button
11. LCD Monitor

Name of Each Part

Front & Bottom View



1. Mode Dial (Mode selector)
2. Zoom Switch
3. Record / Stop Button
4. Power Button
5. Built-in Mic
6. Lens
7. Flash
8. Tripod Receptacle
9. OPEN Switch (Battery / Memory Card Slot)
10. Battery Slot
11. mini SD Memory Card Slot
12. Battery Lock Switch

Usable Memory Card

mini SD Card

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Name of Each Part : LCD Display

OSD (On Screen Display in Photo Capture Mode/Photo View Mode)

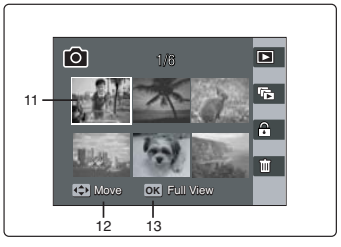
Photo Capture Mode

1. Mode Indicator
2. Image Size Indicator
3. Image Quality Indicator
4. DIS Image Stabiliser
5. White Balance Indicator
6. Multi Shot Indicator
7. EV Indicator
8. Sharpness Indicator
9. Digital Effect Indicator
10. Date / Time Indicator
11. Zoom In / Out Indicator
12. Optical Zoom Indicator
13. Digital Zoom Indicator
14. Flash Indicator
15. Record / Play Indicator
16. Battery Life Indicator
17. Memory type Indicator
18. Free Memory Space Indicator
19. Metering Mode Indicator
20. Scene Mode Indicator

Photo View Mode

1. Mode Indicator
2. DPOF Indicator
3. Image Number
4. Delete Indicator
5. Protection Indicator
6. Slideshow Indicator
7. Record / Play Indicator
8. Battery Life Indicator
9. Memory Type Indicator
10. Image Counter (Current / Total)

Photo View Mode



11. Selected Image
12. Use joystick for change selection
13. Use OK button to view full screen

[Notes]

✤ Functions not marked with * will be retained when the device is restarted after turning it off.

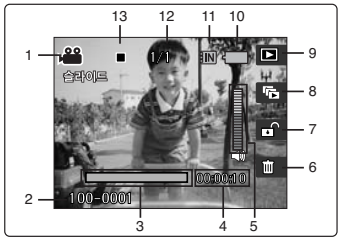
Name of Each Part : LCD Display

OSD (On Screen Display in Movie Record Mode/Movie Play Mode)

Movie Record Mode

1. Mode Indicator
2. Image Size Indicator
3. Image Quality Indicator
4. Macro Indicator
5. Self Timer Indicator
6. Windcut Indicator
7. Date / Time Indicator
8. Zoom In / Out Indicator
9. Digital Effect Indicator
10. White Balance Indicator
11. Program AE Indicator
12. Record / Play Indicator
13. Battery Life Indicator
14. Memory Type Indicator
15. Counter (Elapsed Time)
16. Record / Standby Indicator
17. Remaining Time Indicator

Movie Play Mode



1. Mode Indicator
2. Image Number
3. Playback Progress Bar
4. Counter (Elapsed Time)
5. Volume Indicator
6. Delete Indicator
7. Protection Indicator
8. Slideshow Indicator
9. Record / Play Indicator
10. Battery Life Indicator
11. Memory Type Indicator
12. Image Counter (Current / Total)
13. Standby / Play / Pause Indicator

[Notes]

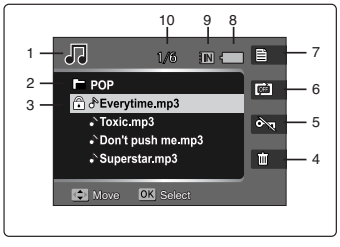
- ✤ Functions not marked with * will be retained when the device is restarted after turning it off.
- ✤ The OSD indicators of this product shown above are based on model VP-MS10.
- ✤ The OSD indicators are based on when using the internal memory for storage.

ENGLISH

Name of Each Part : LCD Display

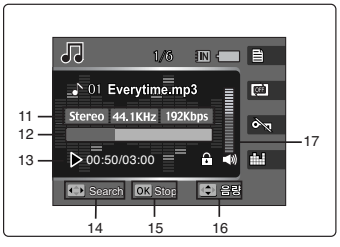
OSD (On Screen Display in Music Play Mode)

Music Play Mode



1. Mode Indicator
2. Current Folder Name
3. File Name
4. Equaliser Indicator
5. Protection Indicator
6. Repeat Indicator
7. Display File List
8. Battery Life Indicator
9. Memory Type Indicator
10. File Counter (Current / Total)

Music Play Mode

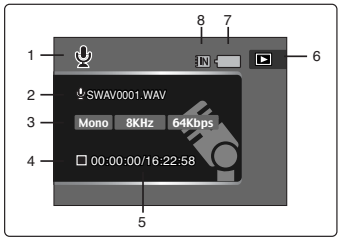


11. Current File Information
12. Progress Bar
13. Counter (Elapsed Time / File Length)
14. Use joystick (Left / Right) to Search / Skip
15. Use OK button to Play / Pause / Stop
16. Use joystick (Up / Down) to adjust volume

Name of Each Part : LCD Display

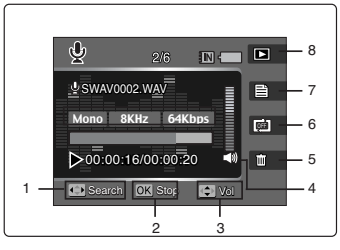
OSD (On Screen Display in Voice Record / Voice Play /System Settings Mode)

Voice Record Mode



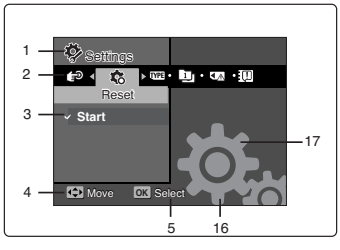
1. Mode Indicator
2. File Name
3. Current File Information
4. Standby / Record Indicator
5. Counter (Elapsed Time / Remaining Time)
6. Record / Play Indicator
7. Battery Life Indicator
8. Memory Type Indicator

Voice Play Mode



1. Use joystick (Left / Right) to Search / Skip
2. Use OK button to Play / Stop
3. Use joystick (Up / Down) to adjust volume
4. Volume Indicator
5. Delete Current File
6. Setup Repeat
7. Display File List
8. Record / Playback

System Settings Mode



1. Mode Indicator
2. Menu Tab
3. Setup Items
4. Use joystick (Left / Right) to move the cursor
5. Use OK button to select

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How to Use the Battery Pack

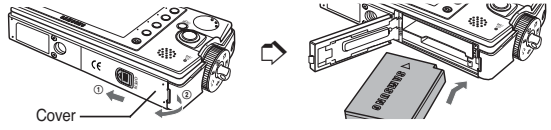
Battery Pack Installation / Ejection

It is recommended to purchase one or more additional Battery Packs to allow continuous use of your device.

To insert the Battery Pack

Insert the Battery Pack into the battery slot until it clicks.

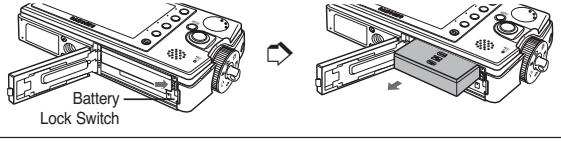
<Inserting the Battery Pack>



To eject the Battery Pack

Pull the [Battery Eject] button to eject the Battery Pack.

<Ejecting the Battery Pack>



[Notes]

- Clean the terminals to remove any foreign substances before inserting the Battery Pack.
- If the device will not be in use for a while, remove the Battery Pack from the device.
- It is recommended to prepare fully charged additional Battery Packs for outdoor use.
- Additional Battery Packs are available at your local Samsung dealer and service center.

[Warning]

- When you eject the Battery Pack from the device, hold the Battery Pack so as not to drop it.

How to Use the Battery Pack

Maintaining the Battery Pack

- The Battery Pack should be recharged in an environment between 32°F (0°C) and 104°F (40°C).
- The Battery Pack should never be charged in a room temperature that is below 32°F (0°C).
- The life and capacity of the Battery Pack will be reduced if it is used in temperatures below 32°F (0°C) or left in temperatures above 104°F (40°C) for a long period.
- Do not put the Battery Pack near any heat sources (fire or flames, for example).
- Do not disassemble, process, press, or heat the Battery Pack.
- Do not allow the + and - terminals of the Battery Pack to be short-circuited. It may cause leakage, heat generation, fire, or overheating.
- It is recommended to use original Battery Pack that is available at SAMSUNG service center.

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How to Use the Battery Pack

Continuous Recording Time Based on Battery Type

The continuous recording times (for video recording) given in the table below are approximations.
Actual recording time depends on usage.

Image Quality / Image Resolution	Super Fine (SF)	Fine	Normal
640 x 480	Approx. 4 Minutes	Approx. 7 Minutes	Approx. 15 Minutes
320 x 240	Approx. 7 Minutes	Approx. 15 Minutes	Approx. 30 Minutes

Time / Battery Model	Continuous Recording Time	
	LCD On	Backlight Off
SB-LH82 (820 mAh)	Approx. 60 Minutes	Approx. 80 Minutes

[Notes]

- It is recommended to prepare fully-charged additional Battery Packs for outdoor use.
- New Battery Packs are available at your local Samsung dealer and service center.
- If you zoom in or out, the recording time becomes shorter.
- The ”Continuous Recording Time” estimated above indicates the time that you record video continuously without using other functions such as zooming, video playback, or DIS( ) functions.

How to Use the Battery Pack

Battery Level Display

The Battery Level Display shows the amount of battery power remaining in the Battery Pack.

Battery Level Indicator	State	Message
	Fully charged	-
	25 ~ 50% is used	-
	50 ~ 70% is used	-
	75 ~ 95% is used	-
	Over 95% is used (flickers) The device will soon turn off. Change the Battery Pack as soon as possible.	-
	(flickers) The device will be forced to turn off after a beeping sound.	“Low battery”

Tips for Battery Identification

A charge indicator is provided on the Battery Pack to help you to remember whether it has been charged or not. If the battery has been fully charged, the charge indicator is green. If you are charging the battery, the color of the charge indicator is orange. The charge indicator flickers if the battery is abnormal.

Charging time based on battery type

Capacity	Using AC Adapter	Using USB Charging
SB-LH82 (820 mAh)	Approx. 1 hr 40 min	Approx. 2 hr 40 min

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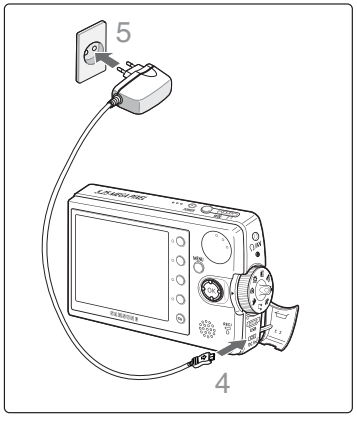
How to Use the Battery Pack

Charging the Battery Pack

1. **Turn off the Miniket Photo for a while.**
2. **Attach the Battery Pack to the Miniket Photo.**
3. **Open the Connector Cover of the set.**
4. **Connect the AC Power Adapter with the Miniket Photo.**
   - ◆ You can detach the AC adapter by pressing the buttons on the sides of the adapter cable plug while pulling it out.
5. **Insert the AC Power Adapter into the outlet.**

Charging directly to the Miniket Photo



[Notes]

- ✣ You can charge the Battery Pack while using the Miniket Photo, but it t takes a relatively longer time.
- ✣ You may use the Miniket Photo powered by the AC Power Adapter indoors where available.
- ✣ You may charge your Miniket Photo by connecting it to a PC with the USB cable.

[Warning]

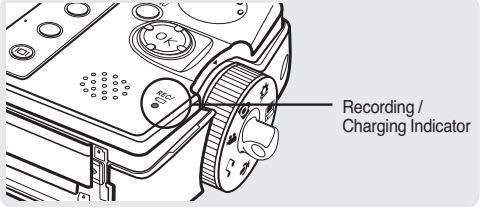
- ✣ It is recommended you fully charge the Battery Pack before use.
- ✣ You should only charge the battery in an environment between 32°F (0°C) and 140°F (40°C).
- ✣ Ambient temperature may affect charging the Battery Pack; too low temperature may result in longer charge time / incomplete charging.
  Adequate room temperature for charging is 10°C ~ 30°C.
- ✣ Before connecting the cable, make sure that you don't have any foreign substances between connectors.
  It is recommended to fully charge the Battery Pack before use.

Getting Started

Recording / Charging Indicator

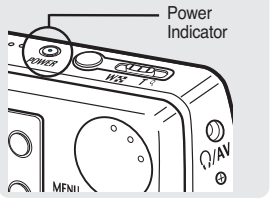
The color of the LED indicates the state of power or charging.

LED Color	During Recording	During Charging
Red	Recording	-
Orange	-	Charging
Green	-	Fully Charged



Power Indicator

LED Color	Power
Blue	On



Getting Started

Before You Start Operating the Miniket Photo

Before using the Miniket Photo, read this page thoroughly for easy operation. The Memory Card is an optional accessory and not included in the package.

1. **Install the Battery Pack and insert a Memory Card into the Memory Card slot.** (Refer to page 34)
2. **Charge the Battery Pack by directly connecting the AC Power Adapter to the device.** (Refer to page 24)
3. **Press the [POWER] button to turn on the device.**
4. **Select the desired mode by setting the [Mode Dial].**
5. **Press the [Record / Stop] button to take a picture, start recording video / voice, or play back music.**
   - To set focus, press the [Record / Stop] button halfway down.
6. **When finished, press the [POWER] button to turn the device off.**

[Notes]

- You can select Video mode or Previous mode as the start-up mode in System Settings. (Refer to page XX)
- The system automatically switches to the selected mode within two seconds even when the [OK] button is not pressed.

Getting Started

Using the Mode Dial

The Mode Dial is used to set the device mode. Available modes are Photo, Video, Music, PC Camera, PictBridge, Storage, and System Settings.

Setting the Mode

Set the desired mode by turning the Mode Dial. Within 1 ~ 2 seconds, the device switches to the designated mode.

Functions of Each Mode

Photo Mode
You can take / view photos.

Video Mode
You can record / play back video.

Music Mode
You can download / play back music files (MP3).

Voice Record Mode
You can record / play back voice / sound.

PC Camera Mode
You can use the device as a PC camera for video chatting, video conferencing, and other PC camera applications.

PictBridge Mode
When you connect the device to a PictBridge-supported printer with a USB cable, you can print your stored pictures without a PC.

Storage Mode
Connecting the device to a PC with a USB cable allows you to store various files in the device.

System Settings Mode
Using this mode, you can set / adjust settings regarding the LCD display, Date / Time, Reset, and Memory management.

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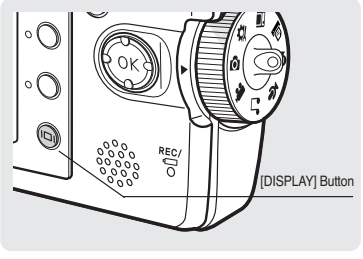
Getting Started

Using the DISPLAY Button

1. **If you press the [DISPLAY] button once, OSD (On-screen Display) indicators and messages will disappear.**
2. **If you press the [DISPLAY] button twice, the backlight will turn off.**
3. **If you press the [DISPLAY] button 3 times, the LCD monitor will turn off.**
4. **If you press the [DISPLAY] button 4 times, it switches to the initial (normal) display screen.**

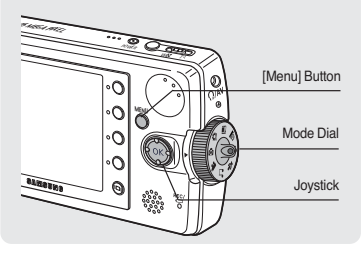


[Notes]

✣ Above description applies to the Photo and Video mode.

Using the Menu Button

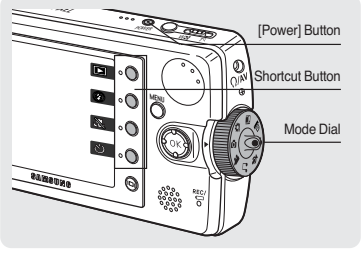
1. **Set the desired mode by setting the Mode Dial.**
2. **Press the [Menu] button.**
3. **Move the cursor by moving the joystick (▲/▼, ◀/▶) to select desired menu item, and then press the [OK] button to confirm.**
4. **Press the [Menu] button to finish.**



Getting Started

Using the Shortcut Buttons

Icons that represent the most frequently accessed functions according to the current mode are displayed on the LCD monitor to allow easier access. Using these buttons, you may directly access the functions.



1. Press the Mode Dial to set the desired mode.

2. Press the [POWER] button to turn on the device.

3. On the LCD monitor, the function of each button is displayed. Press the button to access the function directly.

- ex) In Photo Mode, 4 shortcut buttons will be:
  <▶>-<⚡>-<🔇>-<⏲>

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Getting Started

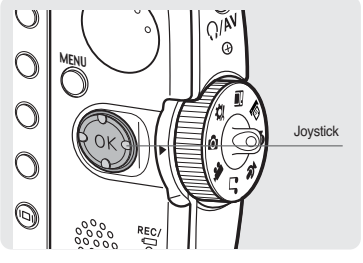
Using the Joystick

✣ The joystick is used to make a selection, move the cursor, select functions, and exit from the menu.
✣ The joystick is used to make a selection, move the cursor, and select functions.

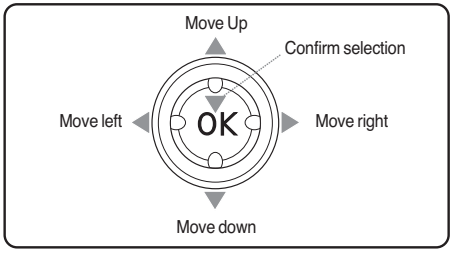
1. Move the cursor right / left by pressing the joystick (◀/▶).

2. Move the cursor up / down by pressing the joystick (▲/▼).
- ◆ You can adjust the volume by moving the joystick (up / down) in Video / **Music** / **Voice** playback modes.

3. Confirm your selection by pressing the [OK] button.



[Note]
✣ Use the joystick for menu traversal or making selections.



	Menu Selection	While Playing Back
OK	Move Upwards	Increase Volume
OK	Move Downwards	Decrease Volume
OK	Move Left	-
OK	Move Right	-
OK	Confirm Selection	-

Getting Started

Structure of Folders and Files

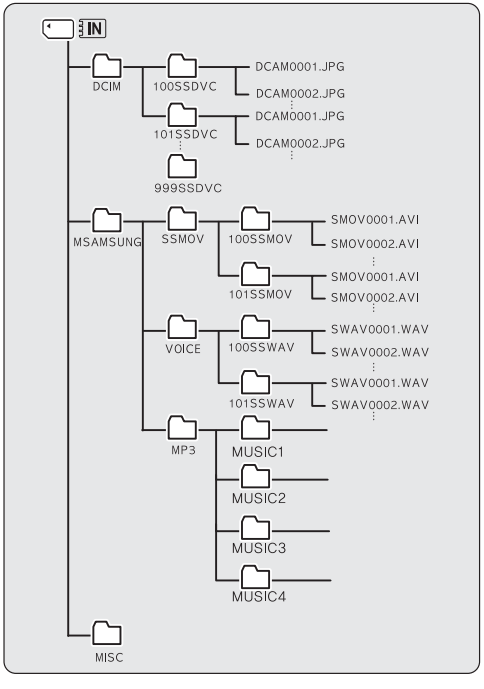
The video files and photo files are stored in internal memory or external memory (Memory Card) as below:

[Notes]

- ✤ Refer to page XX for details on Memory Card.
- ✤ You can store general data files and folders in Miniket Photo.
- ✤ The maximum number of files you may store in Miniket Photo is 9,999 where number of folders is 999.
- ✤ DCAM****.JPG: Photo files
  SMOV****.AVI: Video files
  SWAV****.WAV: Voice files
  ********.MP3: MP3 files
- ✤ MISC: DPOF files are stored.
- ✤ Do not change the file or folder name except 'Free'.
- ✤ You can freely change the file or folder name under the 'Free'.
- ✤ Video files that you have not made with this device may not play back on this device.

[Warning]

- ✤ Memory cards are made with precision technology. It is sensitive and vulnerable to electric shock, temperature and humidity, be cautious with handling the memory card to avoid losing data stored in it.
- ✤ Damaged data may not be recovered, and SAMSUNG is not responsible for lost data. Make sure to back up important files in PC separately.



Getting Started

Recording Time and Capacity

Photo Capacity (for 64 MB)

Image Quality / Image Size	TIFF Maximum Quality	Super Fine	Fine	Normal
5M	Approx. 4	Approx. 30	Approx. 60	Approx. 120
4M	-	Approx. 40	Approx. 80	Approx. 170
3M	-	Approx. 50	Approx. 100	Approx. 200
2M	-	Approx. 80	Approx. 170	Approx. 290
1M	-	Approx. 180	Approx. 340	Approx. 680
VGA	-	Approx. 400	Approx. 680	Approx. 1,020

Video Recording Time

Image Quality / Image Size	Super Fine	Fine	Normal
640 x 480	Approx. 4 min	Approx. 7 min	Approx. 15 min
320 x 240	Approx. 7 min	Approx. 15 min	Approx. 30 min

Voice Recording Time

Recording Time
Approx. 30 min

✤ Based on the device set to mono and a 64kbps transfer rate.
✤ Voice recording time shown above is an estimation and is subject to recording conditions.

[Notes]

✤ The photo capacity / recording times are approximations and are subject to conditions.
✤ The photo capacity is subject to change depending on the captured image size. The Voice Recording Time is also subject to change.
✤ There is no guarantee about the operation of a Memory Card which has not been formatted on this Miniket Photo. Make sure to format a Memory Card on the Miniket Photo (Refer to page 50).
✤ Do not format a Memory Card on a PC.
✤ The recording time and the number of images shown above are maximum figures only when using the respective function.
In actual use, using more than one function will reduce the capacity of each.
✤ If you set the flash to on, you can take fewer photos than described above.
✤ When you use a Memory Card, you may get a <"Low speed card. Please record at lower quality"> message. It is because the writing speed of the Memory Card is slow.
It is recommended to use a Memory Card of 1.25MB/sec or greater data transfer rate.
✤ Video file may not record / playback normally when using a Memory Card bigger than 1GB.

Getting Started

Selecting the Memory Type

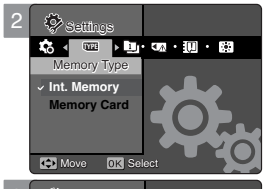
You can set the storage to the built-in internal memory or external mini SD Memory Card (Optional Accessory).
Video and photo files are stored in internal memory by default.

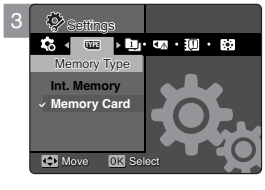
1. **Press the [POWER] button to turn on the device.**

2. **Initially, the memory type is set to <Int. Memory> memory by default.**

3. **Insert a mini SD Memory Card into the memory slot** (refer to page 35)**.**
   - The message ”Memory Card is inserted. Set to the Memory Card?” appears on the screen.

4. **Select the desired setting by moving the joystick left / right (◀/▶) and press the [OK] button.**
   - Yes: Photo, video, music and voice files will be stored in the inserted Memory Card.
   - No: Photo, video, music and voice files will be stored in the built-in internal memory.





[Notes]

✤ You may select the storage memory type in menu of Photo / Video / Music / Voice Record / System Settings mode.
✤ Selected memory will be used for the storage in all modes.
✤ Built-in internal memory: Photo, video, music and voice files will be stored in the built-in internal memory.
✤ Memory Card: Photo, video, music and voice files will be stored in the Memory Card inserted.
You can change this option using the System Settings menu (refer to page 49).

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Getting Started

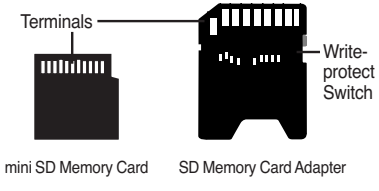
Using the Memory Card (Optional Accessory)

- Only mini SD Memory Card is supported.

- Turning the power off / ejecting the memory card during the memory operation such as formatting, deleting, recording, and playback may damage the data.
- You may modify the name of a file / folder stored in the memory card using a PC. Miniket Photo may not recognise modified files.
- It is recommended that you power off before inserting or ejecting the memory card to avoid losing data.
- It is not guaranteed that you may use a memory card formatted on a PC. Be sure to format your memory card using the Miniket Photo.
- Save important files separately on other media, such as floppy disk, hard disk, or CD.
- You have to format newly-purchased memory cards, memory cards with data on it that camera cannot recognise or the cards that have data saved by other cameras.
- The memory card has a certain life span. If you use it for a long time, you cannot record new data. In this case, you have to purchase a new memory card.
- The memory card is a precision electronic equipment. Do not bend it, drop it, or cause it to suffer a strong impact..
- Do not use or store in a place that has high temperature and humidity or dusty environment.
- Do not allow foreign substances on the Memory Card terminals. Use a soft dry cloth to clean the terminals if required.
- It is recommended to use a memory card case to avoid losing data from moving and static electricity.
- After a period of use, the memory card may get warm. This is normal, not a malfunction.
  Damaged data may not be recovered, and SAMSUNG is not responsible for the lost data. Make sure to back up important files separately on a PC.

Name of Each Part: mini SD Memory Card

- This device only supports the mini SD Memory Card.
- SD Memory Card / SD Memory Card Adapter are not supported by this device.
- mini SD Memory Card / SD Memory Card Adapter supports a mechanical write protection switch. Setting the switch prevents accidental erasure of files recorded on the memory card. To enable writing, move the switch to the direction of terminals. To set write protection, move the switch down.



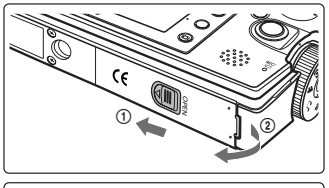
[Note]

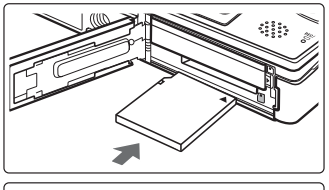
- mini SD Memory Card is an optional accessory.

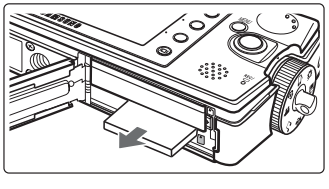
Getting Started

Inserting / Ejecting the Memory Card (Optional Accessory)

This product is equipped with a built-in internal memory and the external memory card is an optional accessory which is not provided with the package.







Inserting a Memory Card

1. **Open the battery / memory card compartment lid by sliding the [OPEN] switch on the bottom side.**
   - ◆ Slide the [OPEN] switch in the direction of (1) as shown in the figure until it stops. Then open the lid.
2. **Insert a mini SD Memory Card into the slot until it softly clicks.**
   - ◆ The memory card terminals face down while the LCD monitor faces up.

Ejecting a Memory Card

1. **Slightly push the mini SD Memory Card inwards to pop it out.**
2. **Pull the mini SD Memory Card out of the slot and close the battery / memory card compartment lid.**

[Notes]

- ✣ Do not apply excessive force when you insert or eject a Memory Card.
- ✣ Do not turn the power off while recording, playing, or erasing files or while formatting a Memory Card.
- ✣ Turn the power off before you insert or eject a Memory Card to avoid losing data.
- ✣ Do not place a Memory Card near a strong electro-magnetic device.
- ✣ Do not allow metal substances to come in contact with the terminals on the Memory Card.
- ✣ Do not bend a Memory Card.
- ✣ After pulling a Memory Card out of the device, keep the Memory Card in a case to prevent static shock.
- ✣ The data stored on the Memory Card may be changed or lost as a result of misuse, static electricity, electric noise, or repair. Save important files separately.
- ✣ Samsung is not responsible for data loss due to misuse.

ENGLISH

1 Setting the Miniket Photo

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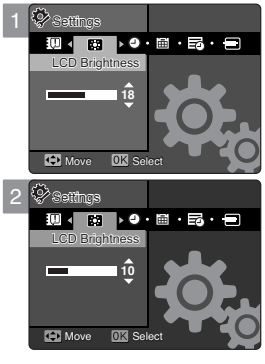
Setting the Miniket Photo : Adjusting the LCD Monitor

Adjusting the LCD Brightness

You can adjust the brightness of the LCD monitor to compensate for ambient lighting conditions.



1 Set the Mode Dial to the System Settings mode.

2. Press the [POWER] button to turn on the device.
- ◆ The <System Settings> menu appears.

3. Select <LCD Brightness> by moving the joystick left / right (◀/▶).

4. Adjust the brightness by moving the joystick up / down (▲/▼).
- ◆ Moving the joystick upwards will brighten the screen whereas moving it downwards will darken the screen.
- ◆ Brightness range: You can adjust the brightness between 0 ~ 32 steps.

5. After you finish adjusting, set the Mode Dial to the desired mode.

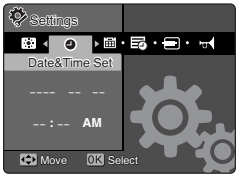
[Notes]
- ✣ A Brighter LCD screen setting consumes more battery power.
- ✣ Brighten the LCD screen when the ambient lighting is too bright and the monitor is hard to see.
- ✣ LCD Brightness does not affect the brightness of stored images.

ENGLISH

Setting the Miniket Photo : Setting Date / Time

Setting Date / Time

The built-in clock creates the time stamp. You can adjust the time using this menu.



1. **Set the Mode Dial to the System Settings mode.**

2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <Date & Time Set> by moving the joystick left / right (◀/▶).**

4. **Set values by moving the joystick up / down (▲/▼), and then press the [OK] button.**
   - Items are listed in the date format. By default, it appears in the order of Year, Month, Date, Hour and Minute.
   - Cursor moves to the next item.
   - Set Month and Year using the same method.

5. **Set all items and then press the [OK] button to finish.**
   - Set Minute and AM / PM using the same method.

6. **After you finish setting, set the Mode Dial to the desired mode.**

[Notes]

- You can display Date and Time on the LCD monitor by setting the <Date & Time> option other than to <Off>.
- If the <Date & Time> display option is set to display before setting the time, it will appear as “12:00PM 2005. 1. 1”.
- You can set the year up to 2,037.
- Date and Time information will be recorded with the recordings.

Setting the Miniket Photo : Setting Date / Time

Setting Date / Time Format

You can select the date format to display.

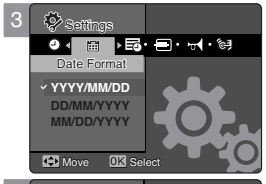
1. **Set the Mode Dial to the System Settings mode.**

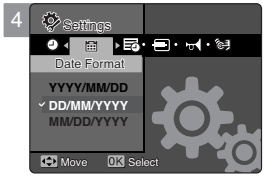
2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <Date Format> by moving the joystick left / right (◀/▶).**

4. **Set the format by moving the joystick up / down (▲/▼), and then press the [OK] button.**
   - **<YYYY/MM/DD>**: The date is displayed in the order of Year / Month / Date.
   - **<DD/MM/YYYY>**: The date is displayed in the order of Date / Month / Year.
   - **<MM/DD/YYYY>**: The date is displayed in the order of Month / Date / Year.

5. **After you finish setting, set the Mode Dial to the desired mode.**



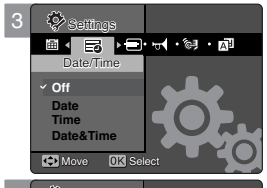


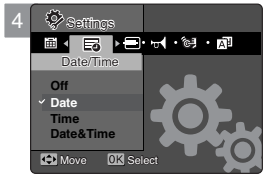
ENGLISH

Setting the Miniket Photo : Setting Date / Time

Setting Date Display

You can set to display date and time on the LCD monitor.





1. **Set the Mode Dial to the System Settings mode.**

2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <Date & Time> by moving the joystick left / right (◀/▶).**

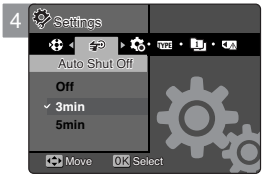
4. **Set the display option by moving the joystick up / down (▲/▼), and then press the [OK] button.**
   - **<Off>**: Date and Time are not displayed.
   - **<Date>**: The date is displayed.
   - **<Time>**: The time is displayed.
   - **<Date & Time>**: The date and time are displayed.

4. **After you finish setting, set the Mode Dial to the desired mode.**

Setting the Miniket Photo : Setting the System

Setting the Auto Shut Off

To save battery power, you can set the Auto Shut Off function which turns off the device if there is no operation for a certain period of time.



1. **Set the Mode Dial to the System Settings mode.**

2. **Press the [POWER] button to turn on the device.**
   - ◆ The <System Settings> menu appears.

3. **Select <Auto Shut Off> by moving the joystick left / right (◀/▶).**

4. **Select the desired option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - ◆ **<Off>**: Cancel the Auto Shut Off function.
   - ◆ **<3min>**: Automatically turns off after 3 minutes.
   - ◆ **<5min>**: Automatically turns off after 5 minutes.

5. **After you finish setting, set the Mode Dial to the desired mode.**

[Notes]

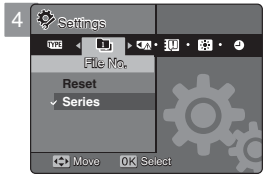
- ✣ The Auto Shut Off will not function when you connect the AC Power Adapter to the Miniket Photo. The Auto Shut Off functions when the Battery Pack is the only power source.
- ✣ The Auto Shut Off will not function when you transfer data between the Miniket Photo and a PC.

ENGLISH

Setting the Miniket Photo : Setting the System

Setting the File No. Function

You can set the file numbers so that they reset each time the Memory Card is formatted, or so that they count up continuously.



1. **Set the Mode Dial to the System Settings mode.**

2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <File No.> by moving the joystick left / right (◀/▶).**

4. **Select the desired option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Reset>**: When the storage memory is formatted, the file number goes back to its default value (100-0001).
   - **<Series>**: Numbering is continuous between the Memory Cards, so that the first file number assigned on a new Memory Card is 1 more than the last file number assigned on the previous Memory Card.

5. **After you finish setting, set the Mode Dial to the desired mode.**

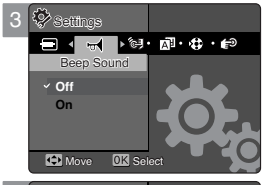
[Note]

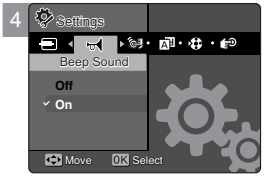
✣ When you set <File No.> to <Series>, each file is assigned with a different number so as to avoid duplicating file names. It is convenient when you want to manage your files on a PC.

Setting the Miniket Photo : Setting the System

Setting the Beep Sound

You can set the beep sound when buttons are pressed on / off. When set to on, a beep will sound every time a button is pressed.





1. **Set the Mode Dial to the System Settings mode.**

2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <Beep Sound> by moving the joystick left / right (◀/▶).**

4. **Select the desired option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Off>**: Turn the beep sound off.
   - **<On>**: Turn the beep sound on.

5. **After you finish setting, set the Mode Dial to the desired mode.**

[Notes]

- When you set <Beep Sound> to <Off>, no warning sound will be heard.
- When the earphones or AV (Audio / Video) cable is connected to the device, the <Beep Sound> function will not operate.

ENGLISH

Setting the Miniket Photo : Setting the System

Setting the Shutter Sound

You can set the shutter sound to on / off.

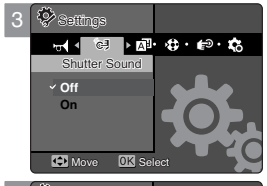
1. **Set the Mode Dial to the System Settings mode.**

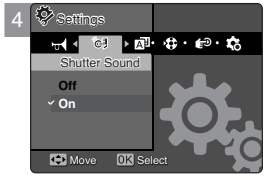
2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <Shutter Sound> by moving the joystick left / right (◀/▶).**

4. **Select the desired option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Off>**: Turn the shutter sound off.
   - **<On>**: Turn the shutter sound on.

5. **After you finish setting, set the Mode Dial to the desired mode.**

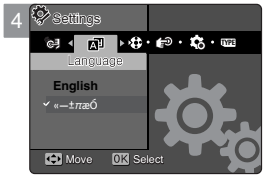




Setting the Miniket Photo : Setting the System

Selecting Language

You can select the language of the Miniket Photo.



1. **Set the Mode Dial to the System Settings mode.**

2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <Language> by moving the joystick left / right (◀/▶).**

4. **Select the desired option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - Selectable languages are:
   - English / Español / Français / Português / Deutsch / Italiano / Nederlands / Polski / Русский / 한국어 / 中文 / Iran / Arab / Magyar / ไทย / Українська / Svenska

5. **After you finish, set the Mode Dial to the desired mode.**

ENGLISH

Setting the Miniket Photo : Setting the System

Setting the TV Standard

You can view your video files using the built-in LCD monitor. However, to view your recordings on a television set or to copy it to a video cassette recorder (VCR), the television set or the VCR must comply with the TV standards and have the appropriate Audio / Video ports. Otherwise, you may need to use a separate Video Format Transcoder (NTSC-PAL format Converter).
You can set the TV standard of the Miniket Photo's video output.

1. Set the Mode Dial to the System Settings mode.

2. Press the [POWER] button to turn on the device.
- The <System Settings> menu appears.

3. Select <Video Out> by moving the joystick left / right (◀/▶).

4. Select the desired option by moving the joystick up / down (▲/▼) and then press the [OK] button.
- **<PAL>**: Sets to PAL standard.
- **<NTSC>**: Sets to NTSC standard.

5. After you finish, set the Mode Dial to the desired mode.

PAL-Compatible Countries / Regions
Australia, Austria, Belgium, Bulgaria, China, CIS, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Great Britain, Holland, Hong Kong, Hungary, India, Iran, Iraq, Kuwait, Libya, Malaysia, Mauritius, Norway, Romania, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Thailand, Tunisia, etc.

NTSC-Compatible Countries / Regions
Bahamas, Canada, Central America, Japan, Mexico, Philippines, Korea, Taiwan, United States of America, etc.

Setting the Miniket Photo : Setting the System

Setting the Mode Display

You can set to display the mode transition when you use the Mode Dial.

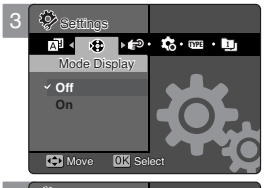
1. **Set the Mode Dial to the System Settings mode.**

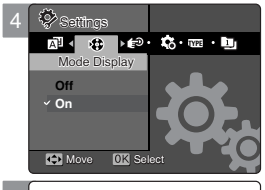
2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <Mode Display> by moving the joystick left / right (◀/▶).**

4. **Select the desired option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<On>**: Turns the <Mode Display> on.
   - **<Off>**: Turns the <Mode Display> off.

5. **After you finish, set the Mode Dial to the desired mode.**
   - If it is set to <On>, the mode screen is displayed on the LCD monitor.



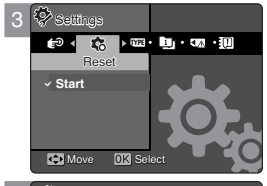


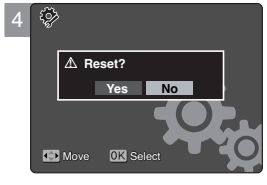
ENGLISH

Setting the Miniket Photo : Setting the System

Resetting the Miniket Photo

You can reset the Miniket Photo to load default (factory) settings.





1. **Set the Mode Dial to the System Settings mode.**
2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.
3. **Select <Reset> by moving the joystick left / right (◀/▶).**
4. **Press the [OK] button. Confirmation message appears. Select an option by moving the joystick left / right (◀/▶) and then press the [OK] button.**
   - **<Yes>**: Starts the reset function.
   - **<No>**: Cancel the reset function.

[Warning]

- If you reset the Miniket Photo, all functions you set are initialised to the default (factory) settings.

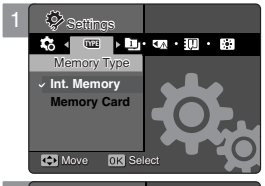
[Notes]

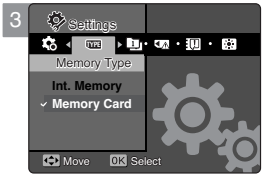
- User settings and date / time information are initialised when you reset.
- After resetting the Miniket Photo, set date / time (refer to page 38).

Setting the Miniket Photo : Setting Memory

Selecting the Storage Type

You can set the storage to the built-in internal memory or external mini SD Memory Card (Optional Accessory).





1. **Set the Mode Dial to the System Settings mode.**

2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <Memory Type> by moving the joystick left / right (◀/▶).**

4. **Select the desired option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Int. Memory>**: Photo, video, music and voice files are stored in the internal memory.
   - **<Memory Card>**: Photo, video, music and voice files are stored in the external (mini SD) memory.

5. **After you finish setting, set the Mode Dial to the desired mode.**

[Notes]

- Photo, video, music and voice files are stored in internal memory by default.
- If you insert a Memory Card when the device is on, the pop-up screen will prompt you automatically to select the storage type except when in the System Settings mode.
- If there is no Memory Card inserted, only the <Int. Memory> option will be available.
- Actual storage capacity may differ from the printed memory capacity.
- The maximum recording time and image capacity is subject to change depending on the media used (refer to page 32).

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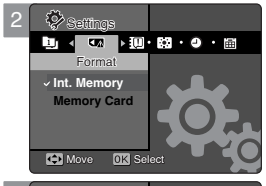
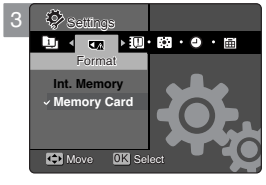
Setting the Miniket Photo : Setting Memory

Formatting the Memory

You can format the internal memory and the external memory to erase all files.





1. **Set the Mode Dial to the System Settings mode.**

2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.

3. **Select <Format> by moving the joystick left / right (◀/▶).**

4. **Select the desired option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Int. Memory>:** Format the internal memory.
   - **<Memory Card>:** Format the external memory.
     When the [OK] button is pressed, the message “Do you want to format?” appears. Select <Yes> to confirm.

5. **After you finish setting, set the Mode Dial to the desired mode.**

[Notes]

- There is no guarantee on the operation of a Memory Card which has not been formatted on the Miniket Photo. Make sure to format any Memory Card on the Miniket Photo.
- If there is no Memory Card inserted, only the <Int. Memory> option will be available.

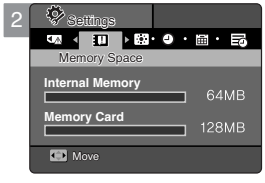
[Warning]

- Previous information can not be restored after formatting.

Setting the Miniket Photo : Setting Memory

Viewing Memory Space

You can check usable memory space and total memory space of the Miniket Photo.



1. **Set the Mode Dial to the System Settings mode.**
2. **Press the [POWER] button to turn on the device.**
   - The <System Settings> menu appears.
3. **Select <Memory Space> by moving the joystick left / right (◀/▶).**
4. **Available free space and total memory capacity are displayed.**
5. **After you finish, set the Mode Dial to the desired mode.**

[Notes]

- Actual storage capacity may differ from the printed memory capacity.
- Internal and external memory spaces are displayed separately.

2 Photo Mode

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Photo Mode : Capturing

Capturing Images

You can take photo as well as record video files.

1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

- ◆ The Photo Capture screen appears.

3. Press the [Record / Stop] button halfway down to set the focus and exposure.

- ◆ The focus indicator appears in green when the focus is set. If the focus indicator appears in red, try to set the focus again.

4. Fully press the [Record / Stop] button to take a picture.

To Set the Focus

Press the [Record/Stop] button halfway down.

Fully press the [Record/Stop] button.

Pressing the [Record/Stop] button halfway down sets the focus. Fully pressing the button takes a photo.

[Notes]

- ✣ If the battery is low, the flash will not operate automatically.
- ✣ In order to take pictures and save it in the external memory (mini SD Memory Card), insert a Memory Card and then set the storage type to <Memory Card> (Refer to page 33).
- ✣ Press the [MENU] button in the Photo Capture mode to see the Photo Settings screen.
- ✣ When you are finished taking pictures, please turn off the device to conserve battery power.

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Photo Mode : Capturing

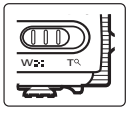
Zooming In and Out

Zooming allows you to change the size of the subject captured in a scene.
You can take advantage of the 3x optical electro motion zoom lens.

1. Set the Mode Dial to Photo mode.

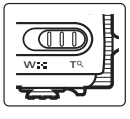
2. Press the [POWER] button to turn on the device.

◆ The Photo Capture screen appears.



Move the [W/T] zoom switch to W (WIDE)

- The shot subject's size is reduced, and you can take a picture as if you were far away from the subject.
- At the zoom indicator in the LCD screen, the arrow moves to W.
- The smallest rate of zoom out is the default rate (original resolution of the subject).



Move the [W/T] zoom switch to T (TELE).

- The subject is larger, and you can take a picture as if you were close to the subject.
- At the zoom indicator the arrow moves to T.
- The largest optical zoom ratio is 3x, which is the biggest among the basic zoom.

[Notes]

- Frequent use of zooming may result in higher battery consumption.
- You can take advantage of 5x digital zoom as well as 3x optical zoom for a total of 15x zoom.
- Optical zoom preserves the image quality.

Photo Mode : Viewing

Viewing Photo Files on the LCD Monitor

It is handy and practical to view pictures using the LCD monitor almost anywhere such as in a car, indoors, or outdoors.

1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

3. Press the [Shortcut 1] button to switch to Photo viewing mode.

4. Move the joystick left / right (◀/▶) to find the photo you want to view.

◆ Each movement of the joystick goes to the previous / next photo.

[Notes]

- If there is no file stored to view, the message <"No stored Photo!"> appears.
- Moving the joystick right (▶) at the last photo will move to the first photo.
- Moving the joystick left (◀) at the first photo will move to the last photo.
- Moving the joystick left / right (◀/▶) button for more than 1 seconds will fast search. .
- Display time may vary depending on the picture size.
- The image edited (tuned) in image viewer programme on a PC may not be displayed.

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Photo Mode : Viewing

Viewing Multiple Photo Files / Enlarging a Photo File

Using the [W/T] zoom switch in Photo Viewing mode, you can display multiple images on one LCD screen.

1. Set the Mode Dial to Photo mode.

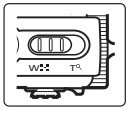
2. Press the [POWER] button to turn on the device.

3. Press the [Shortcut 1] button to switch to Photo viewing mode.

Zoom Out

Zoom In

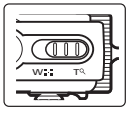
Displaying Multiple Photo Files (Zoom Out)



Move the [W/T] zoom switch to W (WIDE).

- The screen switches to multi-view.
- The photo you were viewing in the single view is selected.

Enlarging a Photo File (Zoom In)



Move the [W/T] zoom switch to T (TELE).

- From the multi-view screen, it switches back to the single view screen. Move the [W/T] Zoom switch to T (TELE) again to enlarge the selected photo.

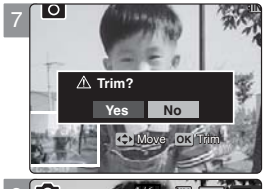
[Notes]

- ✤ If there is no file stored to view, the message <“No stored Photo!”> appears.
- ✤ You cannot zoom in on a TIFF image file.

Photo Mode : Viewing

Cropping an Enlarged Photo File

- You can enlarge and crop a photo.
- Using the [W/T] zoom switch in Photo Viewing mode, you can display multiple images on one LCD screen.



1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Photo viewing mode.**
4. **Move the joystick left / right (◀/▶) to select a photo.**
5. **Move the [W/T] zoom switch to T (TELE).**
   - Selected photo is enlarged.
6. **Move the joystick (◀/▶/▲/▼) to find the portion of the photo to crop.**
7. **Press the [OK] button.**
   - The message <"Trim?"> appears on the screen.
   - If there is not enough space to save the cropped image, it cancels automatically.
8. **Select an option by moving the joystick left / right (◀/▶) and then press the [OK] button.**
   - **<Yes>**: Crops the image and saves it as a new file.
   - **<No>**: Cancels cropping.
9. **If <Yes> is selected, cropped image is saved and displayed on the screen.**

[Notes]

- You cannot enlarge a cropped photo.
- You cannot crop an image smaller than 640 x 480 pixels.
- You cannot crop a rotated image.
- The original photo is not overwritten by the cropped image. The cropped image is saved separately.
- The maximum magnification ratio differs depending on the image resolution:
  5M – up to 9.00x, **4M** – up to 6.45x, **3M** – up to 5.33x
  2M – up to 5.00x, **1M** – up to 4.00x, **VGA** – up to 3.33x

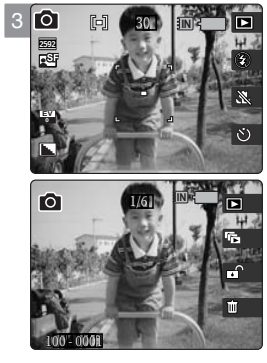
ENGLISH

Photo Mode : Setting the Capturing Options

Using the Shortcut Buttons

Shortcut buttons are provided to allow users easy access to frequently used functions.

Switching to Photo View Mode



1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button.**
   - Each press of the [Shortcut 1] button toggles between the Photo capture / view modes.

Setting the Flash

1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 2] button.**
   - Each press of the [Shortcut 2] button cycles through the <⊘><◎><⚡S><⚡A><⚡> flash modes.
4. **An icon indicating the selected flash mode appears on the screen.**

[Note]

❖ Flash modes can be set only in <Manual> Scene mode. By default, the scene mode is set to <Auto>.

Photo Mode : Setting the Capturing Options

Using the Shortcut Buttons

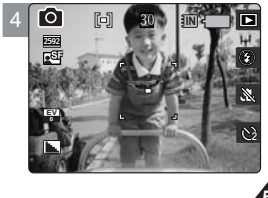
Shortcut buttons are provided to allow users easy access to frequently used functions.

Setting the Macro

1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 3] button.**
   - ◆ Each press of the [Shortcut 3] button cycles through the **<Off>** - **<Macro>** - **<Super Macro>** macro modes (refer to page 65).
4. **An icon indicating the selected macro mode appears on the screen.**

[Notes]

- ✣ Macro modes will disable flash use.
- ✣ Macro modes can only be set in <Manual> Scene mode. By default, the scene mode is set to <Auto>.



Setting the Self Timer

1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 4] button.**
   - ◆ Each press of the [Shortcut 4] button cycles through **<Off>** - **<2 sec>** - **<10 sec>** self timer modes (refer to page 74).
4. **An icon indicating the selected timer mode appears on the screen.**

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Photo Mode : Setting the Capturing Options

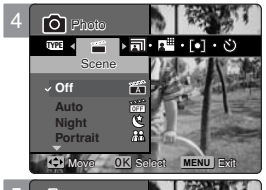
Using the Scene Modes

Scene Modes are preset automatic exposure modes based upon an internal computer program. It helps to set both shutter speed and lens aperture according to the internal light meter and the program's calculations, allowing users to have the best results under various conditions.

1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

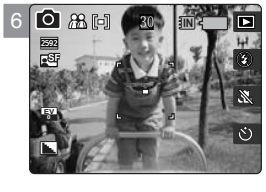
3. Press the [MENU] button.
- Menu screen appears.



4. Move the joystick left / right (◀/▶) to select <Scene Mode>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.
- <Auto> / <Manual> / <Night> / <Portrait> / <Children> / <Landscape> / <Close-up> / <Sunset> / <Dawn> / <Backlight> / <Fireworks> / <Beach / Snow>

6. Press the [MENU] button to exit the menu.
- An icon indicating the selected Scene mode appears on the screen.
- If <Auto> is selected, no icon will be displayed.



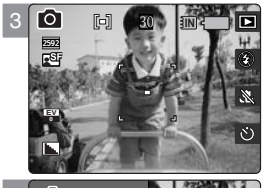
[Notes]
- Setting the listed functions are available only when the <Manual> Scene mode is selected: <Metering>, <EV>, <ISO>, <White Balance>, <Macro>, <Flash>, and <Focus>.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

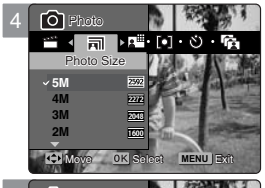
Photo Mode : Setting the Capturing Options

Setting the Photo File Size

You can set the image resolution to meet your needs.

1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <Size>.**
5. **Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.**
   - ◆ <5M> / <4M> / <3M> / <2M> / <1M> / VGA
6. **Press the [MENU] button to exit the menu.**
   - ◆ An icon indicating the selected size appears on the screen.





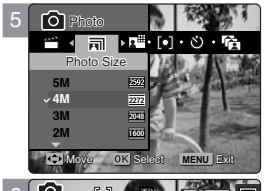


Photo Capacity according to the Photo Size and Quality (for 64MB)

Size \ Quality	Tliff	Super Fine	Fine	Normal
5M 2592	Approx. 4	Approx. 30	Approx. 60	Approx. 120
4M 2272	-	Approx. 40	Approx. 80	Approx. 120
3M 2048	-	Approx. 50	Approx. 100	Approx. 170
2M 1600	-	Approx. 80	Approx. 170	Approx. 290
1M 1024	-	Approx. 180	Approx. 340	Approx. 680
VGA 640	-	Approx. 400	Approx. 680	Approx. 1020

[Notes]

- ✤ The photo capacity is an approximation and subject to recording conditions.
- ✤ For e-mail purposes, the <VGA> option is appropriate.
- ✤ When <Tiff> quality is selected, size is automatically set to 5M.
- ✤ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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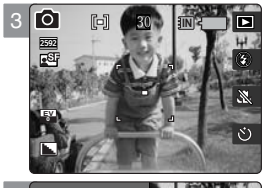
Photo Mode : Setting the Capturing Options

Setting the Photo File Quality

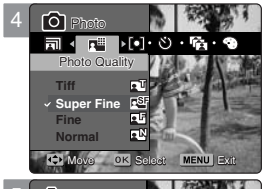
You can set the image quality to meet your needs. Set the image quality before taking a picture.



1. Set the Mode Dial to Photo mode.

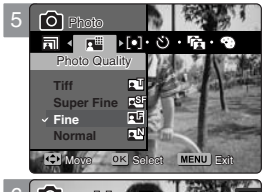
2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- ◆ Menu screen appears.

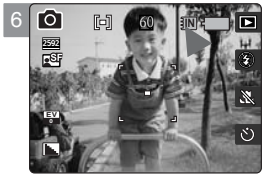


4. Move the joystick left / right (◀/▶) to select <Photo Quality>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.
- ◆ <Tiff> / <Super Fine> / <Fine> / <Normal>



6. Press the [MENU] button to exit the menu.
- ◆ An icon indicating the selected quality appears on the screen.

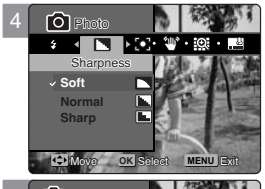


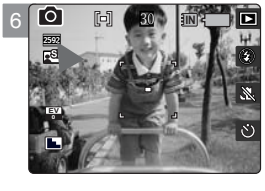
[Notes]
- ✣ The photo capacity is an approximation and subject to recording conditions.
- ✣ When <Tiff> quality is selected, size is automatically set to 5M.
- ✣ When <Tiff> quality is selected, <Multi Shot>, <DIS>, <Size>, <Digital Zoom> and <Super Macro> settings are not available.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Photo Mode : Setting the Capturing Options

Setting the Sharpness

You can set the sharpness of the image to be captured. Set the image sharpness before taking a picture.





1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- Menu screen appears.

4. Move the joystick left / right (◀/▶) to select <Sharpness>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.
- **<Soft>(◪)**: The image's edges display softly and you can select this when you want to edit it on the computer.
- **<Normal>(◪)**: The image's edges display sharply, and you can select this when you want to print.
- **<Sharp>(◪)**: As the image's edges are sharpened and emphasised, some noise might occur although it is seen clearly.

6. Press the [MENU] button to exit the menu.
- An icon indicating the selected sharpness appears on the screen.

[Note]

✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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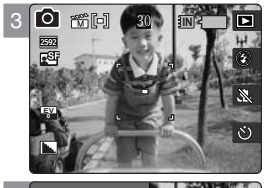
Photo Mode : Setting the Capturing Options

Setting the Focus Method

To have clear image of the subject, you need to set the focus on the subject. Select an appropriate focus method for the best results.



1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- ◆ Menu screen appears.

4. Move the joystick left / right (◀/▶) to select <Focus>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.

6. Press the [MENU] button to exit the menu.
- ◆ An icon indicating the selected focusing mode appears on the screen.

<Multi AF>	You can select this when the subjects are not located in the center of the screen, but you have to focus on numerous spots.
<Center AF>	You can select this when the subject is located in the center of the screen.
<Spot AF>	You can select this when you want to focus exactly on the very narrow area of the main subject.

[Notes]
- ✣ Focus methods can be set only in <Manual> Scene mode. By default, the scene mode is set to <Auto>.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Photo Mode : Setting the Capturing Options

Setting the Macro Mode

Macro mode allows users to have a fine focused image of a close-up subject within 50 cm.

1. Set the Mode Dial to Photo mode.

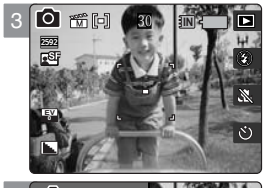
2 Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- ◆ Menu screen appears.

4. Move the joystick left / right (◀/▶) to select <Macro>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.

6. Press the [MENU] button to exit the menu.
- ◆ An icon indicating the selected Macro mode appears on the screen.
- ◆ If <Off> is selected, no icon will be displayed.



Macro Setting	Focus Range
<Off>	50 cm ~ ∞
<Macro>	W: 10 cm ~ ∞
	T: 30 cm ~ ∞
<Super Macro>	W: 1 cm ~ 5 cm

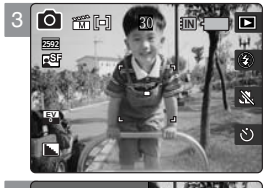
[Notes]
- ✣ Focus methods can be set only in <Manual> Scene mode. By default, the scene mode is set to <Auto>.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

ENGLISH

Photo Mode : Setting the Capturing Options

Setting the Metering Method

Metering controls the brightness and exposure of the picture taken. Select an appropriate metering method for the best results.



1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <Metering>.**
5. **Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.**
6. **Press the [MENU] button to exit the menu.**
   - ◆ An icon indicating the selected Metering mode appears on the screen.

<Multi>	It splits the screen into many areas and adjusts the exposure accordingly based on the center screen and each area's brightness information.
<Center>	Meters only the area displayed in the square in the center of the LCD. You can select this when you want to accurately expose the subject regardless of background brightness.
<Spot>	It meters a very narrow area in the center. You can select this when the subject's surrounding area is very bright or there is a backlight, therefore you can meter the subject accurately.

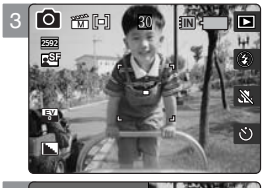
[Notes]

- ✣ Metering methods can be set only in <Manual> Scene mode. By default, the scene mode is set to <Auto>.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Photo Mode : Setting the Capturing Options

Setting the ISO Speed (Sensitivity)

ISO Speed is the rating of a film's sensitivity to light. Though digital cameras don't use film, they normally use the same rating system to describe the sensitivity of the camera's imaging sensor.

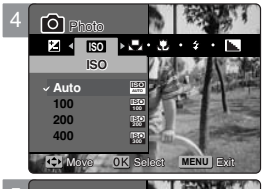


1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.

◆ Menu screen appears.



4. Move the joystick left / right (◀/▶) to select <ISO>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.

6. Press the [MENU] button to exit the menu.

◆ An icon indicating the selected ISO Speed appears on the screen.

AUTO	Automatically sets the ISO according to the light brightness
100	The standard sensitivity rate, and therefore it is the usual shooting sensitivity rate.
200	When you use this in a dark place, you can increase the shutter speed, but it might come out grainy.
400	When you use this in a very dark place, you can greatly increase the shutter speed, but you may get a rough image due to severe graininess.

[Notes]

- The higher the ISO Speed number, the higher sensitivity to light. It results in brighter imaging under darker lighting.
- High ISO Speed setting may result in picture noise.
- ISO Speed can only be set in <Manual> Scene mode. By default, the scene mode is set to <Auto>.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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Photo Mode : Setting the Capturing Options

Setting the White Balance

The White Balance allows calibration of the picture for accurate color display in different lighting conditions. It is recommended to set the white balance prior to any recording.

1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <White Balance>.**
5. **Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.**
6. **Press the [MENU] button to exit the menu.**
   - ◆ An icon indicating the selected white balance appears on the screen.
   - ◆ If <Auto> is selected, no icon will be displayed.

AUTO	Automatically sets according to the shooting environment.
Daylight	Adjusts the color according to daylight/indoor, outdoor light
Cloudy	You can select this when you cannot have daylight as a direct light, such as when it is partly-cloudy or cloudy.
FluorescentH	Suitable in a halogen or 3-wavelength light environment.
FluorescentL	Suitable for a fluorescent light environment.
Tungsten	Suitable for an incandescent light environment.
Custom WB	You can adjust the white balance as you wish based on the shooting environment.

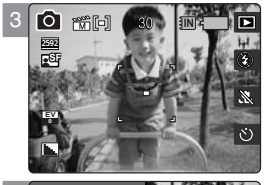
[Notes]

- White Balance can be set only in <Manual> Scene mode. By default, the scene mode is set to <Auto>.
- In general outdoors picture taking, <Auto> setting will allow users to have best results.
- As the lighting condition changes, set the appropriate white balance before taking a picture.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Photo Mode : Setting the Capturing Options

Adjusting the Exposure – Exposure Compensation

You can manually make exposure adjustments using EV Exposure Compensation which allows users to control the amount of light manually when the shutter-release button is released.



1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- ◆ Menu screen appears.

4. Move the joystick left / right (◀/▶) to select <EV>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.
- ◆ -2.0 / -1.6 / -1/3 / -1.0 / -0.6 / -0.3 / 0 / +0.3 / +0.6 / +1.0 / +1.3 / +1.6 / +2.0
- ◆ The screen brightness gets darker when the EV settings goes to a negative setting and gets brighter when it goes to a positive setting.

6. Press the [MENU] button to exit the menu.
- ◆ An icon indicating the selected <EV> mode appears on the screen.

[Warning]
- ✣ Do not let the CCD be exposed to a strong light source for a long time. It may damage the CCD.

[Notes]
- ✣ EV compensation can be set only in <Manual> Scene mode. By default, the scene mode is set to <Auto>.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

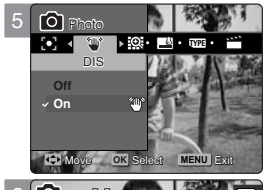
ENGLISH

Photo Mode : Setting the Capturing Options

Setting the DIS (Digital Image Stabiliser)

The Digital Image Stabiliser is a function that compensates for hand shaking and other movement while recording.

DIS provides a more stable picture when:
- ◆ Recording with zoom
- ◆ Recording with a slower shutter speed
- ◆ Recording through the window in a vehicle



1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <DIS>.**
5. **Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.**
   - ◆ **<Off>**: Disables DIS function.
   - ◆ **<On>**: Enables DIS function.
6. **Press the [MENU] button to exit the menu.**
   - ◆ If <On> is selected, < ✋ > icon appears on the screen.

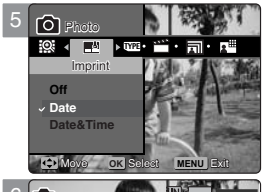
[Warning]
- ✣ DIS has no effect on a moving subject.
- ✣ Purposely moving the device or taking pictures in a moving vehicle will reduce the DIS's effect.

[Notes]
- ✣ It is recommended to use a tripod and external lighting for best results in a dark environment.
- ✣ DIS does not work for video recording.
- ✣ <Multi Shot> mode will cancel the <DIS> setting.
- ✣ If the image quality is set to <Tiff>, <DIS> is not available.
- ✣ If flash is set to fire, <DIS> will not work.
- ✣ When <DIS> is enabled, it takes about 5 seconds to process and save the image.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Photo Mode : Setting the Capturing Options

Setting the Imprint Option

You can imprint Date & Time on pictures taken. To place the date / time information on your picture, set this option.



1. **Set the Mode Dial to Photo mode.**

2. **Press the [POWER] button to turn on the device.**

3. **Press the [MENU] button.**
   - ◆ Menu screen appears.

4. **Move the joystick left / right (◀/▶) to select <Imprint>.**

5. **Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.**
   - ◆ **<Off>**: Cancels imprinting.
   - ◆ **<Date>**: Imprints Date only.
   - ◆ **<Date & Time>**: Imprints Date and Time.

6. **Press the [MENU] button to exit the menu.**

[Notes]

- ✣ Imprinting will print the date (and time) information directly onto the picture, and it will not be erased.
- ✣ Printing an image with imprinted date (and time) information may produce a print which is cropped at the imprinted area.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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Photo Mode : Setting the Capturing Options

Setting the Digital Zoom

As well as the 3x optical zoom, this device supports 5x digital zoom which produces a total of 15x digital zoom.. Exceeding the optical zoom limit will automatically apply digital zooming when available. Digital zoom may produce a grainy picture.

1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- ◆ Menu screen appears.

4. Move the joystick left / right (◀/▶) to select <Digital Zoom>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.
- ◆ **<Off>**: Disables digital zoom. Only optical zoom 3x will be supported for zooming
- ◆ **<On>**: Enables digital zoom. Attempts to zoom in more than 3x will automatically apply digital zooming (up to 15x).

6. Press the [MENU] button to exit the menu.
- ◆ When the digital zoom is activated, an indicator appears on the screen.

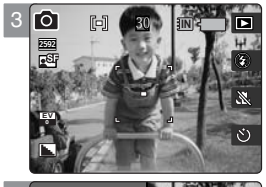
[Note]

✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Photo Mode : Setting the Capturing Options

Setting the Multi Shot

You can take a series of pictures continuously with just one press of the shutter.



1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- ◆ Menu screen appears.

4. Move the joystick left / right (◀/▶) to select <Multi Shot>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.

6. Press the [MENU] button to exit the menu.
- ◆ An icon indicating the selected Multi Shot mode appears on the screen.
- ◆ If <Off> is selected, no icon will be displayed.

Off	Disables Multi Shot and takes one photo at a time.
Multi	Enables Multi Shot and takes 3 photos in a row.
AEB (Automatic Exposure Bracketing)	Enables Multi Shot and takes 3 photos in a row with exposure bracketing of -0.3 EV / 0 EV / +0.3 EV

[Notes]
- ✣ If the Photo File Quality is set to <Tiff>, Multi Shot is not available for setting.
- ✣ When you set the Multi Shot enabled, you cannot use the flash.
- ✣ Restarting the device will cancel the Multi Shot setting.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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Photo Mode : Setting the Capturing Options

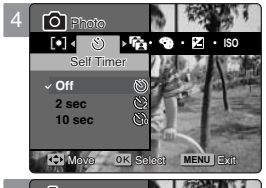
Setting the Self Timer

Using this option, you can take a picture of yourself with delayed shooting.

1. Set the Mode Dial to Photo mode.

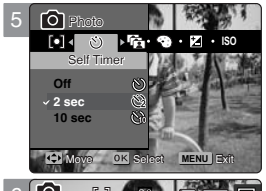
2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- Menu screen appears.

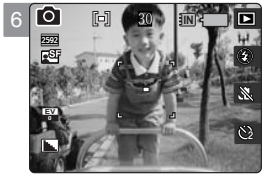


4. Move the joystick left / right (◀/▶) to select <Self Timer>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.



6. Press the [MENU] button to exit the menu.



Off	Cancels the Self Timer.
2 Sec	Sets the delay interval to 2 seconds. Takes a photo 2 seconds after pressing the [Record/Stop]
10 Sec	Sets the delay interval to 2 seconds. Takes photo 10 seconds after pressing the [Record/Stop]

[Notes]
- You can set this option using the shortcut button directly.
- It is recommended to use a tripod for best results on Self Timer pictures.
- Restarting the device will cancel the Self Timer setting.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Photo Mode : Setting the Capturing Options

Setting the Flash

Flash is very useful not only for brighter subjects at night, but also in daytime when there is not enough lighting on the subject, such as in a shadow, indoors, and in backlight situations.

1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <Flash>.**
5. **Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.**
6. **Press the [MENU] button to exit the menu.**
   - ◆ An icon indicating the selected Self Timer mode appears on the screen.
   - ◆ If <Off> is selected, no icon will be displayed.

Off ( )	Flash will go off. Select this option when flash use is limited such as in a museum.
Auto ( )	Flash will be set automatically according to lighting conditions.
Red-eye ( )	Flash will be set automatically according to lighting conditions, with red-eye reduction.
Fill-in ( )	Forces the flash to go off despite the lighting conditions. May not go off under overly strong lighting.
Slow Sync. ( )	To have a brighter subject and scene (backdrop), the camera will first allow longer exposure and then throws the flash on the subject. It is recommended to use a tripod to avoid blurred images.

[Notes]

- ✤ You can set this option using the short cut button directly.
- ✤ Flash mode can only be set in <Manual> Scene mode. By default, the scene mode is set to <Auto>. Refer to page 60 for further details.
- ✤ It is recommended to use a tripod for best results when recording with <Slow Sync.> flash mode.
- ✤ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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Photo Mode : Setting the Capturing Options

Setting the Flash

Supported Flash Modes According to the Scene Modes

	Scene Modes											
	O	O	O	O	O	O	O	O	O	O	O	O
A	O	X	X	X	X	X	X	X	X	X	X	O
	O	O	X	O	O	X	X	X	X	X	X	X
	O	X	X	X	X	X	X	X	X	O	X	X
S	O	X	O	X	X	X	X	X	X	X	X	X

[Notes]

- Do not use flash in a place where flash use is limited, such as in a museum.
- Frequent use of flash consumes more battery power.
- You cannot use flash with <Multi Shot>.
- Effective flash range distance is less than 2 m (7 ft).

Photo Mode : Setting the Capturing Options

Setting Digital Effects

It supports various digital effects you can apply to your photos. Create a professional-looking photo with digital effects.

1. Set the Mode Dial to Photo mode.

2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- ◆ Menu screen appears.

4. Move the joystick left / right (◀/▶) to select <Digital Effect>.

5. Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.

6. Press the [MENU] button to exit the menu.
- ◆ An icon indicating the selected Digital Effect appears on the screen.
- ◆ If <Off> is selected, no icon will be displayed.

Off	Cancel the <Digital Effect>.
Sepia	The picture is displayed in sepia color--similar to that of an old photograph.
Nega	Reverses the colors, creating the look of a negative.
BLK&WHT	Changes the images into black and white.

[Note]

✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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Photo Mode : Setting the Viewing Options

Using the Shortcut Buttons

It supports various digital effects you can apply to your photos. Create a professional -looking photo with the digital effects.

Switching to Photo Capture Mode

1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button.**
   - Each press of the [Shortcut 1] button will toggle between Capture / View mode.
4. **Moves to the Photo View mode.**

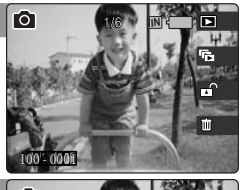
3

4

Viewing a Slideshow

1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 2] button.**
4. **The slideshow begins.**
   - Refer to page 87 for further details on slideshow.
5. **Press the [OK] button to stop the slideshow.**

3

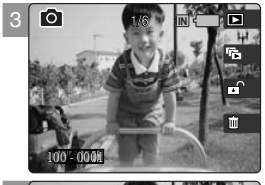


4

Photo Mode : Setting the Viewing Options

Using the Shortcut Buttons

Protecting Photo files



1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 3] button.**
   - Each press of the [Shortcut 3] button will toggle between Locked (🔒) and Unlocked (🔓).
4. **The selected file is protected from erasure.**
   - < 🔒 > icon indicating the selected file is protected appears on the screen.

Deleting Photo files

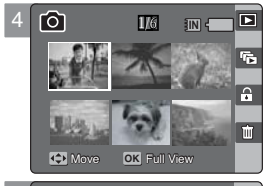
1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 4] button.**
4. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - < 🗑 > icon indicating the selected file is protected appears on the screen.
   - **<Yes>**: Deletes the selected photo.
   - **<No>**: Cancels delete.
   - Refer to page 85 for further details.

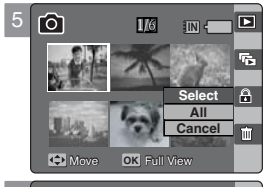
ENGLISH

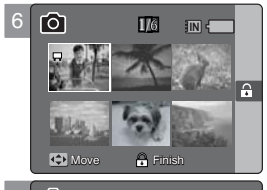
Photo Mode : Setting the Viewing Options

Using the Shortcut Buttons

Protecting Photo files in Multi-View







1. **Set the Mode Dial to Photo mode.**

2. **Press the [POWER] button to turn on the device.**

3. **Press the [Shortcut 1] button.**
   - Switches to Photo view mode.

4. **Move the [W/T] zoom switch to W (WIDE).**
   - The screen switches to multi-view.
   - The photo you were viewing in the single view is selected.

5. **Press the [Shortcut 3] button and then select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Selected photo files will be protected.
   - **<All>**: All photo files will be protected.
   - **<Cancel>**: Cancels protection.

6. **If <Select> was selected, select photo files to protect by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**

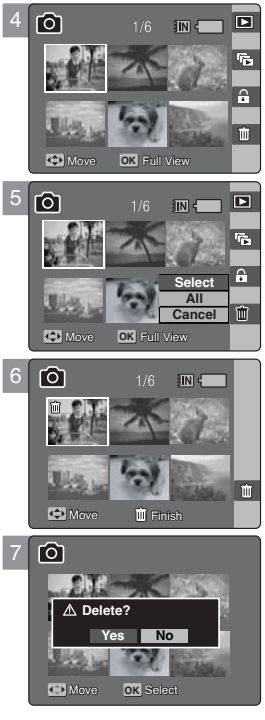
7. **Press the [Shortcut 3] button again.**
   - The message “Protect?” appears.

8. **Select <Yes> to protect the selected photo. Select <No> to cancel protection.**
   - The < 🔒 > icon appears on the selected files (Refer to page 84).

Photo Mode : Setting the Viewing Options

Using the Shortcut Buttons

Deleting Photo files in Multi-View



1. **Set the Mode Dial to Photo mode.**

2. **Press the [POWER] button to turn on the device.**

3. **Press the [Shortcut 1] button.**
   - Switches to Photo view mode.

4. **Move the [W/T] zoom switch to W (WIDE).**
   - The screen switches to multi-view.
   - The photo you were viewing in the single view is selected.

5. **Press the [Shortcut 4] button and then select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Selected photo files will be deleted.
   - **<All>**: All photo files will be deleted.
   - **<Cancel>**: Cancels deletion.

6. **If <Select> was selected, select photo files to delete by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - < 🗑 > icon appears on the selected files.

7. **Press the [Shortcut 4] button again.**
   - The message “Delete?” appears.

8. **Select <Yes> to delete selected files. Select <No> to cancel deletion. Refer to page 85 for further details.**

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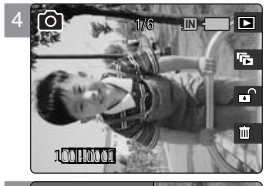
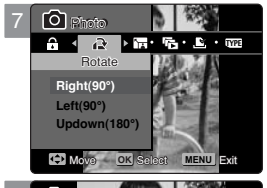
Photo Mode : Setting the Viewing Options

Rotating a Photo File

You can rotate a saved photo.





1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Photo viewing mode.**
4. **Move the joystick left / right (◀/▶) to select a photo.**
5. **Press the [MENU] button.**
   - Menu screen appears.
6. **Move the joystick left / right (◀/▶) to select <Rotate>.**
7. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Right(90°)>:** Rotates the photo clockwise by 90°.
   - **<Left(90°)>:** Rotates the photo counterclockwise by 90°.
   - **<Updown(180°)>:** Flips the image up and down (Rotates 180°).
8. **Press the [MENU] button to exit the menu.**

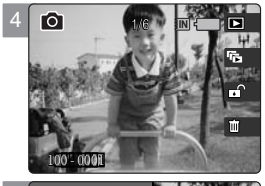
[Notes]

- Rotated images having a portrait ratio will have black margins on both the left / right corners of the LCD when it is displayed.
- Rotating will not affect the image quality or resolution.
- A cropped and newly saved image cannot be rotated.
- A rotated image cannot be cropped.
- TIFF images cannot be rotated.
- Rotated images may not appear as rotated on a PC.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Photo Mode : Setting the Viewing Options

Resizing Photos

You can resize a saved photo to be smaller than original. Making a bigger image file is not supported.



1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Photo viewing mode.**
4. **Move the joystick left / right (◀/▶) to select a photo.**
5. **Press the [MENU] button.**
   - Menu screen appears.
6. **Move the joystick left / right (◀/▶) to select <Resize>.**
7. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - <4M>/ <3M> / <2M> / <1M> / VGA
   - You can only resize a saved photo to be smaller than the original.
8. **Press the [MENU] button to exit the menu.**

[Notes]

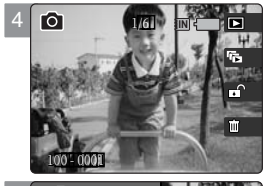
- Only JPEG images can be resized. TIFF images and video files cannot be resized.
- Resized photos are saved separately. The original photo will not be deleted.
- Rotated photos cannot be resized.
- If there is not enough space to save the resized photo, the message “Memory Full!” will appear and the resizing will be canceled.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

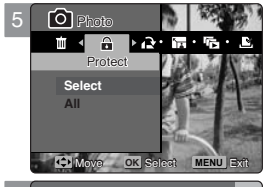
ENGLISH

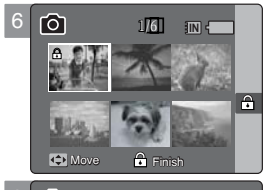
Photo Mode : Setting the Viewing Options

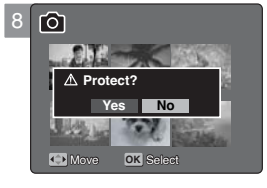
Protecting Photo Files

You can protect saved important photo files from accidental erasure.









1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Photo viewing mode.**
4. **Press the [MENU] button.**
   - Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Protect>.**
6. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Multi-view screen appears and you can select photo files to protect.
   - **<All>**: All photo files will be protected.
     If <All> is selected, the message “Protect All?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
7. **If <Select> is selected, Multi-view screen appears. Select photo files to protect by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - An icon (🔒) indicating selected file is to be protected appears.
8. **Press the [Shortcut 3] button.**
   - The message “Protect?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
9. **Press the [MENU] button to exit the menu.**

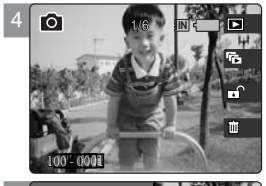
[Notes]

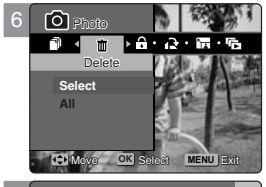
- ✣ You can easily access this function by using the shortcut button (refer to page 79).
- ✣ When you attempt to delete a protected file, you will hear a warning beep.
  When you set the Beep Sound to Off, there will be no beep sound but the message “Protect” appears on the screen and the file will not be deleted.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

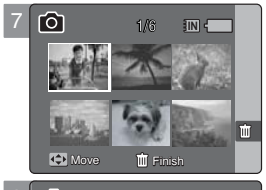
Photo Mode : Setting the Viewing Options

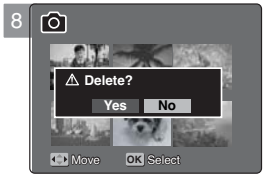
Deleting Photo Files

You can delete saved photo files.









1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Photo viewing mode.**
4. **Press the [MENU] button.**
   - Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Delete>.**
6. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Multi-view screen appears and you can select photo files to delete.
   - **<All>**: All photo files will be deleted.
     If <All> is selected, the message "Delete All?" appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
7. **If <Select> is selected, Multi-view screen appears. Select photo files to delete by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - An icon (🗑) indicating the selected file to be deleted appears.
8. **Press the [Shortcut 4] button.**
   - The message "Delete?" appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
9. **Press the [MENU] button to exit the menu.**

[Notes]

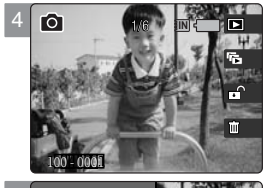
- ✤ You can easily access this function by using the shortcut button (refer to page 81).
- ✤ When you attempt to delete a protected file, you will hear a warning beep.
  When you set the Beep Sound to Off, there will be no beep sound but the message "Protect" appears on the screen and the file will not be deleted.
- ✤ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

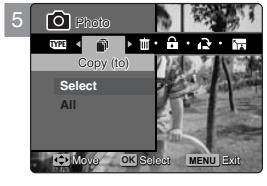
ENGLISH

Photo Mode : Setting the Viewing Options

Copying Photo Files

You can copy saved photo files from the built-in internal memory onto an external mini SD Memory Card and vice-versa.





1. Set the Mode Dial to Photo mode.
2. Press the [POWER] button to turn on the device.
3. Press the [Shortcut 1] button to switch to Photo viewing mode.
4. Press the [MENU] button.
- Menu screen appears.

5. Move the joystick left / right (◀/▶) to select <Copy (to)>.
6. Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.
- **<Select>**: Multi-view screen appears and you can select photo files to copy.
- **<All>**: All photo files will be copied.
  If <All> is selected, the message “Copy All?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.

7. If <Select> is selected, Multi-view screen appears. Select photo files to copy by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.
- An icon ( ) indicating the selected file to be copied appears.

8. Press the [Shortcut 4] button.
- The message “Copy?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.

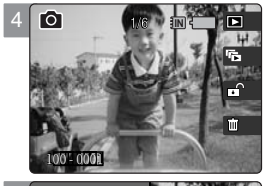
9. Press the [MENU] button to exit the menu.

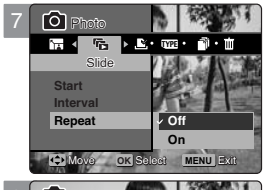
[Notes]
- It copies from the currently-used memory to another. If the internal memory was used, it copies to an external mini SD Memory Card.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Photo Mode : Setting the Viewing Options

Setting the Slideshow

You can set a slideshow, and also set the interval and repetition options for the slideshow.





1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Photo viewing mode.**
4. **Press the [MENU] button.**
   - ◆ Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Slide>.**
6. **Select <Interval> by moving the joystick up / down (▲/▼) and then press the [OK] button.**
7. **Set the interval by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - ◆ Interval range: 1 ~ 10 seconds
8. **Select <Repeat> by moving the joystick up / down (▲/▼) and then press the [OK] button.**
9. **Set the repeat option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - ◆ **<On>**: Sets to repeat the slideshow.
   - ◆ **<Off>**: Sets not to repeat the slideshow.
10. **Select <Start> by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - ◆ Slideshow starts. To stop the slideshow, press the [OK] button.

[Notes]

- ✣ You can easily access this function by using the shortcut button (refer to page 78).
- ✣ The interval between photos may vary depending on the size of the photo.
- ✣ Slideshow starts from the current photo displayed.
- ✣ TIFF images are not displayed in a slideshow.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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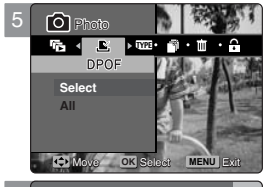
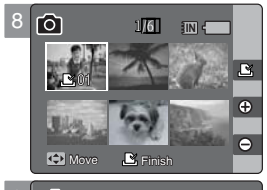
Photo Mode : Setting the Viewing Options

Setting the DPOF (Digital Print Order Format) Function

You can automatically print a photo file recorded with a printer that supports DPOF.





1. **Set the Mode Dial to Photo mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Photo viewing mode.**
4. **Press the [MENU] button.**
   - Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <DPOF>.**
6. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Multi-view screen appears and you can select photo files to set DPOF printing.
   - **<All>**: All photo files will be marked with DPOF printing.
     If <All> is selected, the message "DPOF All?" appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
7. **If <Select> is selected, Multi-view screen appears. Select the photo files to delete by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
8. **Set the number of prints by using the [Shortcut 3] and [Shortcut 4] buttons and then press the [Shortcut 2] button.**
   - The [Shortcut 3] button will increase the number of prints while the [Shortcut 4] will decrease it.
9. **The message "DPOF?" appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.**
10. **Press the [MENU] button to exit the menu.**

[Notes]

- Please refer to the product instructions for further details on DPOF printer use.
- Using a printer that supports DPOF allows users to directly print photos stored in a Memory Card without a PC.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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3 Movie Mode

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Movie Mode : Recording a Movie

Recording a Movie

You can record moving pictures and store it in memory.

1. Set the Mode Dial to Movie mode.

2. Press the [POWER] button to turn on the device.

3. Press the [Record / Stop] button.
- It starts to record.

4. To stop recording, press the [Record / Stop] button again.
- It stops recording, and stands by.

3

4

Reading the Counter

- The timestamp will be recorded along with the video to support users with a faster search.
- 00:00:16: Elapsed Recording Time
  REM 4 Min: Remaining Recording Time

[Notes]
- When you are finished taking pictures, please turn off the device to conserve battery power.
- You can adjust the brightness of the LCD monitor to have a clearer view (refer to page 37).
- The brightness of the LCD monitor will not affect the brightness of the recordings.

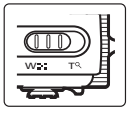
Movie Mode : Recording a Movie

Zooming In and Out

Zooming allows you to change the size of the subject captured in a scene.
You can take advantage of the 3x optical electro motion zoom lens.

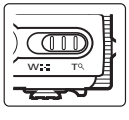
Before You Start

1. Set the Mode **Dial to Photo** mode.
2. Press the [POWER] button to turn on the device.
   The Photo Capture screen appears.



Move the [W/T] zoom switch to W (WIDE).

- The shot subject's size is reduced, and you can take a picture as if you were far away from the subject.
- At the zoom indicator in the LCD screen, the arrow moves to W.
- The smallest rate of zoom out is the default rate (original resolution of the subject).



Move the [W/T] zoom switch to T (TELE).

- The subject is larger, and you can take a picture as if you were close to the subject.
- At the zoom indicator the arrow moves to T.
- The largest optical zoom is 3x, which is the biggest among the basic zoom.

Zoom Out

Zoom In

[Notes]

- ✤ Frequent use of zooming may result in higher battery consumption.
- ✤ You can take advantage of the 5x digital zoom as well as the 3x optical zoom for a total of 15x zoom.
- ✤ Optical zoom preserves image quality.

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Movie Mode : Playing a Movie

Playing a Movie on the LCD Monitor

It is handy and practical to view movie files using the LCD monitor almost anywhere such as in a car, indoors, or outdoors.

1. Set the Mode Dial to Movie mode.

2. Press the [POWER] button to turn on the device.

3. Press the [Shortcut 1] button.
- ◆ Switches to Movie View mode.

4. Move the joystick left / right (◀/▶) to select a movie and then press the [OK] button.

5. It starts to play back. Each press of the [OK] button toggles between play / pause.
- ◆ To pause playback, press the [OK] button.
- ◆ To stop playback, press and hold the [OK] button for more than 3 seconds.

6. To adjust volume, move the joystick up / down (▲/▼).
- ◆ The volume indicator appears and disappears after a few seconds.

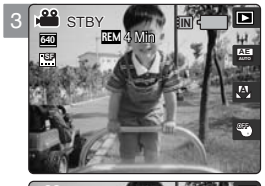
[Notes]
- ✣ If there is no file stored to view, the message <"No Files…"> appears.
- ✣ You can adjust the volume up to 10 levels.
- ✣ When the earphones or AV (Audio / Video) cable is connected to the device, the built-in speaker will automatically turn off.
- ✣ You can also play the video file on a TV screen by connecting the CAM to a TV. (Refer to page XX)
- ✣ A video CODEC is required to play the video files recorded on the CAM on a computer.
  Install the software provided in the bundled CD to have the CODEC automatically installed on your system. If you do not have the CD, search the product model name on the Download Center from the Samsung Electronics website to get the CODEC installation file (refer to page 131).

Movie Mode : Setting the Recording Options

Using the Shortcut Buttons

Shortcut buttons are provided to allow users easy access to frequently-used functions.

Switching to Movie View Mode



1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button.**
   - Each press of the [Shortcut 1] button toggles between the Movie Record / View modes.

Setting the Program AE

1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 2] button.**
   - Each press of the [Shortcut 2] button cycles through < >< >< >< > Program AE modes.
4. **An icon indicating the selected Program AE mode appears on the screen** (refer to page 96).

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Movie Mode : Setting the Recording Options

Using the Shortcut Buttons

Shortcut buttons are provided to allow users easy access to frequently used functions.

Setting the White Balance

1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 3] button.**
   - Each press of the [Shortcut 3] button cycles through the < >< >< >< >< > < > flash modes
4. **An icon indicating the selected White Balance mode appears on the screen** (refer to page 95)**.**

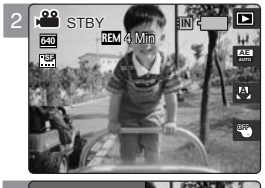
Setting the Digital Effect

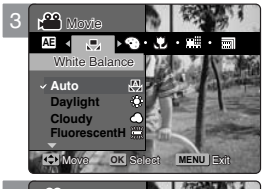
1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 4] button.**
   - Each press of the [Shortcut 2] button cycles through the < >< >< >< > Digital Effects.
4. **An icon indicating the selected Digital Effect appears on the screen** (refer to page 102)**.**

Movie Mode : Setting the Recording Options

Setting the White Balance

The White Balance allows calibration of the picture for accurate color display in different lighting conditions. It is recommended to set the white balance prior to any recording.





1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <White Balance>.**
5. **Move the joystick up / down (▲/▼) to select an option, and then press the [OK] button.**
6. **Press the [MENU] button to exit the menu.**
   - ◆ An icon indicating the selected White Balance appears on the screen.
   - ◆ If <Auto> is selected, no icon will be displayed.

AUTO	Automatically sets according to the shooting environment.
Daylight	Adjusts the color according to daylight/indoor, outdoor light
Cloudy	You can select this when you cannot have daylight as a direct light, such as when it is partly-cloudy or cloudy.
FluorescentH	Suitable in a halogen or 3-wavelength light environment.
FluorescentL	Suitable for a fluorescent light environment.
Tungsten	Suitable for an incandescent light environment.
Custom WB	You can adjust the white balance as you wish based on the shooting environment.

[Notes]

- ✣ You can easily access this function by using the shortcut button (refer to page 94).
- ✣ In general outdoors recording, <Auto> setting will allow users to achieve the best results.
- ✣ As the lighting conditions change, set the appropriate white balance before recording.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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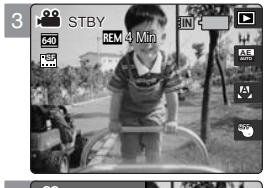
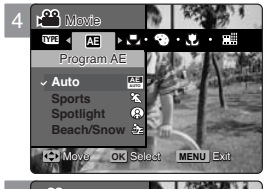
Movie Mode : Setting the Recording Options

Setting the Program AE

Program AE modes are preset automatic exposure modes based upon an internal computer program. It helps to set appropriate exposure according to the internal light meter and the program's calculations, allowing users to achieve the best results under various recording conditions.





1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <Program AE>.**
5. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Auto> ( )** : Balances exposure and shutter speed to get the best results automatically.
   - **<Sports> ( )** : For recording fast-moving objects. It is suitable for sporting events and recording the outside from inside of a vehicle.
   - **<Spotlight> ( )**: Compensates for a subject that appears too bright under strong direct light such as a spotlight. It is suitable for recording conditions such as concerts and school performances.
   - **<Beach / Snow> ( )**: When the light is very strong, such as on a beach or in the snow.
6. **Press the [MENU] button to exit the menu.**
   - An icon indicating the selected Program AE mode appears on the screen.
   - If <Auto> is selected, no icon will be displayed.

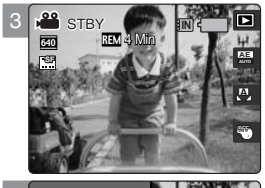
[Notes]

- You can easily access this function by using the shortcut button (refer to page 93).
- You cannot set <Macro> when you are using Program AE mode other than <Auto>.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Movie Mode : Setting the Recording Options

Setting the Macro Mode

Macro mode allows users to have fine focused image of the closed-up subject within 50 cm.



1. Set the Mode Dial to Movie mode.

2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- ◆ Menu screen appears.

4. Move the joystick left / right (◀/▶) to select <Macro>.

5. Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.
- ◆ Press the [MENU] button to exit the menu.
- ◆ An icon indicating the selected Macro mode appears on the screen.

Macro Setting	Focus Range
<Off>	50 cm ~ ∞
<Macro>	W: 10 cm ~ ∞ T: 30 cm ~ ∞
<Super Macro>	W: 1 cm ~ 5 cm

[Notes]
- ✣ When you use Macro mode and record a close-up subject, be careful not to shade your subject.
- ✣ As the distance gets closer, the focused area gets narrower.
- ✣ If the focus will not set, try to put more distance between you and the subject.
- ✣ It is recommended to use a tripod to avoid unstable picture taking and have best results.
- ✣ <Macro> setting is available only when you set Program AE to <Auto>.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

ENGLISH

Movie Mode : Setting the Recording Options

Setting the Movie File Size

1. **Set the Mode Dial to Movie mode.**

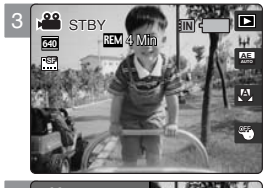
2. **Press the [POWER] button to turn on the device.**

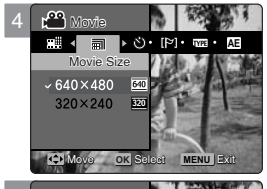
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.

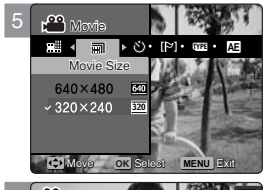
4. **Move the joystick left / right (◀/▶) to select <Movie Size>.**

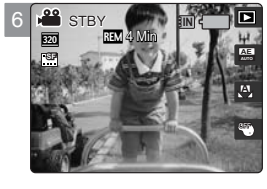
5. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - ◆ Available options are: <640x480> / <320x240>

6. **Press the [MENU] button to exit the menu.**
   - ◆ An icon indicating the selected Movie Size appears on the screen.









[Notes]

- ✣ Higher resolution requires more memory space, which results in shorter maximum recording time.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Movie Mode : Setting the Recording Options

Setting the Movie File Quality

1. **Set the Mode Dial to Movie mode.**

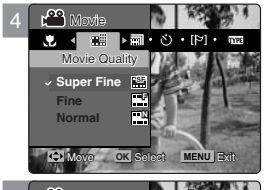
2. **Press the [POWER] button to turn on the device.**

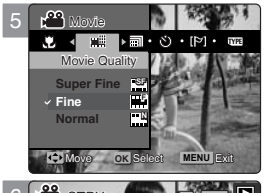
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.

4. **Move the joystick left / right (◀/▶) to select <Movie Quality>.**

5. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - ◆ Available options are: <Super Fine> / <Fine> / <Normal>

6. **Press the [MENU] button to exit the menu.**
   - ◆ An icon indicating the selected Movie Quality appears on the screen.





[Note]

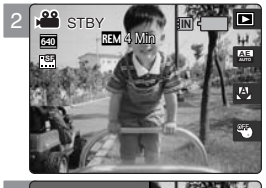
✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

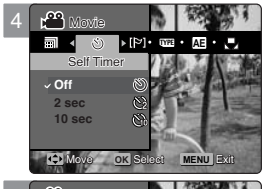
ENGLISH

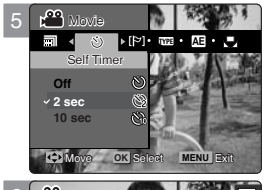
Movie Mode : Setting the Recording Options

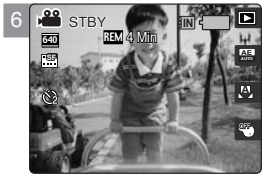
Setting the Self Timer

Using this option, you can take pictures of yourself with delayed shooting.









1. **Set the Mode Dial to Photo mode.**

2. **Press the [POWER] button to turn on the device.**

3. **Press the [MENU] button.**
   - ◆ Menu screen appears.

4. **Move the joystick left / right (◀/▶) to select <Self Timer>.**

5. **Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.**

6. **Press the [MENU] button to exit the menu.**
   - ◆ An icon indicating the selected Self Timer mode appears on the screen.
   - ◆ If <Off> is selected, no icon will be displayed.

Off	Cancels the Self Timer.
2 Sec	Sets the delay interval to 2 seconds. Takes a photo 2 seconds after pressing the [Record/Stop]
10 Sec	Sets the delay interval to 2 seconds. Takes a photo 10 seconds after pressing the [Record/Stop]

[Notes]
- ✣ It is recommended to use a tripod for the best results for Self Timer recordings.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Movie Mode : Setting the Recording Options

Setting the Wind Cut

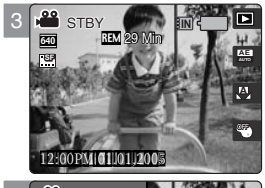
1. Set the Mode Dial to Movie mode.

2. Press the [POWER] button to turn on the device.

3. Press the [MENU] button.
- ◆ Menu screen appears.

4. Move the joystick left / right (◀/▶) to select <Wind Cut>.
- ◆ **<Off>**: Sets off Wind Cut.
- ◆ **<On>**: Sets on Wind Cut to reduce wind noise.

5. Press the [MENU] button to exit the menu.
- ◆ If <On> is selected, < [⊳] > icon appears on the screen.



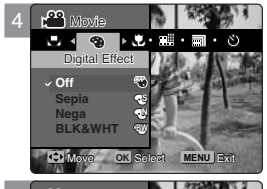
[Notes]
- ✣ When Wind Cut is enabled, a bit of low-frequency band (bass) sound will be reduced along with the wind noise. It is a normal result, not a malfunction.
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

ENGLISH

Movie Mode : Setting the Recording Options

Setting the Digital Effects

It supports various digital effects you can apply to your video. Create a professional-looking video with digital effects.



1. **Set the Mode Dial to Movie mode.**

2. **Press the [POWER] button to turn on the device.**

3. **Press the [MENU] button.**
   - ◆ Menu screen appears.

4. **Move the joystick left / right (◀/▶) to select <Digital Effect>.**

5. **Select an option by moving the joystick up / down (▲/▼), and then press the [OK] button.**

6. **Press the [MENU] button to exit the menu.**
   - ◆ An icon indicating the selected Digital Effect appears on the screen.
   - ◆ If <Off> is selected, no icon will be displayed.

Off	Cancel the <Digital Effect>. Takes video in normal mode.
Sepia	The picture is displayed in sepia color--similar to that of an old photograph.
Nega	Reverses the colors, creating the look of a negative.
BLK&WHT	Changes the images into black and white.

[Notes]
- ✣ You can easily access this function by using the shortcut button (refer to page 94).
- ✣ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Movie Mode : Setting the Viewing Options

Using the Shortcut Buttons

Shortcut buttons are provided to allow users easy access to frequently-used functions.

Switching to Movie View Mode

1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button.**
   - ◆ Each press of the [Shortcut 1] button toggles between the Movie record / view modes.

3

Viewing the Slideshow

1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 2] button.**
4. **The slideshow begins. To pause the slideshow, press the [OK] button.**
   - ◆ Refer to page 110 for further details on slideshow.

3

4

ENGLISH

Movie Mode : Setting the Viewing Options

Using the Shortcut Buttons

Shortcut buttons are provided to allow users easy access to frequently-used functions.

Protecting a Movie File

1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 3] button.**
   - Each press of the [Shortcut 3] button toggles between Locked (🔒) and Unlocked (🔓).
4. **The protected movie file is protected from an accidental erasure.**
   - Refer to page 107 for further details.

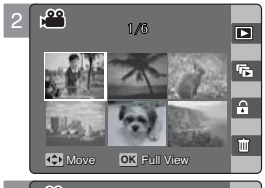
Deleting a Movie File

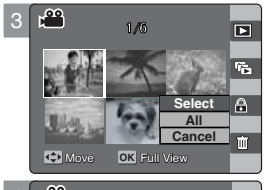
1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 4] button.**
4. **Select an option by moving the joystick left / right (◀/▶) button, and then press the [OK] button.**
   - **<Delete>**: Deletes the selected movie file. Refer to page 108 for further details.
   - **<Cancel>**: Cancels the deletion.

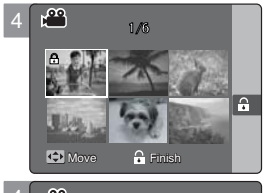
Movie Mode : Setting the Viewing Options

Using the Shortcut Buttons

Protecting Movie files in Multi-View







1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button.**
   - It switches to the Movie view mode.
4. **Move the [W/T] zoom switch to W (WIDE).**
   - The screen switches to multi-view.
   - The movie you were viewing in the single view is selected.
5. **Press the [Shortcut 3] button and then select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Selected files will be protected.
   - **<All>**: All files will be protected.
   - **<Cancel>**: Cancels protection.
6. **If <Select> was selected, select photo files to protect by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - < 🔒 > icon appears on the selected files.
7. **Press the [Shortcut 3] button again.**
   - The message <"Protect?"> appears.
8. **Select <Yes> to protect selected files. Select <No> to cancel protection.**
   - If <Yes> was selected, < 🔒 > icon appears on the protected files.

[Notes]

- When you attempt to delete a protected file, you will hear a warning beep.
- When you set the Beep Sound to Off, there will be no beep sound but the message "Protect" appears on the screen and the file will not be deleted.

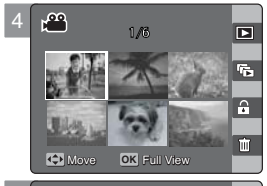
ENGLISH

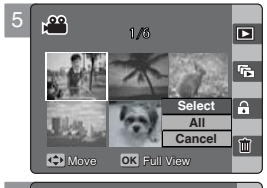
Movie Mode : Setting the Viewing Options

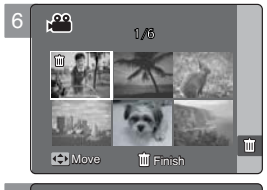
Using the Shortcut Buttons

Deleting Movie files in Multi-View

1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button.**
   - Switches to Photo view mode.
4. **Move the [W/T] zoom switch to W (WIDE).**
   - The screen switches to multi-view.
   - The movie you were viewing in the single view is selected.
5. **Press the [Shortcut 4] button and then select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Selected photo files will be deleted.
   - **<All>**: All photo files will be deleted.
   - **<Cancel>**: Cancels deletion.
6. **If <Select> was selected, select photo files to delete by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - < 🗑 > icon appears on the selected files.
7. **Press the [Shortcut 4] button again.**
   - The message <"Delete?"> appears.
8. **Select <Yes> to delete selected files. Select <No> to cancel deletion.**
   - Refer to page 108 for further details.







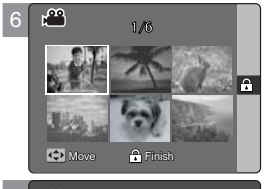
[Notes]

- When you attempt to delete a protected file, you will hear a warning beep.
- When you set the Beep Sound to Off, there will be no beep sound but the message "Protect" appears on the screen and the file will not be deleted.

Movie Mode : Setting the Viewing Options

Protecting Movie Files

You can protect saved important movie files from accidental erasure.



1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Movie viewing mode.**
4. **Press the [MENU] button.**
   - Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Protect>.**
6. **Select an option by by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Multi-view screen appears and you can select movie files to protect.
   - **<All>**: All files will be protected.
     If <All> is selected, the message "Protect All?" appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
7. **If <Select> is selected, Multi-view screen appears. Select files to protect by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - An icon (🔒) indicating the selected file to be protected appears.
8. **Press the [Shortcut 3] button.**
   - The message "Protect?" appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
9. **Press the [MENU] button to exit the menu.**

[Notes]

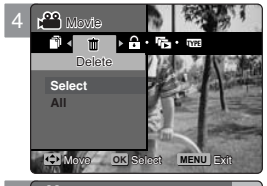
- ✤ You can easily access this function by using the shortcut button (refer to page 104).
- ✤ When you attempt to delete a protected file, you will hear a warning beep.
  When you set the Beep Sound to Off, there will be no beep sound but the message "Protect" appears on the screen and the file will not be deleted.
- ✤ While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

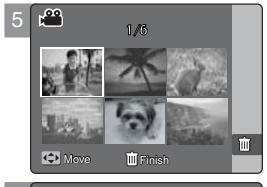
ENGLISH

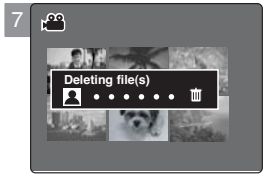
Movie Mode : Setting the Viewing Options

Deleting Movie Files

You can delete saved movie files.







1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Movie viewing mode.**
4. **Press the [MENU] button.**
   - Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Delete>.**
6. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Multi-view screen appears and you can select movie files to delete.
   - **<All>**: All files will be deleted.
     If <All> is selected, the message “Delete All?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
7. **If <Select> is selected, Multi-view screen appears. Select files to delete by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - An icon (🗑) indicating the selected file to be deleted appears.
8. **Press the [Shortcut 4] button.**
   - The message “Delete?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
9. **Press the [MENU] button to exit the menu.**

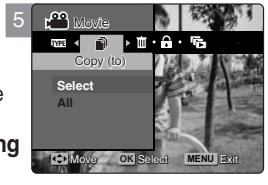
[Notes]

- You can easily access this function by using the shortcut button (refer to page 104).
- When you attempt to delete a protected file, you will hear a warning beep.
  When you set the Beep Sound to Off, there will be no beep sound but the message “Protect” appears on the screen and the file will not be deleted.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

Movie Mode : Setting the Viewing Options

Copying Movie Files

You can copy saved files from the built-in internal memory to the external mini SD Memory Card and vice versa.



1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Movie viewing mode.**
4. **Press the [MENU] button.**
   - Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Copy (to)>.**
6. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: Multi-view screen appears and you can select files to copy.
   - **<All>**: All files will be copied.
     If <All> is selected, the message “Copy All?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
7. **If <Select> is selected, Multi-view screen appears. Select files to copy by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - An icon ( ) indicating selected file is to be copied appears.
8. **Press the [Shortcut 4] button.**
   - The message “Copy?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
9. **Press the [MENU] button to exit the menu.**

[Notes]

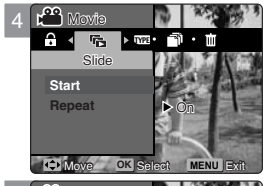
- It copies from the currently-used memory to another. If the internal memory was used, it copies to an external mini SD Memory Card.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

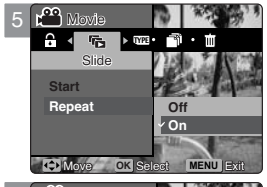
ENGLISH

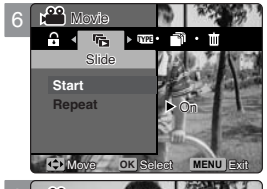
Movie Mode : Setting the Viewing Options

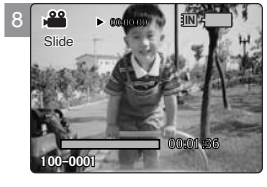
Setting the Slideshow

You can set a slideshow and also set the repeat option for slideshows.









1. **Set the Mode Dial to Movie mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Movie viewing mode.**
4. **Press the [MENU] button.**
   - Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Slide>.**
6. **Select <Repeat> by moving the joystick up / down (▲/▼) and then press the [OK] button.**
7. **Set the repeat option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Off>**: Sets not to repeat the slideshow.
   - **<On>**: Sets to repeat the slideshow.
8. **Select <Start> by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - Slideshow starts.
   - To stop the slideshow, press the [OK] button.
   - To start the slideshow again, press the [Shortcut 2] button.

[Notes]

- You can easily access this function by using the shortcut button (refer to page 103).
- The interval between files may vary depending on the size of the movie.
- Slideshow starts from the current movie selected.
- While the menu screen is displayed, pressing the [Record / Stop] button will exit the menu.

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4 Music Mode

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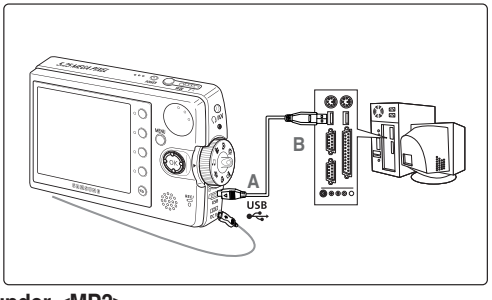
Music Mode : Playing Music Files

Copying Music Files from a PC

You can copy music files from a PC while connected to the PC with a USB cable.

1. **Set the Mode Dial to Music mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button to select destination memory** (refer to page 49)**.**
4. **Connect the Miniket Photo to the PC using the USB cable provided** (refer to page 133)**.**
   - ◆ Connect the USB cable to the device.
   - ◆ Connect the other end of the USB cable to the PC.
5. **Windows finds a new USB mass storage device. Open the folder <MSAMSUNG> and you will find <MP3> folder.**
6. **Copy your music files and paste it into the folder <MUSIC1>, <MUSIC2>, <MUSIC3> or <MUSIC4>. Be sure to copy your MP3 files into the existing folders under <MP3>.**



[Warning]

- ✣ IYou cannot create a new folder on your Miniket Photo set.
- ✣ If you create a new folder on your memory card with a PC, it will not play back music files stored on it.

[Notes]

- ✣ The music played back will begin with the first music file that is stored in the top folder (MUSIC1).
- ✣ It is recommended that you use an AC Power Adapter during the file transfer to avoid unintended power outage.
  The built-in internal memory of the device appears as <Miniket> on a PC while the external memory card (mini SD Memory Card) will appear as <Removable Storage>.

Music Mode : Playing Music Files

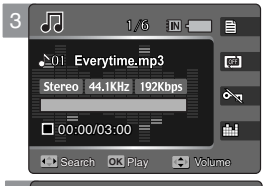
Playing Music Files

You can play back stored music files.

1. Set the Mode Dial to Music mode.

2. Press the [POWER] button to turn on the device.

3. The last file played back is displayed.
- ◆ If there is no music file stored, the message “No Stored Music!” appears.

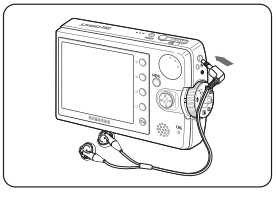


4. Select a music file to play by moving the joystick left / right (◀/▶) button, and then press the [OK] button.

5. The selected music file is played back.
- ◆ To pause playback, press the [OK] button.
- ◆ To stop playback, press and hold the [OK] button for more than 3 seconds.
- ◆ To search backward / forward during play, hold down the joystick left or right (◀/▶) for more than 1 second.
- ◆ To adjust volume, move joystick up / down (▲/▼).
  Volume indicator appears and disappears after few seconds.

How to Connect Earphones

Connect your earphones as shown in the figure.



[Notes]
- ✣ If a broken file name is displayed, try renaming it.
- ✣ When the earphones or AV (Audio / Video) cable is connected to the device, the built-in speaker will turn off automatically.
- ✣ A file which does not comply with the MP3 standard, even if the file extension is MP3, will not display / play back.
- ✣ The title may not be displayed if the language is not supported.
- ✣ Holding the joystick left / right (◀/▶) for more than 1 second while stopped will rapidly skip to the previous / next file rapidly.

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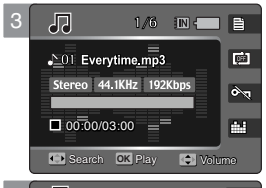
Music Mode : Setting the Music Play Options

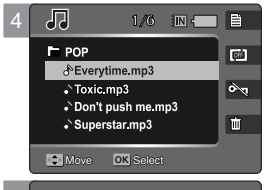
Using the Shortcut Buttons

Shortcut buttons are provided to allow users easy access to frequently-used functions.

Viewing the Playlist

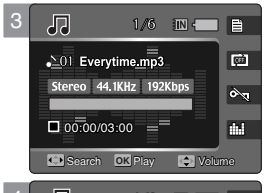
1. **Set the Mode Dial to Music mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button.**
   - It moves to the playlist view.
4. **Select a music file by moving the joystick left / right / up / down (◀/▶/▲/▼), and then press the [OK] button.**
   - The selected music file is played back.

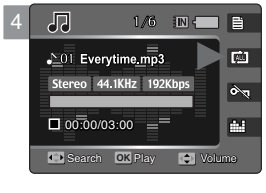




Setting the Repeat Option

1. **Set the Mode Dial to Music mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 2] button.**
   - Each press of the [Shortcut 2] button cycles through < >-< >-< >-< >-< > repeat modes.
4. **An icon indicating the selected repeat mode appears on the screen** (Refer to page 116).





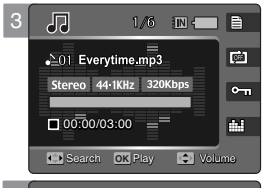
Music Mode : Setting the Music Play Options

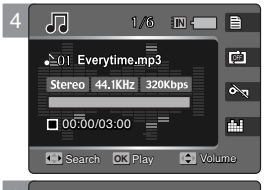
Using the Shortcut Buttons

Shortcut buttons are provided to allow users easy access to frequently used functions.

Setting to Hold

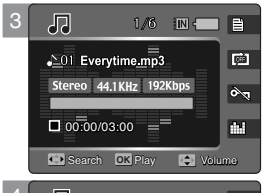
1. **Set the Mode Dial to Music mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 3] button.**
   - Each press of the [Shortcut 3] button toggles between ( ) and ( ).
4. **When it is set to hold ( ), button functions are locked except Mode Dial.**
   - It helps so as not to disturb listening.

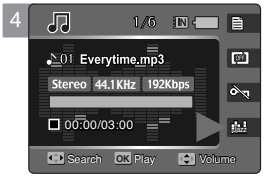




Setting the Equaliser

1. **Set the Mode Dial to Music mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 4] button.**
   - Each press of the [Shortcut 2] button cycles through <>-<POP>-<JAZZ>-<CLASS> Equaliser modes.
4. **An icon indicating the selected Equaliser appears on the screen** (Refer to page 117)**.**



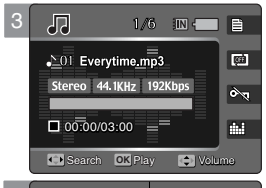


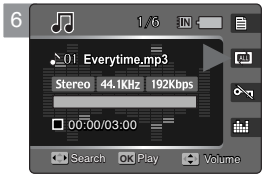
ENGLISH

Music Mode : Setting the Music Play Options

Setting the Repeated Play

You can repeat a selected music file or group of music files.





1. **Set the Mode Dial to Music mode.**

2. **Press the [POWER] button to turn on the device.**

3. **Press the [MENU] button.**
   - Menu screen appears.

4. **Move the joystick left / right (◄/►) to select <Repeat>.**

5. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Off>**: No repeat
   - **<One>**: One selected music file will play repeatedly.
   - **<Group>**: The selected group of music files will play repeatedly.
   - **<All>**: All music files will play through in order and start again from the beginning.
   - **<Shuffle>**: All music files will play in random order once and start again.

6. **Press the [MENU] button to exit the menu.**

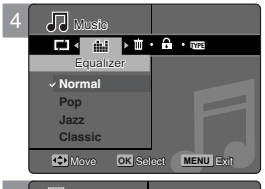
[Notes]

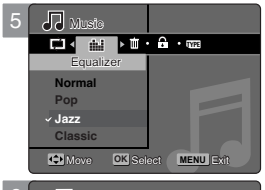
- You can easily access this function by using the shortcut button (refer to page 114).
- When the earphones or AV (Audio / Video) cable is connected to the device, the <Beep Sound> will not operate.

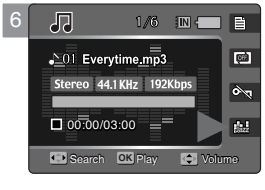
Music Mode : Setting the Music Play Options

Setting the Equaliser

You can repeat a selected music file or group of music files.







1. **Set the Mode Dial to Music mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <Equalizer>.**
5. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - ◆ <Normal> / <Pop> / <Jazz> / <Classic>
6. **Press the [MENU] button to exit the menu.**

[Note]

✣ You can easily access this function by using the shortcut button (refer to page 115).

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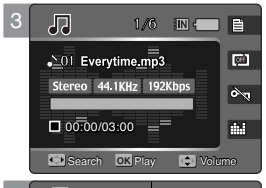
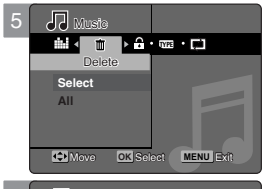
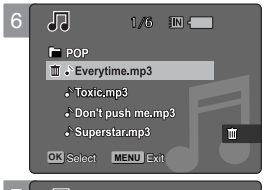
Music Mode : Setting the Music Play Options

Deleting Music Files

You can delete stored music files.







1. **Set the Mode Dial to Music mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <Delete>.**
5. **Select an option by moving the joystick up / down (▲/▼) button and then press the [OK] button.**
   - ◆ **<Select>**: The Playlist appears and you can select files to delete.
   - ◆ **<All>**: All music files will be deleted.
     If <All> is selected, the message “Delete All?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
6. **If <Select> was selected, select files to protect moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - ◆ <🗑> icon appears on the selected files.
7. **Press the [Shortcut 4] button.**
   - ◆ The message “Delete?” appears.
8. **Select <Yes> to delete selected files. Select <No> to cancel deletion.**
   - ◆ Press the [MENU] button to exit the menu.

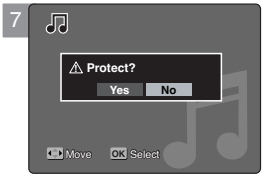
[Note]

✣ After deleting a file, the last file of the current folder is selected.

Music Mode : Setting the Music Play Options

Protecting Music Files

You can protect saved important music files from accidental erasure.



1. **Set the Mode Dial to Music mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [MENU] button.**
   - ◆ Menu screen appears.
4. **Move the joystick left / right (◀/▶) to select <Protect>.**
5. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - ◆ **<Select>**: The Playlist appears and you can select files to protect.
   - ◆ **<All>**: All files will be protected.
     If <All> is selected, the message “Protect All?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
6. **If <Select> was selected, select files to protect by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - ◆ < 🔒 > icon appears on the selected files.
7. **Press the [Shortcut 3] button.**
   - ◆ The message “Protect?” appears.
8. **Select <Yes> to protect selected files. Select <No> to cancel protection.**
   - ◆ Press the [MENU] button to exit the menu.

[Notes]

- ✣ You can easily access this function by using the shortcut button (refer to page 115).
- ✣ When you attempt to delete a protected file, you will hear a warning beep.
  When you set the Beep Sound to Off, there will be no beep sound but the message “Protect!” appears on the screen and the file will not be deleted.

4 Voice Mode

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Voice Mode : Recording Voice Files

Recording Voice Files

The built-in microphone allows users to record voices without any additional devices.

1. **Set the Mode Dial to Voice mode.**
2. **Press the [POWER] button.**
3. **Press the [Record / Stop] button to start recording.**
   - ◆ <●> icon appears on the screen and starts recording.
4. **To stop recording, press the [Record / Stop] button again.**

[Notes]

- ❖ Recorded voice files are saved in the list automatically.
- ❖ During voice recording, the menu is not accessed.
- ❖ During voice recording, the Mode Dial operates normally.

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Voice Mode : Playing Voice Files

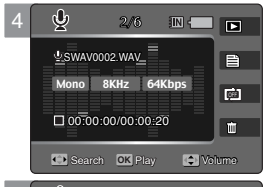
Playing Voice Files

You can play back recorded voice files using the built-in speaker or the earphones.

1. Set the Mode Dial to Voice mode.

2. Press the [POWER] button.

3. Press the [Shortcut 1] button to switch to voice play mode.
- ◆ The last file played back is displayed.
- ◆ If there is no voice file stored, the message “No Stored Files!” appears.



4. Select a music file to play by moving the joystick left / right (◀/▶) button, and then press the [OK] button.

5. The selected music file is played back.
- ◆ To pause playing back, press the [OK] button.
- ◆ To stop playback, press and hold the [OK] button for more than 3 seconds.
- ◆ To search backward / forward during play, hold down the joystick left / right (◀/▶) for more than 1 second.

6. To adjust the volume, move the joystick up / down (▲/▼). Volume indicator appears and disappears after few seconds.

[Note]

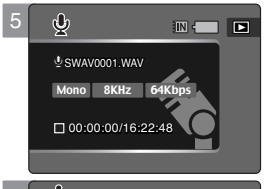
✣ When the earphones or AV (Audio / Video) cable is connected to the device, the <Beep Sound> will not operate.

Voice Mode : Setting the Voice Play Options

Using the Shortcut Buttons

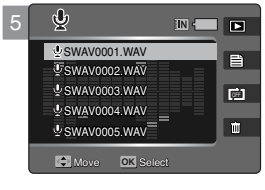
Shortcut buttons are provided to allow users easy access to frequently used functions.

Toggling Voice Record / Play Mode



1. **Set the Mode Dial to Voice mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Voice play mode.**
4. **Press the [Shortcut 1] button.**
   - It moves to the Voice record mode.
5. **Each press of the [Shortcut 1] toggles between voice record and play modes.**

Viewing the Voice File List



1. **Set the Mode Dial to Voice mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Voice play mode.**
4. **Press the [Shortcut 2] button.**
   - Stored voice files are listed.
5. **Select a voice file to play by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - The selected voice file plays.

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Voice Mode : Setting the Voice Play Options

Using the Shortcut Buttons

Shortcut buttons are provided to allow users easy access to frequently used functions.

Setting the Repeat Option

1. **Set the Mode Dial to Voice mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Voice play mode.**
4. **Press the [Shortcut 3] button.**
   - Each press of the [Shortcut 3] button cycles through <>-<>-<>-<>.
5. **An icon indicating the selected repeat option appears on the screen.**
   - Refer to page 125 for further details.

Deleting Voice Files

1. **Set the Mode Dial to Voice mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Voice play mode.**
4. **Press the [Shortcut 4] button.**
   - **<Delete>**: Deletes the selected file.
   - **<Cancel>**: Cancels the deletion.
5. **Select <Delete> to delete selected files. Select <Cancel> to cancel deletion.**
   - Refer to page 126 for further details.

Voice Mode : Setting the Voice Play Options

Setting the Repeated Play

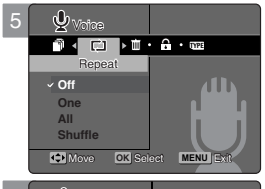
You can repeat a selected file or all the voice files.

1. Set the Mode Dial to Voice mode.

2. Press the [POWER] button to turn on the device.

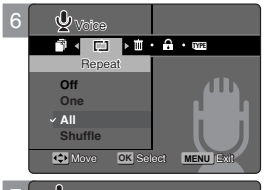
3. Press the [Shortcut 1] button to switch to Voice play mode.

4. Press the [MENU] button.
- Menu screen appears.



5. Move the joystick left / right (◀/▶) to select <Repeat>.

6. Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.
- **<Off>**: No repeat
- **<One>**: One selected file will play repeatedly.
- **<All>**: All music files will play through in order and start again from the beginning..
- **<Shuffle>**: All files will play in random order once and start again.



7. Press the [MENU] button to exit the menu.
- An icon indicating the selected repeat mode appears on the screen.

[Notes]
- ✣ You can easily access this function by using the shortcut button (refer to page 124).
- ✣ When the earphones or AV (Audio / Video) cable is connected to the device, the <Beep Sound> function will not operate.

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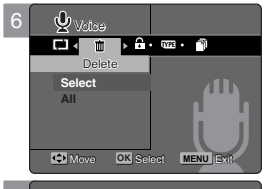
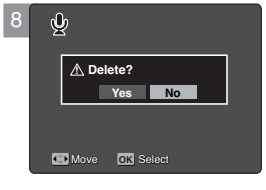
Voice Mode : Setting the Voice Play Options

Deleting Voice Files

You can delete stored voice files.





1. **Set the Mode Dial to Voice mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Voice play mode.**
4. **Press the [MENU] button.**
   - Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Delete>.**
6. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - **<Select>**: The voice file list appears and you can select files to delete.
   - **<All>**: All files will be deleted.
     If <All> is selected, the message “Delete All?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
7. **If <Select> was selected, select files to protect by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - < 🗑 > icon appears on the selected files.
8. **Press the [Shortcut 4] button.**
   - The message “Delete?” appears.
9. **Select <Yes> to delete selected files. Select <No> to cancel deletion.**
   - Press the [MENU] button to exit the menu.

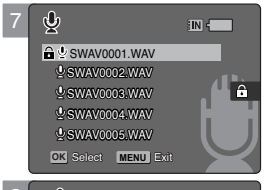
[Notes]

- ✤ You can easily access this function by using the shortcut button (refer to page 124).
- ✤ After deleting a file, the last file of the current folder is selected.

Voice Mode : Setting the Voice Play Options

Protecting Voice Files

You can protect saved important voice files from accidental erasure.



1. **Set the Mode Dial to Voice mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Voice play mode.**
4. **Press the [MENU] button.**
   - ◆ Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Protect>.**
6. **Select an option by moving the joystick up / down (▲/▼) button and then press the [OK] button.**
   - ◆ **<Select>**: The voice file list appears and you can select files to protect.
   - ◆ **<All>**: All files will be protected.
     If <All> is selected, the message “Protect All?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
7. **If <Select> was selected, select files to protect by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - ◆ <🔒> icon appears on the selected files.
8. **Press the [Shortcut 3] button.**
   - ◆ The message “Protect?” appears.
9. **Select <Yes> to protect selected files. Select <No> to cancel protection.**
   - ◆ Press the [MENU] button to exit the menu.

[Note]

✣ <🔒> icon appears on the selected files.

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Voice Mode : Setting the Voice Play Options

Copying Voice Files

You can copy saved files from the built-in internal memory to an external mini SD Memory Card and vice-versa.

1. **Set the Mode Dial to Voice mode.**
2. **Press the [POWER] button to turn on the device.**
3. **Press the [Shortcut 1] button to switch to Voice play mode.**
4. **Press the [MENU] button.**
   - ◆ Menu screen appears.
5. **Move the joystick left / right (◀/▶) to select <Copy (to)>.**
6. **Select an option by moving the joystick up / down (▲/▼) and then press the [OK] button.**
   - ◆ **<Select>**: Voice file list appears and you can select files to copy.
   - ◆ **<All>**: All files will be copied.
     If <All> is selected, the message “Copy All?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
7. **If <Select> is selected, playlist appears. Select files to copy by moving the joystick left / right / up / down (◀/▶/▲/▼) and press the [OK] button.**
   - ◆ An icon ( ) indicating selected file is to be copied appears.
8. **Press the [Shortcut 4] button.**
   - ◆ The message “Copy?” appears. Select <Yes> or <No> by moving the joystick left / right (◀/▶) and then press the [OK] button to confirm.
9. **Press the [MENU] button to exit the menu.**

[Notes]

- ✣ It copies from the currently-used memory to another. If the internal memory was used, it copies to an external mini SD Memory Card.
- ✣ Actual storage capacity may differ from the printed memory capacity.

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5 Miscellaneous Information

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Miscellaneous Information : Connecting to a PC

Supported USB Speed according to Operating System

The USB driver supports High Speed USB 2.0 communication only under the Microsoft Windows and Apple Mac OSX, operating systems.

- Windows 98SE/ME: Full Speed USB
- Windows 2000: High Speed USB only with the Service Pack4 Installed
- Windows XP: High Speed USB only with the Service Pack1 Installed
- Mac OS X: High Speed USB on 10.3 or later

Recommended System Requirements

	Windows Environment		Macintosh Environment	
	Minimum	Recommended	Minimum	Recommended
CPU	Pentium III / 800MHz	Pentium IV / 2GHz	G3 / 500MHz	G4 Processor
OS	Windows 98SE/ME	Windows 2000/XP	Mac OS 10.2	Mac OS 10.3
Memory	256MB	512MB or above	128MB	512MB or above
Free space on the hard disk	1.2 GB or above	2GB or above	1 GB or above	2GB or above
Display Resolution	1024 x 768 dots 24bit color	1024x768 dots 24-bit color	800x600 dots 16-bit color	1024x768 dots 24-bit color
USB	USB 1.1	USB 2.0 High Speed	USB 1.1	USB 2.0 High Speed

[Notes]

- Movie playback or movie editing may be difficult on a slower-than-recommended PC. .
- Multiple USB devices connected to a PC or using USB hubs may cause communication / installation errors with the Miniket Photo.
- Disconnecting the USB cable during the data transfer will stop the communication and may damage data stored in the memory.

Miscellaneous Information : Installing Software

Installing DV Media Pro 1.0

You need to install DV Media Pro 1.0 to play back recorded movie files or the transferred data from the camera with the USB cable on your PC.

■ Installing Acrobat Reader
Click “Acrobat Reader” on the Setup screen.
- Acrobat Reader program should be installed to view the DV Media Pro User’s Manual.
- The DV Media Pro User’s Manual is included on the accompanying CD in Adobe’s Portable Document Format (PDF). (The Acrobat Reader is a freeware product of Adobe Systems. Inc.)

■ Before You Start!
- Turn on the PC and exit all other applications.
- Insert the Software CD provided with the package. It automatically runs and displays the Setup screen. If it does not, click <Start> on the left bottom of the desktop and select <Run>. When the <Run> dialog window appears, type in “D:\autorun.exe” into the text box and then press ENTER where your CD-ROM drive is set to “D:\”.

Driver Installation – DV Driver

1. Click “DV Driver” on the Setup screen.
◆ Driver software required are installed automatically:
- USB removable storage device driver (Windows 98SE only)
- USB PC-CAMERA driver
- USB streaming driver (USB interface for data transfer)

2. Press <Confirm> to finish program installation.
◆ Windows 98 users need to restart the Windows.

Application Installation – Video CODEC

1. Click “Video CODEC” on the Setup screen.
◆ CODEC is required to play movie files recorded by Miniket Photo.

Application Installation – DirectX 9.0

1. Click “DirectX 9.0” on the Setup screen.
◆ DirectX 9.0 is basic software that is required by CODEC utilisation. Problems may occur if it is not installed.

[Notes]
❖ You have to install “DV Driver”, “Video Codec” and “DirectX 9.0” to run DV Media Pro 1.0 properly.
❖ Please refer to the User’s Manual inside the CD ROM drive (D:\help) folder for more detailed information on installation procedures.
❖ Use DV Media Pro 1.0 REV4.2 or higher for this product.

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Miscellaneous Information : Installing Software

Installing DV Media Pro 1.0 / Video Studio

Application Installation – Photo Express

1. Click “Photo Express” on the Setup screen.

- It is a photo editing tool that allows users to edit images.

Application Installation – QuickTime

1. Click “QuickTime” on the Setup screen.

- QuickTime is Apple's technology for handling video, sound, animation, graphics, text, music, and even 360-degree virtual reality (VR) scenes.

Application Installation – Video Studio (in the second CD provided)

1. Insert the CD.

- Setup screen displays automatically. Follow the instruction to start installation.
- It is a video editing tool that allows users to edit movie files.

[Notes]

- For photo editing, use Photo Express.
  For video editing, use the Video Studio from the second CD provided.
- It is required to install software in this order: DV driver, Video CODEC and DirectX 9.0 for movie playback on a PC.
- It is required to install the DV Driver for PC camera use.

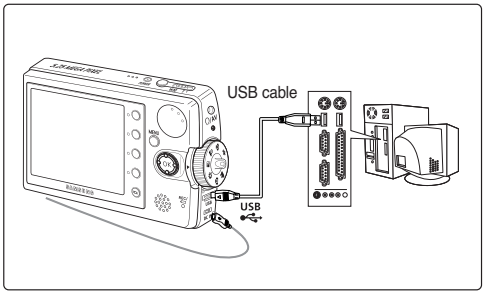
Miscellaneous Information : Connecting To Other Devices

Connecting to a PC Using USB Cable

Connect to a PC with the provided USB cable. You can view your movies / photos on your PC.

Connecting to a PC – Playing Movie Files

1. **Connect the Miniket Photo to the PC with the provided USB cable as shown in the figure.**
2. **Turn on your PC.**
3. **Press the [POWER] button to turn on the device.**
4. **Locate the <Miniket> or <Removable Storage Device> recognised by the PC and then double-click it.**
   When the built-in internal memory is used, folder name appears to be <MSAMSUNG>-<SSMOV>.
5. **Copy the movie file to your PC.**
   It is recommended to copy the movie file onto the PC and playback on the PC for better performance.
6. **Double-click on the copied movie file name.**
   It starts to play back.



Disconnecting from a PC

1. **Click on the "Safely remove hardware" tray icon on the bottom right side of the desktop.**
   Select the device and click on the "Stop" button.
2. **When the message saying that it is safe to remove the hardware appears, unplug the cable from the PC.**

[Warning]

- When data communication is disrupted due to static electricity, magnetic field or other reason, restart the program or try to disconnect / connect the communication cable again.

[Notes]

- Multiple USB devices connected to a PC or using USB hubs may cause communication / installation errors with the Miniket Photo.
- Refer to page XX for PC recommendations on USB use. Some PCs meeting the requirements may not support proper USB operation due to various reasons. Please refer to the product documentation of the PC for further details.
- If the PC does not recognise the USB device when the USB cable is connected to the front USB port, try the USB port on the rear panel of the PC.
- The Windows 98 SE operating system requires DV Driver installation prior to USB use.

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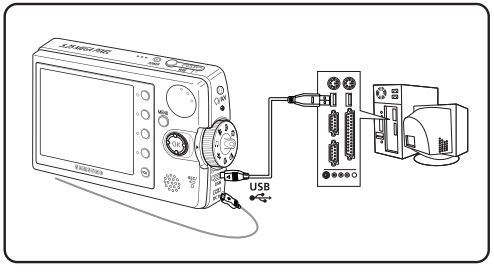
Miscellaneous Information : Connecting To Other Devices

Using the PC Camera Function

You can record video files onto the connected PC directly in real-time. Using this function, you can use it as a PC camera for video chatting / conferencing. USB data streaming requires a DV Driver, Video CODEC, and DirectX 9.0 or higher installed on the PC prior to use (refer to page 133).



1. **Connect the Miniket Photo to the PC with the provided USB cable as shown in the figure.**
2. **Turn on your PC.**
3. **Press the [POWER] button to turn on the device.**
4. **Run a video chatting / conferencing application such as Windows Messenger and enjoy the video utilisation.**
   - Various applications take advantage of the PC camera function. Refer to respective product documentation for further details.
5. **When finished, disconnect the cable.**

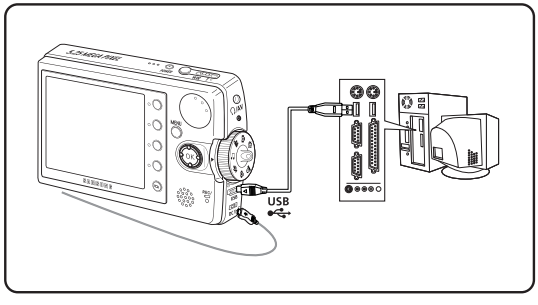
[Notes]

- You must install the DV Driver (refer to page 131).
- It is recommended to use an AC Power Adapter during data transfer to avoid unintended power outages.
- Microsoft Windows ME or later operating systems support the PC camera function.
- If the PC does not recognise the USB device when the USB cable is connected to the front USB port, try the USB port on the rear panel of the PC.

Miscellaneous Information : Connecting To Other Devices

Using as a Mass Storage Device

You can use your Miniket Photo as a USB mass storage device.



1. **Connect the Miniket Photo to the PC with the provided USB cable as shown in the figure.**
2. **Turn on your PC.**
3. **Set the Mode Dial to Storage.**
4. **Press the [POWER] button to turn on the device.**
5. **Locate the <Miniket> or <Removable Storage Device> recognised by the PC and then double-click it.**
6. **Copy files into the <MISC> folder under the <Miniket> or <Removable Storage Device>.**
7. **When finished, disconnect the cable.**

[Warning]

- You cannot create a new folder on your Miniket Photo set.
- If you create a new folder on your memory card using a PC, it will not play back music files stored on it.

[Notes]

- You cannot create a new folder on your Miniket Photo set.
- Multiple USB devices connected to a PC or using USB hubs may cause communication / installation errors with the Miniket Photo.
- If the PC does not recognise the USB device when the USB cable is connected to the front USB port, try the USB port on the rear panel of the PC.

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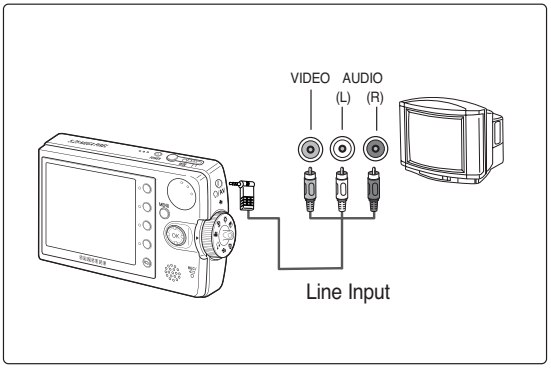
Miscellaneous Information : Connecting To Other Devices

Connecting to a TV Monitor

You can connect your Miniket Photo directly to a TV set .



1. **Connect the provided AV cable to the [Earphones and AV jack] of the Miniket Photo.**

2. **Connect the other end of the cable to the TV set by matching the colors of the terminals.**

3. **Turn on the TV and set the <Source> to the external input channel you connected the cable.**
   - <Source> may be represented as <Line In>, <Input>, <AV>, etc. depending on the manufacturer.
   - Movie Record mode is displayed on the TV screen.

4. **Set the Mode Dial to Movie mode.**

5. **Press the [Shortcut 1] button to switch to Movie view mode.**
   - Select a movie file to play.

6. **Move the joystick left / right (◀/▶) to select a movie and then press the [OK] button.**
   - It begins playback.
   - To pause playback, press the [OK] button.
   - To stop playback, hold down the [OK] button for more than 3 seconds

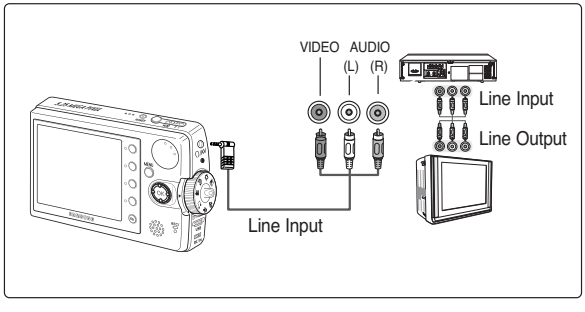
[Notes]

- You can play back photo files as well as movie files.
- When connected to other devices with the AV cable, no screen is displayed on the LCD monitor.

Miscellaneous Information : Connecting To Other Devices

Connecting to a VCR

You can connect your Miniket Photo to a TV set through a VCR. You can copy your video files to an ordinary videotape using your VCR.



1. **Connect the provided AV cable to the [Earphones and AV jack] of the Miniket Photo.**
2. **Connect the other end of the cable to the VCR set by matching the colors of the terminals.**
3. **Connect the RCA cables from TV's Audio / Video In to the VCR's Audio / Video Out.**
4. **Turn on the TV / VCR and set the <Source> to the external input channel where you connected the VCR.**
   - <Source> may be represented as <Line In>, <Input>, <AV>, etc. depending on the manufacturer.
   - Movie Record mode is displayed on the TV screen.
5. **Set the Mode Dial to Movie mode.**
6. **Press the [Shortcut 1] button to switch to Movie view mode.**
   - Select a movie file to play.
7. **Move the joystick left / right (◀/▶) to select a movie, and then press the [OK] button.**
   - It begins playback.
   - To pause playback, press the [OK] button.
   - To stop playback, hold down the [OK] button for more than 3 seconds

[Note]

- You can play back photo files as well as the movie files.
- When connected to other devices with the AV cable, no screen is displayed on the LCD monitor.

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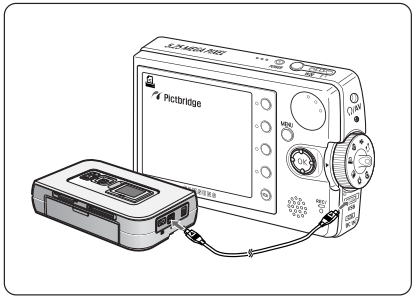
Miscellaneous Information : Printing Photos

Printing with PictBridge

Wihth the provided USB cable and a PictBridge-supporting printer, you can print your photo images directly without connecting to a PC.



1. **Connect the device and the PictBridge supporting printer with a USB cable.**
2. **Turn on the printer.**
3. **Press the [POWER] button to turn on the device.**
4. **Press the [Shortcut 2] button to set the date / time imprint option.**
   - Each press of the [Shortcut 2] button cycles through Off<>-Date <>-Time <>-Date & Time<>.
5. **[Shortcut 3] button will increase the number of copies, while the [Shortcut 4] button will decrease the number of copies.**
   - Range of possibilities: 1 ~ 99
   - Pressing the [Shortcut 3] button on 99 will set to 1.
   - Pressing the [Shortcut 4] button on 1 will set to 99.
6. **Press the [Shortcut 1] button to begin printing.**

[Warning]

- This function works only with printers that support PictBridge.

[Notes]

- Number of copies and imprint options can be set in the menu. Press the [MENU] button to access the function.
- For printing information, refer to printer's product information.
- Depending on the printer, printing failure may occur. In this case, try to print from a PC after copying images onto the PC.

Miscellaneous Information : Printing Photos

Printing with DPOF

DPOF (Digital Printing Order Format) defines the print information for each photo on the Memory Card. You can easily make prints using a DPOF-compatible printer or order copies from commercial digital image developers.

Printing DPOF files in the Memory Card

1. Set the PDOF information for the photo you want to print. (Refer to page 88)
2. Insert a memory card into the DPOF- supporting printer.
3. Follow the steps of the printer to print out photos.

[Notes]

- For further details about printing photos, refer to the printer's user's manual.
- Printing may not be performed depending on types of printers.
  In this case, download JPEG files directly to the PC and print them.

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Miscellaneous Information : Cleaning and Maintenance

After Using the Device

- **For the safekeeping of the device, follow these steps.**
  - ✓ Turn the device off.
  - ✓ Remove the battery pack (refer to page 20).
  - ✓ Remove the Memory Card (refer to page 35).
- **To prevent any damage to the LCD monitor, do not apply excessive force to its moving parts.**
- **Do not drop or in any way shock the device.**
- **For prolonged use of the device, avoid using it in places subject to excessive humidity or dust.**
- **Do not leave the device in places subject to:**
  - ✓ Excessive humidity, steam, soot, or dust.
  - ✓ Excessive shock or vibration.
  - ✓ Extremely high (over 50°C or 122°F) or extremely low (under 0°C or 32°F) temperatures.
  - ✓ Strong electromagnetic fields.
  - ✓ Direct sunlight or in a closed car on a hot day.
- **For the safe use of the battery pack, follow these guidelines:**
  - ✓ To conserve battery power, be sure to turn off the device when not in use.
  - ✓ Battery consumption may vary depending on the condition of use. Recording with many starts and stops, frequent zooming, and recording in low temperatures will shorten actual recording times.
  - ✓ Dispose of used battery packs promptly. Do not dispose of Battery Packs by burning them.
  - ✓ The battery pack will become warm during charging and use. This is not a malfunction.
  - ✓ The battery pack has a limited service life. If the period of use becomes noticeably shorter with a normal charge, the battery pack is at the end of its service life. Replace it with a new battery pack.
- **For the safe use of the Memory Card, follow these guidelines:**
  - ✓ The Memory Card should be stored away from heaters and other heat sources. Avoid storing Memory Cards under direct sunlight and avoid electromagnetic fields.
  - ✓ Do not power off any devices while transferring data, as this may destroy the data.
  - ✓ Back up your image data often to a hard disk or other permanent storage media.
  - ✓ Format the Memory Card periodically.
  - ✓ When formatting the Memory Card, format in the DEVICE.

Miscellaneous Information : Cleaning and Maintenance

Cleaning the Body

✣ To Clean the Exterior of the CAM

- ✓ To clean the exterior, use a soft dry cloth. Wipe the body gently.
  Do not apply excessive force when cleaning, gently rub the surface.
- ✓ The LCD monitor surface should not be pressed. Use a soft dry cloth to clean the surface.
- ✓ To clean the lens, use an optional air blower to blow out dirt and other small objects. Do not wipe the lens with a cloth or your fingers. If necessary, use lens cleaning paper.
- ✓ Do not use thinner, alcohol, or benzene for cleaning. Otherwise, the finish may be damaged.
- ✓ Cleaning should be done only after the battery pack has been removed, and other power sources have been disconnected.

[Note]

✣ If the lens looks dimmer, turn off the device and leave it for about 1 hour.

Miscellaneous Information : Cleaning and Maintenance

Regarding the Battery

- Battery Pack performance decreases when the surrounding temperature is 10°C (50°F) or below, and shortens the battery life. In that case, do one of the following so that the durability of the battery life can be extended for a longer period of time.
  - Put the battery pack in a pocket to warm it up, and insert it in your CAM immediately prior to use.
  - Use a large capacity battery pack (Optional).

- Be sure to set the switch to OFF when not recording or playing back. The battery power is also consumed in standby, playback, and pause modes.

- Have your battery packs ready for two to three times the expected recording time, and make trial recordings before make the actual recording.

- Do not expose the battery pack to water.
  The battery pack is not water resistant.

- Keep the battery out of reach of children. If it is swallowed, seek medical assistance immediately.

- Wipe the battery with a clean dry cloth to ensure proper contact.

- Do not pick up the battery using metal tools as this may cause a short circuit.

- Do not short the battery or dispose of the battery in fire.
  Do not disassemble the battery. The battery could explode or catch fire.

- Use only recommended batteries and accessories. Use of batteries not expressly recommended for this equipment may cause an explosion or leakage, resulting in fire, injury, or damage to the surroundings.

- Install the battery according to the instructions. Improperly installed batteries can cause damage to the camcorder.

- When you do not use the device for a long time, remove the battery pack. Otherwise, the battery may leak. To avoid damage to the product, be sure to remove the battery when no charge remains.

Miscellaneous Information : Cleaning and Maintenance

Using Abroad

- Each country or region has its own electric system and TV standards (NTSC / PAL / SECAM)
- Before using the Miniket Photo abroad, check the following items:

Power Sources

- You can use the CAM in any country or area with the supplied AC Power Adapter where the power input range is 100V - 240V, 50/60Hz.
- Use a commercially available AC plug adapter if necessary, depending on the design of the local wall outlets.

TV Standards

- You can view your video files using the built-in LCD monitor. However, to view your recordings on a television set or to copy it to a video cassette recorder (VCR), the television set or the VCR must comply with the TV standard and have the appropriate Audio / Video ports. Otherwise, you may need to use a separate Video Format Transcoder (NTSC-PAL format Converter). You can set the TV standard of the Miniket Photo for its video output.

PAL-Compatible Countries / Regions
Australia, Austria, Belgium, Bulgaria, China, CIS, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Great Britain, Holland, Hong Kong, Hungary, India, Iran, Iraq, Kuwait, Libya, Malaysia, Mauritius, Norway, Romania, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Thailand, Tunisia, etc.

NTSC-Compatible Countries / Regions
Bahamas, Canada, Central America, Japan, Mexico, Philippines, Korea, Taiwan, United States of America, etc.

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Troubleshooting : Self-Diagnosis Display

Self-Diagnosis Display

Display	Informs that…	Action
Memory Full!	Not enough free space for saving files.	Check the space of internal memory or the external memory.
File Error!	The file is corrupted or damaged.	Delete the file.
Paper Error!	The paper is not inserted or set improperly.	Check the paper in the printer. If there is no paper, insert paper.
Print Error!	Paper jam or other printing error occurred.	Check the printer message. Refer to the printer manual for details.
Ink Error!	Ink is low.	Replace ink or toner.
Connect USB Cable!	USB cable is not connected or set improperly.	Check the USB connection. Disconnect and try to connect again.
Low Battery!	Battery Power is low.	Charge the Battery Pack or connect the AC Power Adapter.
Card Error	The memory card is not inserted or damaged.	Replace the memory card.
Not Formatted!	The memory card is not formatted.	Format the memory card or replace with a formatted one.
Write Error!	Failed to write a file.	Check the memory space or format of the memory card.
Read Error!	Failed to read a file.	Delete the damaged / corrupted file.
Protected!	The file is protected.	To delete a protected file, unlock the protection prior to deletion.

Checklist

- Before contacting service personnel, please read and check following table. If the problem continues, contact your nearest Samsung dealer or authorised service center / personnel.

Symptom	Possible Causes	Measure
No Power is supplied.	The power is not connected properly. The battery is dead. The battery is too cold.	Connect the AC Power Adapter properly, page 24 Replace with a new Battery Pack. Warm up the battery or move it to a warmer place.
Date / Time is wrong	The Date / Time is not set.	Set the Date / Time, pages 38 ~ 40
Focus does not adjust automatically	Focus mode is set to manual. Recording was done in a too-dark place. Lens is covered with condensation.	Set the focus mode to <Auto>. Use a strobe or light the place. Clear the lens and check the focus.
The Memory Card will not load properly.	The Memory Card is inserted improperly. Foreign substances are in the memory slot.	Insert the Memory Card properly, page 35. Clear the memory slot.
Color balance of the picture is not natural.	White balance setting is not suitable for the recording situation.	Set proper white balance, page 68.
Digital zoom does not work.	The digital effect is set enabled.	Turn off the Digital Effects, page 77.
Files stored in the Memory Card can not be deleted.	Memory Card is protected. The file is protected.	Release the Memory Card protection tab. Unlock the protection of the file, page 84.

Troubleshooting : Self-Diagnosis Display

Symptom	Possible Causes	Measure
Images on the LCD monitor appear dark.	Ambient light is too bright. Ambient temperature is too low.	Adjust the LCD brightness, page 37. Low temperature may produce a dark LCD screen. It is normal, not a malfunction.
Play, rewind, and fast forward do not work.	Photo Mode is selected.	Select Movie Mode and press the [Shortcut 1] button.
Memory Card cannot play back (Photo Mode)	Movie Mode is selected.	Select Photo Mode and press the [Shortcut 1] button.
No picture is taken when [Record / Stop] button is fully pressed.	Not enough free memory space. Memory Card was formatted using another device.	Empty the Memory Card to make free memory space. Format the Memory Card.
Built-in flash will not go off	Flash mode is set to Off Movie Mode is selected.	Select different flash mode, page 75. Flash will not work in Movie Mode.
Cannot record a movie	Photo Mode is selected.	Select Movie Mode.
LCD monitor turns off automatically.	To save power consumption, the LCD monitor and the device goes down if there is no button operation for a certain period of time (depending on the operation mode), which is not a malfunction.	Pressing any button will turn the device back on. Pressing the button once again will operate its original function.
Maximum recording time and photo capacity is different than the specifications.	Recording / lighting conditions may affect the size of the recordings.	It is normal, not a malfunction.
Audio and Video does not play back.	Damaged data file.	Static electricity and strong magnetic fields may damage the data stored in the Memory Card. Be careful with handling the Memory Card. Damaged data cannot be recovered.
No audio plays when viewing photos.	Photo viewing does not support audio.	It is normal, not a malfunction.
Movie plays with mosaic and / or block-shaped noise.	Subject is moving fast. By the nature of MPEG4 playback.	It is normal. It is not malfunction. When you play back the movie on a PC, it plays back properly.
Data copied from a PC will not play.	Data file does not comply with the supported file format.	Non-supported file formats will not play. It is normal, not a malfunction.
MPEG4 movie taken will not play on a PC	Required driver / application software are not properly installed.	Install the required driver / application software, including the CODEC from the provided CD, page 131.
Black margins on top and bottom side when movie plays back on a PC.		
Music files will not play on the camera.	Data file does not comply with a supported file format.	The encoding format of the music file may not comply with a supported file format. Check the music file.
Audio / Video will not play when connected to a TV / VCR.	Cable connection was done improperly. The <Source> of the TV is set improperly. Mode is set to Recording mode.	Check the cable connections, page 136. Set the proper channel of <Source> of connected device. Set the mode to Movie view, page 136.
OSD will not appear on the TV monitor.	TV set may not support on -creen text display depending on manufacturer.	It is normal, not a malfunction.

ENGLISH

Using the Menu

System Settings

1. Memory

- Memory Type
  - Int. Memory
  - Memory Card
- File No.
  - Reset
  - Series
- Format
  - Int. Memory
  - Memory Card
- Memory Space
  - 000MB/000MB

2. Display

- LCD Brightness
  - 0%
  - ⋮
  - 100%

3. Date/Time

- Date&Time Set
- Date Format
  - YYYY/MM/DD
  - DD/MM/YYYY
  - MM/DD/YYYY
- Date/Time
  - Off
  - Date
  - Time
  - Date&Time

4. System

- Video Out
  - NTSC
  - PAL
- Beep Sound
  - Off
  - On
- Shutter Sound
  - Off
  - On
- Language
  - English / Español / Français / Português / Deutsch / Italiano / Nederlands / Polski / Русский / 한국어 / 中文 / Iran / Arab / Magyar / ไทย / Українська / Svenska
- Mode Display
  - Off
  - On
- Auto Shut off
  - Off
  - 3 Min
  - 5 Min
- Reset
  - Start

Photo

1. Capture

- Scene
  - Auto / Manual / Night / Portrait / Children / Landscape / Close-up / Sunset / Dawn / Backlight / Fireworks / Beach/Snow
- Photo Size
  - 5M / 4M / 3M / 2M / 1M / VGA
- Photo Quality
  - Tiff
  - Super Fine
  - Fine
  - Normal
- Metering
  - Multi
  - Center
  - Spot
- Self Timer
  - Off
  - 2 sec
  - 10 sec
- Multi Shot
  - Off
  - Normal
  - AEB
- Digital Effect
  - Off
  - Sepia
  - Nega
  - BLK&WHT
- EV
  - +2.0 / +1.6 / +1.3 / +1.0 / +0.6 / +0.3 / 0 / -0.3 / -0.6 / -1.0 / -1.3 / -1.6 / -2.0
- ISO
  - Auto
  - 100
  - 200
  - 400
- White Balance
  - Auto
  - Daylight
  - Cloudy
  - FluorescentH
  - FluorescentL
  - Tungsten
  - Custom WB
- Macro
  - Off
  - Macro
  - Super Macro
- Flash
  - Off
  - Auto
  - Red-eye
  - Fill-in
  - Slow Sync.
- Sharpness
  - Soft
  - Normal
  - Sharp
- Focus
  - Multi AF
  - Center AF
  - Spot AF
- DIS
  - Off
  - On
- Digital Zoom
  - Off
  - On
- Imprint
  - Off
  - Date
  - Date&Time
- Memory Type
  - Int. Memory
  - Memory Card

2. View

- Delete
  - Select
  - All
- Protect
  - Select
  - All
- Rotate
  - Right(90°)
  - Left(90°)
  - Updown(180°)
- Resize
  - 4M / 3M / 2M / 1M / VGA
- Slide
  - Start
  - Interval
  - Repeat
- DPOF
  - Select
  - All
- Memory Type
  - Int. Memory
  - Memory Card
- Copy (to)
  - Select
  - All

Using the Menu

Movie

1. Record

- Program AE
  - Auto
  - Sports
  - Spotlight
  - Beach/Snow
- White Balance
  - Auto
  - Daylight
  - Cloudy
  - FluorescentH
  - FluorescentL
  - Tungsten
- Digital Effect
  - Off
  - Sepia
  - Nega
  - BLK&WHT
- Macro
  - Off
  - Macro
  - Super Macro
- Movie Quality
  - Super Fine
  - Fine
  - Normal
- Movie Size
  - 640x480
  - 320x240
- Self Timer
  - Off
  - 2 sec
  - 10 sec
- Wind Cut
  - Off
  - On
- Memory Type
  - Int. Memory
  - Memory Card

2. Play

- Delete
  - Select
  - All
- Protect
  - Select
  - All
- Slide
  - Start
  - Repeat
- Memory Type
  - Int. Memory
  - Memory Card
- Copy (to)
  - Select
  - All

MP3

1. Play

- Repeat
  - Off
  - One
  - Group
  - All
  - Shuffle
- Equalizar
  - Normal
  - Pop
  - Jazz
  - Classic
- Delete
  - Select
  - All
- Protect
  - Select
  - All
- Memory Type
  - Int. Memory
  - Memory Card

Voice Recorder

1. Record

2. Play

- Repeat
  - Off
  - One
  - All
  - Shuffle
- Delete
  - Select
  - All
- Protect
  - Select
  - All
- Memory Type
  - Int. Memory
  - Memory Card
- Copy (to)
  - Select
  - All

ENGLISH

Specifications

Model Name	SC-MS10/MS11/MS15
The System	
Movie	MPEG4 AVI Format
Photo	TIFF, JPEG (DPOF, Exif 2.2)
Music	Stereo Playback (Earphones)
Voice	Wave file record / play (8KHz Sampling, 16bit, Mono)
Storage Media	Internal flash memory / mini SD Memory Card
LCD Panel	2.5” Trans reflective, 150K pixels
Internal Memory Capacity	
Camera	
Imaging Sensor	X/YY inch CCD, XX pixels
Zoom Ratio	X3 (Optical) / X5 (Digital)
Focal Length	f=6.3 ~ 18.9mm, F3.5 (W) ~ 4.3 (T)
Shutter Speed	Auto mode: Scene Mode:
Metering Method	Multi / Center / Spot
Electric Exposure Compensation	±2.0 V (0.3EV Step)
ISO	Auto, 100, 200, 400
White Balance	Auto, Daylight, Cloudy, Fluorescent H, Fluorescent L, Tungsten, Custom
Self Timer	2 seconds, 10 seconds
Multi Shot	3 continuous pictures, AEB (Automatic Exposure Bracketing)
Macro	Super Macro: 1 ~ 5 cm Macro: 10 ~ 50 cm
Scene Modes	Manual, Auto, Night, Portrait, Children, Landscape, Close-up, Sunset, Dawn, Backlight, Fireworks, Beach / Snow
Photo Size	
Flash	Auto, Red-eye, Fill-in, Slow Sync.
Focus Method	Multi, Center, Spot
Minimum Lighting condition	7 lux

Specifications

Connectors		
USB		Mini=B type (USB 2.0 High Speed)
DC Power In Connector		Proprietary 3 pins connector
Common Connectors	Earphones	Ø3.5 Stereo
	AV Input / Output	Video: 1.0Vp_p, 75Ω, Audio: -7.5dBm 47KΩ
General		
Operating Temperature		0°C (32°F) ~ 40° (104°F)
Operating Humidity		10% ~ 80%
Power Source		3.7V (Li-Ion Battery Pack), 4.8V (AC Power Adapter)
Dimensions (WxHxD)		90mm x 55 mm x 18.5 mm
Weight		140g (Including Battery Pack)
Built-in Microphone		Omni-directional Stereo condenser microphone
AC Power Adapter		
Input Voltage		AC 100 ~ 240V, 50 / 60 Hz
Output Voltage		DC 4.8V, 1.0 A
Operating Temperature		0°C (32°F) ~ 40° (104°F)
Operating Humidity		10% ~ 80%
Dimensions		70 mm x 30 mm x 42 mm
Weight		83g

The product design and specifications are subject to change without notice for better performance and quality.

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Warranty (SEA users only)

SAMSUNG
LIMITED WARRANTY

SAMSUNG Electronics America Inc. (SEA), warrants that this product is free from defective material and workmanship. SEA further warrants that if product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material, SEA will repair or replace the product at it's option.
All warranty repairs must be performed by a SEA authorized service center. The name and address of the location nearest you can be obtained by calling toll free: 1-800 SAMSUNG (1-800-726-7864).
Labor
90 days carry-in
Parts
1 year

On carry-in models, transportation to and from the service center is the customer's responsibility.

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase.
It must be presented to the authorized service center.

EXCLUSIONS (WHAT IS NOT COVERED)

This warranty does not cover damage due to accident, fire, flood and/or other acts of God; misuse, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use, or damage that occurs in shipping.
Exterior and interior finish, lamps, and glass are not covered under this warranty.
Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty.
This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased in the United States and Puerto Rico.

Some States do not allow the exclusions or limitations of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

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THE CAM IS MANUFACTURED BY:

Samsung Electronics America, Inc.
105 Challenger Road
Ridgefield Park, NJ 07660-0511
Tel: 1-800-SAMSUNG (7267864)

***Samsung Electronics' Internet Home Page**

www.samsung.com

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