

Digital Still Camera

User Manual

Thank you for your purchase.



Failure to follow safety precautions when using electrical appliances may result in fire or personal injury.

This instruction manual contains important safety precautions and instructions for handling the product to prevent accidents. Please read this instruction manual carefully and use the product safely. After reading, be sure to keep it in a place where you can refer to it at any time.

ng



MD Cyber-shot



PictureMD

DSC-MD1

Be sure to read

About the LCD Screen

Although the LCD screen is manufactured using highly precise technology, black dots may appear, or red, black, and green dots may remain visible. This is not a malfunction. (Effective pixels: 99.99% or higher) These dots are not recorded.

Proper Use of Rechargeable Lithium-Ion Batteries

Please charge the rechargeable lithium-ion battery at room temperature (10°C to 30°C). If you charge the battery in a cold environment (10°C or lower), it will not charge fully, resulting in a shorter operating time.

In cold climates, battery life will be shorter. This is because battery performance decreases (10°C or lower) cause the battery's performance to decline.

Test Shots

Be sure to take a test shot beforehand to confirm that the camera is functioning properly.

We cannot compensate for lost images.

In the unlikely event that shooting or playback fails due to a malfunction of the camera or other equipment, please understand that we cannot be held liable for the lost footage.

Copyright

Under copyright law, you may not use the images you capture with this camera without the rights holder's permission, except for personal enjoyment. Please note that filming may be restricted at live performances, entertainment events, and exhibitions, even if your purpose is personal enjoyment.

This device is a Class II Information Technology Equipment device based on the standards of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). This device is intended for use in a home environment; however, if used in close proximity to radio or television receivers, it may cause reception interference.

Please use this device correctly in accordance with the instruction manual.

- IBM and PC/AT are registered trademarks of International Business Machines Corporation in the United States.
- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and other countries.
- Macintosh is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.
- The PC-98 series is a trademark of NEC Corporation.
- Other system and product names appearing in this document are generally registered trademarks or trademarks of their respective manufacturers. Please note that the ® symbol is not explicitly indicated in the text.



Warning For Your Safety

Sony products are designed with safety in mind. However, all electrical appliances are dangerous and can cause personal injury, such as fire or electric shock, if used incorrectly. To prevent accidents, be sure to observe the following Please

V

Follow the safety precautions

Please read the safety precautions in this instruction manual carefully. They contain general safety instructions for the product.

Inspect regularly

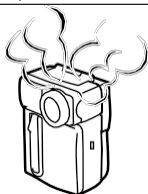
At least once a year, check the area between the plug of the AC power adapter or charger and the outlet for dust buildup, and ensure the device is not being used while faulty.

Do not use if defective

If you notice that the camera body, AC power adapter, charger, or other accessories are not functioning properly or are damaged, please contact the store where you purchased the product or a Sony service center immediately to request repairs.

In the event of a malfunction

If you hear strange noises, smell strange odors, or see smoke



- 1 Turn off the power
 - 2 Remove the battery or disconnect the AC power
 - 3 Contact the store where you purchased the product or a Sony service center to request repairs
- b

Meaning of Warning

Labels

The following symbols are used in this manual and on the product. Please make sure you understand the meaning of these symbols before reading the main text.

Warning

Failure to follow the precautions indicated by this symbol may result in personal injury, including death or serious injury, due to fire, electric shock, or explosion.

Caution

Failure to follow the precautions indicated by this symbol may result in injury due to electric shock or other accidents, or damage to surrounding property.

Symbols indicating caution

Fire Electric shock
Finger pinch

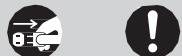
Prohibited action symbol



Prohibited Do not disassemble

Do not touch

Symbols indicating actions



Connect the plug
Unplug from outlet
Mandatory

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You can use it
even if you only
read this section

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Fire



Failure to follow the precautions below may result in **fire or electric shock**

Electric shock may result in **death or serious injury**.

Warning

- Never record, play back, or look at the LCD screen while driving a car, motorcycle, or other vehicle. Doing so can cause a traffic accident.
- When placing the unit inside a vehicle, take great care to ensure it does not fall due to sudden braking or similar actions, as this could interfere with braking operations.
- Also, when using the device while walking, pay close attention to surrounding traffic and road conditions to prevent accidents.



Prohibited



Prohibited



Pay attention to your surroundings when recording

Do not record without being aware of your surroundings.

This can cause accidents or injuries.



Prohibited



Do not disassemble or modify the device

This may cause fire or electric shock. Models equipped with a flash or LCD screen contain high-voltage circuits, which are dangerous; therefore, never disassemble them yourself.

Please contact the store where you purchased the product or a Sony service center for internal inspections or repairs.

Do not
disassemble

Do not allow water or foreign objects to enter the unit

Water or foreign objects entering the unit may cause fire or electric shock. This model is not waterproof and must not be used underwater or in rainy conditions. If water or foreign objects do enter the unit, turn it off immediately and unplug the AC power adapter or charger from the outlet. If batteries are in use, remove them immediately. Then, contact the store where you purchased the unit or a Sony service center.



Prohibited



Do not use on an airplane

The electromagnetic waves emitted by this device may interfere with flight safety.

Forc

Turn off this device in areas where use is prohibited, such as hospitals

The electromagnetic waves emitted by this device may affect medical equipment.

If you use this device near medical equipment, be sure to obtain permission to do so





Continue

d



Fire



Electric

shock

Failure to observe the precautions below may result in death or **serious injury** due to fire or electric shock.

Do not use during a thunderstorm

If you hear thunder in the distance, stop using the device immediately to avoid being struck by lightning.

When using outdoors, take shelter in a safe place.



Forbidden



Do not swing the device while carrying it

While your hand is still through the shoulder strap or hand strap

carrying the unit without securing it may cause impact to the unit or get it caught in a door, which may cause malfunction or injury. When carrying the unit, hold it securely in your hand or place it in a pocket.



Prohibited



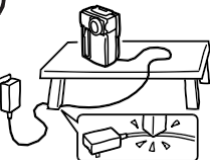
Do not damage the power cord

Damaging the power cord may cause a fire or electric shock.

- Do not modify or damage the power cord.
- Do not place heavy objects on the cord or pull on it.
- Keep away from heat sources. Do not heat the unit.
- When unplugging the power cord, be sure to hold the plug. If the power cord becomes damaged, please contact the store where you purchased the product or a Sony service center to request a replacement.



Prohibited



Do not use the flash in areas where flammable or explosive gases are present

Do not use the flash

Do not use the flash in locations where flammable or explosive gases are present in the air

. Doing so may cause a fire or explosion.



Do not use the strobe toward the driver inside a vehicle

Do not use the flash directed at the driver, as it may cause temporary blindness, making driving impossible and leading to an accident.



Prohibited



Do not connect ground wires or antenna cables to gas pipes

This can cause a fire or explosion.



Prohibited

Keep the lens cap attached to the camera body with a strap

To prevent children from accidentally swallowing the lens cap,

please attach the lens cap to the camera body with a cord.



Mandatory





Failure to follow the precautions below may result in **injury** or **damage** to surrounding property.

Do not use in locations with high humidity, dust, oil fumes, or steam.
Using the device in such locations may cause a fire or electric shock.

on



Prohibited

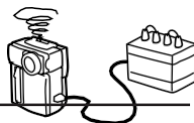


Do not use chargers, AC power adapters, or car battery cables other than those specified

This may cause a fire, injury, or damage to the surrounding area due to bursting, leakage, or overheating.



Forced



Do not touch the AC power adapter or charger with wet hands

This may cause electric shock.



Prohibited



Unplug the device when not in use for an extended period

period

If you will not be using the device for an extended period, disconnect the power cord and battery before storing it. Failure to do so may cause a fire.



Unplug the power cord

Install the battery and shoulder strap correctly

If not attached properly, they may fall and cause injury. Also, check the shoulder strap for any damage before use. If you find any damage, please request a replacement at the store where you purchased the product or at a Sony service center.



Prohibited



Keep out of reach of small children

Children's hands may get caught in moving parts, which could result in injury. Please ensure children do not touch the device.



Finger pinch



Failure to follow the precautions below may result in **injury** or **damage** to surrounding property.

Place on a stable surface

Placing the product on a wobbly or slanted surface, or setting up the tripod in an unstable condition, may cause the product to fall and result in injury. In the event of damage, please consult the store where you purchased the product or a Sony service center.



Arrange cables properly

Be extremely careful when connecting and arranging the power cord, AV cables, and RS-232C cables, as tripping over them could cause the product to fall or tip over, resulting in injury.



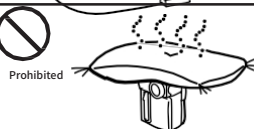
Do not touch AC power adapters or chargers that are connected to a power source, or batteries or products that are charging, for extended periods of time.

(Prohibited)

Temperatures may rise significantly. Prolonged skin contact may cause low-temperature burns.



Do not use the main unit, AC power adapter, or charger while covered by a blanket or similar item. Heat may build up, causing the case to deform or resulting in a fire.



Do not subject the lens or LCD screen to impact

Since lenses and LCD screens are made of glass, they can shatter may cause them to break, which could result in injury.



Do not point the flash at people from close range

Do not use the flash close to a person's face (especially infants and young children).

. Firing the flash near the eyes can cause

. When photographing infants and young children in particular,

, keep a distance of at least 1 meter.



Prohibited



Do not listen at high volume for extended periods

Listening at high volumes for extended periods

for long periods at high volumes

. Listen at a volume where you can still respond if someone calls out to you.



Prohibited



Don't turn the volume up too high from the start

Sudden loud noises can damage your ears. Increase the volume gradually.

This is especially important when listening to digital devices with low background noise, such as MD players,

noise, such as MDs,

.



Prohibited

Do not carry or store this unit together with magnetic cards

If you play audio while leaving a magnetic card near the unit's speaker

inside a bag or similar container, the data on the magnetic card may be erased or the magnetic card may become unusable

.



Prohibited

Safety Precautions Regarding Batteries

To prevent leakage, overheating, fire, explosion, or accidental ingestion, be sure to observe the following precautions.

Please check the label on the battery itself to determine the battery type. Some precautions may not apply depending on the type.

Rechargeable Batteries

Nickel-Cadmium
(Ni-Cd)

Nickel-metal hydride
(Ni-MH)

Lithium-ion
(Li-ion)

Lead
(Pb)

Alkaline
Manganese

Button-type lithium battery

Lithium



(This section applies only to battery packs)

- Do not charge with any charger other than the one specified.
- Do not place in fire. Do not short-circuit or disassemble. If the battery does not charge even when using the specified charger, it is defective or has reached the end of its service life; please purchase a new battery. Do not heat in a microwave or oven. Caution: storing the battery with metal objects such as coins or hairpins may cause a short circuit.
- Do not charge or leave the battery pack near fire or in direct sunlight.
- If liquid from the battery pack gets into your eyes, rinse with clean water and consult a doctor immediately.



- Keep button-type batteries out of the reach of small children. If swallowed, consult a doctor immediately.
- Do not place in fire. Do not short-circuit, disassemble, or heat.
- Do not recharge dry cell batteries or battery packs.
- Use only the specified type of battery.



- Insert the battery with the + and - terminals facing the correct directions.
- Remove batteries when they are completely drained or when the device will not be used for an extended period.
- Do not mix new batteries with used ones, or mix different types of batteries.

If battery fluid leaks, wipe the battery compartment thoroughly before inserting new batteries. If battery fluid comes into contact with your skin, rinse thoroughly with water.

Request

Used nickel-cadmium batteries, lithium batteries, and button-type lithium batteries are valuable resources. Please cover the terminals (metal parts) with tape or similar material and bring them to a nickel-cadmium battery recycling partner store.

Here's what you can do

The DSC-MD1 digital still camera allows you to save high-quality images and audio to MD data discs and play back images using a variety of functions on the LCD screen. Using the built-in infrared data communication function, you can send and receive data wirelessly with other devices.

You can also record and play back music on MiniDiscs.

Take • Watch



You can take pictures

You can record up to 2,000 images on a single MD data disc. From simple autofocus shooting to continuous shooting, you can choose the shooting mode that suits your needs.

- Autofocus shooting ;Page 16
- Zoom and Self-Timer Shooting ;Pages 24, 32
- Manual shooting to adjust shutter speed, aperture, and more ;Page 34
- Multi-frame continuous shooting to capture fast-moving action in a single frame ;Page 31
- Interval shooting for recording plant growth, etc., at intervals of up to 24 hours

;Page 31

You can record audio while taking photos

Record narration along with your images. ;Page 33



play

You can easily view your captured images on the easy-to-read LCD screen, just as if you were opening an album.

- A variety of image search functions, such as index playback and search by shooting date ; Pages 42, 43
- Zoom and rotate playback (pages 46–47)
- Slideshow playback: Play images in sequence with background music. This is particularly effective for presentations. ;Page 45



Edit images and audio

You can copy, move, and delete images, add bookmarks to organize them, just like organizing an album. You can also use a variety of editing features, such as recording narration or adding titles. ;Pages 49–63

Insert a music MiniDisc, and

it instantly transforms into an MD recorder

It also offers a full range of features unique to MD recorders, such as recording from CDs, repeat playback, and title entry.

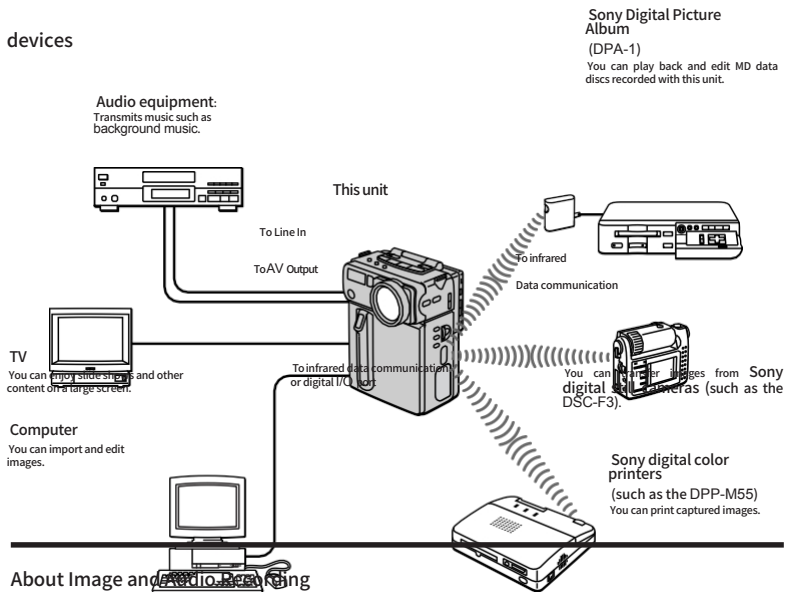
Pages 87–94

Continued on the next page in 13

What You Can Do (continued)

Can be used in combination with other

devices

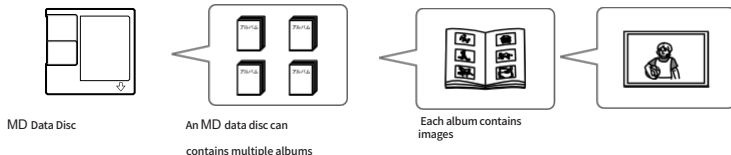


About Image and Audio Recording

The captured images and audio are recorded on an MD data disc. You can choose one of the following album modes for recording images and audio. (Page 71)

- **Diary Mode:** You can record up to 365 images and approximately 40 minutes of audio.
- **Free Mode:** You can freely allocate space for images and audio. If you record only images, you can store up to 2,000 images.

Images are saved in PictureMD format by album, as shown below, and you can view them by opening the album.



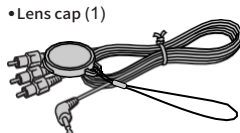
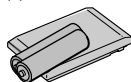
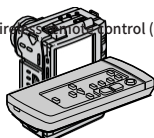
Check the accessories

Please verify that the following accessories are included. If any accessories are missing, please contact the store where you purchased the product or a Sony service center.

- Main unit
- Battery terminal cover (1)
- AV connection cable (1)

Please read the user manual.

- Wireless remote control (1)
- AA batteries (2)



- Lens cap (1)

- Headphones with remote control (1)



- MD data disc (1)

(Pre-formatted for Picture MD.)



- Cleaning cloth (1)

- Instruction manual (1)

- Warranty Card (1)

- Sony Customer Support Information (1)

To use this unit, you will need the separately sold accessory kit ACC KIT-MD1 is required.

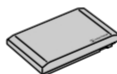
- AC power adapter/

Charger AC-V100 (1)



- Battery pack

NP-F100 (1)



- Connection cable

DK-715 (1)



- Lens hood (1)

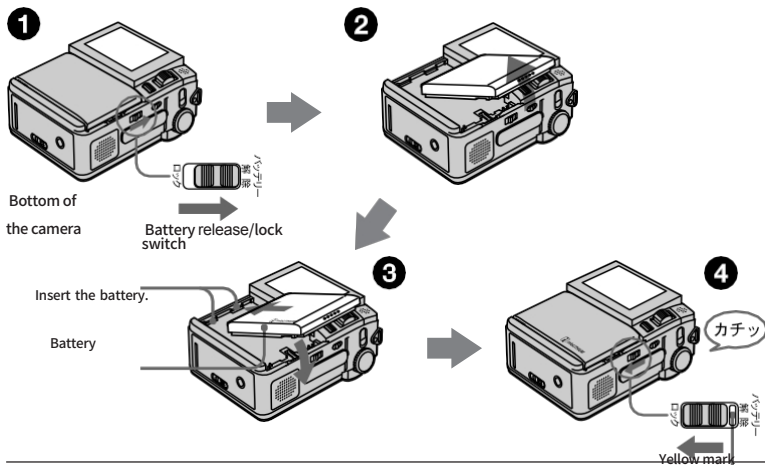
- Carrying Strap (1)

- Carrying case (1)

Take a Photo

1 Charge the battery

Use the AC power adapter/charger AC-V100, battery pack NP-F100, and connection cable DK-715 included in the optional accessory kit ACC KIT-MD1.



1 Set the battery release/lock switch on the side of the unit to "Release."

2 Remove the battery terminal cover.

3 Install the battery.

4 Set the battery release/lock switch to "Lock."

A yellow mark will appear.

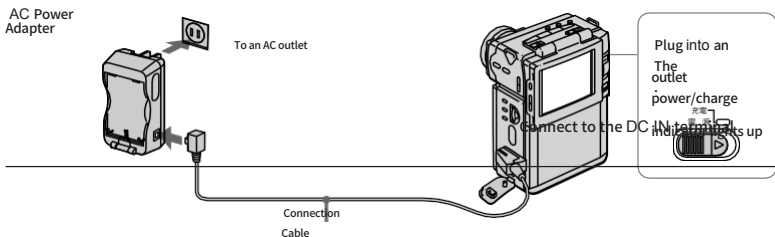
! Caution

When the battery is installed, be sure to set the battery release/lock switch to "Lock" before use. If used while in the "Release" position, the battery may fall out

Leaving the power on for a long time will cause the unit to become warm, but this is not a malfunction.

z

It is recommended that you bring enough batteries to cover 2 to 3 times the expected shooting time.



5 Lift the plug of the AC power adapter and plug it into an outlet.

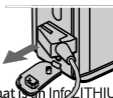
- 6 Connect the power cord to the AC power adapter and the DC IN terminal on the unit. When charging begins, the Power/Charging indicator will light up orange.

When charging is complete, the power/charging indicator will turn off, a beep will sound, and "Charging complete" will appear on the LCD screen (partial charge). Charging for about another hour will extend the battery life slightly (full charge).

To remove the battery

- 1 Turn off the power.
2. Perform step 1-2.

To disconnect the connection cable



Grasp the connector plug and pull it out.

What is an InfoLITHIUM[®] battery?

With devices compatible with "InfoLithium" batteries, you can check battery usage.

This is a new type of lithium-ion battery equipped with a function for data communication. This camera uses an "InfoLithium" battery.

"InfoLITHIUM" batteries are marked with the **InfoLITHIUM** logo.

* InfoLITHIUM is a trademark of Sony

Corporation.

z Charging time

Battery Full Charge Time (Practical Charge Time) NP-F100 Approx. 150 min (Approx. 90 min)

NP-F200: Approx. 210 min (approx. 150 min)

This is the time required to charge a fully discharged battery inside the unit.

z Battery level display

During shooting or playback, press the Display button to view the battery level on the LCD screen.



The display indicates how many minutes of continuous shooting remain, but depending on usage conditions and the environment, the display may not be accurate.

Continued on the next page m 17

Shooting and Viewing (continued)

! To prevent image data corruption

Inserting or removing the battery or AC power adapter while shooting or playing back images may result in the destruction of image data. Be sure to turn off the power switch and wait until the power/charging lamp goes out before inserting or removing the battery or AC power adapter.

z Power Save/Auto Power Off Function If the Power Save function is set to "ON" (page 73), the LCD screen will automatically turn off (Power Save), and the power will turn off automatically after approximately 3 minutes (Auto Power Off). If you press the shutter button lightly while in Power Save mode, the LCD screen will light up immediately.

Even when the power save function is set to "OFF," the power will automatically turn off if there is no operation for 3 minutes during shooting or 5 minutes during playback.

When the power is off, turn on the power switch to resume operation.

The power save/auto power off functions do not work when the AC power adapter is connected.

Using the camera while connected to a power outlet
For extended shooting or playback indoors, we recommend keeping the camera plugged into an indoor power outlet. For details, "About Power" (page 101).

z The continuous battery life is based on Continuous shooting

NP-F100	Approx. 60 (50) minutes
---------	-------------------------

NP-F200	Approx. 110 (95) minutes
---------	--------------------------

Battery	Playback (on the camera's LCD screen)
---------	---------------------------------------

NP-F100	Approx. 85 (75) minutes
---------	-------------------------

NP-F200	Approx. 155 (140) minutes
---------	---------------------------

All figures are based on a full charge (practical charge)

! Note

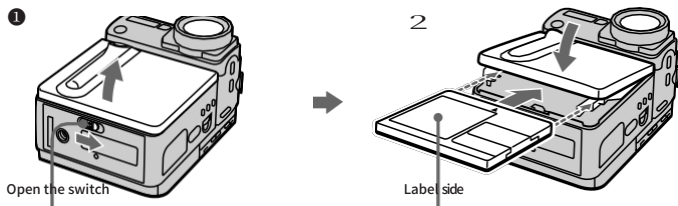
- Estimated time based on continuous standard shooting operations at 20°C.
- Recording time may be shorter than this when repeatedly turning the power on and off or using the zoom.

! Note

- When shooting on battery power, use a fully charged battery to prevent failures due to battery depletion.
- Charging time and battery life may vary depending on the ambient temperature and battery condition.
- Turning the power on while charging will interrupt the charging process. Turning the power off will resume charging.
- To check the remaining battery level, turn on the power, wait at least 10 seconds for the battery status to stabilize, and then press the screen display button.

2 Insert the MD data disc

Insert an MD data disc marked with the "MD DATA" symbol.



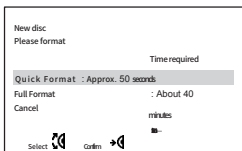
1 Slide the open switch to the right and open the lid by hand.

2 Place the disc with the label side facing up, insert it all the way in the direction of the arrow, and close the lid.

When using a new MD data disc

When using a new MD data disc, you must initialize (format) it to this unit's PictureMD file format.

When you insert a new MD data disc, the format screen will appear.



1 Select/Confirm Turn the jog dial to select the format type.



☐ Quick Format

Select this option in most cases. An album is created and formatted in about 50 seconds.

☐ Full Format

Select this option only when reformatting an MD data disc that has encountered an error. The system will perform a verification check and then format the disc in approximately 40 minutes.

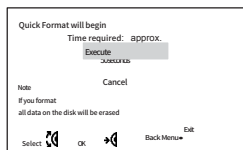
Using
Eco
Not yet
Even if
you read
it

Shoot and View (continued)

2 Press the Select/Enter jog dial.

A confirmation screen appears.

選択/押決定



3 Turn the Select/Enter jog dial to select "Execute," then press the Select/Confirm jog dial.

Formatting begins. A formatting progress indicator is displayed.

To cancel during formatting

Press the Menu button or the  (Stop) button. When the format cancellation screen appears, use the Select/Confirm jog dial to select "Cancel," then press the Select/Confirm jog dial. If you cancel, the camera will be unavailable until you format it again.

! Caution

Formatting will delete all recorded images, and they cannot be recovered.

Ejecting the Disc

- 1 Turn off the power switch or press the  (Stop) button.
- 2 Slide the open switch to the right and open the cover by hand.
- 3 Remove the disc.

! Caution

If you remove a disc while the power is on, be sure to press the  (Stop) button.

About Album Mode

The method of recording images and audio onto a single MD is called "Album Mode." This unit offers two types of Album Mode: "Diary Mode" and "Free Mode." Formatting is performed in Diary Mode. You can switch to Free Mode during the process. For details, see "Switching the Recording Mode of an MD Data Disc (Album Mode)"

(page 71).

! If an error occurs with your disc
From the Shooting or Playback menu, select "Format" and format the disc in the same manner. (Page 107)

Which MiniDiscs can be used? You can use MD data discs marked with the following symbol.

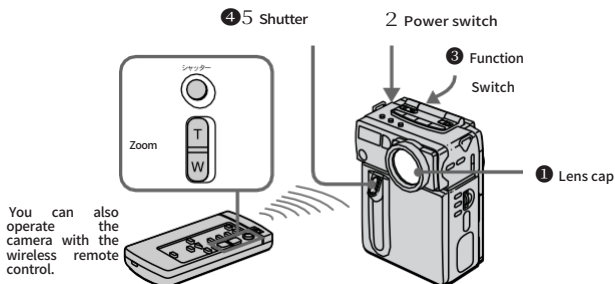


! Note

You cannot use music MiniDiscs for recording with this unit.

3 Take

Autofocus makes shooting easy.



You can also operate the camera with the wireless remote control.

- 1 Remove the lens cap.

2. Press the power switch to the right.

The camera turns on, and the power/charging indicator lights up.



- 3 Set the function switch to "Camera."

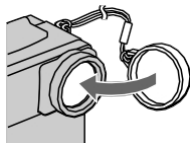
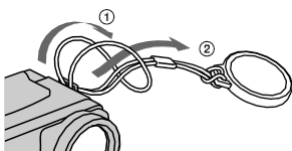
The image captured by the lens will appear on the screen.



Attaching the lens cap

To prevent losing the lens cap, we recommend using the included strap to attach it to the shoulder strap attachment point or similar location.

Please keep the lens cap attached when not in use.

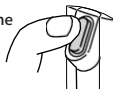


Continued on the next page

Take and View (continued)

4 Gently press the shutter button.

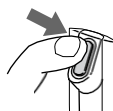
The AF lock indicator (●) will appear on the screen, and the focus distance will be locked.



5 Press the shutter button all the way down.

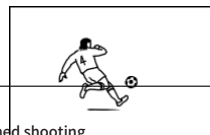
The still image displayed on the screen is captured and recorded on the MD data disc.

Recording takes about 10 seconds, but if you press the shutter button lightly while a still image is displayed, the image captured by the lens will be displayed, and you can take up to four consecutive shots.

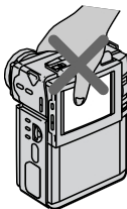


MD recording indicator

Number of shots



Do not hold the LCD screen!



! Caution

After pressing the shutter button to take a picture, the red MD recording indicator (■) will be displayed while the image is being recorded onto the MD data disc. Please be careful not to subject the unit to shock or vibration while this indicator is displayed. Doing so may corrupt the data.

When you have finished shooting

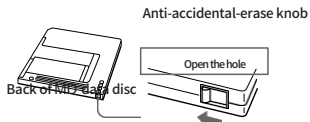
Turn off the power switch.

z Choose an album

You can also create your own album and save images there. (64 pages)

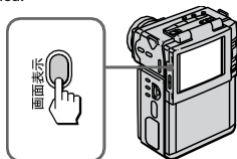
z To prevent accidental deletion of your photos

Slide the delete-protection switch so that the hole is open. When you are ready to record again, return the knob to its original position.



Display during recording

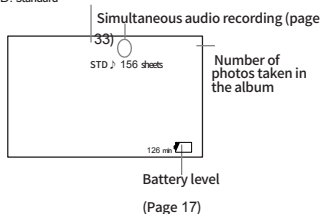
While viewing images from a standard lens, pressing the screen display button cycles through **Simple Display** → **Detailed Display** → No Display each time it is pressed. These displays are not recorded.



Simplified Display

Image Quality Mode Display (page 67)

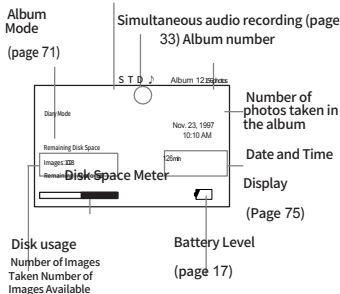
FIN: Fine
STD: Standard



Detailed view

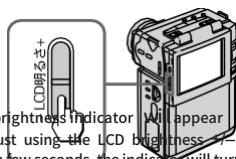
Image Quality Mode Display (page 67)

FIN: Fine
STD: Standard



Adjusting the LCD Screen Brightness

Press the +/– buttons on the side of the LCD
Press the



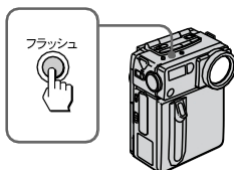
The brightness indicator will appear. Adjust using the LCD brightness +/- buttons. After a few seconds, the indicator will turn off.



Take a photo with the flash

If the subject is in a dark area, the camera will automatically use the flash.

Press the flash button on the top of the camera to force the flash to fire or to turn it off.



Each time you press the flash button, the display cycles through Auto Flash, Forced Flash () and no flash () in that order.

When the flash icon () appears on the screen, you can take a photo with the flash.

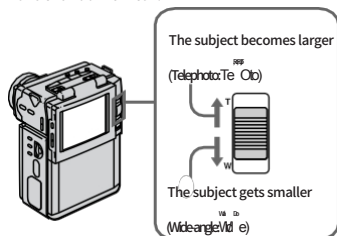
Try Taking a Picture (Continued)

! Caution

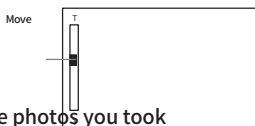
- While the flash is charging, the flash indicator (🔦) will blink. You cannot take flash photos while it is blinking, so please wait until it stays lit.
- When the battery level is low, the flash cannot be used. (Even if you select forced flash, the flash indicator (🔦) will not light up.)

Zoom

Move the zoom switch.



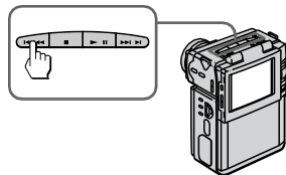
An indicator will appear, so adjust using the zoom switch. After a few seconds, the indicator will disappear.



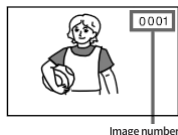
Check the photos you took

(Rec Review)

You can view images you have taken so far. While viewing the image through the lens, press the IE D button.



The most recently taken image is displayed.

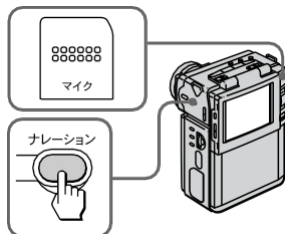


Each time you press the IE D button, the previous image is displayed; each time you press the D ► button, the next image is displayed in sequence. Press the shutter button lightly to return to the image captured by the lens. (If you do not press any button for more than 10 seconds, the view will also return to the image captured by the lens.)

Adding narration to captured images

You can immediately add narration to the image you just captured.

Press the Narration button.



The last image you took will be played back. Hold down the Narration button and speak your narration into the microphone. For details, see "Recording Audio with Captured Images (Voice-over)" (page 54).

Tips for Taking Clear Images

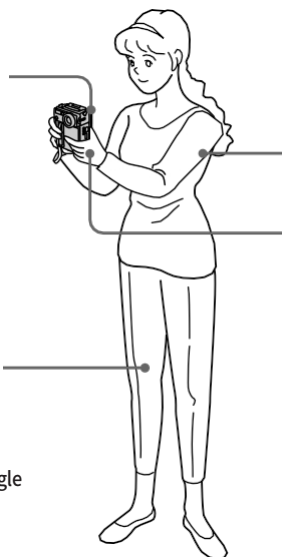
The key to taking clear pictures is to keep the digital still camera as steady as possible. Hold the camera in a stable position to avoid blurring.

Adjust the LCD screen to a position and angle that is easy to see. Be careful not to touch the lens or flash with your hands.

keep your elbows tucked in.

Place your left hand on the side of the camera to stabilize it.

Stand with your feet slightly apart to keep your body steady.



Posture for shooting from a low angle

(Low Angle)

Adjust the LCD screen so it faces upward.

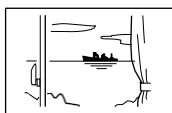


4 Playback



- 2 Use the **IE** **D** and **D** **I** buttons to switch between images.

Each time you press the **IE** **D** button, the previous image is displayed; each time you press the **D** **I** button, the subsequent image is displayed in sequence**.



- 1 Set the function switch to "Playback/Audio."

The last still image taken will be displayed*.



再生/
オーディオ



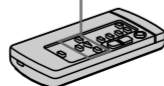
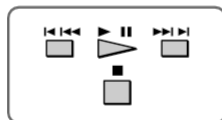
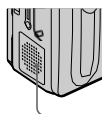
* When the function switch is set to the "Playback/Audio" position and you turn the power off and then back on, the image that was last displayed will appear.

You can also select an album to play back. (Page 64)

** For images with audio recorded, the audio will also be played back through the speaker.

Speaker

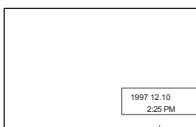
You can also operate the camera using the wireless remote control.



Display During Playback

During normal single-screen playback, pressing the Screen Display button cycles through the following display modes in the following order: Date/Time Display → Detailed Display → Title Display → No Display.

Date and Time Display



Date and time the image being played was taken
(Page 75)

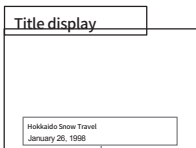
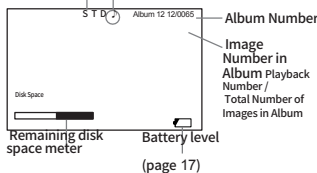
Detailed View

Image Quality Mode Display (page 67)

FIN: Fine

STD: Standard

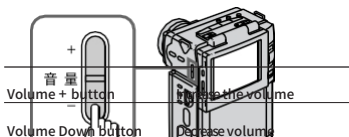
Simultaneous audio playback (page 48)



Title Display (page 55)

Adjusting the Volume

Press the Volume +/- buttons.



The volume level indicator appears. Adjust the volume while watching the indicator. The indicator will disappear after a few seconds.



Volume Level Indicator

Record narration over the currently playing image (post-recording)

Press and hold the Narration button

Record narration for the video. For details, see "Recording Audio for Captured Images (Post-Recording)"

(page 54).

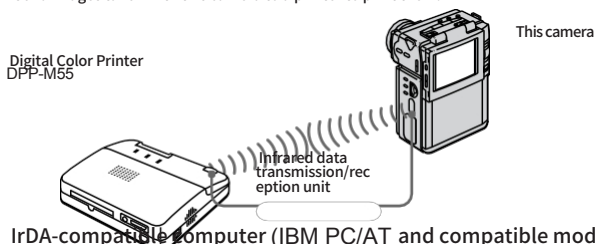
User Guide to als o

Perform infrared communication

You can exchange image data via infrared communication between this machine and the following devices.

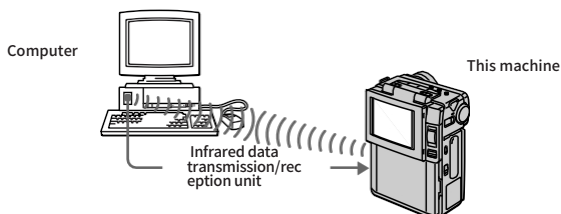
1 IrDA-compatible printer (such as the Sony Digital Color Printer DPP-M55) Page 78

Send images taken with this camera to a printer to print them.



2 IrDA-compatible computer (IBM PC/AT and compatible models, some NEC PC-98 series) Page 81

You can transfer, save, and edit images taken with this unit on a computer, as well as exchange image data.

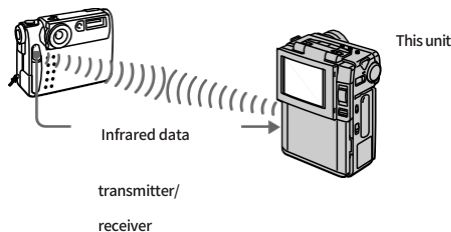


3 Devices compatible with the infrared data communication system (such as the Sony DSC-F3 digital still camera) Page 85

You can exchange image data.

Sony digital still camera

DSC-F3



Continuous Shooting

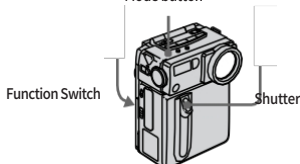
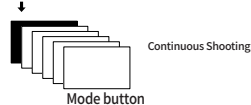
(Continuous Shooting)

Press the shutter button once to start continuous shooting. You can set the number of shots and the interval in the menu.



Useful for capturing fast-moving sequences, such as sports.

Press the shutter button.



1 Set the function switch to "Camera."

2 Press the mode button until "C" appears on the screen.

3 Press the shutter button all the way down to take the picture.

Using the "Continuous Shooting Settings" in the shooting menu (page 65), the camera will take continuous shots starting from the moment you press the shutter button.

! Caution

- The following operations are not available during continuous shooting.
 - Flash photography
 - AF lock by lightly pressing the shutter button
 - Simultaneous audio recording
- If the number of available shots is less than the number of continuous shots, a "Disk full" message will appear when you try to select continuous shooting mode.

Switch continuous shooting modes

Each time you press the mode button, the shooting mode switches in the following order, and a mark appears on the screen.



Icon for the currently selected shooting mode

- ☐ Continuous shooting (C)

takes a series of subsequent images

- ☐ Time Machine (TM) 1 shutter

, the images before and after are displayed consecutively (page 30)

continuous shooting (xml-ph-0000@deeplinter.net)

- ☐ Multi-frame Continuous Shooting (MF)

Pressing the shutter once captures 9 images in succession on a single screen.

(Page 31)

- ☐ Interval shooting (I)

Press the shutter once to take between 2 and

1,000 images

24-hour intervals.

(Page 31)

- ☐ Single Shot (No Mark Display): Pressing the shutter once captures a single image.

(Normal shooting)

): Press (b) (ii)

shoot image of Multi-screen display. S or t

Captures a continuous sequence before and after the shutter is pressed

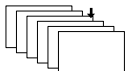
(Time Machine)

By continuously capturing images, you can take a series of shots before and after the moment you press the shutter. The burst interval can be set in the menu.

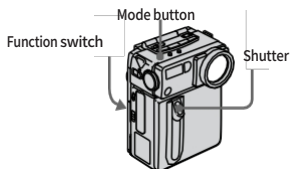


Useful for selecting the best shot from a series.

Press the shutter button.



Capture images before and after



- 1 Set the function switch to "Camera".
- 2 Press the Mode button until "Time Machine" appears on the screen.
- 3 Lightly press the shutter button.

The images will be captured. The images on the screen will change at the same interval. (Releasing the shutter button will stop image capture.)

- 4 Slowly press the shutter button all the way down to take the picture.

"Burst Settings" in the Shooting Menu (page 65) in the shooting menu, the camera will take a series of images before and after you press the shutter button at the set number of shots and interval. However, in Fine mode, fewer shots than the set number will be taken. For example, if the continuous shooting setting is 10 shots, the number of shots taken will vary depending on the image quality mode as follows.

Image Quality Mode	Before
After Standard Mode 5 shots 5 Fine Mode 3 2	shots

Return to normal shooting mode

Press the Mode button to clear the continuous shooting icon.

! Caution

- The following operations are not available during Time Machine shooting.
 - Flash Photography
 - Gently press the shutter button AF Lock Shooting
 - Simultaneous audio recording
- If the number of available shots is less than the continuous shooting limit, a "Disk full" message will appear when you try to select Time Machine.
- If you press the shutter button halfway and then press it all the way down within 0.5 to 1 second, only one or two photos will be taken before you fully press the shutter.

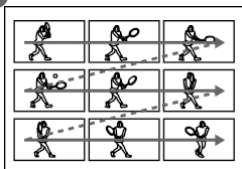
Capture 9 images on a single screen

(Multi-frame burst)

You can capture a continuous series of 9 images at 1/15-second intervals starting from the moment you press the shutter button, all in a single frame.



This is useful when you want to see fast-moving action in a single frame.



- 1 Set the function switch to "Camera."
- 2 Press the Mode button until "⌂" appears on the screen.
- 3 Lightly press the shutter button, then slowly press it all the way down to take the picture. Starting from the moment you press the shutter button, 9 images will be captured consecutively at 1/15-second intervals (in the order of the arrows above) and combined into a single image.

Return to normal shooting mode

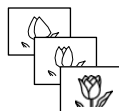
Press the mode button to turn off the continuous shooting icon.

! Caution

- Flash photography is not available during multi-frame continuous shooting.
- You cannot set the number of shots or the interval.

If you set the number of shots and the interval in advance, the camera will automatically take continuous shots at the set interval starting when you press the shutter button.

This is useful for recording plant growth or capturing sun



Continuous shooting

- 1 Set the function switch to "Ka
"Mela".
- 2 Wait until "📷" appears on the screen
, press the mode button.
- 3 Slowly press the shutter button
all the way down to take the picture.
Starting from the moment you press the shutter button, the camera will take continuous shots at the interval and number of shots set in the "Interval Shooting"
(page 66) are used to take a series of photos. During interval shooting, the power/charge lamp flashes slowly.
When the shooting interval is 1 minute or longer, the camera automatically powers off between shots, and the LCD screen turns off.

To stop interval shooting

, turn off the power switch.

To return to normal shooting mode

Press the Mode button to turn off the continuous shooting icon.

! Caution

You cannot use the flash during interval shooting.

etc.

i

R

na

Shadow

Sh

or

oot

or

Rotate the LCD screen to take a photo

(Self-portrait mode)

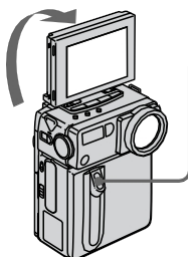
Rotate the LCD screen 180 degrees so that you and take photos while facing the screen.

A wireless remote control is convenient.

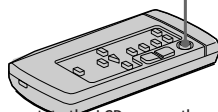


This is useful when taking a selfie or when you want to show the subject the image you are capturing.

Shutter



Shutter



When you rotate the LCD screen, the self-portrait icon (😊) will appear. When taking a self-portrait, the image on the LCD screen will appear mirrored, but the photo will be taken normally.

! Caution

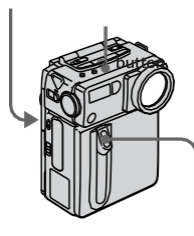
The menu will not be displayed on the LCD screen during self-portrait shooting.

Self-timer shooting

The camera will automatically take a photo 10 seconds after you press the shutter button.

It is convenient to use the wireless remote control with the

Switch

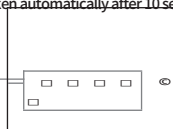


Shutter

- 1 Set the function switch to "Camera."
- 2 Press the button.
- 3 Lightly press the shutter button.
- 4 Press the shutter button all the way down.

The photo will be taken automatically after 10 seconds.

As the moment of capture approaches, the indicators will turn off one by one



To cancel

Press the button.

Record audio simultaneously

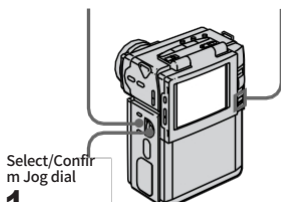
You can record approximately 6 seconds of audio for each image while shooting.



This is useful when you want to preserve the atmosphere of the moment with audio.

Menu button

Function Switch



1

Set the function switch to "Camera" and press the Menu button.

The shooting menu appears.

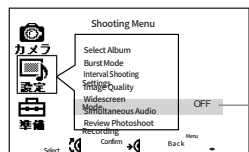
2

Turn the Select/OK jog dial to select "Settings," then press the Select/OK jog dial. The cursor moves to the Settings menu.

3

Move the cursor to "Simultaneous Audio Recording."

The current setting will be displayed.

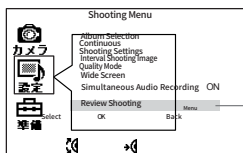


Simultaneous Audio

Recording OFF

4 Press the Select/Enter jog dial to display "ON."

The setting changes each time you press the button.



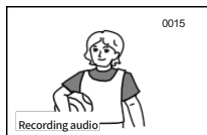
Audio Recording ON

Press the Menu button twice.

Set to audio recording mode, the shooting menu will disappear. the button

6 Slowly press shutter all the not way down to take the picture. The image is recorded, followed by the audio.

will be recorded.



To play back audio simultaneously

Set "Simultaneous Audio Playback" in the playback menu "ON" in the Playback menu. For details, see "Playing Audio Simultaneously" (page 48).

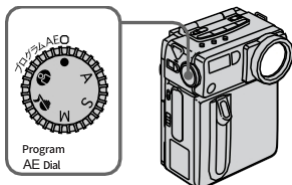
To stop the operation midway

Press the Menu button.

! Note (Regarding the use of the built-in microphone) When recording with the built-in microphone, operational sounds such as the shutter button and the MD drive may be recorded. If these sounds are a concern, we recommend using an external microphone (sold separately).

Shooting for Specific Purposes (Program AE)

The camera automatically adjusts settings to suit the subject and shooting conditions.



- 1 Set the functions switch to "Camera".
- 2 Turn the Program AE dial to select the mode that suits the shooting conditions.

☐ • (Standard Mode)

The camera automatically adjusts brightness, shutter speed, and aperture for the shot.

☐ A (Aperture Priority)

The camera prioritizes the iris setting and adjusts exposure and shutter speed accordingly. The currently set aperture value is displayed in the upper left corner.

☐ S (Shutter Speed Priority) The camera prioritizes the shutter speed setting and adjusts the exposure and aperture accordingly. The currently set shutter speed is displayed in the upper left corner.

☐ M (Manual)

Takes photos using the set exposure, shutter speed, and aperture. The currently set aperture and shutter speed are displayed in the upper left corner.

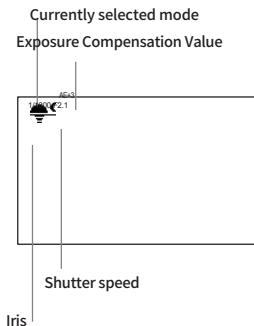
☐ (Sunset & Moon Mode)

This mode captures sunset, nightscapes, fireworks, and neon signs while preserving the atmosphere.

☐ (Spotlight Mode) Prevents faces and other subjects from appearing overexposed when photographing subjects under strong lighting, such as on stage or at weddings.

On-Screen Display During Shooting

The current Program AE settings and the current Program AE settings and the selected value are displayed when a mode other than # (Standard Mode) is selected.

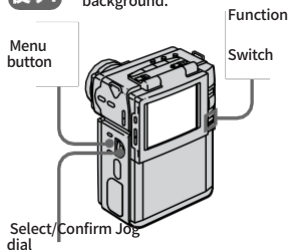


Adjust brightness

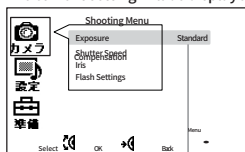
When you select a setting other than "A" (Standard Mode) or "M" (Manual) on the Program AE dial, you can adjust the brightness of the subject to suit the shooting conditions.



When the brightness of the subject differs significantly from that of the background.

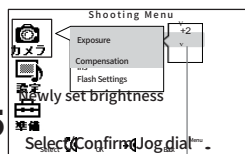


- 1 Set the function switch to "Camera" and press the Menu button.
The shooting menu appears.
- 2 Highlight "Camera" and press the Select/OK jog dial.
The cursor moves to the camera menu.
- 3 Highlight "Brightness Compensation." The current setting will be displayed.



The currently set exposure

- 4 Press the Select/Enter jog dial to display the brightness compensation settings screen, then turn the Select/Enter jog dial to adjust the brightness.
You can adjust the brightness in 7 steps from -3 to +3. Please adjust the brightness while checking the brightness of the background image.



- 5 Press the Select/Confirm Jog dial.
The brightness will be set to the selected level.
- 6 Press the Menu button twice.
The shooting menu disappears.

Return to Auto Shooting Mode

Set the Program AE dial to "A" (Standard Mode). Exposure compensation is disabled.

To cancel menu operations

Press the Menu button.

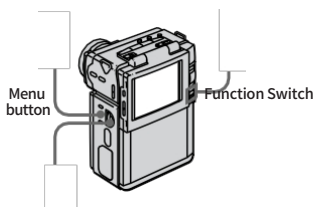
or
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Shoot
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ad
aw

Select a shutter speed

Program AE When "S (Shutter Priority)" or "M (Manual)" is selected on the dial, you can shoot with a fixed shutter speed.



Use this mode when you want to take a photo suited to the brightness of the background, light sources such as fluorescent lights, or the speed of the subject's movement.



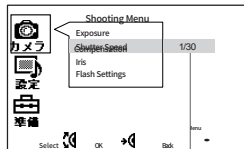
Select/Confirm

Jog Dial

- 1 Set the function switch "Camera," then press the Menu button.
The shooting menu appears.

- 2 Highlight "Camera" and press the Select/Enter jog dial.
The cursor moves to the Camera menu.

- 3 Highlight "Shutter Speed."
The current setting will be displayed.



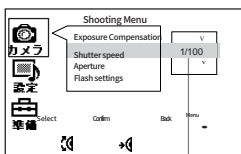
Current shutter speed

- 4 Press the Select/Confirm jog dial to display the shutter speed setting screen, then turn the Select/Confirm jog dial to select the shutter speed.

1/4-	Dark conditions such as dusk or night scenes
1/15	When shooting against a dark background
1/30	When shooting indoors
1/100	When shooting under flickering lighting, such as fluorescent lights

1/250- When photographing fast-moving subjects such as sports

1/4000 When photographing fast-moving subjects



Newly set shutter speed

- 5 Press the Select/Confirm jog dial.
The shutter speed is set to the selected value.

- 6 Press the Menu button twice.

The shooting menu disappears.

! Caution

- If you lock the shutter speed, image quality may deteriorate when the subject's brightness is not suitable for that speed.
- When you take a photo of a very bright subject at a fast shutter speed, streaks may appear at the top and bottom of the image; this is not a malfunction.
- You cannot use the flash when the shutter speed is set to 1/15 or slower, or 1/2000 or faster. Please select a different shutter speed when using the flash.

Return to Auto Shooting Mode

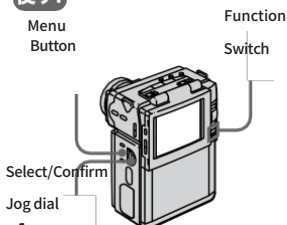
Set the Program AE dial to (Standard mode). The shutter speed setting will be disabled.

Selecting the aperture (iris) manually

When "A (Aperture Priority)" or "M (Manual)" is selected on the Program AE dial, you can shoot with a fixed aperture.



For example, when automatic adjustment is difficult.



- 1 Set the function switch to "Camera" and press the Menu button.

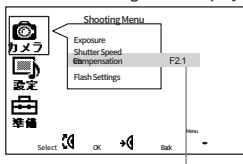
The shooting menu appears.

- 2 Highlight "Camera" and press the Select/OK jog dial.

The cursor moves to the Camera menu.

- 3 Highlight "Iris."

The current setting will be displayed.

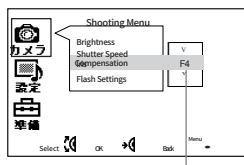


Current Iris Setting

- 4 Press the Select/Enter jog dial to display the iris setting screen, then turn the Select/Enter jog dial to select the iris.

Select from F2.1, F2.8, F4, F5.6, F8,

F11, or F16.



Newly set iris
Select/Confirm Press the jog dial

Press.
will be set to the selected iris

- 6 Press the Menu button twice.

The shooting menu disappears.

Return to Auto Shooting Mode

Set the Program AE dial to "•" (Standard Mode). The iris setting will be disabled.

To cancel a menu operation

Press the Menu button.

Various
Filters

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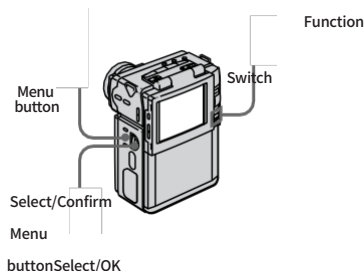
S

Adjusting flash brightness

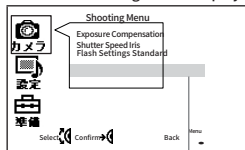
When a setting other than (Standard Mode) is selected on the Program AE dial, you can adjust the flash intensity to suit the shooting conditions.

いつも使う?

For example, when the desired brightness is not achieved due to the subject's position during flash photography.



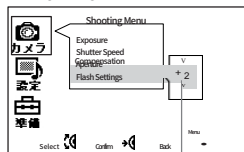
- 1 Set the function switch to "Camera" and press the Menu button.
The shooting menu appears.
- 2 Highlight "Camera" and press the Select/OK jog dial.
The cursor moves to the Camera menu.
- 3 Highlight "Flash Settings."
The current setting will be displayed.



Current brightness

- 4 Press the Select/Enter jog dial to display the flash settings screen, then turn the Select/Enter jog dial to select the flash brightness.

You can adjust the brightness in 7 steps from -3 to +3.



Newly set brightness

- 5 Select/Confirm Press the jog dial.
The brightness will be set to the selected level.
- 6 Press the Menu button twice.
The shooting menu disappears.

To cancel the operation

Press the Menu button.

z Tips for flash settings

When the subject is dark-colored or the background is dark, the flash may make the image appear too bright. In such cases, set the flash to a lower intensity. Conversely, when the subject is light-colored or the background is bright, the flash may make the image appear too dark. In such cases, set the flash to a higher intensity.

To set the flash to the appropriate brightness, we recommend taking a test shot to check the results.

Return to Auto Shooting Mode

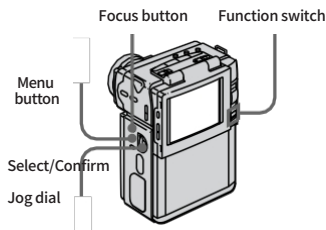
Set the Program AE dial to "•"
(Standard Mode). The flash setting will be disabled.

Manually focus

You can focus manually depending on the shooting conditions.



Use this when autofocus is difficult or when you want to lock the focus



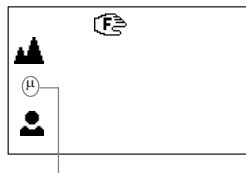
- 1 Set the function switch to "Camera" and press the focus button once.

The manual focus icon

() appears.

- 2 Turn the Select/Confirm jog dial to adjust the focus.

An indicator will appear. Turning the Select/Confirm jog dial down focuses on nearby subjects () , while turning it up focuses on distant subjects () .



When the focus is set for a close subject, the arrow points to  ; when set for a distant subject, it points to .

This is effective in the following situations

- When the subject is behind a window covered with water droplets
- When the subject consists only of horizontal stripes
- When there is little contrast between the subject and the background

To prevent the focus from shifting when zooming

Set the zoom switch to the T side (telephoto) and to focus.

When taking close-up shots

the zoom switch to the W (wide-angle) position and focus.

In the following situations

After manually focusing, select

Shoot with the W side (wide angle).

- When shooting in a dimly lit room
- When shooting fast-moving subjects in bright outdoor conditions

If you can't get a good focus on nearby objects Move the zoom switch to the W (wide-angle) side to focus. The minimum focusing distance is approximately 1 cm or more on the W side and approximately 30 cm or more on the T side.



If the " " mark flashes

you cannot focus on subjects any closer () or farther

away



To return to autofocus

Press the focus button. Each time you press it, the camera switches between manual focus () and autofocus.

Correcting Backlighting

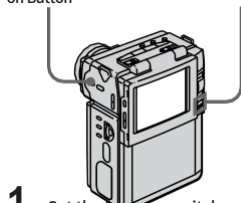
When shooting against the light, the background is too bright and the subject appears dark, so adjust the exposure to compensate.



This applies when there is a light source behind the subject, causing the subject to appear dark, or when there is a strong light source within the frame.

Backlight Compensation Button

Function Switch



- 1 Set the function switch to "Camera".

- 2 Press the shutter button while holding down the Backlight Compensation button.
Backlight compensation is applied only while the button is held down.

Taking Multiple Images for Compositing ()

You can use the optional PC Connection Kit DSKIT-PC4 to combine multiple images into a single image (Windows only). For details, refer to the instruction manual for the PC connection kit.

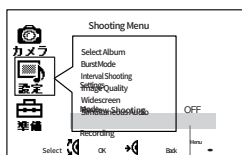


When you want to combine multiple images into a single panoramic photo or large image.

- 1 Set the function switch to "Camera" and press the Menu button.

The shooting menu appears.

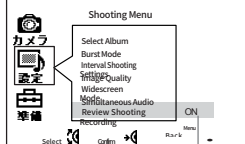
- 2 Turn the Select/Enter jog dial
Turn the dial to select "Settings," then press the Select/Confirm jog dial. The cursor moves to the Settings menu.
- 3 Move the cursor to "Review Shooting."
The current setting value is displayed.



Current Review Shooting Mode

4 Press the Select/Confirm jog dial to select "ON".

The setting changes with each press.



Review Shooting Mode ON

5

Press the Menu button twice.

Review shooting mode is selected,

the shooting menu disappears.

6

Select the images you want to combine into a single photo using the

Press the shutter button all the way down

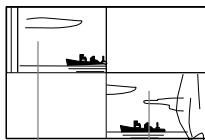
to take a photo.

Every time you press the shutter button, an image is

. They are displayed at 1/4 size

, but they are actually recorded in full screen. To

composite them into a single image later, take each shot with about a 1/4 overlap.



The image recorded last

Image captured by the lens

To end review shooting

, select "OFF" in Step 4.

! Note

- The number of shots varies depending on the image quality mode.
- Review shooting is not available when the LCD screen is rotated for face-to-face shooting.

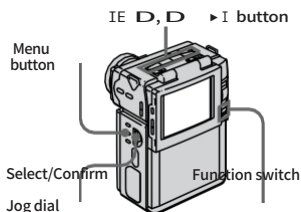
Playing back multiple images at once

(Index)

You can view captured images in sets of 12 at a time. You can also select an image from the set of 12 to display on a single screen.

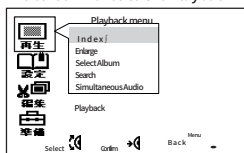


For example, when searching for images.



- 1 Set the Function Switch to "Playback/Audio" and press the Menu button. The Playback menu appears.

- 2 Move the cursor to "Playback" and press the Select/Enter jog dial. The cursor moves to the Playback menu.



- 3 Move the cursor to "Index" and press the Select/OK jog dial.

12 images will be displayed at once

(Index screen).

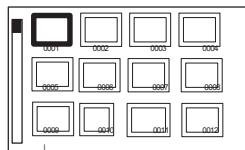


Image Number

Markers such as "Protect (0)" and "Bookmark (B)" are displayed.

Display the selected image on a single screen

- ① Turn the Select/Enter jog dial to select an image.

A Press the Select/Enter jog dial.

The selected image will be enlarged to fit the screen and displayed.

Display a different image

IE D, D ▶ I button to scroll through images.

IE D button Displays images with lower numbers

*

D ▶ I button Display image with larger number

*

* On the index screen, images are displayed in sets of 12.

Return to the index screen

Press the Menu button.

To cancel menu operations midway

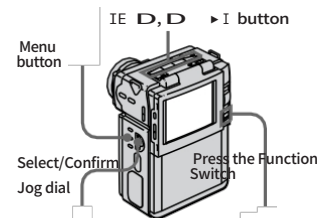
Press the Menu button.

Return to normal playback

Press the Menu button twice. The playback menu will disappear, and you will return to the normal playback screen.

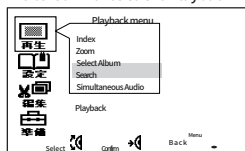
Searching for and playing back images

You can search for images by shooting date, bookmarks, or protection settings.

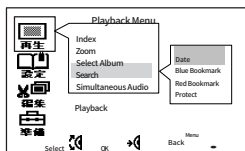


- 1 Set the function switch
Set the function switch to "Playback/Audio" and press the Menu button. The playback menu will appear.

- 2 Move the cursor to "Playback" and press the Select/Enter jog dial.
The cursor moves to the Playback menu.



- 3 Move the cursor to "Search" and press the Select/Enter jog dial.
The search criteria selection screen appears.



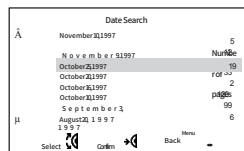
- 4 Select/Confirm Turn the jog dial to select search criteria.

- ☐ Date
Display a list of images by shooting date and search.
- ☐ Blue Bookmark / Red Bookmark List
and search for images with bookmarks.
- ☐ Protected
List and search for images that have been protected.

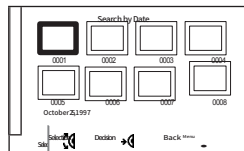
- 5 Select / Confirm Turn the jog dial Press.

If you select the date
The following date search screen will appear

Turn the Select/Confirm jog dial to select the shooting date, then press the Select/Confirm jog dial.



Images matching your selected criteria will be displayed in a list.



The date of the selected image is displayed.

Continued on the next page m

Display selected image on a single screen

- ① Turn the Select/Confirm jog dial to select an image.

A Press the Select/Confirm jog dial.

The selected image will be enlarged to fill the screen and displayed.

To display a different image

Use the **I** **E** **D** and **D** **►I** buttons to scroll through the images.

I E D button	Displays images with lower numbers
*	
D ►I button	Display the image with the higher number
*	

* On the list screen, images are displayed in sets of 8.

Return to the list screen

Press the Menu button.

To cancel menu operations midway

Press the Menu button.

Return to normal playback

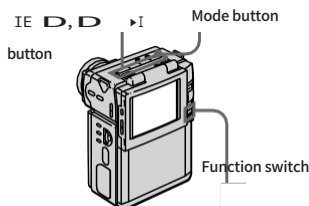
Press the Menu button twice. The playback menu will disappear, and you will return to the normal playback screen.

Automatically play selected images in sequence

(Slideshow)

You can automatically play all images in an album one after another (slideshow). You can also set it to repeat or add background music.

Useful for presentations, etc.



- 1 Set the function switch to "Playback/Audio".
- 2 Press the Mode button to "Slideshow" on the screen.
- 3 Press the D ► button to start playback from the first image in the album, or the IE D button to start playback from the last image in the album.
The slideshow will stop automatically when it ends.

To pause playback

Press the ► button. Press the ► button again to resume playback.

To stop playback

Press the □ button.

Starting playback from a specific image

Press and hold the D ►I button to skip backward through the images, or press and hold the IE D button to skip forward. Release the button when the image number you want to start playback from appears. Playback will begin from the displayed image.

To cancel menu operations during playback

Press the Menu button.

Return to normal playback

Press the Mode button and select "Slide". Turns off the "Show" display. Alternatively, turning off the power will return to normal playback.

Setting up a slide show

Change the slide interval or

Repeat playback, or a slideshow, and select narration or background music for. You can play the track. For details

, see "Setting up a slideshow"

(page 69).

Recording Background Music

Record the background music you want to use in the slideshow in advance. For details, see "Recording and Deleting Background Music"

(page 60).

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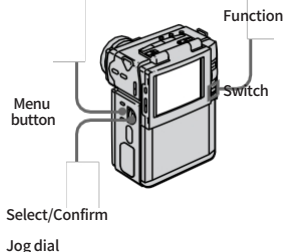
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Rotating Images and Playing Them in " "

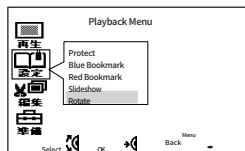
You can rotate captured images.



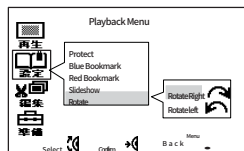
For example, when you want to view a portrait-oriented image in landscape orientation during playback.



- 1 Set the function switch to "Playback/Audio," then press the Menu button. The Playback menu will appear.
- 2 Move the cursor to "Settings" and press the Select/Enter jog dial. The cursor moves to the Settings menu.



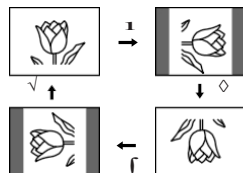
- 3 Move the cursor to "Rotate" and press the Select/Enter jog dial. The rotation execution screen appears.



- 4 Select/Confirm Turn the jog dial to select the rotation direction.

- ☐ Counterclockwise (direction m in the figure below)
Rotates the image 90 degrees clockwise

- ☐ Turn left (toward the f in the figure below)
Rotates the image 90 degrees counterclockwise.



- 5 Press the Select/Enter jog dial. The currently displayed image rotates 90 degrees in the selected direction.

Rotating 180 degrees, 270 degrees, or reverting

Repeat steps 1 through 3.

To cancel menu operations midway

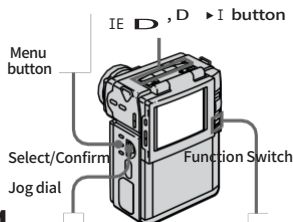
Press the Menu button.

! Caution
Images that have been protected (page 58) cannot be rotated.

Enlarging and re- ing an image

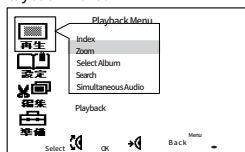
Enlarge approximately 1/4 of the captured image to 4x and display it on the entire screen

You can



1 Set the function switch to "Playback/Audio," then press the Menu button. The Playback menu will appear.

2 Highlight "Playback" and press the Select/Enter jog dial. The cursor moves to the Playback menu.



3 Move the cursor to "Zoom In" and press the Select/Enter jog dial.

A quarter of the currently displayed image will be enlarged four times and displayed across the entire screen.

A frame indicating the magnified area appears in the lower right corner of the screen. (If it is not displayed, press the Screen Display button.)

4 Turn the Select/Enter jog dial to select the enlarged area.



Zoom frame

The outer frame represents the entire screen, while the small inner frame indicates the zoomed-in area. In reality, the grid area, which accounts for 1/4 of the screen, is zoomed in.

Selection/Confirmation: Turning the jog dial moves the small frame (turning down moves it in the direction of the arrow; turning up (Turns in the opposite direction)).

Small box at the position shown in the figure on the left, the mesh section

The image is enlarged 4 times and displayed across the entire screen. In practice, it appears on the screen as shown below



Display a different image

IE D, D ▶ I button to send the image.

Hide the zoom frame

Press the Screen Display button.

Stop zooming

Press the Menu button.

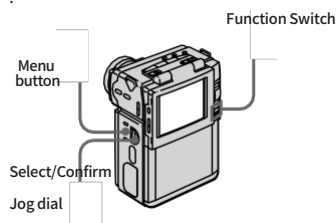
Return to normal playback

Press the Menu button twice. The playback menu will disappear, and you will return to the normal playback screen.

! Note

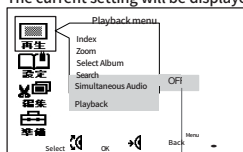
Audio cannot be played simultaneously

You can play back audio recorded during shooting or dubbed audio at the same time as the image



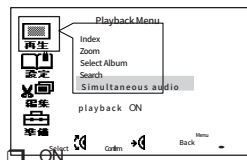
- 1 Set the function switch to "Playback/Audio" and press the Menu button. The Playback menu appears.
- 2 Move the cursor to "Playback" and press the Select/Enter jog dial. The cursor moves to the Settings menu.
- 3 Move the cursor to "Simultaneous Audio Playback."

The current setting will be displayed.



Current simultaneous audio playback setting

- 4 Press the Select/Enter jog dial to select the simultaneous audio playback mode. The setting changes with each press.



Play audio simultaneously.

☐ OFF

Do not play audio simultaneously.

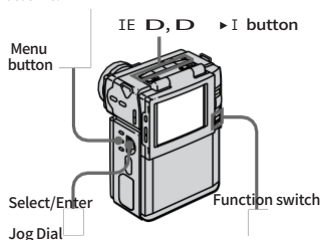
- 5 Press the Menu button twice. The device is set to simultaneous audio playback mode, and the playback menu disappears.

To cancel the operation

, press the Menu button.

Move Images

You can move images within an album or to other albums.



! Caution

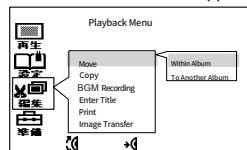
You cannot move images that have been protected (page 58).

Navigating within the Album

You can move through the album one image at a time.

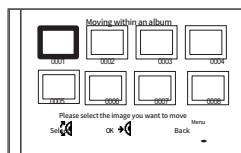
- 1 Set the function switch to "Playback/Audio" and press the Menu button. The playback menu appears.
- 2 Turn the Select/Enter jog dial to select "Edit," then press the Select/Enter jog dial. The cursor moves to the Edit menu.
- 3 Move the cursor to "Move" and press the Select/Enter jog dial.

The move execution screen appears.



- 4 Turn the Select/OK jog dial to select "In Album," then press the Select/OK jog dial.

The image selection screen appears.

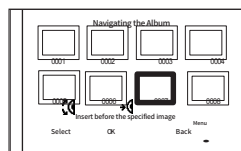


Scroll Page

IE D, D ▶ Pressing the I button allows you to scroll through images in groups of 8.

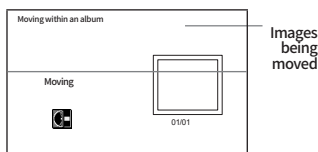
- 5 Turn the Select/Confirm jog dial to select the image you want to move, and then press the Select/Confirm jog dial.

The insertion location selection screen appears.



- 6 Turn the Select/Enter jog dial to choose the location where you want to insert the image, then press the Select/Enter jog dial.

The image selected in Step 4 will be inserted before the specified location. If audio has been recorded, the audio will also be moved at the same time.



How to select

Once the transfer is complete, you will return to the image selection screen in Step 4. You can confirm that the images have been transferred.

To cancel the menu operation midway

Press the Menu button.

To move other images

Repeat steps 4 through 5.

To finish moving and return to the normal screen

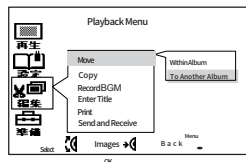
Press the Menu button three times.

Move to another album

You can move images to the end of another album.
You can move up to 16 images at a time.

- From "Edit" in the playback menu
Select "Move" and press the Select/OK jog dial.

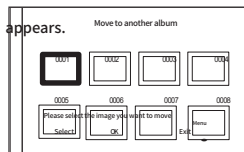
The move confirmation screen will appear.



- Select/OK Turn the jog dial to select "To Other Albums," then press the Select/OK jog dial

Press YARU.

The image selection screen



Scroll through pages

When you press the IE **D** or **D** **I** button, you can scroll through the images in sets of 8

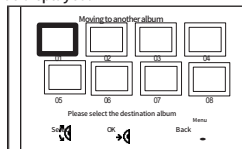
- Turn the Select/Enter jog dial to select the image you want to move, and press the Select/Enter jog dial.
You can select up to 16 images. The image numbers of the selected images will be highlighted.

! Caution

Once you have selected 16 images, the destination album screen will automatically appear.

- Press the Menu button.

The destination album selection screen will be displayed.



- Select/OK Turn the jog dial to select the album where you want to insert the image, then press the Select/OK jog dial.
The image selected in Step 3 will be inserted at the end of the specified album. If audio has been recorded, the audio will be moved at the same time.

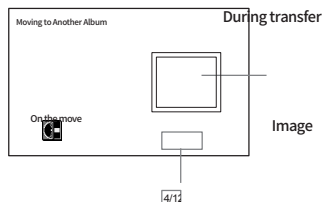


Image number currently being displayed / Total number of images

When navigation is complete, you will return to the image selection screen in Step 2.

Move other images

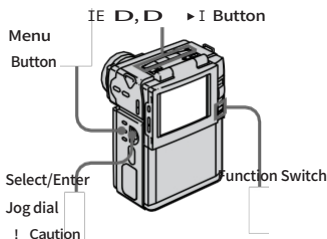
Repeat steps 3 through 5.

Finish moving and return to the normal screen

Press the Menu button three times.

Copy images

You can copy images within the album, to other albums, or to other discs



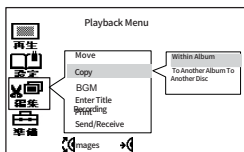
- Images that have been protected (page 58) cannot be copied.
- Audio is not copied.

Copying within an album

You can copy images one at a time.

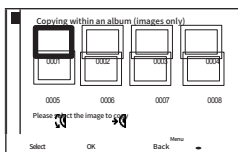
- 1. Set** the function switch to to “Playback/Audio” and press the Menu button. The Playback menu appears.
- 2** Turn the Select/Enter jog dial to select “Edit,” then press the Select/Enter jog dial. The cursor moves to the Edit menu.
- 3** Move the cursor to “Copy” and press the Select/Enter jog dial.

The copy execution screen appears.



- 4** Turn the Select/OK jog dial to select “In Album,” then press the Select/OK jog dial.

The image selection screen appears.

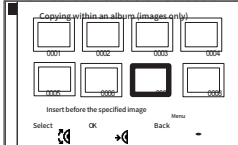


Page Forward

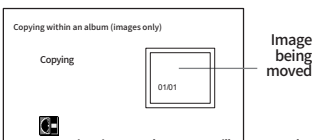
I E D, D ▶ Pressing the I button allows you to scroll through images in groups of 8.

- 5 Select/Confirm** Turn the jog dial to select the image you want to move, then press the jog dial.

The insertion location selection screen appears.



- 6** Turn the Select/OK jog dial to choose the location where you want to copy the image, then press the Select/OK jog dial. The image selected in Step 4 will be copied before the specified location.



Once copying is complete, you will return to the image selection screen in Step 4. You can confirm that the images have been moved.

How to Copy file

To cancel the menu operation midway

Press the Menu button.

To copy another image

Repeat steps 5 and 6.

Finish copying and return to the normal screen

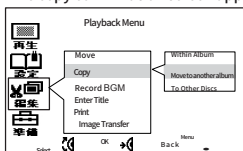
Press the Menu button three times.

Copy to another album

You can copy images to the end of another album.
You can copy up to 16 images at a time.

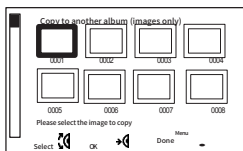
- 1 From "Edit" in the playback menu
Select "Copy" and press the Select/OK jog dial.

The copy confirmation screen appears.



- 2 Select/Enter Turn the jog dial to select "To Another Album," then press the Select/Enter jog dial.

The image selection screen appears.



Scroll

IE D, D ► Press the I button to scroll through images in sets of 8.

- 3 Turn the Select/Enter jog dial to select the images to copy, then press the Select/Enter jog dial.

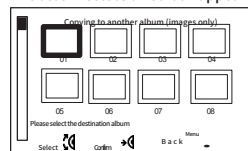
You can select up to 16 images. The image numbers of the selected images will be highlighted.

! Caution

Once you have selected 16 images, the destination album screen will automatically appear.

- 4 Press the Menu button.

The album selection screen appears.



- 5 Select/Confirm Turn the jog dial to select the destination album, then press the Select/Confirm jog dial.

The image selected in Step 3 will be copied to the end of the specified album.

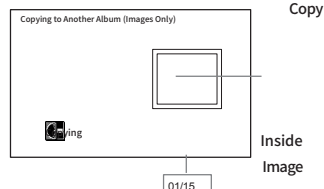


Image number being copied / Total number of images to be copied

When copying is complete, you will return to the image selection screen in Step 2.

To copy other images

Repeat steps 2 through 5.

To finish copying and return to the normal screen

Press the Menu button three times.

Copying to another disc

You can copy images to the end of another disc.
You can copy up to 4 images at a time.

! Caution

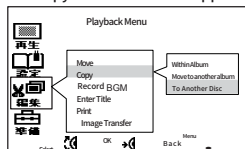
Be sure to format the disc in advance. (Page 19)

1 From the "Edit" menu in the playback

menu

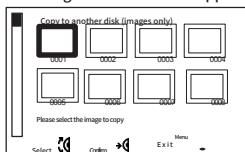
Select "Copy" and press the
Select/Enter jog dial.

The copy execution screen appears.



2 Select/Enter Turn the jog dial to select "To Other Disc," then press the Select/Enter jog dial.

The image selection screen appears.



Send page

IE D, D ► Press the I button to scroll
through images in groups of 8.

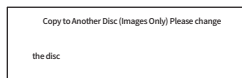
3 Select/Confirm Turn the jog dial to select the images to copy, then press the Select/Confirm jog dial. You can select up to 4 images. The image numbers of the selected images will be highlighted.

! Caution

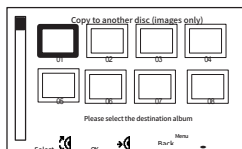
Once you have selected 4 images, the screen
shown in step 4 will appear.

4 Press the Menu button.

The following screen will appear.



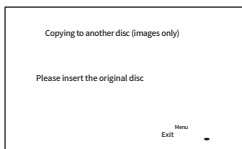
5 Remove the disc and replace it with the destination disc. The album selection screen for the destination disc will appear.



6 Select/OK Turn the jog dial Rotate the jog dial to select the destination album Edit, then press the Select/OK jog dial.

The image selected in Step 3 will be copied to the
end of the specified disc.

When the copy is complete, the following
screen will be displayed.



Copy other images

Insert the source disc and follow steps

2 through 5.

To finish copying and return to the normal screen

Press the Menu button twice.

To cancel the menu operation midway
Press the Menu button.

Record audio with captured images (Voiceover)

You can record narration on captured images. You can record using the built-in microphone.

Narration button



- 1 Play back or use Rec Review to view the image you want to record narration for. If you do not use Rec Review (page 24) when taking a picture, narration will be recorded on the last image taken.
- 2 Press the Narration button.
The "Voice Memo Ready" indicator lights up for 1 second; if you continue to hold the button down, the "Voice Memo Recording" indicator appears.
- 3 While holding down the Narration button, speak your narration into the microphone. The narration will be recorded.
- 4 Release the Narration button when you want to stop recording. The narration will be recorded with the image.



MD Recording Indicator

When recording is complete, the screen returns to the recording or playback screen.

! Caution

- You cannot record audio on images that have been protected (page 58). Please remove the protection setting beforehand.
- If narration has already been recorded, the previously recorded narration will be erased and overwritten.
- When recording with the built-in microphone, narration The sound of the button being pressed may be recorded. Also, when recording narration for a long time, the sound of the MD spinning may be picked up. In that case, we recommend using an external microphone (sold separately).

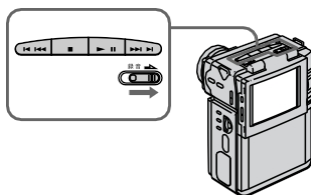
zAbout External Microphones

We recommend the following models of external microphones (sold separately).

- Electret Condenser Microphone ECM-MS907
- Back-electret Condenser Microphone ECM-717

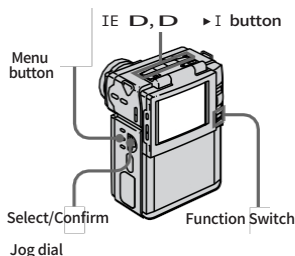
In Step 3, you can also start recording by pressing the record switch instead of the narration button. Press the ► button to pause,

and the □ button to stop.

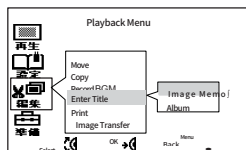


Adding a Title

You can add a title to an image or album.



- 1 Set the function switch to "Playback/Audio" and press the Menu button. The Playback menu appears.
- 2 Turn the Select/Enter jog dial to select "Edit," then press the Select/Enter jog dial. The cursor moves to the Edit menu.
- 3 Move the cursor to "Enter Title" and press the Select/Enter jog dial. The Title Input menu appears.



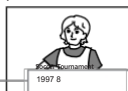
- 4 Turn the Select/Enter jog dial to select the item you want to name.

Image Memo

Assign a title to the image.

(Up to 30 characters)

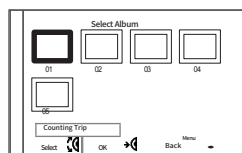
Displayed when you press the Screen Display button during playback.



Album

Add a title to the album's representative image (cover).

(Up to 15 characters)

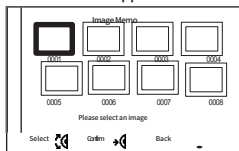


When selecting an album, the title of the selected album is displayed.

Press the **5 Select/Confirm** jog dial (e) the jog dial (Col) Press the

Select an image or album

The screen will appear.



Next Page

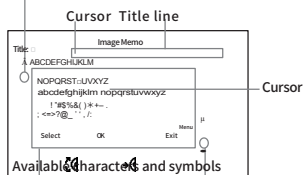
IE D, D ▶ Press the I button to scroll through images in sets of 8.

- 6** Select/Confirm Turn the jog dial to select an image or album, then press the Select/Confirm jog dial.

The title entry screen appears.

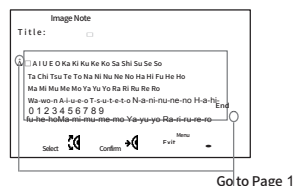
For image memos

Go to Page 2



Page 2

Go to Page 2

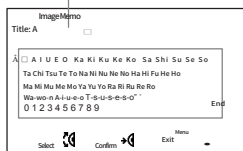


To switch pages

Turn the Select/Enter jog dial continuously up or down to switch pages.

- 7** Turn the Select/Enter jog dial to select the character or symbol you want to enter, then press the Select/Enter jog dial.
- The selected character or symbol is entered into the title line.

Entered characters



- 8** Repeat step 6 to enter the title.

You can enter up to 15 characters for the album title and up to 30 characters for the image memo.

To correct text

Use the IED button to move the cursor to the character you want to correct, and then re-enter the character. The character will be overwritten.



- 9** Press the Menu button.

The title you entered will be saved. Once saving is complete, you will return to the screen shown in step 5.

Next, add titles to other image notes or albums

Repeat steps 6–8.

Finish entering the title and return to the normal screen

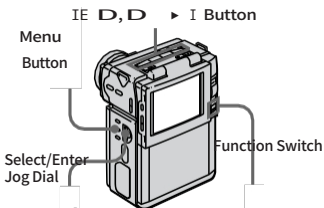
Press the Menu button three times.

! Caution

You cannot record titles on protected images (page 58). Please remove the protection first.

Adding bookmarks to images

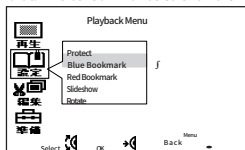
You can mark images to use as search clues or to categorize them within an album. Two types of bookmarks are available: blue and red.



1 Set the function switch

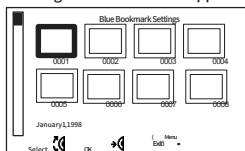
to "Playback/Audio" and press the Menu button. The Playback menu appears.

2 Turn the Select/Enter jog dial to select "Settings," then press the Select/Enter jog dial. The cursor moves to the Edit menu.



3 Select "Blue Bookmark" or "Red Bookmark," then press the Select/OK jog dial.

The image selection screen appears.

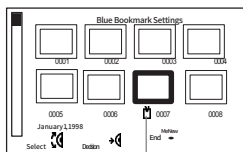


Scroll

Pressing the IE D or D > I button allows you to scroll through images in groups of 8, moving forward or backward.

4 Select/Confirm Turn the jog dial to select the image you want to bookmark, then press the Select/Confirm jog dial to confirm. You can select multiple images. A bookmark

(B) appears next to the image numbers of the selected images. (Pressing the button again removes the bookmark.) You can also add both a blue bookmark and a red bookmark to a single image



5 Press the Menu button.

The bookmark will be saved. When saving is complete, you will return to the screen shown in step 2.

Next, add bookmarks to other images

Repeat steps 3–5.

Return to the normal screen

Press the Menu button once.

To cancel menu operations midway

Press the Menu button.

! Caution

You cannot record bookmarks on images that have been protected (page 58). Please remove the protection beforehand.

Preserving Important Images

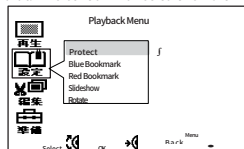
(Protect)

To preserve important images, you can apply the Protect setting to all captured images or to selected images to prevent accidental deletion.

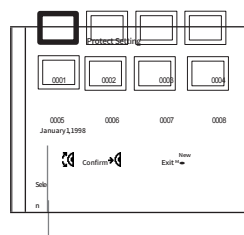


- 1 Set the function switch to "Playback/Audio" and press the Menu button. The Playback menu appears.

- 2 Turn the Select/Enter jog dial to select "Settings," then press the Select/Enter jog dial. The cursor moves to the Edit menu.



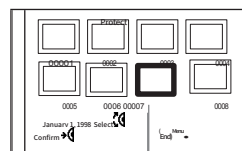
- 3 Select "Protect" and press the Select/OK jog dial. The image selection screen appears.



Scroll

Pressing the IE D or D > I button allows you to scroll through images in groups of 8, moving forward or backward.

- 4 Select/Confirm Turn the jog dial to select the image you want to protect, then press the Select/Confirm jog dial. You can select multiple images. A protect mark (O) appears next to the image numbers of the selected images. (Pressing the button again cancels the selection.)



Protect Mark

- 5 Press the Menu button.

The protection mark is recorded. When recording is complete, the screen returns to the screen shown in step 2.

Next, set protection for other images

Repeat steps 3-5.

Return to the normal screen

Press the Menu button once.

To cancel menu operations midway

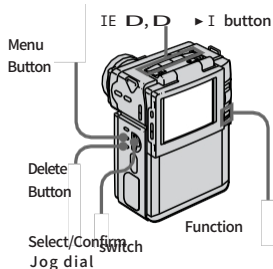
Press the Menu button.

! Caution

You cannot set protection if the disc is write-protected.

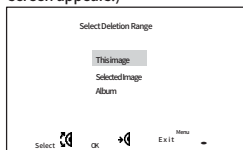
Deleting Images ()

You can delete images you no longer need. You can delete images by album or select individual images within an album.



- 1 Press the Delete button during shooting, Rec Review playback, or playback.

The delete range selection screen appears. (During shooting, the last image taken is played back, and the delete range selection screen appears.)



- 2 Select/Confirm Turn the jog dial to select the unit of images to delete.

☐ This Image

Delete the image currently being played.

☐ Selected images

Select and delete specific images.

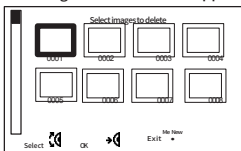
☐ Album

Delete all images in the currently selected album.

- 3 Turn the Select/Enter jog dial to select the unit of images to delete, then press the Select/Enter jog dial.

When you select "Select Images,"

the image selection screen appears.



Scroll

By pressing the IE D and D button, you can scroll through the images in sets of 8.

Turn the Select/Confirm jog dial to select the image you want to delete, then press b to confirm. The number of the selected image will be highlighted.

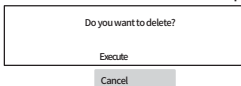
Edit

(Pressing it again cancels the selection)

When you have finished selecting, press the menu button a. The delete confirmation screen will appear.

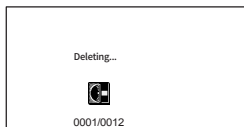
When you select "This Image" or "Album"

the Delete Confirmation screen appears immediately.



- 4 Turn the Select/Enter jog dial to select "Execute," then press the Select /Confirm jog dial.

The following screen appears. If you have recorded audio, it will also be deleted at the same time.



Once deletion is complete, the camera will return to the shooting or playback screen.

To cancel menu operations midway

Press the Menu button.

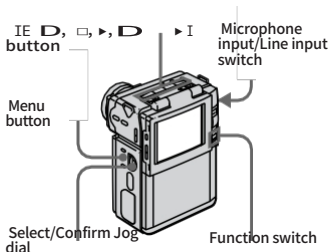
! Caution

When you select "Delete this image" or "Delete selected images," you cannot select images that have been protected (see page 58). To delete a protected image, you must first remove the protection.

- Once an image is deleted, it cannot be recovered. Please verify the contents before deleting.

Recording and Deleting BGM

You can record background music to play during a slideshow. You can also delete background music you no longer need.

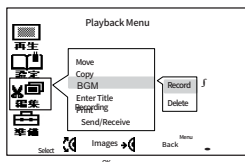


Recording background music

- 1 Set the Microphone/Line Input switch to "Line Input," and connect the line input terminal to an audio source such as a CD player.
For connection instructions, see "Connecting Audio Equipment" (page 77).
- 2 Set the function switch to "Playback/Audio" and press the Menu button. The playback menu appears.
- 3 Turn the Select/Enter jog dial to select "Edit," then press the Select/Enter jog dial. The cursor moves to the Edit menu.

- 4** Move the cursor to "BGM Recording" and press the Select/Enter jog dial.

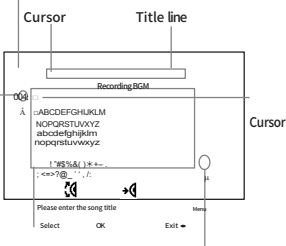
The BGM settings screen appears.



- 5** Select/Enter Turn the jog dial to select "Recording," then press the Select/Enter jog dial.
The first page of the song title entry screen appears.

Go to Page 2

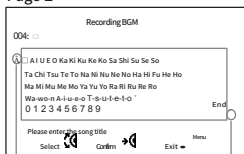
Track number (Assigned in recording order.)



Acceptable characters and symbols

Next Page

Page 2



Go to Page 1

To switch pages

Select/Confirm Turn the jog dial up or down continuously to switch pages.

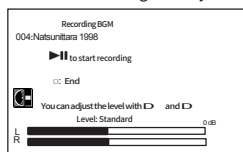
- 6** Enter the song title as described in steps 6 through 7 of "Assigning a Title" (page 56).

You can enter up to 15 characters.



- 7** Press the Menu button.

The BGM recording standby screen appears.



8

Adjust the recording level.

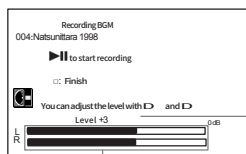
Play on connected audio device

Start playback

meter, adjust the recording level

To increase the level, press the D I button.

To decrease the level, press the IE D button.

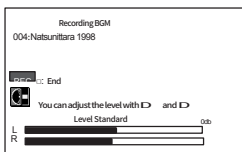


Level Meter

Level value

When you have finished adjusting, pause playback.

- 9 ▶ Press the " " button or the record switch to start recording and begin playback on the audio device. Recording will begin.

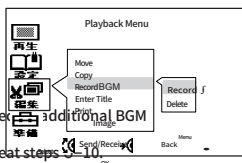


To pause recording

Press the ▶ button. Press it again to resume recording.

- 10 Press the □ button to stop recording

The BGM will be recorded. When recording is finished, "Recording complete" will be displayed. Press the Menu button to return to the BGM settings screen in step 4.



To record additional BGM

Repeat steps 9-10

To finish recording the BGM and return to the normal screen

Press the Menu button twice.

To cancel menu operations midway

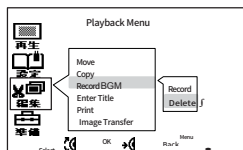
Press the Menu button.

Delete BGM

You can delete recorded BGM. You can also play it back to check the content before deleting it.

- 1 Set the function switch to "Playback/Audio" and press the Menu button. The Playback menu will appear.
- 2 Turn the Select/Enter jog dial to select "Edit," then press the Select/Enter jog dial. The cursor moves to the Edit menu.
- 3 Move the cursor to "BGM Recording" and press the Select/Confirm jog dial.

The BGM settings screen will appear.



- 4 Turn the Select/Enter jog dial to select "Delete," then press the Select/Enter jog dial.

The BGM delete screen appears.

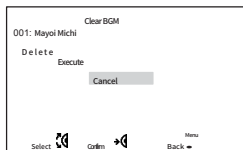
Recorded track numbers and titles

Deleting BGM	
No.	Title
1:	Mayoi Michi
2:	
3:	Strings
4:	Dive S: Kyoukyouyoku
Please select the BGM you want to delete.	
▶ Press the " " key to play	
Select	Confirm
Back	Menu

Play the song to check it
 Select/Confirm Turn the jog dial to select the song you want to check, and press the ► button. The selected track will play. To stop playback, press the □ button.

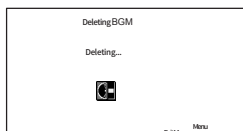
- 5** Select/Enter Turn the jog dial to select the track you want to delete, then press the Select/Enter jog dial.

A confirmation screen for deletion will appear.



- 6** Select/Confirm Jog dial
 Turn the jog dial to select "Execute," then select
 Press the jog dial to select/confirm

The selected track will be deleted.



When deletion is complete, the BGM settings screen from Step 3 will be displayed.

Delete other songs

Repeat steps 4 through 6.

To complete the deletion

Press the Menu button twice. The screen returns to the normal display.

To cancel menu operations midway

Press the Menu button.

Miscellaneous

G

Edit the

If

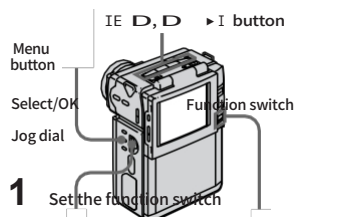
settings

Selecting an album

You can select an album for recording and playback, or create a new one

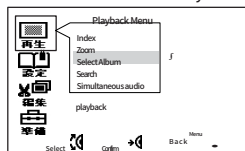
Once you select an album,

The same album remains selected until you swap the MD data disc.

- 

Set the function switch to "Playback/Audio" and press the Menu button. The playback menu appears.

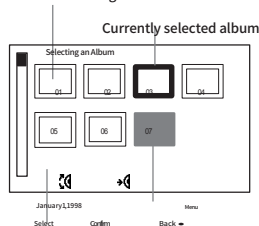
- Make sure the cursor is on "Playback," then press the Select/Enter jog dial. The cursor moves to the Playback menu.



- Select/Confirm Turn the jog dial to highlight "Album Selection," then press the Select/Confirm jog dial.

The Album Selection screen appears.

Album cover image



Empty album

Title or date of the selected album

The covers of each album are displayed in a list. Albums without cover images are empty albums. You can create up to 30 albums on a single disc. You can save

To display a different page

If there are other pages, turn the Select /Confirm jog dial or use the IE D and D I buttons to scroll through pages in increments of 8 albums.

- Turn the Select/Enter jog dial to select the album from which you want to save or play back images, and press the Select/Enter jog dial. The menu disappears and the display returns to the normal screen.

To create a new album

Select an empty album in step 4.

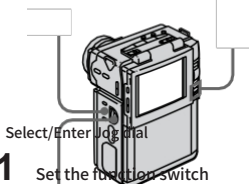
To cancel the operation

Press the Menu button.

Set the number of shots and interval for continuous shooting and Time Machine shooting

You can set the number of shots and the interval for continuous shooting and Time Lapse.

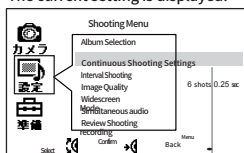
Menu button Function switch



- 1 Set the function switch
Set the Function Switch to "Camera"
and press the Menu button.

The shooting menu will appear.
- 2 Turn the Select/Confirm jog dial to
select "Settings," then press the
Select/Confirm jog dial. The cursor will
move to the Settings menu.
- 3 Move the cursor to "Continuous
Shooting Settings."

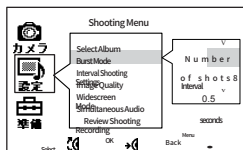
The current setting is displayed.



Current Burst

Interval

- 4 Press the Select/Confirm jog dial.
The continuous shooting settings screen
appears.



- 5 Select/Confirm Turn the jog dial to
select the number of continuous shots.

Select a number between 2 and 10.

- 6 Press the Select/Confirm jog dial.
The cursor moves to "Interval."

- 7 Turn the Select/Confirm jog dial to
select the continuous shooting interval.
Choose from 0.25 seconds, 0.5 seconds,
0.75 seconds, or 1 second.

- 8 Press the Select/Confirm jog dial

Press the Selection/Confirmation Jog Dial.
The setting takes effect, and the settings screen
will disappear.

- 9 Press the Menu button twice.
The shooting menu will disappear.

cancel the operation midway
Press the Menu button.

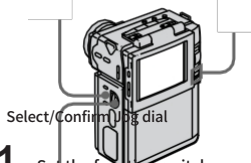
z About Image Quality Mode and Continuous Shooting Settings
In Fine mode, fewer photos are taken than the set
number. If the continuous shooting setting is 10, the
number of photos taken in Time Machine mode is as
follows.

Image Quality Mode	Before	After
Standard Mode	5 shots	5 shots
Fine Mode	3	2 shots

Set the number of shots and interval for interval shooting

Set the number of shots and interval for interval shooting.

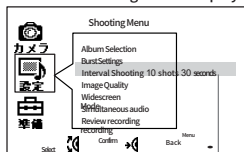
Menu button Function Switch



- 1 Set the function switch
Set the Function Switch to "Camera"
and press the Menu button.
The shooting menu appears.

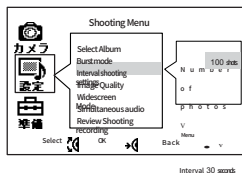
- 2 Turn the Select/Confirm jog dial to select "Settings," then press the Select/Confirm jog dial. The cursor moves to the Settings menu.

- 3 Move the cursor to "Interval Shooting."
The current setting will be displayed.



Current Interval and Number
of Shots Settings

- 4 Press the Select/Confirm jog dial.
The interval shooting settings screen
appears.



- 5 Select/Confirm Turn the jog dial to select "Number of shots."
Select a number between 2 and 1000.
- 6 Select/Confirm Press the jog dial.
The cursor moves to "Interval".
- 7 Turn the Select/Confirm jog dial to select the continuous shooting interval.
Select a value between 20 seconds and 24 hours.
- 8 Press the Select/Confirm jog dial.
The setting takes effect and the setup screen disappears.
- 9 Press the Menu button twice.
The shooting menu disappears.

To cancel the operation

Press the Menu button.

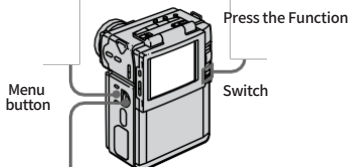
Select an image quality mode

You can choose from two image quality modes for shooting. The number of shots you can take varies depending on the image quality mode.

z About Selecting Image Quality Modes

When you format with this unit, it is always formatted in Diary Mode. The only image quality mode available in Diary Mode is Standard Mode. To use Fine Mode, change the Album Mode to Free Mode beforehand. For instructions on how to change the mode, see "Switching the recording mode of an MD data disc (Album Mode)"

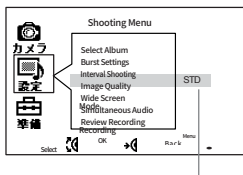
(page 71).



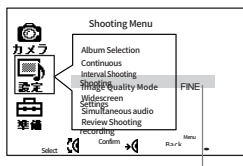
Select/Confirm Jog Dial

- 1 Set the function switch to "Camera" and press the Menu button.
The shooting menu appears.
- 2 Turn the Select/Enter jog dial to select "Settings," then press the Select/Enter jog dial.
- 3 Move the cursor to "Picture Mode."

The current picture quality mode is displayed.



- 4 Press the Select/Enter jog dial to select an image quality mode. The mode changes with each press.



New Image Quality Mode Settings

- ☐ Fine (FINE)

Use this when prioritizing image quality.
(The number of shots you can take is about half that of Standard.)

- ☐ Standard (STD)

Standard image quality mode.

- 5 Press the Menu button twice. a The camera returns to the selected image quality mode, and the shooting menu disappears.

z What is the difference between the image quality modes?
Depending on the compression ratio used when saving images

Images are compressed using the JPEG format before being saved, but the amount of memory allocated when they are saved (no) varies depending on the image quality mode as follows

(The number of pixels is 640 x 480 regardless of the image quality mode, and the data size before compression is approximately

450 KB.)

Fine Mode	128 KB
Standard Mode	64 KB

! Note

Depending on the image, changing the image quality mode may not result in any difference in image quality.

To cancel the operation

Press the Menu button.

Switch to landscape mode

mode

(Wide Screen)

Shoot in a way that results in a horizontal widescreen display when played back. Please also refer to the instruction manual for the TV you are connecting to.



Menu button

When you want the image to fill the screen on a widescreen TV.

Function

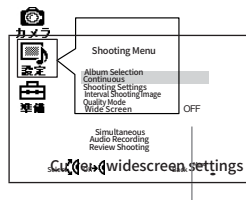
Switch

Select/Enter Jog Dial

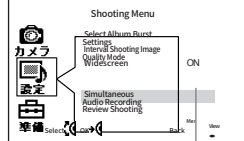
- 1 Set the function switch to "Camera" and press the menu button.
The shooting menu appears.

- 2 Turn the Select/Confirm jog dial to select "Settings," then press the Select/Confirm jog dial. The cursor moves to the Settings menu.

- 3 Move the cursor to "Wide Screen". The current screen mode is displayed.



- 4 Press the Select/Confirm jog dial to choose a screen mode. The mode changes each time you press it.



New widescreen settings

- ☐ ON
Displayed on a horizontal widescreen.
- ☐ OFF
Displayed on a standard TV screen.

- 5 Press the Menu button twice. The camera will switch to the selected screen mode, and the shooting menu will disappear.



To return to the standard screen mode

Select "OFF" in step 4.

To cancel the operation

Press the Menu button.

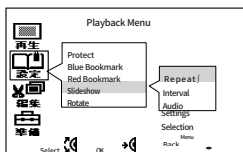
Configure the slide show settings for repeat playback, the interval between image changes, and audio playback.

Menu button

Function switch

Select/Enter jog dial

- 1 Set the function switch to "Playback/Audio" and press the Menu button. The Playback menu appears.
- 2 Turn the Select/Enter jog dial to select "Settings," then press the Select/Enter jog dial. The cursor moves to the Settings menu.
- 3 Move the cursor to "Slideshow" and press the Select/Confirm jog dial. The slideshow settings screen appears.

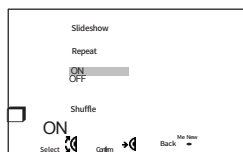


- ☐ Repeat
Set whether to play repeatedly or stop automatically after one playback.
- ☐ Interval Settings
Set the interval between image changes.
- ☐ Audio Selection
Select the audio to be played along with the images.

- 4 Select/Enter Turn the jog dial to select the item you want to set, then press the Select/Enter jog dial. The screen will switch to the settings screen for the selected item.

Set repeat playback

Turn the Select/Enter jog dial to select the playback mode.



Until stopped, the first image or to the last image in sequence (repeat playback).

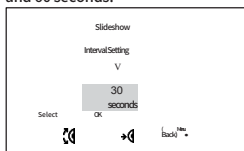
- ☐ OFF
Stops automatically after playing once from the first image to the last image.
- ☐ Shuffle
Images are played back repeatedly in random order until you stop playback.

Select/Confirm Press the jog dial to set the selected playback mode and return to the screen in step 3.

Various settings stop or ta

Set the playback interval

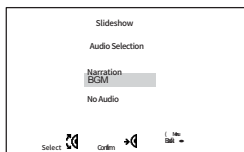
Turn the Select/Enter jog dial to set the interval between image changes between 4 and 60 seconds.



Select/Confirm Press the jog dial to set the selected interval and return to the screen in step 3.

Select audio

Select/Confirm Turn the jog dial to select the audio to play along with the images.



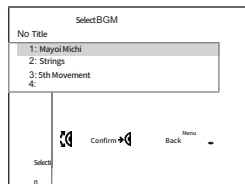
☐ Narration

Plays the narration recorded with the image.

☐ BGM

Plays the recorded background music (page 60). (If no background music has been recorded, this option is not available.)

If multiple BGM tracks have been recorded, the BGM selection screen will appear. Select a song, then press the Select/Confirm jog dial.



The title of the currently playing BGM is displayed. For tracks without a title, the track number is displayed.

☐ No Audio

No audio will be played.

Select/Confirm Turn the jog dial to select an audio option, then press the jog dial to confirm. The audio is selected, and you return to the screen in Step 3.

5 Press the Menu button three times.

The playback menu disappears.

To cancel the operation

Press the Menu button.

Switching the recording mode of an MD data disc (Album Mode)

There are two ways to record images and audio to an MD data disc (Album Mode):

☐ Diary Mode

The storage space on the MD data disc is pre-allocated for image recording and audio recording. You can record up to 365 images in Standard Mode and up to approximately 40 minutes of audio.

☐ Free Mode

You can freely allocate the storage space on the MD data disc for image and audio recording. If you record only images without audio, you can store up to 1,000 images per album.

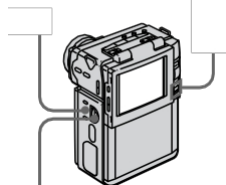
Formatting the disc automatically sets it to Diary Mode, but you can switch to Free Mode at any time. (You cannot switch from Free Mode to Diary Mode.)



For example, when you want to take a lot of pictures.

Menu Button

Function Switch



Select/Enter Jog dial

1

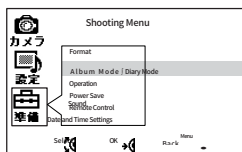
Set the Function Switch

Set the Function Switch to "Camera" and press the Menu button.

The shooting menu appears.

2

Turn the Select/Enter jog dial to select "Setup," then press the Select/Enter jog dial. The cursor moves to the Setup menu.



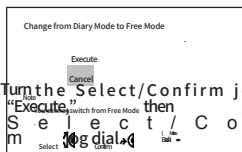
3

Move the cursor to "Album Mode"

and press the Select/Confirm jog

dial.

The following screen will appear.



4

Turn the Select/Confirm jog dial to select "Execute," then press the Select/Confirm jog dial. The album mode will change to free mode.

To cancel the operation

Press the Menu button.

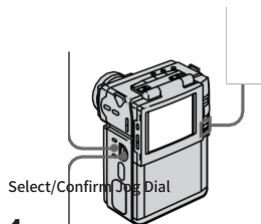
ii
Various settings

Turning off operation sounds

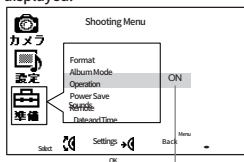
When you press a button or turn a dial on this unit, you will hear a “beep” sound to confirm the operation. You can turn off this sound.

Menu button

Function Switch



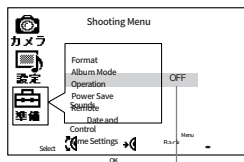
- 1** Set the function switch
Set the function switch to “Camera” or “Playback/Audio,” then press the menu button.
The Shooting Menu or Playback Menu appears.
- 2** Turn the Select/Enter jog dial to select “Setup,” then press the Select/Enter jog dial. The cursor moves to the Setup menu.
- 3** Move the cursor to “Operation Sounds.”
The current operation sound setting is displayed.



Current Operation

Sound Settings

- 4** Press the Select/Enter jog dial to select the operation tone setting. The setting changes each time you press the dial.



Mute operation

- ☐ ON sounds

Operation sounds are heard.

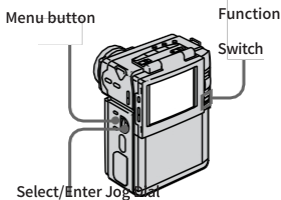
- ☐ OFF

No operation sounds.

- 5** Press the Select/Confirm jog dial.
The camera will be set to the selected mode.
 - 6** Press the Menu button twice.
The menu disappears.
- To cancel the operation
Press the Menu button.

Turn off Power Save

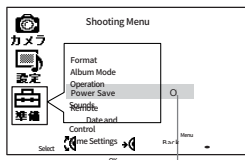
To conserve battery power, the LCD screen turns off automatically or the camera powers down when not in use during shooting (Power Save function). You can also set the camera so that the Power Save function does not activate.



1 Set the function switch
Set the function switch to "Camera" or "Playback/Audio," then press the menu button.
The Shooting Menu or Playback Menu will appear.

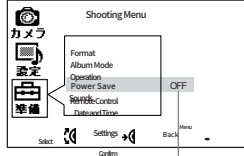
2 Turn the Select/Confirm jog dial to select "Setup," then press the Select/Confirm jog dial. The cursor moves to the Setup menu.

3 Move the cursor to "Power Save."
The current power save setting will be displayed.



4 Select/Confirm Press the jog dial to select Power Save Settings.

The setting changes with each press.



Turn off power save

☐ ON

If no operation is performed for approximately 30 seconds during shooting (or approximately 10 seconds after the shutter button is pressed), the LCD screen will automatically turn off, and the power will automatically turn off after approximately 3 minutes.

☐ OFF

The power turns off automatically after 3 minutes during shooting and 5 minutes during playback if no operation is performed.

5 Press the Menu button twice.
The selected mode is set, and the menu disappears.

To cancel the operation midway

, press the Menu button.

! Caution

The power-saving feature does not work when the AC power adapter included with the ACC KIT-MD1 accessory kit is connected.

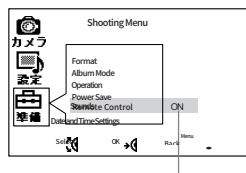
To stop using the wireless remote control

You can use the included wireless remote control to perform most operations, such as shooting, zooming, deleting images, fast-forwarding and rewinding playback, and navigating the menu. When you are not using the wireless remote control, set the remote control mode to "OFF".

Menu button

Function Switch

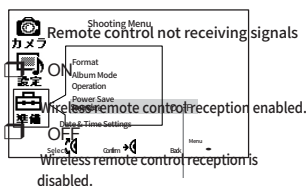
- 1 **Select/Confirm jog dial**
Set the Function Switch to "Camera" or "Playback/Audio," then press the Menu button. The Shooting Menu or Playback Menu will appear.
- 2 **Turn the Select/Enter jog dial to select "Setup,"** then press the Select/Enter jog dial. The cursor moves to the Setup menu.
- 3 **Move the cursor to "Remote Control."** The current remote control settings will be displayed.



Current Remote Control

Settings

- 4 **Select/Confirm** Press the jog dial to select Remote Control Settings. The setting changes with each press.



- 5 **Press the Menu button twice.** The unit will switch to the selected mode, and the menu will disappear.

For information on how to insert batteries into the wireless remote control, as well as the names and functions of each button, see "Parts" "Wireless Remote Control" (page 119).

To cancel an operation

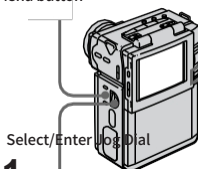
, press the Menu button.

Setting the Date and Time

If you set the clock, the date and time of the shot will be recorded automatically. When printing, you can choose whether to include the date and time in the print menu.

Follow these steps to set the clock.

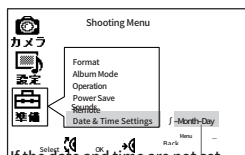
Menu button Function switch



- 1 Set the Function Switch to "Camera" or "Playback/Audio," then press the Menu button. The Shooting Menu or Playback Menu will appear.

- 2 Turn the Select/Enter Jog Dial to select "Setup," then press the Select/Enter Jog Dial. The cursor moves to the Setup menu.

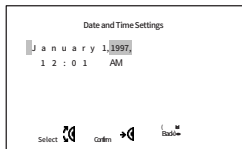
- 3 Move the cursor to "Date & Time Settings." The currently set date and time will be displayed.



If the date and time are not set,

"- - / - - -" is displayed.

- 4 Press the Select/OK jog dial. The date and time setting screen appears. The "Year" field is selected.



- 5 Select/OK Turn the jog dial to set the year, then press the Select/OK jog dial.

The "Month" item is selected.

- 6 As in Step 5, set the month, day, hour, and minute. Set the minutes, then press the Select/Enter jog dial to return to the screen in step 3 and the clock will start running.

To set the exact time setting the minutes, press the Select/Confirm jog dial when the time signal sounds

Select/Enter jog dial.

the Menu button.
The menu disappears.

To cancel the operation midway
Press the Menu button. Until then

Only the items set up to that point will be configured.

z To reset the clock
In step 5, press the Select/Enter jog dial to select the field to be adjusted.

z About the clock memory
The time is stored by the internal battery. Even when the battery is completely drained, the clock data will continue to be updated for approximately two months; however, we recommend that you keep the battery charged at all times. If the date and time settings are lost, please set the clock after charging the battery.

Setting the Date and Time When Using Music MiniDiscs
Select "Date & Time Settings" from the audio menu and follow the same procedure to set the clock

, the recording date and time will be recorded. **75**

Connectable Devices

You can exchange image data with other devices or input audio using this unit's AV output terminal, infrared data transmission/reception port, digital I/O terminal, and line input.

Using the infrared data transmitter/receiver (

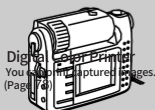
Section)

Digital still

Camera: Devices compatible with infrared data communication systems, such as the DSC-F3

(Page 85)

(Page 85)



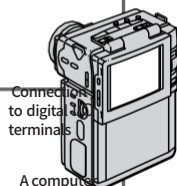
Digital Still Camera
You can import and edit images. (Page 81)



Digital Picture Album
Use this to edit images, etc. (Page 85)



This unit



Connected to digital I/O terminals

A computer
You can import and edit images. (Page 81)



Connecting to a line input

Audio equipment: Sends audio such as background music. (Page 77)



Connected to the AV output terminal

TV

Useful for viewing slide shows and other content. (Page 77)



Color Video Printer
You can print the images you have taken. (Page 81)

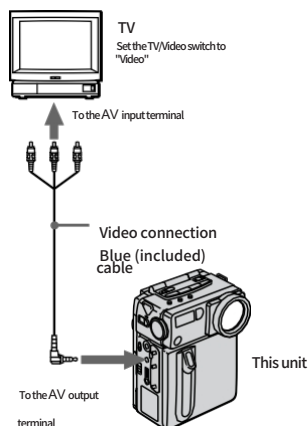


! Caution

- When connecting a cable, turn off the power to both this unit and the connected device. Before connecting the cable, then turn the power back on.
- When connecting this unit to other devices for extended use, use the AC power adapter included in the ACC KIT-MD1 accessory kit.

Viewing on a TV

You can connect to a TV with a video input. This is useful for viewing slideshows or adjusting the focus.



- 1 Connect the AV output terminal on this unit to the AV input terminal.

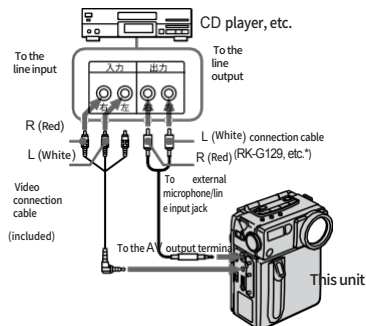
- 2 Set the TV's TV/Video switch to "Video".

- 3 Play the video on this unit.
The image will appear on the TV screen.

! Caution
This unit cannot be connected to a TV that has only an antenna input terminal and no video terminal.

Connecting Audio Equipment to the

You can connect devices such as CD players to send music to this unit. The included video connection cable and a separately sold audio cable are required.



* When connecting to the stereo mini jack of a portable CD player or similar device, use the RK-G136, etc.

- 1 Microphone Input / Line Input Switch
switch to "Line Input."

Connect this unit's external microphone audio/line input terminal and AV output terminal to a CD player or other audio source and other audio equipment.



- 2 Play audio on the audio device.

- ! Caution**
- When connecting, make sure to insert the plug firmly into the terminal. If not inserted firmly, it may cause noise.
 - Please use a connection cable

Shadow

the
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cor

Connect this unit's external microphone audio/line input terminal and AV output terminal to a CD player or other audio source and other audio equipment.

Use
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Printing

You can print images taken with this camera on a printer.

Depending on the type of printer you are using, there are two communication methods available. Please also refer to the instruction manual for your printer.

1 Digital color printers compatible with IrDA (infrared data communication)

(e.g., DPP-M55)

- m Performs infrared data communication. (Page 78)

2 Video printers with a video terminal (such as the CVP-M55)

- m Connect using a cable.

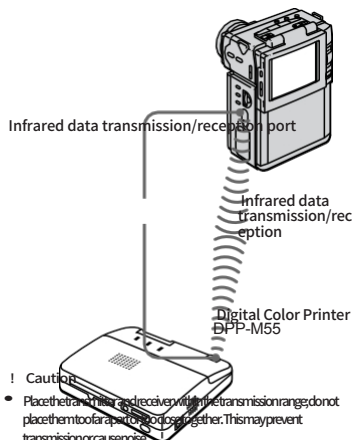
(Page 81)

1 How to use the infrared data transmission/reception unit (IrDA-compatible digital color printers, such as the DPP-M55)

You can easily print images taken with this camera using the DPP-M55 digital color printer (sold separately). Operations are performed via this camera's menu.

- 1 Turn on the printer and this unit, and position their infrared data transmission/reception units facing each other. (Place them approximately 10–30 cm apart, within a 15° angle range to the left and right of the center.)

This camera



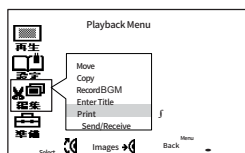
! Caution

- Place the transmitter and receiver within the transmission range, do not place them too far apart or too close together. This may prevent transmission or cause noise.
- Do not cover the transmitter or receiver with your hand or any object.
- Walls and opaque glasses do not allow infrared rays to pass through. Furthermore, transmission is also reduced when passing through glass or similar materials.

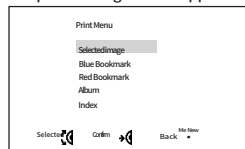
- 2** Set the function switch to "Playback/Audio" and press the Menu button. The Playback menu appears.

- 3** Turn the Select/Enter jog dial to select "Edit," then press the Select/Enter jog dial. The cursor moves to the Edit menu.

- 4** Move the cursor to "Print."



- 5** Press the Select/OK jog dial. The print settings screen appears.



- 6** Select/OK Turn the jog dial to select the image you want to print.

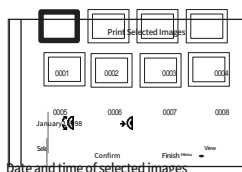
- ☐ Selected Image
Select an image from the current album to print.
- ☐ Blue Bookmark / Red Bookmark
Print images with bookmarks.
- ☐ Album
Select an album and print all images in the album.

- ☐ Index

Reduce all images in the current album to 1/16 of their original size and print 16 at a time.

If you select Index, the print execution screen will appear immediately. Proceed to step 9.

- 7** Press the Select/Enter jog dial. The image selection screen for the images selected in Step 4 appears.



Send Page

IE D, D ► Press the button to scroll through 8 images at a time, forward and backward.

- 8** Select/Confirm Turn the jog dial to select an image to print.

Turn the Jog Dial to select the image to print

, then press the Select/Confirm jog dial

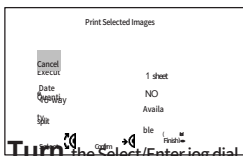
. You can select up to 16 images. The image number of the selected image is highlighted. Pressing it again allows you to use the preset.

! Note

Once you have selected 16 images, the print execution screen will appear automatically.

9 Press the Menu button.

The print execution screen appears.



10 Turn the Select/Enter jog dial to select the print option you want to set, then press the Select/Enter jog dial. You can now configure the selected item.

☐ Number of Copies

Turn the Select/Enter jog dial to set a number between 1 and 25.

☐ Date

Press the Select/Enter jog dial. If you want to print the date, select "Yes"; if not, select

"No".

☐ 16-way split

Press the Select/Enter jog dial to select "YES" for 16-split printing or "NO" if not.

11 Press the jog dial to select/confirm

The setting will take effect. To configure other items, repeat steps 10 and 11.

12 Select/Confirm Turn the jog dial

Turn the jog dial to select "Execute," then press the /Confirm jog dial.



Number of prints / Total number of images to be printed

When printing is complete, the screen will return to the screen shown in Step 4.

Print other images

Repeat steps 5 through 12.

Return to the normal playback screen

Press the Menu button three times.

To cancel the operation

Press the Menu button.

z Printing multiple copies at once

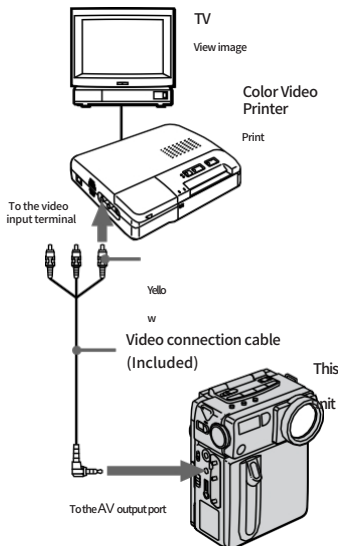
We recommend using the dedicated auto feeder. It automatically feeds the paper, saving you the trouble of inserting sheets one by one.

If the printer stops during printing, there may not be enough paper in the auto feeder. For details, please refer to the instruction manuals for the printer and auto feeder.

2. How to connect a cable to the video port (video printer, CVP-M55, etc.)

You can send images to a printer equipped with a video terminal for printing.

- 1 Connect the AV output terminal on this unit to the video input terminal on the printer.



- 2 Play the video on this unit.

The image will appear on the TV screen.

- 3 Import the image to the printer and print it.
For instructions on how to import and print images, refer to the printer's user manual.

Using with a computer

You can transfer image data to and from a computer using the optional PC connection kit DSKIT-PC4 (for Windows/Macintosh). There are two communication methods available, depending on the type of computer you are using.

- 1 PCs compatible with IrDA (infrared data communication) (IBM PC/AT and compatible models, some NEC PC-98 series)
m Uses infrared data communication. (Page 82)

- 2 Computers with an RS-232C port or modem port (IBM PC/AT and compatible models, NEC Photo F series, Macintosh Shadow m Use a cable connection. (Page 83)

(Page 83)

*PC Connection Kit

A dedicated connection cable for connecting this unit to a computer, and software for capturing images from this unit on a computer.

The unit comes with a dedicated connection cable for connecting it to a computer, as well as the Pic'n'Print application software for importing and processing images from the unit on a computer. Use vice-

! Caution

PC Connection Kit for DSC-F1/F2
The DSKIT-PC1W/2W/3W/1M/3M cannot be used with this camera. Please use the DSKIT-PC4 (for Windows/Macintosh).

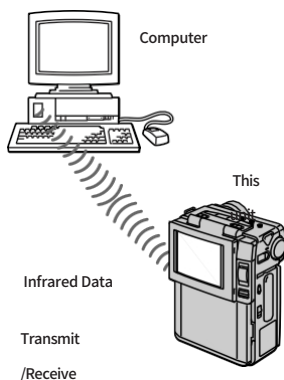
1. Using the Infrared Data

Transmission/Reception Port (IBM PC/AT and compatible models, some NEC PC-98 series)

- 1** Install the software on your computer. Install the Pic 'n' Roll application software and the infrared driver.

When using an infrared communication adapter, (such as the DSKIT-IR2W) to your computer, install the included driver as well. For details, refer to the user manual for Pic 'n' Roll or the infrared communication adapter.

- 2** Position the unit so that its infrared transmitter/receiver faces the infrared transmitter/receiver on the computer or infrared adapter. (Approx. 10–30 cm, within a 15° angle to the left or right of the center).



! Caution

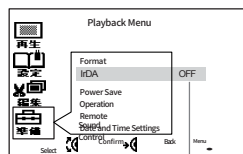
- Place the transmitter and receiver within the transmission range; do not place them too far apart or too close together. Doing so may prevent transmission or cause noise.
- Do not cover the transmitter or receiver with your hand or any other object.
- Walls and opaque glass do not allow infrared rays to pass through. Furthermore, transmission distance is reduced when passing through glass or similar materials.

- 3** Turn on the power to this unit, set the function switch to "Playback/Audio," and press the Menu button.

The playback menu will appear.

- 4** Turn the Select/Enter jog dial to select "Setup," then press the Select/Enter jog dial. The cursor moves to the Setup menu.

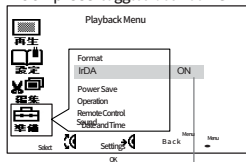
- 5** Move the cursor to "IrDA". The current IrDA (infrared communication) settings are displayed.



Current IrDA settings

- ☐ ON
Exchange data via IrDA (infrared communication).
- ☐ OFF
Exchange data via the digital I/O terminal and cable connection.

- 6** Select/Confirm Press the jog dial to select "ON".
Each press toggles between ON and OFF.



Enables IrDA communication

- 7** Press the Menu button twice. IrDA mode is set to "ON," and infrared data transmission and reception become available. The menu disappears.

To cancel the operation

Press the Menu button.

- 8** Use the application software installed in Step 1 to import and process image data from this device.

For instructions on how to operate the computer, see

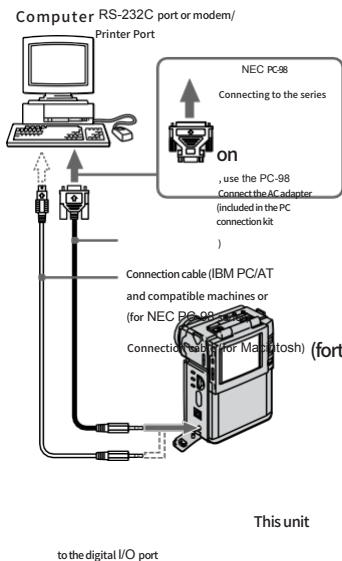
or the
Pic 'n' Roll

! Caution

- You cannot operate this unit while using a PC.
- If you use Pic 'n' Roll to add or delete images on your computer, the information displayed may differ from the contents of the MD data disc. If you intend to continue using this unit after communication has ended, please turn the power back on.

Connecting a cable to the PC 2 Digital I/O port (IBM PC/AT and compatible machines, NEC PC-98 series, Macintosh)

- 1 Install the software on your computer. Install the Pic 'n' Roll application software. For details, refer to the Pic 'n' Roll instruction manual.
- 2 Using the connection cable included in the PC connection kit, connect the unit's digital I/O port to the PC's RS-232C port or modem port.



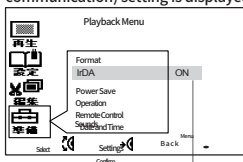
- 3** Turn on the unit, set the function switch to "Playback/Audio," and press the Menu button.

The playback menu appears.

- 4** Turn the Select/Enter jog dial to select "Setup," then press the Select/Enter jog dial. The cursor moves to the Setup menu.

- 5** Move the cursor to "IrDA".

The current IrDA (infrared communication) setting is displayed.



Current IrDA Settings

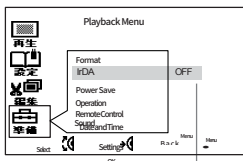
- ☐ ON

Exchange data via IrDA (infrared communication).

- ☐ OFF

Data is exchanged via the digital I/O terminal and a cable connection.

- 6** Selection/Confirmation Press the jog dial to select "OFF". Each press toggles between ON and OFF.



Communication via cable
Enables communication via cable connection

- 7** Press the Menu button twice. IrDA mode is set to "OFF," and you can connect a cable to the digital I/O terminal to exchange data. The menu disappears.

- 8** Use the application software installed in Step 1 to import and process image data from this unit.

For instructions on how to operate the software on your computer, refer to the user manual for your computer and Pic 'n' Roll or the application software you are using.

! Caution

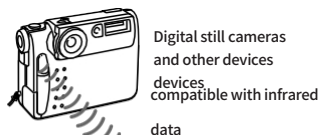
- You cannot operate this unit while using a computer.
- If you use Pic 'n' Roll to add or delete images on your computer, the information displayed may differ from the contents of the MD data disc. If you intend to continue using this unit after communication has ended, please turn the power back on.

Use with infrared data communication-compatible devices (Image Transfer)

You can send and receive images using the infrared data communication function between this unit and other digital still cameras, or between this unit and the Digital Picture Album DPA-1 (sold separately). You can send and receive images individually or by album.

- 1 Place this unit and the device you wish to transfer data to so that their infrared transmitters/receivers face each other. (Place them within a range of approximately 10–30 cm, with a left-right angle

15° from the center.)



Digital still cameras and other devices compatible with infrared data

Infrared data

transmission and

reception

n



This unit

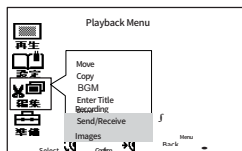
! Caution

- Place the transmitter and receiver within the transmission range; do not place them too far apart or too close together. Doing so may prevent transmission or cause noise.
- Do not cover the transmitter or receiver with your hand or any object.
- Walls and opaque glass do not allow infrared rays to pass through. Furthermore, transmission distance is reduced when passing through glass or similar materials.

- 2 Turn on the power to this unit, set the function switch to "Playback/Audio," and press the Menu button.

The playback menu will appear.

- 3 Turn the Select/Enter jog dial to select "Edit," then press the Select/Enter jog dial. The cursor will move to the Edit menu.



- 4 Move the cursor to "Image Transfer" and press the Select/Confirm jog dial.

The Image Transfer Settings screen appears.



- 5 Select/Confirm Turn the jog dial to select the image to send or receive.

- ☐ Select and send image

Select an image from the album and send Trust.

- ☐ Send blue bookmark / Red bookmark
Send
Send images with blue or red bookmarks.

Cap
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images

Image

to

device

with

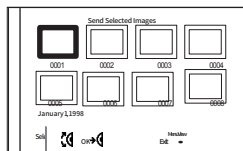
unit

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e

- ☐ Send Album
Select an album to send all images in the album.
- ☐ Receive
Receive images from other devices.

6 Select/OK Press the jog dial. The selection screen for the image chosen in Step 5 appears.



The date and time of the selected image are displayed.

Turn Page

Pressing the **IE D** or **D I** button allows you to scroll through images in sets of eight.

If you select "Receive," the image send/receive screen will appear immediately. Proceed to Step 8.

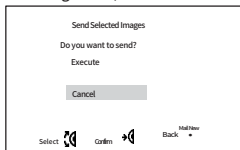
7 Turn the Select/Enter jog dial to select the image to send or receive, and press the Select/Enter jog dial. You can select up to 16 images. The image numbers of the selected images will be highlighted. Pressing the button again cancels the transmission/reception selection.

! Caution

Once you have selected 16 images, the image send/receive execution screen will automatically appear.

8 Press the Menu button.

The image send/receive screen will appear.



9 Prepare the destination device.

When receiving on this unit

Set the sending device to the transmission standby state.

When transmitting from this unit

Set the receiving device to the receive-ready state.

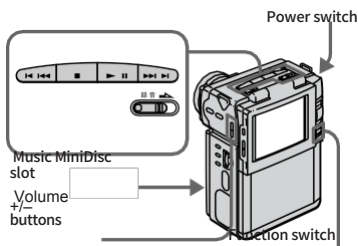
For details, refer to the instruction manual for the transmitting and receiving devices.

10 Turn the Select/Enter jog dial to select "Execute," then press the Select/Confirm jog dial. When receiving, the sender must begin transmission within 30 seconds.

Image transmission will begin.

Play

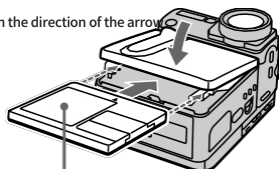
You can play music MiniDiscs. When you insert a music MiniDisc, the operation screen will appear automatically.



- 1 Set the function switch to "Reset"
Set to "Live/Audio".

- 2 Insert a music MiniDisc.

In the direction of the arrow

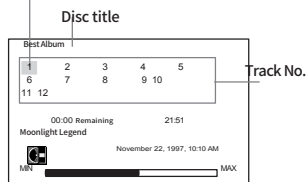


Place the disc with the label side facing up

- 3 Turn on the power switch.
The music MiniDisc operation screen will appear.

Currently selected track

(Cursor)

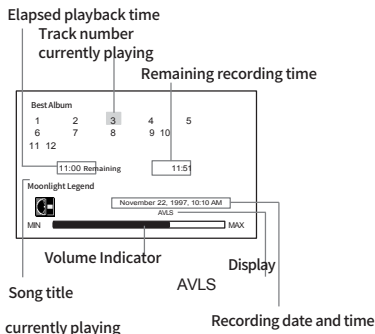


- 4 Use the ► button to select the track you want to play, then press the ► button. Alternatively, turn the Select/Enter jog dial to select a track, then press the Select/Enter jog dial.

Playback of the selected track will begin.

The LCD screen turns off after 3 seconds

(power-saving function).



In this situation	Button to Press
Pause/Resume Play	► Button
Resume	► Button

Play the next track D ►I button
(Press lightly)

Play the previous track IE D button
(Light press)

Fast-forward D ►I button
(Press and hold)

Rewind IE D button
(Press and hold)

Stop playback □ button

Volume Up Volume Up button

Lower volume Volume Down button

LCD screen Button Check Screen Display

Adjust the LCD screen LCD Brightness

Adjust +/- buttons

Sound

Press firmly

For

MI

N

D

S

S

K

Listen

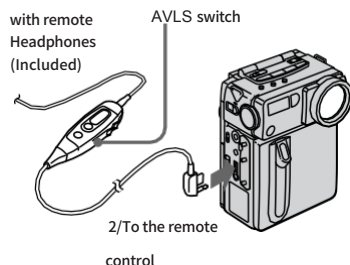
Re

SS

Can also be operated with the

remote control

Connect the included remote-controlled headphones to the 2/Remote Control Jack.



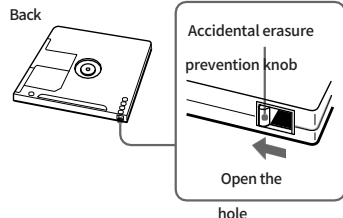
You can control volume, playback, rewind, fast-forward, and stop just as you would on the main unit.

Prevents sound leakage (AVLS – Volume Limit)

When the AVLS switch on the remote control is set to "On," if you try to raise the volume above a certain level, "AVLS" will appear on the screen, and the volume will not increase any further. When using headphones, this reduces the risk of sound leakage due to excessive volume, pressure on the ears, and the inability to hear surrounding sounds, allowing you to listen at a more comfortable volume.

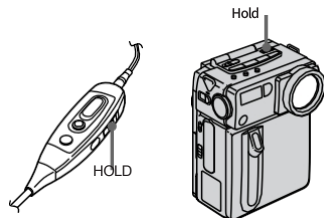
z To prevent accidental deletion of recordings, slide the accidental deletion prevention knob so that the hole is open. Return the knob to its original position when recording.

Music MiniDisc



Prevents accidental operation (Hold function)

Prevents buttons from being pressed accidentally when the device is in a bag.



Slide the HOLD switch (HOLD on the remote control) toward the c direction. When the HOLD switch on the main unit is engaged, the main unit's control buttons will not function; when the HOLD switch on the remote control is engaged, the remote control's control buttons will not function. Slide it in the opposite direction to cancel the hold.

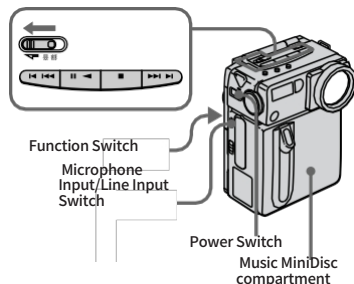
z Power Save/Auto Power Off Function To conserve battery life, the LCD screen turns off 5 seconds after a button is pressed. Additionally, if no operation is performed after stopping playback, recording, etc., the power will automatically turn off after approximately 5 minutes (Auto Power Off). When the power is off, turn on the power switch to resume operation. The Power Save/Auto Power Off function does not work when the AC power adapter included in the ACC KIT-MD1 accessory kit is connected.

! Caution

- You cannot turn off the operation sounds while operating a music MiniDisc.
- Music MiniDiscs without a disc title will be displayed on the screen as "Audio MD".

Recording

You can record music from a CD or other source onto a music MiniDisc.

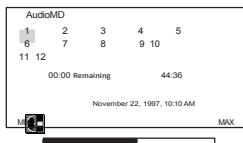


- 1 Set the microphone/line input switch to "Line Input," and connect the external microphone/line input terminal to an audio source such as a CD player.
For connection instructions, see "Connecting Audio Equipment" (page 77).

- 2 Set the function switch to "Playback/Audio".

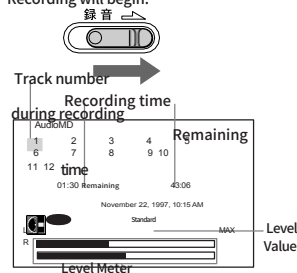
- 3 Insert a music MiniDisc.

- 4 Turn on the power switch.
The music MiniDisc operation screen will be displayed.



- 5 Slide the record switch to start recording, then start playback on your audio device.

Recording will begin.



Adjusting the recording level

You can adjust the level using the E D and D ▶ I buttons while monitoring the level value and level meter.

To increase the level, press the IE D button. To decrease the level, press the D ▶ I button.

- 6 Press the ☐ button to stop recording to stop recording.

The recording is saved at the end of the music MiniDisc and is automatically assigned a track number.

! Caution

- Protected music MiniDiscs
- If you pause during playback, the track number will increase

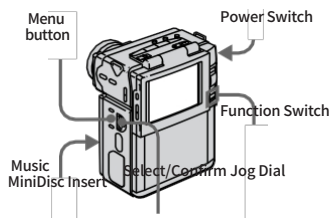
So
More

!
DC
If

Listen
Listen

Listen repeatedly

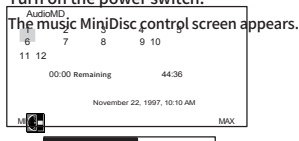
There are three ways to repeat music on a MiniDisc: repeat all tracks, repeat a single track, and shuffle repeat.



1 Set the function switch to "Play/Audio".

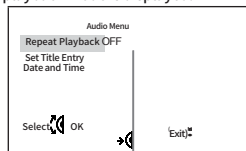
2 Insert a music MiniDisc.

3 Turn on the power switch.



4 Press the Menu button.

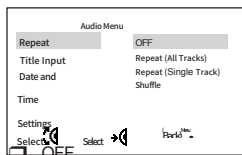
The audio menu appears. The current playback mode is displayed.



Current Repeat Playback Mode

5 Turn the Select/Enter jog dial to select "Repeat Playback," then press the Select/Enter jog dial.

The playback mode settings screen appears.



Play one track once (normal playback).

☐ Repeat (All Tracks)

Repeats all tracks.

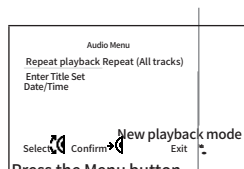
☐ Repeat (1 track)

Repeats the current track.

☐ Shuffle

Plays all tracks in random order.

6 Select/Enter Turn the jog dial to select a playback mode, then press the Select/Enter jog dial. The selected playback mode is set, and the unit returns to the audio menu.



7 Press the Menu button.

The audio menu will disappear.

To cancel the operation

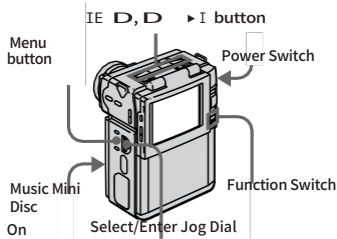
Press the Menu button.

! Caution

If you set the repeat playback in the audio menu while a music MiniDisc is playing, playback of the current track will stop and the set mode (such as shuffle) will begin. Press the play button to resume playback.

Assigning a title

You can assign a title to a track or disc



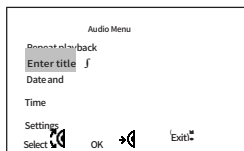
1 Set the function switch to "Play/Audio".

2 Insert a music MiniDisc.

3 Turn on the power switch.
The music MiniDisc operation screen appears.

4 Press the Menu button.

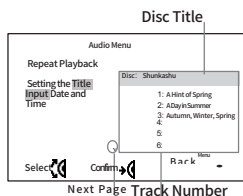
The audio menu will appear.



5 Select/OK Turn the jog dial to display "Enter Title"

Select, then press the Select/Enter jog dial.

The disc title and track list will appear.

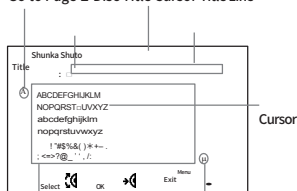


6 Turn the Select/Enter jog dial to select "Disc" to assign a disc title, or select a track number to assign a track title, then press the Select/Enter jog dial

First page of the title entry screen

is displayed.

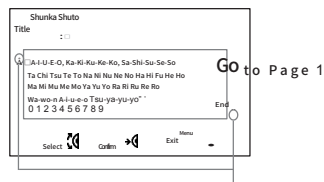
Go to Page 2 Disc Title Cursor Title Line



Characters and symbols that

can be entered

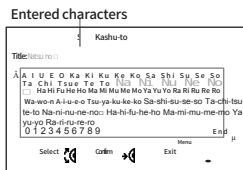
Go to page



To switch pages

Turn the Select/Enter jog dial up or down continuously to switch pages.

- 7** Turn the Select/Enter jog dial to select the character or symbol you want to enter, then press the Select/Enter jog dial. The selected character or symbol will be entered into the title line.

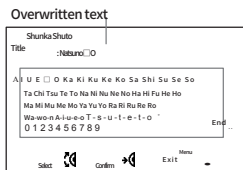


- 8** Repeat step 7 to enter the title.

You can enter up to 200 characters.

To correct text

Use the D ► I, IE D buttons to move the cursor to the character you want to correct, and re-enter the character. The character will be overwritten.



- 9** Press the Menu button.

The title is saved, and you return to the title entry screen in step 5.

To name another track or disc

Repeat steps 6 through 9.

Return to the Music MiniDisc operation screen

Press the Menu button twice.

To cancel the operation

Press the Menu button.

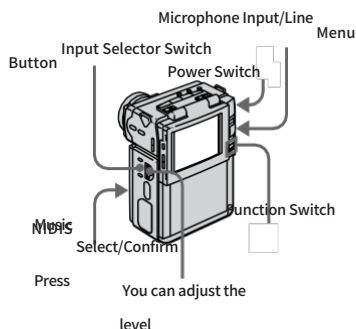
! Caution

You cannot record titles on protected music MiniDiscs.

Long-duration recording

(Mono Recording)

When recording with the built-in microphone or a monaural external microphone, the recording will be in mono, allowing you to record for twice as long as usual. However, the sense of realism in the sound will be lost

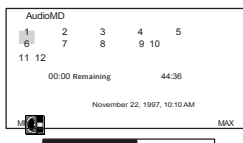


- 1 Set the microphone/line input selector switch to "Microphone Input." If using an external microphone, connect it to the unit's external microphone/line input jack.



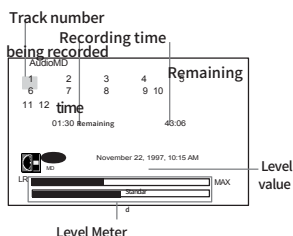
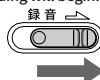
- 2 Set the function switch to "Playback/Audio".
- 3 Insert a music MiniDisc.
- 4 Turn on the power switch.

The music MiniDisc operation screen will be displayed.



- 5 Slide the recording switch to start recording, then start playback on the audio device.

Recording will begin.



Adjust recording level

View the level value and level meter, press the E, D, and D ►I buttons to adjust the level.

To increase the level, press the IE D button.
To decrease the level, press the D ►I button.

- 6 Press the button to stop recording

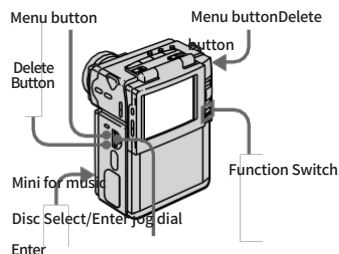
This is recorded at the end of the music MiniDisc and is automatically assigned a track number.

Note

- ! Caution
- When a stereo microphone is connected, stereo recording.
- When recording onto a protected music MiniDisc
- If you pause during playback, the track number will increase.

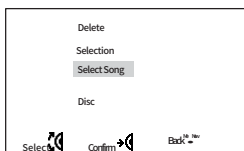
Delete Tracks ()

You can delete songs you no longer need. You can delete individual songs or all songs on the disc at once.



- 1 Set the function switch to "Play/Audio".
- 2 Insert a music MiniDisc.
- 3 Turn on the power switch.
The music MiniDisc control screen will appear.
- 4 Press the Delete button while playback is in progress or paused.

The delete selection screen appears.



- 5 Select/Enter Turn the jog dial to select a track; to delete the entire disc, select "Disc," then press the Select/Enter jog dial.

If you select "Select Tracks"

The track selection screen will appear.



If you select "Disc"

A confirmation screen for deletion will appear.

Proceed to step 8.

- 6 Select/Enter Turn the jog dial to select the track you want to delete, then press the Select/Enter jog dial

Press the [New] button.

The selected track number will be highlighted.

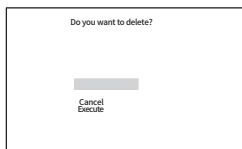
You can select up to 16 songs.

Play a song to check it

Select the song you want to check, then press the ► button. The selected song will play. To stop playback, press the □ button.

- 7 Press the Menu button.

A confirmation screen will appear.



- 8 Turn the Select/Enter jog dial to select "Execute," then press the Select/Enter jog dial. The selected track will be deleted, and you will return to the Music MiniDisc operation screen.

! Caution

- You cannot delete tracks from protected Music MiniDiscs.
- Once deleted, tracks cannot be restored. Please check the contents before deleting.

Selecting a menu

This unit uses menus to configure various settings.

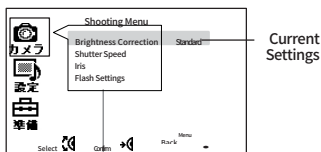
Displaying the menu

Set the function switch to "Camera"

or set to "Playback/Audio" and press the Menu button.

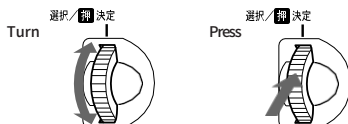


Switch Position	Display Menu
Camera	Camera
Playback/ Audio	Playback Menu (When using an MD data disc) Audio Menu (When using a music MiniDisc)

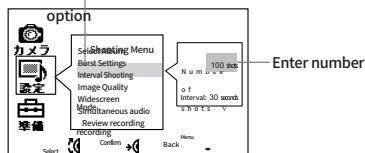


The menu for the item selected on the left (the item with the cursor) is displayed. Pressing the Select/Enter jog dial moves the cursor to the top.

How to configure settings using the Select/Confirm jog dial



Selecting an option



Selecting an item

Turn up Move cursor up

Scroll down Move the cursor down

Enter a number

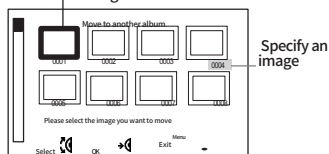
Turn up The number increases

Turn down Decrease the number

Switch settings

Press The setting changes with each press

Select an image



Moving the cursor on the screen

Turn up Move left

Turn down Move to the right

Select image

Rotate up Move to the image with the lower number

Scroll down Move to the image with the higher number

Select or confirm

Select/Confirm Press the jog dial (When a setting is selected, pressing it again deselects it.)

Menu

Menu

2

te

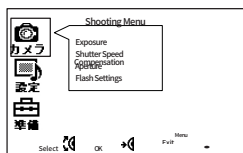
Menu List

This camera's menus include the Shooting Menu, Playback Menu, and Audio Menu. The structure and functions of each menu are explained below.

Shooting Menu

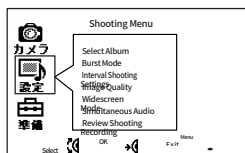
This consists of three menus for setting shooting conditions and modes.

Camera Menu



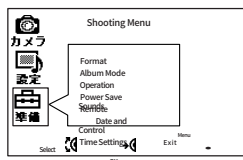
Brightness Correction	Adjusts brightness. m35 page
Shutter Speed	Select a shutter speed m36 page
Iris	Select an aperture suitable for the shooting conditions. Page m37
Flash Settings	Adjust the flash intensity . Page m38

Settings Menu



Select Album	Select the album Select the album m64 pages
Burst Settings	Continuous Shooting • Time Machine . Page m65
Interval Shooting interval	Set the number of shots and interval . Page m66
Image Quality Mode	Select the compression rate for image quality during shooting. Page m67
Wide Screen	You can shoot so that the image appears in a horizontal format (widescreen) during playback. Page m68
Simultaneous audio recording simultaneously	Audio is recorded simultaneously . Page m33
Review Filming	To composite the images , multiple images are captured. m40 page

Setup Menu

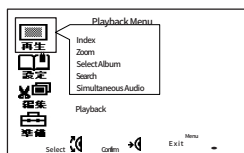


Format	Initialize the MD data disc for this camera. Page m107
Album Mode	Select the method for recording images and audio onto a single MD data disc. Page m71
Operation Sounds	Turns off the operation sounds of the unit's buttons. Page 72
Power Save	Power Save . Page 73
Remote	Use the included wireless remote Set whether to use the included wireless remote . Page m74
Date and Time Settings	Date to be recorded when taking a photo Set the time. Page m75

Playback Menu

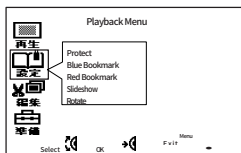
Consists of four menus for configuring playback methods, image processing, and sending/receiving.

Playback Menu



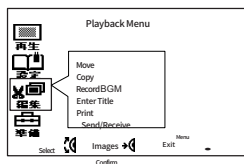
Index	Play the captured images at a time. m42 page
Enlarge	Displays 1/4 of the image enlarged approximately 4 times . Page m47
Select Album	Select the album to play . Page m64
Search	Search for images by date and time taken, bookmarks, or protection settings . m43 page
Simultaneous audio playback	Set whether to play back the audio . Page 48

Settings Menu



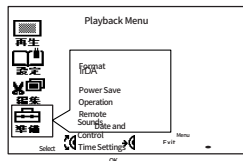
Protect	Set the accidental deletion protection to prevent important images from being accidentally deleted. Page 58
Blue Bookmark	Add a blue bookmark to use as a reference for classifying and searching for images. Page 57
Red Bookmark	Add a red bookmark to help with image classification and searching. Page m57
Slideshow	Slideshow Playback Set playback options (repeat playback, interval between image changes, audio selection). Page m69
Rotation	Rotate the image 90 degrees to the left or right during playback. Page m46

Edit Menu



Move	Move images within the album or to another album. Page m49
Copy	Copy images within the album, to another album, or to another disc. Page 51
Recording background music	Record background music to play during a slideshow . Page m60
Entering a title	Images, Albums, disks. Page 55
Print	Transfer selected images to the DPP-M55 digital color printer and print them. Page 78
Sending and receiving images	Send and receive images with IrDA-compatible devices. Page m85

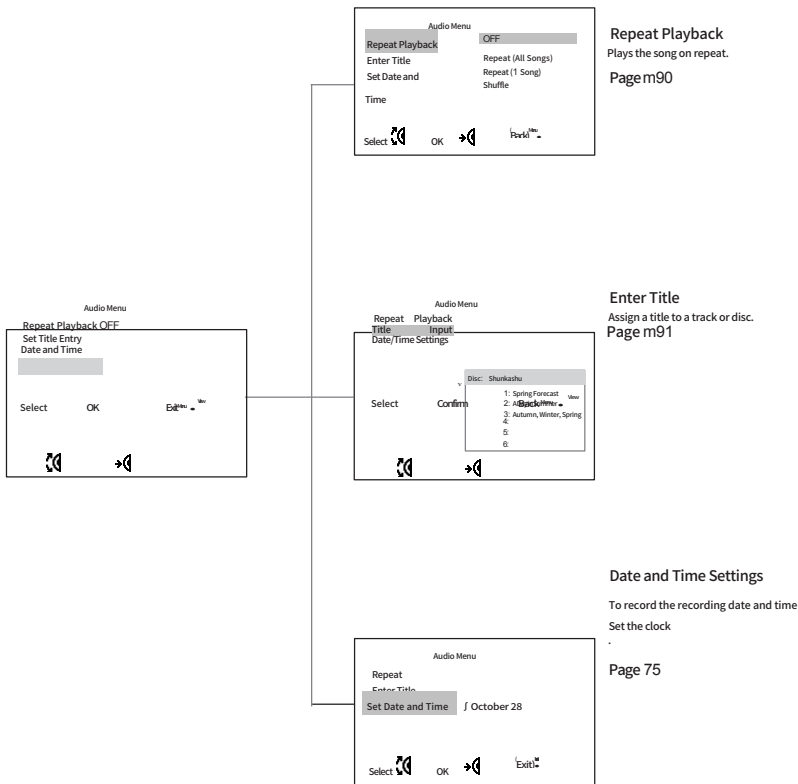
Setup Menu



Formatting	MD Data Disc and initialize it . Page m107
IrDA	Set whether to use the IrDA transceiver for infrared communication with a PC or the I/O port for a cable connection . Page 82
Power Save consumption	Set the power-saving function to reduce consumption . Page 72 . Page 73
Operation Sounds	Turns off the operation sounds of the buttons on this unit. Page 72
Remote Control	Set whether to use the included wireless remote control . Page m74
Date and Time Settings	Set the date and time to be recorded when taking a picture. Page m75

Audio Menu

Configure settings for playing and recording music on MiniDiscs.

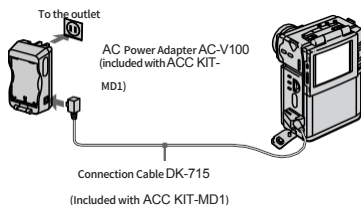


Using a power source other than the battery

When playing music on a MiniDisc or using the unit in combination with other devices, if you plan to use it for a long time, use a household outlet or a car power source so you don't have to worry about the battery running out.

Using the unit with a power outlet

Use the AC power adapter AC-V100 included with the optional accessory kit ACC KIT-MD1.



! Caution

- Do not pull on the connection cable. Doing so may cause the plug to come out of the outlet. When using the unit connected to an outlet, we recommend using a commercially available extension cord.
- If the connection cable is connected to this unit, the battery cannot be used as a power source even if it is inserted.

zCharging with the AC Power Adapter

In addition to charging the unit internally, you can also attach the battery to the AC power adapter included in the ACC KIT-MD1 accessory kit to charge it. For details, please refer to the ACC

KIT-MD1.

zCharging two batteries simultaneously

You can charge two batteries simultaneously by attaching them to both the unit and the AC power adapter. When doing so, the AC power adapter's charging indicator will light up. When charging is complete, both indicators will turn off (fully charged). If either indicator is still lit, both batteries have not yet been fully charged.

Charge 2 batteries at once (when using NP-

100) Full charge: Approx. 260 minutes

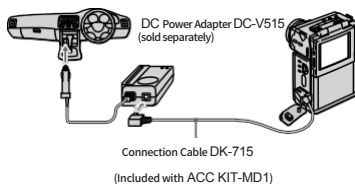
Practical charging time: Approx. 140 minutes

(at 10°C to 30°C)

Connect to the vehicle's power

source

To the cigarette lighter socket



Tips for Optimal Battery Use

Charging

You can charge the battery at any time. You do not need to discharge the battery or use it up completely before charging.

Please charge before use

Even if you store the battery without using it after charging, it will naturally discharge, so we recommend charging it before use.

Regarding operating time

It is a good idea to have enough batteries to cover two to three times the expected shooting time.

Battery life is shorter in cold climates.

This is because battery performance decreases at low temperatures (10°C or below). To extend battery life, we recommend the following:

- Keep the battery warm in a pocket or similar place, and attach it to the camera just before shooting. If using a hand warmer, be careful not to let it touch the battery directly.
- Charge the battery at room temperature (10°C to 30°C) with it attached to the camera and the AC power adapter connected. The lower the ambient temperature, the longer it takes to charge.

When charging for the first time or after a long period of non-use, the battery life may be shorter than normal even after charging. It will return to normal after several cycles of discharging and recharging.

Precautions regarding battery replacement

When replacing the battery pack, be sure to check that the power is turned off before proceeding. In particular, data may be lost if the unit is operating in MiniDisc mode.

Storage

Store the battery pack in a cool place.

If you will not be using the unit for an extended period, remove the battery pack and store it in a cool place.

Care

Keep the terminals clean at all times.

If foreign matter gets into the terminals, remove it completely with a soft stick with a fine tip, then attach and detach the battery several times. This will improve the contact at the terminals.

Important Battery Information

What is the battery life?

When used at room temperature, the battery can be recharged and reused more than 300 times. If the operating time is reduced to about half of normal even after proper charging, please purchase a new battery.

To Use "InfoLITHIUM" Batteries

What is an "InfoLITHIUM*" battery?
. This unit is compatible with "InfoLITHIUM" batteries. "InfoLITHIUM" batteries are marked with the  InfoLITHIUM logo.

* InfoLITHIUM is a trademark of Sony

Corporation.

How the remaining battery level is calculated

Power consumption during camera use varies depending on usage conditions (such as whether the LCD screen is in use, how the autofocus operates, or whether power-saving mode is active). In other words, battery consumption differs depending on usage conditions.

The "InfoLITHIUM" battery monitors the camera's usage, measures power consumption, and calculates the remaining battery level. Therefore, depending on changes in usage, the remaining battery level may decrease or increase by more than two units at a time.

To obtain a more accurate battery level

Turn on the power, set the function switch to "Camera," and keep the camera pointed at a stationary subject for at least 30 seconds. Do not move the camera during this time.

Reasons for discrepancies between the continuous shooting time listed in the manual and the remaining battery level display

Shooting time varies depending on ambient temperature and other environmental factors; shooting time is particularly short when used in low temperatures.

The continuous shooting time listed in the instruction manual is based on a fully charged ^{*1}(or practically charged ^{*2}) battery used in an environment of 20°C. In actual use, because ambient temperature and environmental conditions differ, the remaining time will differ from the continuous shooting time listed in the instruction manual.

Battery Life Notification

Batteries have a limited lifespan. The length of this lifespan depends on frequency of use. The InfoLithium battery will notify you of its end of life by displaying the message "This battery is old. Please replace it" on the camera's LCD screen. When this message appears, please replace the battery with a new one.

! Caution

Even when the remaining time is displayed as 5 to 10 minutes, the message  " may flash on the LCD screen depending on the usage environment.

^{*1} Fully charged: The state after charging continuously for approximately 1 hour after the AC power adapter's charging indicator and the unit's power/charging indicator have turned off

^{*2} Practical charge: Status after charging until the AC power adapter's charging indicator and the unit's power/charging indicator turn off

Precautions for Use

Do not disassemble

The laser used in the MiniDisc recorder is dangerous if it comes into contact with your eyes.

Do not touch the lens of the MiniDisc recorder

If the lens becomes dirty, skipping may occur or playback may become impossible.

Also, to prevent dust from accumulating, be sure to keep the cover closed except when inserting or removing discs.

About the AC Power Adapter

Please use the AC power adapter included in the separately sold accessory kit ACC KIT-MD1 with this unit. Using an AC power adapter other than the one specified above may cause malfunction.

Also, do not connect the AC power adapter to an "electronic transformer" or similar device intended for international travel. Doing so may cause overheating or malfunction.

Placement

Do not place the unit in the following locations:

- Places exposed to direct sunlight or near heating appliances.
- Inside a car with the windows closed (especially in summer).
- Places with high humidity, such as bathrooms.
- Dusty areas.
- Near magnetic objects such as magnets, speaker cabinets, or televisions.

- Near TVs, AM radios, or tuners. This may cause interference with TV, radio, or tuner reception.

About Condensation

Condensation occurs when water droplets form on the inside or outside of the unit, for example, when the unit is suddenly moved from a cold place to a warm place. Using the unit in this condition may cause it to malfunction. If condensation occurs, remove the battery, open the MiniDisc cover, and leave the unit until the condensation disappears (about 1 hour).

Condensation is likely to occur when moving the unit to a location with a significant temperature difference or when using it in a humid environment.

- When bringing the unit from a ski slope into a heated area
- When taking the unit from an air-conditioned room or car to a hot outdoor environment
- After a squall or summer thunderstorm
- Hot and humid locations, such as hot springs

To minimize condensation, place the unit in a plastic bag, ensuring no air is trapped inside, and seal it tightly before taking it to a location with a significant temperature difference. Leave it for about one hour to acclimate to the destination's temperature before removing it.

Regarding Temperature Rise

The unit may become warm if used for an extended period, but this is not a malfunction.

Regarding Operating Noise

This unit is designed for energy-efficient operation. Therefore, intermittent operational noises may occur during use; this is not a malfunction.

About the LCD Screen

- Do not press hard on the LCD screen. Doing so may cause uneven display or damage the LCD panel.
- When used in cold environments, images may appear to have a trailing effect, but this is not a malfunction.
- There may be bright spots (red, blue, green, etc.) on the screen, but this is not a malfunction.
- The area around the LCD screen may become hot during use, but this is not a malfunction.

When not in use

When transporting the device or when not in use, to prevent malfunctions, turn off the power switch, set the battery release/lock switch to "Lock," and align the hold switch with the direction of the arrow.

Care and Maintenance

Cleaning the LCD screen

If the LCD screen becomes dirty with fingerprints or dust, we recommend cleaning it with the included cleaning cloth or a separately sold LCD cleaning kit.

Caring for the Surface

Gently wipe the surface with a soft cloth slightly dampened with water or lukewarm water, then wipe it dry.
Avoid using thinners, benzene, or alcohol.

Do not use items such as nails, as they may scratch the surface.

- Caring for the remote control plug
 - A dirty remote control plug can cause noise or skipping. To ensure you always enjoy good sound quality, clean the plug at the tip of the remote control.

In the unlikely event of a malfunction, do not open the unit; instead, consult the store where you purchased it or a Sony service center.

When Using Abroad

This unit can be used overseas. The AC power adapter AC-V100, included in the separately sold accessory kit ACC KIT-MD1, can be used with a wide range of power sources from 100 to 240 V, 50/60 Hz. However, in countries where the shape of the power outlet differs, please consult your travel agency in advance to obtain a power plug adapter suitable for the local outlet. To view playback images on a TV, the TV must use the same color television system (NTSC) as Japan, be equipped with a video input terminal, and require a connection cable.

Types of Electrical Outlets Abroad

Examples of Wall Outlet Shapes	 Mainly North and South America etc.	 Mainly in Europe, etc.
Adapters required	Not required. Plug the AC power adapter directly into the outlet.	

Countries that use the same color TV system as Japan (NTSC) (in alphabetical order)

- United States
 - Ecuador
 - El Salvador
 - Canada
 - Cuba
 - Guatemala
 - Guam
 - Costa Rica
 - Colombia
 - Suriname
 - Saint Lucia
 - South Korea
 - Taiwan
 - Chile
 - Dominica
 - Trinidad and Tobago
 - Nicaragua
 - Haiti
 - Panama
 - Bermuda
 - Barbados
 - Philippines
 - Puerto Rico
 - Venezuela
 - Peru
 - American Samoa
 - Bolivia
 - Honduras
 - Micronesia
 - Myanmar
 - Mexico
- (According to the NHK
Bunkyo Monthly
Report)

Other
s



What is a MiniDisc?

A MiniDisc (MD) is a digital media format consisting of a 64mm-diameter disc housed in a cartridge. Although it is about half the size of a compact disc (CD), it offers nearly the same recording time. In terms of sound quality, ATRAC (Adaptive TRansform Acoustic Coding), it achieves high sound quality that rivals that of a CD.

, because it is housed in a cartridge, it is resistant to fingerprints and scratches, making it easy to handle.

Types of MiniDiscs

Generally, the term "MiniDisc" refers to two types: MiniDiscs (MDs) for enjoying music and MD data discs for handling computer data and other information. This unit uses recordable MD data discs for recording images.

□ MD Data Disc



These are discs designed for digital data, such as computer data. There are two types:

- **Recordable MD Data Discs**
These are discs for recording and playing back data.
- **Play-Only MD Data Discs** These are discs designed exclusively for playing back data, such as CD-ROM software.

These are discs for audio. Some are for playback only, while others allow recording.

- **Play-only MiniDisc**

Commercially available compact discs (CD) software.

- **Recordable MiniDisc**

These are so-called "blank discs" that can also be used for recording.

"MD DATA" and "Picture MD" are registered trademarks of Sony Corporation.

About Recording on MiniDiscs

Under copyright law, recordings you make may not be used without the rights holder's permission, except for personal enjoyment. Please note that the price of this product includes a private copying levy as required by copyright law.

Contact Information:

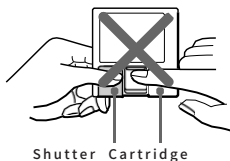
Private Recording Compensation Management Association
Tel. 03-5353-0336

Handling MiniDiscs

The MiniDisc itself is housed in a cartridge, allowing for easy handling without worrying about dust or fingerprints. However, dirt or warping of the cartridge can cause malfunctions. To ensure you can enjoy beautiful sound for years to come, please observe the following precautions.

Do not touch the MiniDisc directly

Do not open the shutter with your hands. Forcing it open may cause damage.



Storage Location

Do not place the unit in high-temperature or high-humidity areas, such as those exposed to direct sunlight. Also, do not leave it in places where sand could get into the disc, such as on a sandy beach.

Clean regularly

Wipe off any dust or dirt on the surface of the cartridge with a dry cloth.

If the charging terminals are dirty,

with a dry cloth.

If a disc error occurs

If the device malfunctions or frequently displays the error message "Disk error," formatting the MiniDisc may resolve the issue.

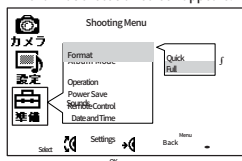
! Caution

Formatting will delete all recorded images, and they cannot be recovered. **1** Set the function switch to

"Camera" or "Playback/Operation", and press the Menu button.

2 Move the cursor to "Ready" and press the Select/OK jog dial. **3** Move the cursor to "Format" and press the Select/OK jog dial button.

The format execution screen appears.



4 Select "Full" (Full Format) and press the Select/Enter jog dial.

A full format takes about 40 minutes. The format progress is displayed on the screen. For detailed formatting instructions, see "When using a new MD data" (page 19).

To cancel during formatting

Press the  button. When the format cancellation screen appears, select "Cancel" and press the Select/Enter jog dial. If you cancel, the unit cannot be used until formatting is performed again.

Symptoms and Causes Due to System Limitations

The MD (MiniDisc) system uses a recording method different from conventional cassettes or DAT. Therefore, there are certain system limitations, and the following symptoms may occur. Please note that these are not malfunctions.

About MiniDiscs for Music

Unable to record even though the maximum recording time (60 minutes, 74 minutes) has not been reached **m** On a MiniDisc system, recording is not possible once the track limit is reached. You cannot record more than 255 tracks. To add more tracks, delete unnecessary tracks or record them on a second MiniDisc.

Deleting several short tracks does not increase the remaining time on the MiniDisc.

m When displaying the remaining time on a MiniDisc, durations of 12 seconds or less are ignored, so deleting a short song may not increase the total time.

The total of the recorded time and remaining time on the MiniDisc may not match the maximum recordable time

(60 minutes, 74 minutes).

m Normally, one cluster (approximately 2 seconds) is the minimum unit of recording. Even if the recording is shorter than this, it will use 2 seconds of space. For this reason, the actual usable time is reduced. Also, if there are scratches on the MiniDisc, that section is automatically deleted, reducing the available time accordingly.

The time may not be displayed accurately on discs in mono format.

About MD data discs

Saving and editing images takes time

Saving and editing an album containing hundreds of images takes time.

When using narration or

background music

Sound may cut out on MD data discs containing a lot of narration or background music, or when the background music is less than 30 seconds long.

Limited number of images that can be imported

The number of images that can be recorded decreases with repeated editing.

If you think it might be a malfunction

Before sending the unit in for repair, try checking it again. If it still does not operate normally, contact the store where you purchased it, a Sony service center, or the Customer Support Center. If an unfamiliar message appears on the LCD screen, see page 112.

General

Symptoms	Cause	Action
Does not respond to commands	The battery is worn out (The "■" message appears).	Charge the battery. (Page 16)
	The AC power adapter is not plugged in securely.	Plug the DC IN connector firmly into the power outlet. (Page 17)
	Internal system malfunction.	Unplug the power cord, then plug it back in and check if the unit operates correctly. If it still does not work, press the reset button on the bottom of the unit with a pointed object. (This will clear all settings.)
	The hold function is active.	Set the hold switch in the opposite direction of the arrow to disable the hold function (page 88). Remove the disc and leave it out for a few hours.
	Condensation (water droplets inside).	Reinsert the disc. If the the "Disc error" message appears, replace it with another disc.
Battery drains quickly	The disc is damaged (The message "Disc error" appears).	Charge the battery fully. (Page 16) Replace the battery with a new one. (Page 102)
	The battery is not sufficiently charged. The battery has reached the end of its service life.	

Continuation the next page m

Other

During shooting and playback

Symptoms	Causes	Solution
Cannot take a photo	The function switch is not set to "Camera."	Set the function switch to "Camera."
	You have already taken the maximum number of photos.	Delete unnecessary images before taking a photo. (Page 59)
	The battery is running low.	Charge the battery. (Page 16) Return the dial to its original position. (Page 22)
	The disk protection switch is open.	
	The focus button was pressed accidentally.	Cancel manual focus. (Page 39) Place the camera away from TVs and other devices.
Out of focus	The camera is placed near a TV or other object with strong magnetic fields.	
Noise is present	There is backlighting. There is insufficient light.	Compensate for backlighting. (Page 40) Adjust the brightness of the LCD screen. (Page 23)
Image is dark		
	The battery has run out.	Charge the battery and reset the clock. (Page 75)
The recording date and time are not recorded		Set the print menu to "With Date." (Page 80)
	The print menu is set to "No Date."	
Photographing bright subjects smear. The result is an image	This is a phenomenon called	.
Black dots appear, or red, blue, and green dots do not disappear.	LCD screens are manufactured using extremely high-precision technology.	This is not a malfunction. These points are not saved.
Cannot play back	The function switch is not set to "Playback/Audio".	Set the function switch to "Playback/Audio."
	The battery is low.	Charge the battery. (Page 16)
Cannot delete the screen. A protection setting is in effect.		Remove the protection setting. (Page 58)
Cannot send or receive infrared data	The infrared ports on the devices are not facing each other. The receiving device is out of infrared range. There is an obstacle, such as a wall, between the devices.	Position the devices so that their infrared ports face each other, within 0 to 30 cm, and in a location free of obstacles within a 15° angle to the left and right of the center. (Pages 78, 82, 85)
	You attempted to connect to a device that is not compatible with the infrared data communication system.	Infrared data communication is not possible with devices that do not support the infrared data communication system.
	The IrDA mode is set to "OFF."	Set it to "ON." (Page 82)

Symptoms	Cause	Solution
The wireless remote control does not work	Remote control mode is set to "OFF."	Set it to "ON." (Page 74)
	The batteries are low.	Replace the batteries. (Page 119)

When using music MiniDiscs

Symptoms	Cause	Solution
Normal playback is not possible	Repeat playback is enabled.	Set the repeat playback mode in the audio menu to "OFF." (Page 90)
The sound cuts out during playback	The device is placed in a location with a lot of vibration.	Use the unit in a location with minimal continuous vibration.
	If the recording time for a single track, such as a narration or intro, is extremely short, the sound may cut out.	-
Cannot record or edit	The device is not properly connected to the audio source. A connection cable with a resistor was used (during analog recording).	Reconnect the cables. (Page 77)
	(The anti-erase switch on the disc is open.)	Use a connection cable without a resistor. Turn the knob back. (Page 88)
	The recording level is too low.	Put the unit in pause mode and adjust the recording level using the 0 1 and 1E 0 buttons. (Page 89)
		Replace the recording disc.
	A playback-only disc is inserted.	Replace with a different recording disc.
	The remaining time on the disc is 12 seconds or less.	2 / Insert it firmly into the remote control jack. (page 88)
No sound comes out of the headphones	The headphones with remote control are not plugged in securely.	Volume +/- buttons (VOL +/- buttons) to adjust the volume. Set the clock. (Page 75)
	The volume is too low.	
Recording date and time are not recorded	The clock has not been set.	

Other

Warning Displays and Notification Messages

The following displays may appear on the LCD screen. Please check them according to the table below.

Display	Meaning and Solution
Please replace the battery (message appears)	The battery is dead or nearly dead; flash photography is not possible. m Charge the battery. (Page 16) ! Caution If the message "Please charge the battery" appears during use and the power turns off automatically, stop using the current battery and either use the AC power adapter or replace it with a fully charged battery. Although the camera will turn on even with a completely drained battery, it will run out of power quickly, and the power may turn off before the camera shuts down properly, which may result in the destruction of internal image data. You cannot use discs that have not been formatted for albums (PictureMD). m Select "Execute" to format the disc for use as an album. (Page 19)
Do you want to create an album?	
The disc is damaged/There is a problem with the disc, and it cannot be formatted. Or, "Playback Only" Formatting failed. Please replace the disc.	Inserted the disc.
The disc is full	m Insert a new MD data disc for recording. (Page 19) The disc is already full.
Please select a different album	m Delete unnecessary images or replace the disc with a new one. (pages 19, 59)
The disc is protected	The maximum number of images that can be stored in a single album (1,000) has already been reached.
This is an Audio MiniDisc	m Select another album. (Page 64) The disk deletion prevention knob is open.
This disc cannot be recorded	m Return the switch to its original position. (Page 22)
Repairing the disc Repairing the MD	You inserted a music disc while the function switch was set to "Camera."
No image found	m Replace it with a recordable MD data disc. (pages 19, 106) You have inserted a playback-only disc.
Loading image	m Replace it with a recordable disc. (pages 19, 106) An error occurred during recording, so the system is performing automatic repair. m Please wait until the automatic repair is complete. You set the function switch to "Playback/Audio" without recording an image. m Record an image, then play it back. Depending on the number of images recorded on the disc, it may take several seconds to several minutes to load the images.

Display	Meaning and Solution
Recording in progress. Please wait.	You cannot take a picture by pressing the shutter button while an image is being saved. Wait until the "m" display disappears, then press the shutter button again.
The last image could not be recorded	The battery is dead.
Protected This is a read-only disc	m Charge the battery. (Page 16) You cannot delete images that have been protected.
There are protected images remaining	m Remove the protection setting before deleting. (page 58) You cannot record to a playback-only disc.
Cannot be displayed	m Insert a recordable disc. (Page 88) Protected images cannot be deleted even when you select "Delete All Images."
Cannot print	m Remove the protection before deleting. (page 58) Image playback failed. m Set the function switch to "Off" and try playback again. There is a problem with the printer, the infrared connection cannot be established, you are attempting to connect to an unsupported device, or the printer is not ready.
Images cannot be sent or received	m Check the printer status and whether the printer and this unit are within the infrared transmission range, then try printing again. (Page 78) Unable to connect via infrared, attempting to connect to a non-compatible device, or the destination device has insufficient memory. m Check the available memory on the receiving device (such as a digital still camera) and confirm that the transmitter and receiver are within range of each other, then try sending or receiving again. (Page 85)
Please set the date and time	The clock is not set. m Set the clock. (Page 75)

Warranty and After-

Warranty

- A warranty card is included with this product; please obtain it from the store where you purchased the product.
- Please fill in the required information, verify the details, and keep it in a safe place.
- The warranty period is one year from the date of purchase.

After-Sales Service

If the product is not working properly, please check it first. Please review this manual again to troubleshoot the issue.

If the problem persists, contact customer service. Please consult the store where you purchased the product or your nearest Sony service center listed in the enclosed "Sony Service Center Guide."

Repairs during the warranty period

Repairs during the warranty period will be performed in accordance with the terms of the warranty certificate. Please refer to the warranty certificate for details.

Repairs after the warranty period

If the product's functionality can be restored through repair, we will perform a paid repair upon request.

Regarding Parts Availability

We retain functional replacement parts for digital still cameras (parts necessary to maintain product functionality) for a minimum of 8 years after production has been discontinued. This parts retention period constitutes the period during which repairs are possible. Even after this retention period has expired, repairs may still be possible depending on the nature of the malfunction. Please consult the store where you purchased the product or our service center.

When contacting us, please provide the following information:

- Model Name: DSC-MD1
- Nature of the malfunction: Please provide as much detail as possible
- Date of purchase

Main specifications

Camera Unit

Model

MD Data Disc Digital Still Camera

Video Signal Output

NTSC color, EIA standard

Image Sensor

1/3-inch CCD (640 × 480)
Square grid, primary color filter, full-pixel
readout method

Lens

6 Groups, 3 elements, X-times zoom

Focal length $f = 5.2\text{--}15.6\text{ mm}$
($f = 37\text{--}111\text{ mm}$, 35 mm camera equivalent)

Inner focus / Macro
F 2.0~2.1

Metering mode

TTL metering

Exposure control

Auto (with AE shift function)

White Balance

Auto

Data Compression Format • Number of Images

JPEG Format
Fine Mode (128 KB)
Standard Mode (64 KB)

Image Data Format

Picture MD compliant
Main screen: 640 × 480 (VGA)
Index screen: 80 × 60

Storage Media

MD data disc

Flash

Auto / Forced Flash / Flash Off
Operating Distance: 0.8m~5m
Serial control Automatic light adjustment
method

Shutter Speed

Auto mode:

Auto (1/30 to 1/1000) Manual mode:

Selectable from 1/4 to 1/4000

Maximum number of shots (when recording
images only)

2,000 shots (Standard) /

1,000 shots (Fine)

Audio

Format

MiniDisc Digital Audio
System

Recording method

Magnetic-optical recording

Playback Reading Method

Non-contact optical reading (using a
semiconductor laser)

Laser

GaAlAs double heterodiode, $\lambda = 780\text{ nm}$

Recording/playback time

Up to 148 minutes (using MDW-74, mono
recording and playback)

Up to 74 minutes (when using MDW-74,
stereo recording and playback)

Rotation speed

Approx. 400 rpm to 900 rpm (CLV)

Error Correction Scheme

Advanced Cross-Interleaved Reed-Solomon
Code (ACIRC)

Sampling frequency

44.1 kHz

Coding

Adaptive Transform
Acoustic Coding
(ATRAC)

modulation method

EFM

Number of channels

2 stereo channels

Mono 1-channel

Acoustic
of
and

Frequency response

20–20,000 Hz ± 3 dB

Wow and flutter

Below measurement limit

LCD screen

Screen size

2.5-inch (280 x 220 lines)

LCD Panel Used

TFT (Thin-Film Transistor Active Matrix) drive

Total Number of Pixels

61,600 dots

Input/Output Terminals

AV Output Terminal

Mini-jack, 1 Vp-p, 75 Ω unbalanced,
sync negative (video)

Digital I/O terminal

Stereo mini-jack

(3.5 mm mini jack)

RS-232C compliant

9.6 kbps to 115.2 kbps

External microphone input / audio line input (combined)

Analog, 3.5 mm mini jack

Infrared Transmitter/Receiver

IrDA 1.1 compliant

9.6 kbps to 1.152 Mbps

Power supply and other

Power

External power jack: Rated DC 8.4 V. AC
power adapter AC-

V100 (sold separately)

Battery Life

For information on battery life,
see "Shooting and Viewing" (page 18).

Power consumption

4.3 W during recording, 3.3 W during playback

Operating Temperature

0 °C to +40 °C

Storage Temperature

–20 °C to +60 °C

Maximum dimensions

Approx. 87 × 116 × 56 mm
(Width/Height/Depth, excluding protrusions)

Weight

Body: Approx. 490 g (excluding battery,
lens cap, and mini disc)
Approx. 600 g (including NP-F100
battery, lens cap, and mini disc)

Accessories

Wireless remote control (1) Battery
terminal cover (1) AA alkaline batteries
(2)

AV connection cable (1)

Headphones with remote control (1)

Lens cap (1)

Cleaning cloth (1) MD data disc (1)

Instruction manual (1)

Warranty Card (1)

Sony Customer Support Information (1)

Please note that the specifications and appearance of
this unit are subject to change without notice for
improvement purposes.

Optional accessories

Accessory Kit

ACC KIT-MD1

PC Connection Kit

DSKIT-PC4 (for Windows/Macintosh) Digital Color
Printer

DPP-M55

Infrared Communication Adapter

DSKIT-IR2W (for IBM PC/AT and compatible
)

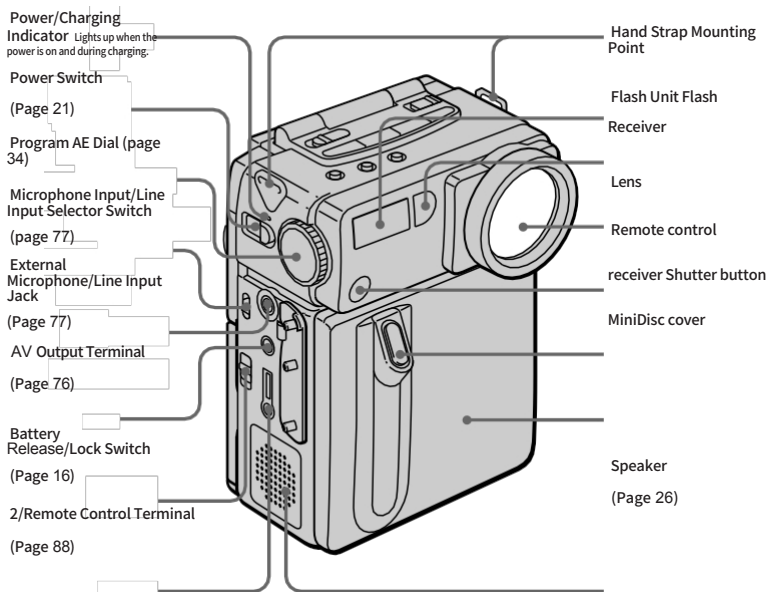
Digital Picture Album

DPA-1

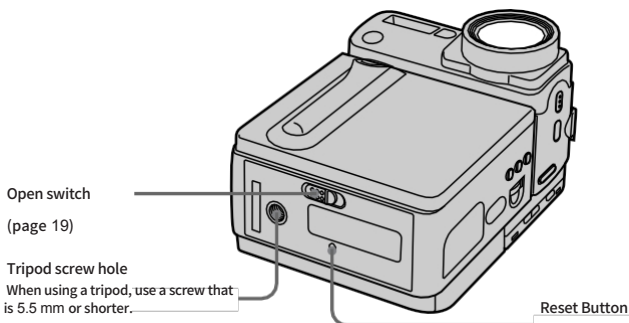
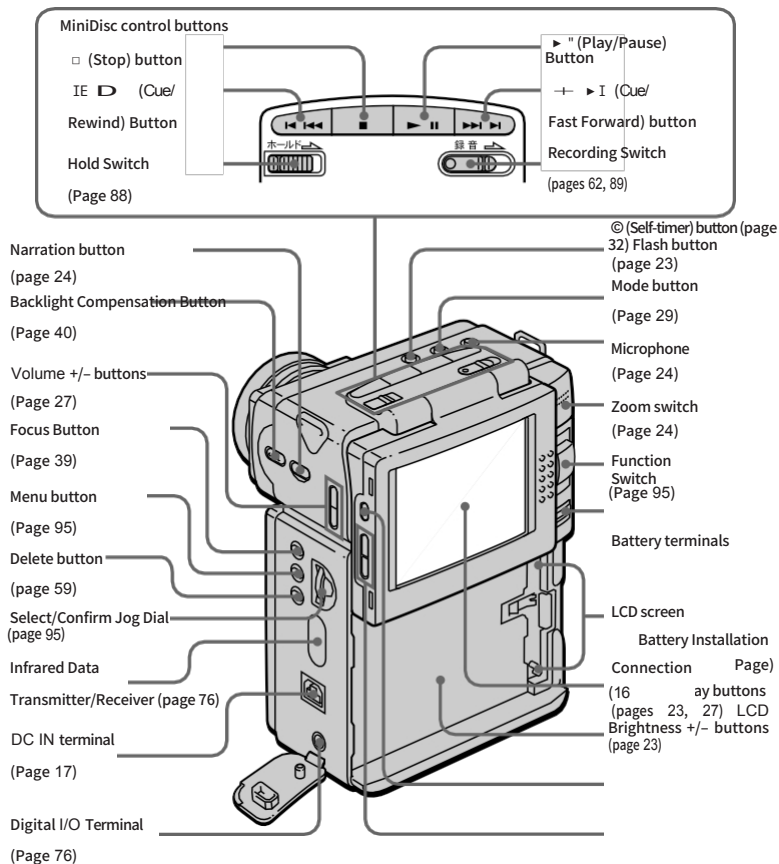
Parts Names

Detailed explanations are provided on the pages indicated in parentheses.

Main Unit



Other



Wireless Remote

Delete button (page 59)

+/- button / OK button

Selecting/Confirming Functions similarly to the jog dial. Use the +/- buttons to select, and the OK button to confirm.

IE D/ ▶ "/□/ + ▶ I

Button

Screen Display Buttons

(pages 23, 27)

Zoom Switch

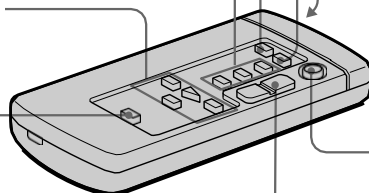
(page 24)

Menu button

(Page 95)

Remote Control Light

Shutter Button

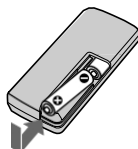
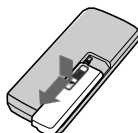


How to Insert the Battery

1 Press and slide.

2 Insert two AA batteries.

3 Push back into place.



About Batteries

Improper use of dry cell batteries may cause leakage or rupture. Be sure to follow these instructions.

- Insert the **batteries** with the “+” and “-” marks facing the correct directions.
- Do not mix new and used batteries, or batteries of different types.
- Dry cell batteries cannot be recharged.
- If you will not be using the batteries for an extended period, remove them.

If leakage occurs, wipe the liquid from the battery compartment thoroughly before inserting new

About the Wireless Remote Control

Be careful not to expose the remote control receiver on the main unit to direct sunlight or strong light from lighting fixtures. This may prevent the remote control from working.

Wireless Remote Control Operating Range

The wireless remote control has a range of approximately 5 meters when used indoors. Please aim the remote control at the remote control receiver on the main unit

Depending on the angle, the remote may not work.

Make sure there are

Please insert the batteries.

The

In addition

Headphones with Remote Control

Headphones

can be replaced with headphones sold separately.

Volume

VOL (Volume)

+/- buttons

▶ (Play) / D / D (Rewind, Fast Forward) buttons

Press while stopped (Play); press the D side while playing
Skips to the beginning or fast-forwards; when pressed during playback

Pressing the D side performs seek and rewind.

Track Mark

TRACK MARK

Button

This button is not available on this unit.

" (Pause) button

HOLD

Pressing the

Locks the buttons on this remote control to prevent accidental operation.

□ (Stop) button

AVLS

AVLS switch

Prevents sound leakage from the headphones.

Glossary

A section

Album...14 pages

The unit used to save and display images on this device. By saving multiple images together as a single album, you can view them as if flipping through an album.

Index Screen...Page 42

A screen that displays 12 images at once. Useful for searching for images.

Interval Shooting...Page 31

A continuous shooting mode for capturing images at regular intervals over a long period of time, such as when documenting the blooming of flowers.

Auto Shooting...Page 21

A feature that allows you to shoot at the optimal brightness based on the subject and shooting conditions. It automatically adjusts the shutter speed and aperture.

K section

Image Note...Page 55

A title displayed below the image.

Backlighting...Page 40

When the subject is facing the direction of strong sunlight, the subject appears dark. This can be corrected by adjusting the exposure settings or using the flash.

This can be corrected by adjusting the exposure or using the flash.

Sa section

Bookmark...Page 57

A mark added to an image for classification and search purposes. This camera has blue and red bookmarks.

Slideshow...page 45

A function that plays images in sequence, starting with the one with the lowest number. Audio, such as background music, can be played simultaneously.

Infrared Data Communication System...Page 28 A system that transmits image data and other information at high speeds via infrared without connecting cables. In addition to digital cameras, this technology is used in computers, printers, and other devices. This device supports the IrDA standard.

T section

Time Machine Shooting Mode...Page 30 A mode that takes a series of images—including the one captured when the shutter is pressed, as well as the images immediately before and after it. This is useful for capturing the perfect moment.

N section

Narration...Page 24

Audio recorded simultaneously with an image. It can be played back along with the image.

H section

Power Save Function...Page 73

A function that automatically turns off the LCD screen or powers down the camera when not in use during shooting to conserve battery power.

Protect Setting...Page 58

Protection function. By designating an image as protected, it cannot be deleted.

Program AE...^{AE}Page 34

A function that enables optimal shooting based on the subject and shooting conditions. This camera has three modes. Shutter speed and iris (aperture) are automatically adjusted depending on the mode.

So

tha
an
t
d

M section

Manual shooting...page 34

You can adjust the shutter speed, brightness, iris (aperture), and other settings in the shooting menu.

Multi-frame burst mode...page 31 A mode that takes 9 consecutive shots starting from the moment the shutter is pressed and records them on a single screen. This is useful for checking fast movements on a single screen.

R

Continuous Shooting Mode...Page 29

By pressing the shutter once, takes multiple images in succession starting from the moment the shutter is pressed. In addition to the standard continuous shooting mode, this camera features Time Machine Shooting mode, Multi-Screen Continuous Shooting mode, and Interval Shooting mode.

W section

Wide Screen Mode ... Page 68

A setting for shooting so that the image appears in widescreen (width:height = 16:9) during playback.

Alphabetical Order

AVLS

AVLS (Anti-Leakage Sound) ... Page 88

A function that limits the volume to a certain range even when the volume button is pressed, to prevent sound leakage from the headphones.

AF (Autofocus) ...Page 21

A shooting method that automatically adjusts the focus according to the shooting conditions.

IrDA

IrDA 28. Page

The name of the infrared data communication standard used by this device.

JPEG

JPEG 67.. Page

The image data compression format used by this camera. The format name derives from the name of the group (Joint Photographic Experts Group) that standardized still images of natural scenes.

NTSC

NTSC Method ... 105Page

A color television system used in Japan, the United States, and other countries. Images recorded in the NTSC format cannot be played back on televisions using the PAL or SECAM systems, which are used in Europe and other regions. Please be careful when using this unit overseas.

Picture MD

PictureMD Format... 14Page

The format for saving images to an MD data disc. Images are saved, recorded, and displayed by album.

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Sony Corporation 6-7-35 Kita-Shinagawa, Shinagawa-ku, Tokyo 141

For inquiries, please contact the Customer Service Center

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