For details on the advanced operations, please access “Cyber-shot Handbook” and “Cyber-shot Step-up Guide” contained on the supplied CD-ROM via a computer.

Operating Instructions
Before operating the unit, please read this manual thoroughly, and retain it for future reference.
Owner's Record
The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. DSC-H7/H9
Serial No. ___________________________

WARNING
To reduce fire or shock hazard, do not expose the unit to rain or moisture.

For Customers in the U.S.A.

IMPORTANT SAFEGUARDS

For your protection, please read these safety instructions completely before operating the appliance, and keep this manual for future reference.
Carefully observe all warnings, precautions and instructions on the appliance, or the one described in the operating instructions and adhere to them.

Use

Power Sources
This set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, or other sources, refer to the operating instructions.

Polarization
This set may be equipped with a polarized ac power cord plug (a plug having one blade wider than the other).
This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to have a suitable outlet installed.
Do not defeat the safety purpose of the polarized plug by forcing it in.

Overloading
Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Object and Liquid Entry
Never push objects of any kind into the set through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.

Attachments
Do not use attachments not recommended by the manufacturer, as they may cause hazards.
Cleaning
Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the set.

Installation

Water and Moisture
Do not use power-line operated sets near water – for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

Power-Cord Protection
Route the power cord so that it is not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the plugs, receptacles, and the point where the cord exits from the appliance.

Accessories
Do not place the set on an unstable cart, stand, tripod, bracket, or table. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart, stand, tripod, bracket, or table recommended by the manufacturer.

Ventilation
The slots and openings in the cabinet are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.
– Never cover the slots and openings with a cloth or other materials.
– Never block the slots and openings by placing the set on a bed, sofa, rug, or other similar surface.
– Never place the set in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilation is provided.
– Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.

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

Service

Damage Requiring Service
Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
– When the power cord or plug is damaged or frayed.
– If liquid has been spilled or objects have fallen into the set.
– If the set has been exposed to rain or water.
– If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
– If the set does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.
– When the set exhibits a distinct change in performance – this indicates a need for service.

Servicing
Do not attempt to service the set yourself as opening or removing covers may expose you to dangerous voltage or other hazards.
Refer all servicing to qualified service personnel.

Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety Check
Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition.
Read this first

**CAUTION**
Replace the battery with the specified type only. Otherwise, fire or injury may result.

**For Customers in the U.S.A. and Canada**

**RECYCLING LITHIUM-ION BATTERIES**
Lithium-Ion batteries are recyclable.
You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit http://www.rbrc.org/

**Caution:** Do not handle damaged or leaking Lithium-Ion batteries.

**Battery charger**
This power unit is intended to be correctly orientated in a vertical or floor mount position.

**For Customers in the U.S.A.**
If you have any questions about this product, you may call:
Sony Customer Information Center
1-800-222-SONY (7669)
The number below is for the FCC related matters only.

**Regulatory Information**

**Declaration of Conformity**
Trade Name: SONY
Model No.: DSC-H7
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone No.: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Declaration of Conformity**
Trade Name: SONY
Model No.: DSC-H9
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone No.: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note:

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

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

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Europe

This product has been tested and found compliant with the limits set out in the EMC Directive for using connection cables shorter than 3 meters (9.8 feet).

Attention

The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit.

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.

For the State of California, USA only

Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

Perchlorate Material: Lithium battery contains perchlorate.

Applicable Accessories: Remote Control
A moulded plug complying with BS 1363 is fitted to this equipment for your safety and convenience. Should the fuse in the plug supplied need to be replaced, a fuse of the same rating as the supplied one and approved by ASTA or BSI to BS 1362, (i.e., marked with an ☐ or ☐ mark) must be used.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.
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</table>
Notes on using your camera

Internal memory and “Memory Stick Duo” back up
Do not turn off the camera or remove the battery pack or “Memory Stick Duo” while the access lamp is lighted, as the internal memory data or “Memory Stick Duo” data may be destroyed. Always protect your data by making a backup copy.

Notes on recording/playback
- Before you start recording, make a trial recording to make sure that the camera is working correctly.
- This camera is neither dust-proof, nor splash-proof, nor water-proof. Read “Precautions” (page 36) before operating the camera.
- Be careful not to get the camera wet. Water entering the inside of the camera may cause malfunctions which in some cases may not be repairable.
- Do not aim the camera at the sun or other bright light. It may cause the malfunction of your camera.
- Do not use the camera near a location that generates strong radio waves or emits radiation. The camera may not be able to record or play back properly.
- Using the camera in sandy or dusty locations may cause malfunctions.
- If moisture condensation occurs, remove it before using the camera (page 36).
- Do not shake or strike the camera. In addition to malfunctions and an inability to record images, this may render the recording medium unusable, or cause image data breakdown, damage or loss.
- Clean the flash surface before use. The heat of flash emission may cause dirt on the flash surface to become discolored or to stick to the flash surface, resulting in insufficient light emission.

Notes on the LCD screen, the LCD finder and the lens
- The LCD screen and the LCD finder are manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue or green in color) that constantly appear on the LCD screen or the LCD finder. These points are normal in the manufacturing process and do not affect the recording in any way.
- When the battery level becomes low, the lens might stop moving. Insert a charged battery pack and turn on the camera again.
- Do not hold the camera by taking hold of the LCD screen.

On image data compatibility
- This camera conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).
- Playback of images recorded with your camera on other equipment and playback of images recorded or edited with other equipment on your camera are not guaranteed.

Warning on copyright
Television programs, films, videotapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.
No compensation for contents of the recording

The contents of the recording cannot be compensated for if recording or playback is not possible due to a malfunction of your camera or recording media, etc.
Getting started

Checking the accessories supplied

- Battery charger BC-CSG/BC-CSGB/BC-CSGC (1)
- Power cord (mains lead) (1) (not supplied in the USA and Canada)
- Rechargeable battery pack NP-BG1 (1)/Battery case (1)
- USB, A/V cable for multi-use terminal (1)
- Shoulder strap (1)
- Remote Control (1)
- Lens hood (1)/Adaptor ring (1)
- Lens cap (1)/Lens cap strap (1)
- CD-ROM (Cyber-shot application software/“Cyber-shot Handbook”/“Cyber-shot Step-up Guide”) (1)
- Instruction Manual (this manual) (1)

Attaching the shoulder strap and the lens cap
Attach the strap to prevent the camera from damage by being dropped, etc.
Remote Control

Note
Remove the insulation sheet before using the Remote Control.

Insulation sheet

To change the battery of the Remote Control
1 While pressing on the tab, inset your fingernail into the slit to pull out the battery case.
2 Place a new battery with the + side facing up.
3 Insert the battery case back into the Remote Control until it clicks.

WARNING
Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.

- When the lithium battery becomes weak, the operating distance of the Remote Control may shorten, or the Remote Control may not function properly. In this case, replace the battery with a Sony CR2025 lithium battery. Use of another battery may present a risk of fire or explosion.
- The Remote Control has a button type lithium battery (CR2025) built in. Do not use batteries other than CR2025.
1 Preparing the battery pack

1 Insert the battery pack into the battery charger.

2 Connect the battery charger to the wall outlet (wall socket).

   The CHARGE lamp lights on, and charging starts.
   When the CHARGE lamp turns off, charging is finished (Practical charge).
   If you continue charging the battery pack for about one more hour (until it is fully charged), the charge
   will last slightly longer.

Charging time

<table>
<thead>
<tr>
<th></th>
<th>Full charge time</th>
<th>Practical charge time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Approx. 330 min.</td>
<td>Approx. 270 min.</td>
</tr>
</tbody>
</table>

- Time required to charge a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take
  longer under certain circumstances or conditions.
- See page 32 for the number of images that can be recorded.
- Connect the battery charger to an easily accessible wall outlet (wall socket) close by.
- Even if the CHARGE lamp is not lit, the battery charger is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet (wall socket). If some trouble occurs while using the battery charger, immediately shut off the power by disconnecting the plug from the wall outlet (wall socket).
- When charging is finished, disconnect the power cord (mains lead) from the wall outlet (wall socket), and remove the battery pack from the battery charger.
- Designed for use with compatible Sony batteries.
2 Inserting the battery pack/a “Memory Stick Duo” (not supplied)

1 Open the battery/“Memory Stick Duo” cover.

2 Insert the “Memory Stick Duo” (not supplied) all the way in until it clicks.

3 Insert the battery pack.

4 Close the battery/“Memory Stick Duo” cover.

When there is no “Memory Stick Duo” inserted
The camera records/plays back images using the internal memory (approx. 31 MB).

To check the remaining battery time
Press POWER button to turn on and check the remaining battery on the LCD screen.

<table>
<thead>
<tr>
<th>Battery remaining indicator</th>
<th>————</th>
<th>————</th>
<th>————</th>
<th>————</th>
<th>————</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery remaining guidelines</td>
<td>Sufficient power remaining</td>
<td>Battery almost fully charged</td>
<td>Battery half full</td>
<td>Battery low, recording/playback will stop soon</td>
<td>Change the battery with fully charged one, or charge the battery. (The warning indicator flashes.)</td>
</tr>
</tbody>
</table>

- It takes about one minute until the correct battery remaining indicator appears.
- The displayed battery remaining indicator may not be correct under certain circumstances.
- The Clock Set screen appears when the camera is turned on for the first time (page 15).
To remove the battery pack/“Memory Stick Duo”

Open the battery/“Memory Stick Duo” cover.

“Memory Stick Duo”

Make sure that the access lamp is not lit, then push the “Memory Stick Duo” in once.

Battery pack

Slide the battery eject lever.
Be sure not to drop the battery pack.

Never remove the battery pack/“Memory Stick Duo” when the access lamp is lit. This may cause damage to data in the “Memory Stick Duo”.
3 Turning the camera on/setting the clock

1 Press the POWER button or press (Playback) button.

2 Set the clock with the control button.
   1 Select the date display format with ▲/▼, then press ●.
   2 Select each item with ◀/▶ and set the numeric value with ▲/▼, then press ●.
   3 Select [OK], then press ●.

To change the date and time
Press the HOME button, and select [Clock Settings] in (Settings) (pages 23, 24).

When you turn on the power
If the camera is running on battery power and you do not operate the camera for about three minutes, the camera turns off automatically to prevent wearing down the battery pack (Auto power-off function).
Shooting images easily

1 Select the desired function from the mode dial.
   When shooting still images (Auto Adjustment mode): Select  
   When shooting movies: Select  

2 Hold the camera steady, keeping your arm at your side.

3 Shoot with the shutter button.
   When shooting still images:
   1 Press and hold the shutter button halfway down to focus.
      The (AE/AF lock) indicator (green) flashes, a beep sounds, the indicator stops flashing and remains lit.
   2 Press the shutter button fully down.

   When shooting movies:
   Press the shutter button fully down.
   To stop recording, press the shutter button fully down again.
Using the mode dial
Set the mode dial to the desired function.

Auto Adjustment
Allows easy shooting with the settings adjusted automatically.

Program Shift
Allows you to shoot with the exposure adjusted automatically (both the shutter speed and the aperture value). Also you can select various setting using the menu.

Shutter Speed Priority Shooting
Allows you to shoot after adjusting the shutter speed manually.

Aperture priority Shooting
Allows you to shoot after adjusting the aperture value manually.

Manual Exposure Shooting
Allows you to shoot after adjusting the exposure manually.

Movie Recording
Allows you to record movies with audio.

High Sensitivity
Shoot images without a flash even in low lighting.

Portrait
Shoot with backgrounds blurred away, and the subject is sharpened.

Advanced Sports Shooting
 Shoot images by predicting the movement of the subject and setting focus.

Twilight Portrait
Shoot sharp images of people in a dark place without losing the nighttime atmosphere.

Landscape
Shoot with the focus on a distant subject.

Scene Selection
Selects a Scene Selection in the menu.*

Scene Selection in the menu

Twilight
Shoot night scenes without losing the nighttime atmosphere.

Beach
Shoot seaside or lakeside scenes with the blueness of the water captured more vividly.

Snow
Shoot snow scenes in white more clearly.

Fireworks
Shoot fireworks in all their splendor.

Using the zoom
Press T to zoom, press W to undo zoom.

Flash (Selecting a flash mode for still images)
Press ◀ (➔) on the control button repeatedly until the desired mode is selected.

Auto: Flash Auto
Strobes when there is insufficient light or backlight (default setting)

Flash forced on

Slow synchro (Flash forced on)
The shutter speed is slow in a dark place to clearly shoot the background that is out of flash light.

Flash forced off

When using flash, the flash automatically pops up and strobes. Close the flash by hand after use.

Macro (Shooting close-up)
Press ◀ (➔) on the control button repeatedly until the desired mode is selected.

Macro off

Macro on (W side: Approx. 1 cm or farther (13/32 inches or farther), T side: Approx. 120 cm or farther (3 feet 11 1/4 inches or farther))

Using the self-timer
Press ◀ (➔) on the control button repeatedly until the desired mode is selected.

Not using the self-timer

Setting the 10-second delay self-timer

Setting the 2-second delay self-timer

Press the shutter button, the self-timer lamp flashes, and a beep sounds until the shutter operates.
### DISP Changing the screen display

Press ▲ (DISP) on the control button. Each time you press ▲ (DISP) button, the LCD screen or the LCD finder changes as follows.

- Brightness of LCD backlight up
- Histogram on
- Indicators off
- Indicators on*

* The LCD backlight will return to normal brightness.

### Shooting in the dark (DSC-H9 only)

The Night Shot function lets you shoot subjects in the dark places without using the flash.

Set NIGHTSHOT switch to ON.

### To shoot using the finder

With the FINDER/LCD button, you can choose to shoot either using the finder or the LCD screen. When you use the finder, the image does not appear on the LCD screen. Adjust the finder adjustment dial to your eyesight so that the image appears clearly within the finder, then shoot the image.

### Adjusting the angle of the LCD screen (DSC-H9 only)

You can adjust the angle of the LCD screen.

- Forcing the LCD screen to move over the range of movement may cause malfunction.
**Attaching the lens hood**

1. Attach the adaptor ring while the power is off.

2. Turn the position ring and position the indicator of the adaptor ring to the indicator of this camera, as illustrated below.

3. Turn the lens hood and position the indicator to the indicator of the position ring until it clicks. While doing this, hold and fix the indicator of the adaptor ring to not turn.

**Storing the lens hood**

Position the lens hood as shown below and turn the lens hood clockwise until it clicks.
Shooting with manual adjustment

Using the wheel dial

You can change the following settings by using the wheel dial.

- ISO value
- Shutter speed
- Aperture value
- Exposure value (EV)
- AF range finder frame indicator
  – When manual focus is selected, the distance which the focus is set is adjusted.

To select the item

1. Turn the wheel dial to select the item you want to set.
   Move the yellow indication ▼ to select the item.

2. Press ◀ on the control button.
   The value turns yellow.

3. To set other items, press ◀ and then perform the following operations.
   Items that cannot be selected are displayed as gray.

To select the value

When the values are displayed in yellow, the values can be selected and set by turning the wheel dial. The displayed value is set.
**Viewing/deleting images**

1. **Press (Playback) button.**
   If you press ■ when the camera is powered off, the camera is turned on automatically and set to playback mode. To switch to the shooting mode, press ■ again.

2. **Select an image with ◄► on the control button.**
   - **Movie:**
     - Press ● to play back a movie. (Press ● again to stop playback.)
     - Press ▶ to fast forward, ◄ to rewind. (Press ● to return to normal playback.)
     - Press ▼ to display the volume control screen, then press ◄► to adjust the volume.
   - By turning the wheel dial, you can also easily view the next/previous image.

### To delete images

1. Display the image you want to delete, then press MENU.
2. Select [Delete] with ▲ and select [This Image] with ◄►, then press ●.
3. Select [OK] with ▲, then press ●.

### To view an enlarged image (playback zoom)

Press ◐ while displaying a still image.
To undo the zoom, press ◐:
Adjust the position: ▲▼◄►
Cancel playback zoom: ●
**Viewing an index screen**

Press (Index) button to display the index screen while a still image is displayed. Then, select an image with ▲/▼/◄/►. To return to the single image screen, press ●.

- You can also access the index screen by selecting [Index Display] in (View Images) on the HOME screen.
- Each time you press (Index), the number of pictures on the index screen changes.

**To delete images in index mode**

1. Press MENU while the index screen is displayed.
2. Select [Delete] with ▲ and select [Multiple Images] with ◄/►, then press ●.
3. Select the image you want to delete with ▲/▼/◄/►, then press ●.
   - ✔ mark is checked in the checkbox of the image.
   - To cancel a selection, select an image you have selected for deletion, then press ● again.
4. Press MENU and select [OK] with ▲, then press ●.
   - To delete all the images in a folder, select [All In This Folder], then press ● in step 2.

**To play back a series of images (Slide Show)**

1. Press HOME and select [Slide Show] in (View Images).
2. Select [OK] with ▲, then press ●.
   - This is same as pressing the SLIDE SHOW button on the Remote Control.

**To view images on TV screen**

Connect the camera to the TV with the cable for multi-use terminal (supplied).
Learning the various functions – HOME/Menu

Using the HOME screen

The HOME screen is the gateway screen for all the functions of your camera. You can select the shooting mode or playback mode, or change the settings from the HOME screen.

1 Press HOME to display the HOME screen.

2 Select a category with ◄/► on the control button.

3 Select an item with ▲▼, then press ●.

When you select the  (Manage Memory) or  (Settings) category

1 Select the desired item with ▲▼ on the control button.
   • This is functional only when you select  (Settings).
2 Move to the right with ►, select a setting with ▲▼, then press ●.
3 Select a setting with ▲▼, then press ●.
   • The camera is set to the shooting mode by pressing the shutter button halfway down.
HOME items

Press HOME button displays the following items. Details on the items are displayed on the screen by the guide.

<table>
<thead>
<tr>
<th>Category</th>
<th>Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>📷 Shooting</td>
<td>Shooting</td>
</tr>
<tr>
<td>📸 View Images</td>
<td>Single Image</td>
</tr>
<tr>
<td></td>
<td>Index Display</td>
</tr>
<tr>
<td></td>
<td>Slide Show</td>
</tr>
<tr>
<td>🎤 Printing, Other</td>
<td>Print</td>
</tr>
<tr>
<td></td>
<td>Music Tool</td>
</tr>
<tr>
<td></td>
<td>Download Music</td>
</tr>
<tr>
<td></td>
<td>Format Music</td>
</tr>
<tr>
<td>📁 Manage Memory</td>
<td>Memory Tool</td>
</tr>
<tr>
<td></td>
<td>Memory Stick Tool</td>
</tr>
<tr>
<td></td>
<td>Format</td>
</tr>
<tr>
<td></td>
<td>Change REC. Folder</td>
</tr>
<tr>
<td></td>
<td>Create REC. Folder</td>
</tr>
<tr>
<td></td>
<td>Copy</td>
</tr>
<tr>
<td></td>
<td>Internal Memory Tool</td>
</tr>
<tr>
<td></td>
<td>Format</td>
</tr>
<tr>
<td>🎯 Settings</td>
<td>Main Settings</td>
</tr>
<tr>
<td></td>
<td>Main Settings 1</td>
</tr>
<tr>
<td></td>
<td>Beep</td>
</tr>
<tr>
<td></td>
<td>Initialize</td>
</tr>
<tr>
<td></td>
<td>Function Guide</td>
</tr>
<tr>
<td></td>
<td>Main Settings 2</td>
</tr>
<tr>
<td></td>
<td>USB Connect</td>
</tr>
<tr>
<td></td>
<td>Video Out</td>
</tr>
<tr>
<td></td>
<td>COMPONENT</td>
</tr>
<tr>
<td></td>
<td>Shooting Settings</td>
</tr>
<tr>
<td></td>
<td>Shooting Settings 1</td>
</tr>
<tr>
<td></td>
<td>AF Illuminator</td>
</tr>
<tr>
<td></td>
<td>Grid Line</td>
</tr>
<tr>
<td></td>
<td>AF Mode</td>
</tr>
<tr>
<td></td>
<td>Digital Zoom</td>
</tr>
<tr>
<td></td>
<td>Conversion Lens</td>
</tr>
<tr>
<td></td>
<td>Shooting Settings 2</td>
</tr>
<tr>
<td></td>
<td>Flash Sync.</td>
</tr>
<tr>
<td></td>
<td>Auto Orientation</td>
</tr>
<tr>
<td></td>
<td>Auto Review</td>
</tr>
<tr>
<td></td>
<td>Expanded Focus</td>
</tr>
<tr>
<td></td>
<td>Clock Settings</td>
</tr>
<tr>
<td></td>
<td>Language Setting</td>
</tr>
</tbody>
</table>
Using menu items

1. Press MENU to display the menu.

   - The menu will be displayed only during shooting and playback mode.
   - Different items will become visible depending on the selected mode.

2. Select the desired item with ▲/▼ on the control button.
   - If the desired item is hidden, keep pressing ▲/▼ until the item appears on the screen.

3. Select the desired setting with ◀/▶ on the control button.
   - If the desired item is hidden, keep pressing ◀/▶ until the item appears on the screen.
   - Press ● after selecting an item in playback mode.

4. Press MENU to turn off the menu.
Menu items

The available menu items vary depending on the camera mode. The shooting menu is available only in the shooting mode, and the viewing menu is available only in the playback mode. Also, the menu items available vary depending on the mode dial position. Only the available items are displayed on the screen.

**Menu for shooting**

<table>
<thead>
<tr>
<th>Menu Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scene Selection</td>
<td>Selects a preset setting according to the scene.</td>
</tr>
<tr>
<td>Image Size</td>
<td>Selects the still image size.</td>
</tr>
<tr>
<td>Face Detection</td>
<td>Detects the faces of your subjects and adjusts focus, etc.</td>
</tr>
<tr>
<td>REC Mode*</td>
<td>Selects the continuous shooting method.</td>
</tr>
<tr>
<td>Color Mode</td>
<td>Changes the vividness of the image or adds special effects.</td>
</tr>
<tr>
<td>Metering Mode*</td>
<td>Selects the metering mode.</td>
</tr>
<tr>
<td>White Bal</td>
<td>Adjusts the color tones.</td>
</tr>
<tr>
<td>Flash Level</td>
<td>Adjusts the amount of flash light.</td>
</tr>
<tr>
<td>Red Eye Reduction</td>
<td>Sets to reduce the red-eye phenomenon.</td>
</tr>
<tr>
<td>Contrast</td>
<td>Adjusts the contrast.</td>
</tr>
<tr>
<td>Sharpness</td>
<td>Adjusts the sharpness.</td>
</tr>
<tr>
<td>SteadyShot</td>
<td>Selects the anti-blur mode.</td>
</tr>
<tr>
<td>SETUP</td>
<td>Selects shooting settings.</td>
</tr>
</tbody>
</table>

* Menu items can be set on the menu screen only on DSC-H7. To set menu items on DSC-H9, press the buttons for each function.

---

DSC-H9

![Image showing the buttons on DSC-H9](image-url)
### Menu for viewing

<table>
<thead>
<tr>
<th>(Delete)</th>
<th>Deletes images.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Slide Show)</td>
<td>Plays back a series of images.</td>
</tr>
<tr>
<td>(Retouch)</td>
<td>Retouches images.</td>
</tr>
<tr>
<td>(Protect)</td>
<td>Prevents accidental erasure.</td>
</tr>
<tr>
<td><strong>DPOF</strong></td>
<td>Adds a Print order mark on image that you want to print out.</td>
</tr>
<tr>
<td>(Print)</td>
<td>Prints images using a PictBridge compliant printer.</td>
</tr>
<tr>
<td>(Rotate)</td>
<td>Rotates a still image.</td>
</tr>
<tr>
<td>(Select Folder)</td>
<td>Selects the folder for viewing images.</td>
</tr>
</tbody>
</table>
Enjoying your computer

You can display images shot with the camera on the computer. Also, you can use still images and movies from the camera more than ever by taking advantage of the software. For details, refer to “Cyber-shot Handbook”.

**Supported Operating Systems for USB connection and application software (supplied)**

<table>
<thead>
<tr>
<th></th>
<th>For Windows users</th>
<th>For Macintosh users</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USB connection</strong></td>
<td>Windows 2000 Professional, Windows XP* or Windows Vista*</td>
<td>Mac OS 9.1/9.2/ Mac OS X(v10.1 to v10.4)</td>
</tr>
<tr>
<td><strong>Application software “Picture Motion Browser”</strong></td>
<td>Windows 2000 Professional, Windows XP* or Windows Vista*</td>
<td>not compatible</td>
</tr>
</tbody>
</table>

*64-bit editions and Starter (Edition) are not supported.

- Must be installed with above OS at delivery.
- If your OS does not support USB connections, use a commercially available Memory Stick Reader/Writer.
- For further details on the operating environment of “Picture Motion Browser” Cyber-shot application software, refer to “Cyber-shot Handbook”.

---

28
Viewing “Cyber-shot Handbook” and “Cyber-shot Step-up Guide”

**For Windows users**

1. Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive. The screen below appears.

![Cyber-shot Application Software](image)

When you click the [Cyber-shot Handbook] button, the screen for copying “Cyber-shot Handbook” appears.

2. Follow the on-screen instructions to copy. When you click the “Cyber-shot Handbook” button, the both of the “Cyber-shot Handbook” and the “Cyber-shot Step-up Guide” will be installed.

3. After the installation is complete, double-click the shortcut created on the desktop.

**For Macintosh users**

Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive. Follow the instructions below.

**To view the “Cyber-shot Handbook”**


2. After copying is complete, double-click “Handbook.pdf”.

**To view the “Cyber-shot Step-up Guide”**

1. Copy the [stepupguide] folder in the [stepupguide] folder to your computer.

2. Select [stepupguide], [language] and then [GB] folder stored in the CD-ROM and copy all the files in the [GB] folder, then write over them to the files in the [img] folder stored in [stepupguide] which is copied to your computer in the step 1.

3. After copying is completed, double-click “stepupguide.hqx” in the [stepupguide] folder to uncompress it, then double-click the generated file “stepupguide”.

- If an uncompress tool for HQX file is not installed, install the Stuffit Expander.
Indicators on the screen

Each time you press ▲ (DISP) button, the display changes (page 18).

### When shooting still images

1. Battery remaining
2. Low battery warning
3. Image size
4. Mode dial/Menu (Scene Selection)

### When shooting movies

1. Recording mode
2. Metering mode
3. Face Detection
4. SteadyShot

### When playing back

1. Color mode
2. Contrast
3. Sharpness
4. PictBridge connecting

- VOL. 
- Protect
- DPOF
- Zoom scaling
- PictBridge connecting

### Indicators

- ISO
- White balance
- Night Shot (DSC-H9 only)
- Image size
- Metering mode
- Face Detection
- SteadyShot
- Vibration warning
- Recording mode
- Self-timer
- Zoom scaling
- PictBridge connecting
- PictBridge connecting
<table>
<thead>
<tr>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>●</td>
<td>AE/AE lock</td>
</tr>
<tr>
<td>Standby REC</td>
<td>Standby/Recording a movie</td>
</tr>
<tr>
<td>ISO400</td>
<td>ISO number</td>
</tr>
<tr>
<td>NR</td>
<td>NR slow shutter</td>
</tr>
<tr>
<td>125</td>
<td>Shutter speed</td>
</tr>
<tr>
<td>F3.5</td>
<td>Aperture value</td>
</tr>
<tr>
<td>+2.0EV</td>
<td>Exposure Value</td>
</tr>
<tr>
<td></td>
<td>AF range finder frame indicator</td>
</tr>
<tr>
<td></td>
<td>Manual focus</td>
</tr>
<tr>
<td></td>
<td>Manual focus bar</td>
</tr>
<tr>
<td></td>
<td>Macro</td>
</tr>
<tr>
<td></td>
<td>Playback</td>
</tr>
<tr>
<td></td>
<td>Playback bar</td>
</tr>
<tr>
<td>00:00:12</td>
<td>Counter/Recording time</td>
</tr>
<tr>
<td></td>
<td>Histogram</td>
</tr>
<tr>
<td></td>
<td>• appears when histogram display is disabled.</td>
</tr>
<tr>
<td>101-0012</td>
<td>Folder-file number</td>
</tr>
<tr>
<td>2007 1 1 9:30 AM</td>
<td>Recorded date/time of the playback image</td>
</tr>
<tr>
<td>● SET</td>
<td>Operation guide for shooting image</td>
</tr>
<tr>
<td>● OK</td>
<td></td>
</tr>
<tr>
<td>☐ MOVE</td>
<td></td>
</tr>
<tr>
<td>◀ MOVE</td>
<td></td>
</tr>
<tr>
<td>● STOP</td>
<td>Operation guide for playing image</td>
</tr>
<tr>
<td>● PLAY</td>
<td></td>
</tr>
<tr>
<td>◀ BACK/NEXT</td>
<td>Select images</td>
</tr>
<tr>
<td>▼ VOLUME</td>
<td>Adjust volume</td>
</tr>
</tbody>
</table>

4

C:32:00 | Self-diagnosis display |
| $1 $2 | Self-timer |
| | AF range finder frame |
| + | Spot metering cross hair |
| | Histogram |
Battery life and memory capacity

Battery life and number of images that can be recorded/viewed

The tables show the approximate number of images that can be recorded/viewed and the battery life when you shoot images in [Normal] mode with the battery pack (supplied) at full capacity and at an ambient temperature of 25°C (77°F). The numbers of images that can be recorded or viewed take into account changing the “Memory Stick Duo” as necessary. Note that the actual numbers may be less than those indicated in the table depending on the conditions of use.

• Battery capacity decreases as you use it more, as the time passes.
• The number of images that can be recorded/viewed and the battery life are decreased under the following conditions:
  – The surrounding temperature is low.
  – The flash is used frequently.
  – The camera has been turned on and off many times.
  – The zoom is used frequently.
  – [AF Mode] is set to [Monitor].
  – [SteadyShot] is set to [Continuous].
  – The battery power is low.
  – [Face Detection] is set to [On].

When shooting still images

<table>
<thead>
<tr>
<th>LCD screen/ Finder</th>
<th>No. of Images</th>
<th>Battery life (min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC-H9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCD screen</td>
<td>Approx. 280</td>
<td>Approx. 140</td>
</tr>
<tr>
<td>Finder</td>
<td>Approx. 310</td>
<td>Approx. 155</td>
</tr>
<tr>
<td>DSC-H7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCD screen</td>
<td>Approx. 300</td>
<td>Approx. 150</td>
</tr>
<tr>
<td>Finder</td>
<td>Approx. 320</td>
<td>Approx. 160</td>
</tr>
</tbody>
</table>

When shooting movies

<table>
<thead>
<tr>
<th>Shooting with the LCD screen</th>
<th>Shooting with the finder</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC-H9</td>
<td></td>
</tr>
<tr>
<td>Approx. 150</td>
<td>Approx. 170</td>
</tr>
<tr>
<td>DSC-H7</td>
<td></td>
</tr>
<tr>
<td>Approx. 160</td>
<td>Approx. 170</td>
</tr>
</tbody>
</table>

• Shooting in the following situations:
  – [AF Mode] is set to [Single].
  – [SteadyShot] is set to [Shooting].
  – Shooting once every 30 seconds.
  – The zoom is switched alternately between the W and T ends.
  – The flash strobes once every two times.
  – The power turns on and off once every ten times.
• The measurement method is based on the CIPA standard.
  (CIPA: Camera & Imaging Products Association)
• The number of images/battery life does not change, regardless of image size.

When viewing still images

<table>
<thead>
<tr>
<th>No. of Images</th>
<th>Battery life (min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC-H9</td>
<td></td>
</tr>
<tr>
<td>Approx. 6000</td>
<td>Approx. 300</td>
</tr>
<tr>
<td>DSC-H7</td>
<td></td>
</tr>
<tr>
<td>Approx. 7200</td>
<td>Approx. 360</td>
</tr>
</tbody>
</table>

• Viewing single images in order at about three second intervals

When shooting movies

<table>
<thead>
<tr>
<th>Shooting with the LCD screen</th>
<th>Shooting with the finder</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC-H9</td>
<td></td>
</tr>
<tr>
<td>Approx. 150</td>
<td>Approx. 170</td>
</tr>
<tr>
<td>DSC-H7</td>
<td></td>
</tr>
<tr>
<td>Approx. 160</td>
<td>Approx. 170</td>
</tr>
</tbody>
</table>

• Shooting movies continuously with an image size of [320]
Number of still images and recording time of movies

The number of still images and the length of time for movies may vary depending on the shooting conditions.

- You can select the image size to be used when shooting from the menu (pages 25, 26).

### The approximate number of still images

<table>
<thead>
<tr>
<th>Size</th>
<th>Capacity</th>
<th>Internal memory</th>
<th>“Memory Stick Duo” formatted with this camera</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Approx. 31 MB</td>
<td>128 MB</td>
</tr>
<tr>
<td>8M</td>
<td>3:2</td>
<td>10</td>
<td>40</td>
</tr>
<tr>
<td>5M</td>
<td>13</td>
<td>21</td>
<td>82</td>
</tr>
<tr>
<td>3M</td>
<td>21</td>
<td>21</td>
<td>82</td>
</tr>
<tr>
<td>VGA</td>
<td>202</td>
<td>202</td>
<td>790</td>
</tr>
<tr>
<td>16:9</td>
<td>33</td>
<td>33</td>
<td>133</td>
</tr>
</tbody>
</table>

- The number of images listed is for when [REC Mode] is set to [Normal].
- When the number of remaining shootable images is greater than 9,999, the “>9999” indicator appears.
- When images recorded using earlier Sony models are played back on this camera, the display may differ from the actual image size.

### The approximate recording time of movies

<table>
<thead>
<tr>
<th>Size</th>
<th>Capacity</th>
<th>Internal memory</th>
<th>“Memory Stick Duo” formatted with this camera</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Approx. 31 MB</td>
<td>128 MB</td>
</tr>
<tr>
<td>640(Fine)</td>
<td>0:01:30</td>
<td>0:06:00</td>
<td>0:23:40</td>
</tr>
<tr>
<td>640(Standard)</td>
<td>0:02:50</td>
<td>0:06:00</td>
<td>0:23:40</td>
</tr>
<tr>
<td>320</td>
<td>0:01:30</td>
<td>0:05:50</td>
<td>0:10:40</td>
</tr>
</tbody>
</table>

- Movies with the size set to [640(Fine)] can only be recorded on a “Memory Stick PRO Duo”.
- The size of a movie file is limited to approx. 2 GB. During recording, movie recording stops automatically when the file size of the movie reaches approx. 2 GB.
- This camera does not support HD recordings or playbacks for movies.
Troubleshooting

If you experience trouble with your camera, try the following solutions.

1. **Check the items below, and refer to “Cyber-shot Handbook” (PDF).**
   
   If a code such as “C/E:□□:□□” appears on the screen, refer to “Cyber-shot Handbook”.

2. **Remove the battery pack, and insert the battery pack again after about one minute, and turn on the power.**

3. **Initialize the settings (page 24).**

4. **Consult your Sony dealer or local authorized Sony service facility.**

Please understand that you give your consent that the contents of the internal memory, Music files may be checked when you send your camera to be repaired.

**Battery pack and power**

**The battery pack cannot be inserted.**

- Insert the battery pack correctly to push the battery eject lever (page 13).

**Cannot turn on the camera.**

- After installing the battery pack into the camera, it may take a little while to get the camera powered.
- Insert the battery pack correctly (page 13).
- The battery pack is discharged. Insert charged battery pack (page 12).
- The battery pack is dead. Replace it with a new one.
- Use a recommended battery pack (page 10).

**The power turns off suddenly.**

- If you do not operate the camera for about three minutes while the power is on, the camera turns off automatically to prevent wearing down the battery pack. Turn on the camera again (page 15).
- The battery pack is dead. Replace it with a new one.
The battery remaining indicator is incorrect.

- This phenomenon occurs when you use the camera in an extremely hot or cold location.
- The displayed battery remaining differs from the current one. Fully discharge and then charge the battery pack to correct the display.
- The battery pack is discharged. Insert the charged battery pack (page 12).
- The battery pack is dead. Replace it with a new one.

Cannot charge the battery pack.

- You cannot charge the battery pack using the AC Adaptor (not supplied).

Shooting still images/movies

Your camera cannot record images.

- Check the free capacity of the internal memory or “Memory Stick Duo” (pages 33). If it is full, do one of the following:
  - Delete unnecessary images (page 21).
  - Change the “Memory Stick Duo”.
- You are using the “Memory Stick Duo” with the write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position.
- You cannot record images while charging the flash.
- When shooting a still image, set the mode dial to a position other than 
- Set the mode dial to when shooting movies.
- The image size is set to [640(Fine)] when recording movies. Do one of the following:
  - Set the image size to other than [640(Fine)].
  - Insert a “Memory Stick PRO Duo”.
- The lens cap is attached. Remove it.

Cannot insert dates on images.

- This camera does not have a feature for superimposing dates on images. By using “Picture Motion Browser”, you can print or save images with the date.

Vertical streaks appear when you are shooting a very bright subject.

- The smear phenomenon is occurring and white, black, red, purple, or other streaks appear on the image. This phenomenon is not a malfunction.

Viewing images

Your camera cannot play back images.

- Press (Playback) button (page 21).
- The folder/file name has been changed on your computer.
- When an image file has been processed by a computer or when the image file was recorded using a model other than that of your camera, playback on your camera is not guaranteed.
- The camera is in USB mode. Delete the USB connection.
Precautions

Do not use/store the camera in the following places

- In an extremely hot, cold or humid place
  In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Under direct sunlight or near a heater
  The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strong magnetic place
- In sandy or dusty places
  Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On cleaning

Cleaning the LCD screen
Wipe the screen surface with an LCD cleaning kit (not supplied) to remove fingerprints, dust, etc.

Cleaning the lens
Wipe the lens with a soft cloth to remove fingerprints, dust, etc.

Cleaning the camera surface
Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. Do not use the following as they may damage the finish or the casing.
- Chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide, etc.
- Do not touch the camera with the above on your hand.
- Do not leave the camera in contact with rubber or vinyl for a long time.

On operating temperatures

Your camera is designed for use under the temperatures between 0°C and 40°C (32°F and 104°F). Shooting in extremely cold or hot places that exceed this range is not recommended.

On moisture condensation

If the camera is brought directly from a cold to a warm location, moisture may condense inside or outside the camera. This moisture condensation may cause a malfunction of the camera.

If moisture condensation occurs
Turn off the camera and wait about an hour for the moisture to evaporate. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

On the internal rechargeable backup battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off.

This rechargeable battery is continually charged as long as you are using the camera. However, if you use the camera for only short periods, it discharges gradually, and if you do not use the camera at all for about one month it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the camera.

However, even if this rechargeable battery is not charged, you can still use the camera as long as you do not record the date and time.

Charging method of the internal rechargeable backup battery
Insert charged battery pack in the camera, and then leave the camera for 24 hours or more with the power off.
Specifications

**Camera**

**[System]**
- Image device: 7.18 mm (1/2.5 type) color CCD,
- Primary color filter
- Total pixel number of camera: Approx. 8 286 000 pixels
- Effective pixel number of camera: Approx. 8 083 000 pixels
- Lens: Carl Zeiss Vario-Tessar 15× zoom lens f = 5.2 – 78 mm (31 – 465 mm when converted to a 35 mm still camera) F2.7 – 4.5
- Exposure control: Automatic exposure, Shutter speed priority, Aperture priority, Manual exposure, Scene Selection (9 modes)
- White balance: Automatic, Daylight, Cloudy, Fluorescent 1,2,3, Incandescent, Flash, One push
- File format (DCF compliant):
  - Still images: Exif Ver. 2.21 JPEG compliant, DPOF compatible
  - Movies: MPEG1 compliant (Monaural)
- Recording media: Internal Memory (approx. 31 MB), “Memory Stick Duo”
- Flash: Flash range (ISO sensitivity (Recommended exposure value) set to ISOAUTO): approx. 0.2 to 9.8 m
  - (7 7/8 inches to 32 feet 1 7/8 inches) (W)/ approx. 1.2 to 6.0 m (3 feet 11 1/4 inches to
  - 19 feet 8 1/4 inches) (T)
- Viewfinder: Electric viewfinder (color)

**[Input and Output connectors]**
- Multi connector Video output
  - Audio output (Monaural)
  - USB communication
  - USB communication: Hi-Speed USB (USB 2.0 compliant)

**[LCD screen]**
- LCD panel:
  - DSC-H9: 7.5 cm (3.0 type) TFT drive
  - DSC-H7: 6.2 cm (2.5 type) TFT drive
- Total number of dots:
  - DSC-H9: 230 400 (960 × 240) dots
  - DSC-H7: 115 200 (480 × 240) dots

**[Finder]**
- Panel: 0.5 cm (0.2 type) color
- Total number of dots: Approx. 200 000 dots equivalent

**[Power, general]**
- Power: Rechargeable battery pack NP-BG1, 3.6 V
  - AC-LS5K AC Adaptor (not supplied), 4.2 V
- Power consumption (during shooting with the LCD screen):
  - DSC-H9: 1.2 W
  - DSC-H7: 1.1 W
- Operating temperature: 0 to 40°C (32 to 104°F)
- Storage temperature: -20 to +60°C (–4 to +140°F)
- Dimensions: 109.5 × 83.4 × 85.7 mm (4 3/8 × 3 3/8 × 3 3/8 inches) (W/H/D, excluding protrusions) (for both DSC-H9 and DSC-H7)
- Mass:
  - DSC-H9: Approx. 546 g (1 lb 3.3 oz)
    - (including NP-BG1 battery pack, shoulder strap, adaptor ring, lens hood and lens cap, etc.)
  - DSC-H7: Approx. 514 g (1 lb 2.1 oz)
    - (including NP-BG1 battery pack, shoulder strap, adaptor ring, lens hood and lens cap, etc.)
- Microphone: Monaural
- Speaker: Monaural
- Exif Print: Compatible
- PRINT Image Matching III: Compatible
- PictBridge: Compatible

**BC-CSG/BC-CSGB/BC-CSGC battery charger**
- Power requirements: AC 100 V to 240 V, 50/60 Hz, 2 W (BC-CSG/BC-CSGC)/ 2.6 W (BC-CSGB)
- Output voltage: DC 4.2 V, 0.25 A
- Operating temperature: 0 to 40°C (32 to 104°F)
- Storage temperature: -20 to +60°C (–4 to +140°F)
- Dimensions: Approx. 62 × 24 × 91 mm (2 1/2 × 31/32 × 3 5/8 inches) (W/H/D)
- Mass: Approx. 75 g (2.7 oz)

**Rechargeable battery pack NP-BG1**
- Used battery: Lithium-ion battery
- Maximum voltage: DC 4.2 V
- Nominal voltage: DC 3.6 V
- Capacity: 3.4 Wh (960 mAh)

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