

Digital Still Camera

# Instruction Manual

Before operating the unit, please read this manual and "Cyber-shot Handbook" (PDF) on supplied CD-ROM 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-S45

Serial No. \_\_\_\_\_

## DSC-S45

Cyber-shot



**Refer to "Cyber-shot Handbook" (PDF) on supplied CD-ROM**

Explains advanced techniques and what to do if you experience trouble with your camera.

For Windows users, place the supplied CD-ROM in the CD-ROM drive of your computer, and install "Cyber-shot Handbook" following the instruction on the screen.

For Macintosh users, copy "Handbook.pdf" stored in the "US" folder in "Handbook" on the supplied CD-ROM to your computer.

Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.

<http://www.sony.net/> © 2006 Sony Corporation Printed in China

## Specifications

- [System]**
- Image device**  
7.17 mm (1/2.5 type) color CCD, Primary color filter
- Total pixel number of camera**  
Approx. 5 255 000 pixels
- Effective pixel number of camera**  
Approx. 5 090 000 pixels
- Lens**  
3× zoom lens  
f = 5.4 - 16.2 mm (32 - 96 mm when converted to a 35 mm still camera)  
F2.8 - 4.8
- Exposure control**  
Automatic exposure, Scene Selection (6 modes)
- White balance**  
Automatic, Daylight, Cloudy, Fluorescent, Incandescent
- File format (DCF compliant)**  
Still images: Exif Ver. 2.2  
JPEG compliant, DPOF compatible  
Movies: AVI (Motion JPEG)
- Recording media**  
Internal memory (10 MB)  
"Memory Stick Duo (with MagicGate/without MagicGate)"  
"Memory Stick PRO Duo"  
"MagicGate Memory Stick Duo"
- Flash**  
Recommended distance (ISO set to Auto):  
Approx. 0.5 m to 2.5 m  
(19 3/4 inches to 98 1/2 inches) (W/  
Approx. 0.5 m to 2.0 m  
(19 3/4 inches to 78 3/4 inches) (T)
- [Input and Output connectors]**
- A/V OUT jack**  
Mini-jack  
Video signal : 1 Vp-p, 75 Ω (ohms), unbalanced, sync negative  
Audio signal : 2 V (at load impedance more than 47 kΩ (kilohms))  
Output impedance with less than 2.2 kΩ (kilohms)
- USB jack**  
mini-B
- USB communication**  
Full-Speed USB (USB 2.0 compliant)
- [LCD screen]**
- LCD panel**  
6.2 cm (2.4 type) TFT drive
- Total number of dots**  
110 000 (480 × 234) dots
- [Power, general]**
- Power**  
LR6 (size AA) Alkaline batteries (2), 3 V  
HR15/51:HR6 (Size AA) Nickel-Metal Hydride batteries (not supplied) (2), 2.4 V  
ZR6 (size AA) Oxy Nickel Primary Battery (2) (not supplied), 3 V  
AC-LS5K AC Adaptor (not supplied), 4.2V
- Power consumption (during shooting with the LCD screen on)**  
1.65 W
- Operating temperature**  
0 to 40°C (32 to 104°F)
- Storage temperature**  
-20 to +60°C (-4 to +140°F)
- Dimensions**  
92 × 62 × 31 mm  
(3 3/4 × 2 1/2 × 1 1/4 inches) (W/H/D, excluding protrusions)
- Mass**  
Approx. 198 g (7.0 oz) (including two batteries and wrist strap, etc.)
- Microphone**  
Electret condenser microphone
- Buzzer**  
Piezo-electric buzzer
- Exif Print**  
Compatible
- PRINT Image Matching III**  
Compatible
- PictBridge**  
Compatible  
Design and specification are subject to change without notice.

**Checking the accessories supplied**

- LR6 (size AA) alkaline batteries (2)
- A/V cable (1)
- USB cable (1)
- Wrist strap (1)
- CD-ROM (Cyber-shot application software, handbook "Cyber-shot Handbook") (1)
- Operating instructions for digital still camera "Instruction Manual" (this manual) (1)

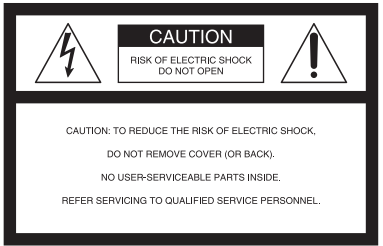
**Notes before use**

- The camera is a precision instrument. Be careful not to bump the lens or the LCD screen, and not to apply force to it. Attach the strap to prevent the camera from damage by being dropped, etc.

**WARNING**

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

For Customers in the U.S.A



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

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

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.

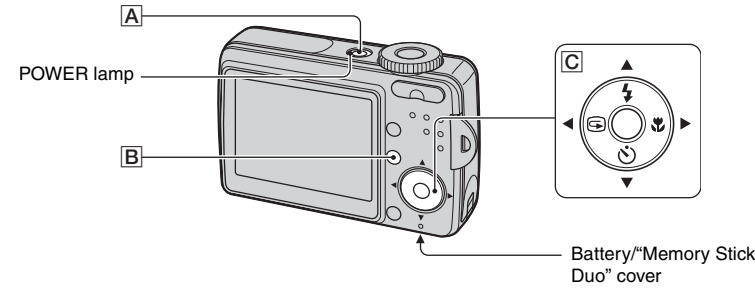
**Note:**

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:

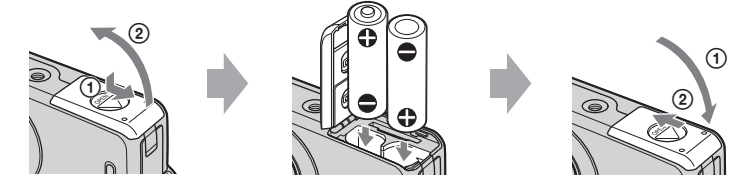
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

## 1 Preparation



### Insert the batteries



While pressing OPEN, open the battery/Memory Stick Duo" cover.

Match +/- and insert.

Close the battery cover.

### Available batteries

You can use LR6 (size AA) alkaline batteries (supplied, non-rechargeable)/HR 15/51:HR6 (size AA) Nickel-Metal Hydride batteries (rechargeable)/ZR6 (size AA) Oxy Nickel Primary Battery (non-rechargeable).

### To check the remaining battery time

Press POWER to turn on and check the time on the LCD screen.

- Sufficient power remaining
- Battery half full
- Battery low, recording/playback will stop soon.
- Replace the batteries with new ones.
- The warning indicator flashes.

- The displayed time remaining may not be correct under certain circumstances.
- When using alkaline batteries/Oxy Nickel Primary Battery, the battery remaining indicator may not display the correct information.

### To remove the batteries

Hold the camera with the battery/"Memory Stick Duo" cover facing upward, then open the battery cover and remove the batteries. Be careful not to drop the batteries.

### Turn the power on/off

To turn on, press POWER (A). The POWER lamp lights up.

To turn off, press POWER again. The POWER lamp goes out.

- When turning on the power, do not touch the lens portion as the cover opens and the lens portion extends. Also, do not leave the camera with the lens portion extended for a long period of time with the power off as this may cause a malfunction.
- If the camera is running on battery power and you do not operate the camera about three minutes, the camera turns off automatically to prevent battery drain (Auto power-off function).

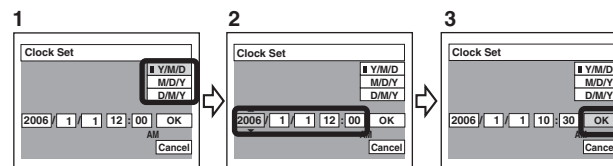
### Set/Change the date and time

First, enter the (Setup) menu to select [Clock Set].

- 1 Press MENU (B) to display the menu.
- 2 After pressing ► on the control button (C), go to the (Setup) setting, then press ► again.
- 3 Select (Setup 2) with ▼, then press ►.
- 4 Select [Clock Set] with ▼, then press ►.
- 5 Select [OK] with ▲, then press ●.

Now you can adjust the date and time.

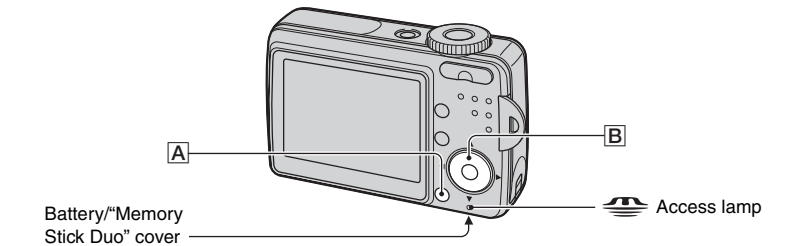
- 1 Select the desired date display format with ▲/▼, then press ●.
  - 2 Select each item with ◀/▶ and set the numeric value with ▲/▼, then press ●.
  - 3 Select [OK] with ►, then press ●.
- To cancel, select [Cancel] and press ●.



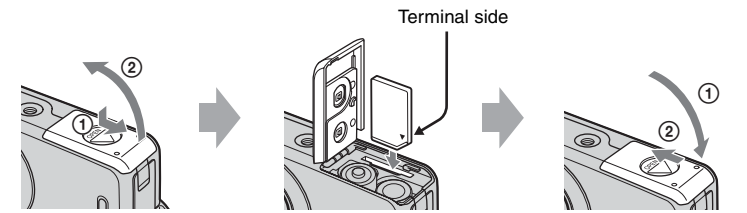
### To turn off the (Setup) menu screen

Press MENU.

## 2 About the "Memory Stick Duo" (not supplied)



### Insert a "Memory Stick Duo"



Insert the "Memory Stick Duo" all the way in until it clicks.

The camera has 10 MB of internal memory. However, purchase of a "Memory Stick Duo" is recommended. Only "Memory Stick Duo" can be used.

The table below shows the approximate total number of still images and approximate movie recording time that can be recorded on the various capacities of "Memory Stick Duo," for reference before purchasing.

**Total number of still images (Image quality is [FINE].) (Units: Images)**

Size	Capacity	Internal memory	64MB	128MB	256MB	512MB
5M		3	24	50	96	191
3:2		3	24	50	96	191
3M		6	39	81	155	308
1M		15	98	201	384	759
VGA (E-Mail)		60	387	789	1503	2972

**Movie recording time (Units: hour : minute : second)**

Size	Capacity	Internal memory	64MB	128MB	256MB	512MB
320 × 240		0:00:30	0:03:17	0:06:38	0:12:50	0:25:24

### To remove a "Memory Stick Duo"

Open the battery/"Memory Stick Duo" cover, then push the "Memory Stick Duo" in once.

### When the access lamp is lit

Never open the battery/"Memory Stick Duo" cover or turn off the power as data may be corrupted.

### Select the image size for still images

The factory setting for image size is [5M]. This setting requires more memory capacity, which reduces the number of images you can take. Set the image size according to purpose.

- 1 Press (Image Size) (A).
- 2 Select the size with ▲/▼ (B).
- 3 Press (Image Size) to complete the setting.

Image size	Guidelines	No. of images	Printing
5M (2592 × 1944) (the default setting)	For printing A4 size or high density images in A5 size	Less	Fine
3:2 (2592 × 1728)*		↕	↕
3M (2048 × 1536)			
1M (1280 × 960)	For printing in postcard size	More	Rough
VGA(E-Mail) (640 × 480)	For recording a larger number of images For attaching images to e-mail or creating web pages		

\* Images are recorded in the same 3:2 aspect ratio as photograph printer paper or postcards, etc.  
• Recordable number of still images vary depending on the image size selected.

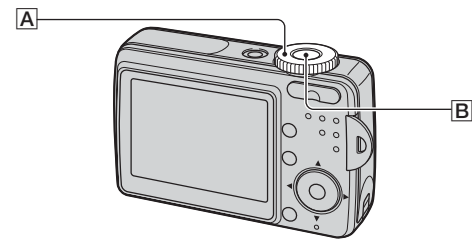
### Battery life and number of images that can be recorded

**When shooting still images**

Battery	No. of images (Approx.)	Battery life (min.) (Approx.)
Alkaline	90	45
Ni-MH (2500 mAh)	350	170

• The measurement method is based on the CIPA standard. (CIPA: Camera & Imaging Products Association)  
• The values shown for alkaline battery are based on commercial norms, and do not apply to all alkaline batteries. The values may vary, depending on the battery manufacturer/type.  
• The supplied alkaline battery is for trial use. The actual values may be smaller than shown in the table, depending on usage environment.

# 3 Shoot images easily (Auto adjustment mode)



## Hold the camera



Position the subject in the center of the focus frame

## Shoot an image

### 1 Select a mode (A).

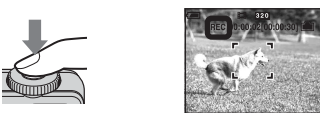
Still image: Select .  
Movie: Select .

### 2 Shoot with the shutter button (B).

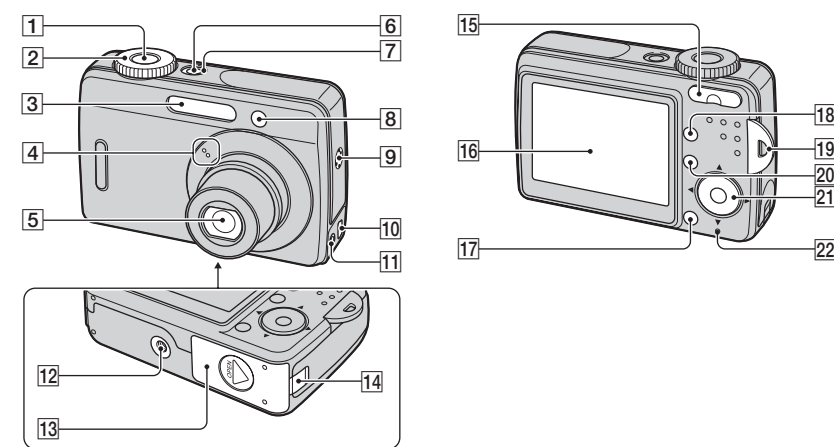
Still image:  
Press and hold halfway down to focus. AE/AF lock indicator Flashing → lit/beeps Press fully down. The shutter sounds.



Movie:  
Press fully down.



## Identifying parts



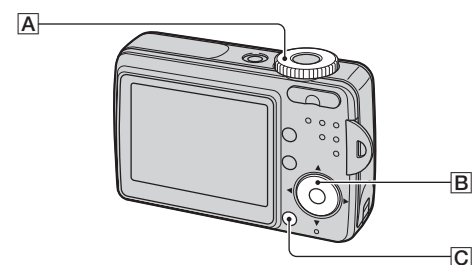
- 1 Shutter button
- 2 Mode dial
- 3 Flash
- 4 Microphone
- 5 Lens
- 6 POWER button
- 7 POWER lamp
- 8 Self-timer lamp
- 9 Buzzer
- 10 (USB) jack
- 11 A/V OUT jack
- 12 Tripod receptacle
- 13 Battery/"Memory Stick Duo" cover
- 14 AC Adaptor cord cover
- 15 For shooting: Zoom (W/T) button  
For viewing: (Playback zoom) button/ (Index) button
- 16 LCD screen
- 17 (Image Size/Delete) button
- 18 (Screen status) button
- 19 Hook for wrist strap
- 20 MENU button
- 21 Control button
- 22 Access lamp

: To shoot movies  
 : To view or edit images

- For details on modes available to shoot still images, see "Using the mode dial to shoot still images" below.

Use a tripod with a screw length of less than 5.5 mm (7/32 inch). You will be unable to firmly secure the camera to tripods having screws longer than 5.5 mm (7/32 inch), and may damage the camera.

# 4 View/delete images



## To view images

- Select (A).
- Select an image with (B).
- Movie only : Press (C).

Rewind/Fast forward: (Return to normal playback: )  
Stop playback:

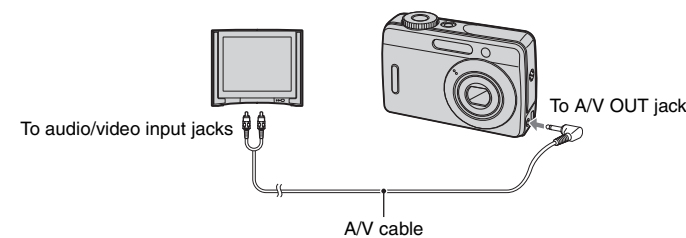
- Sound is not output during movie playback on this camera. Sound can be heard when viewing a movie on a computer or TV.

## To delete images

- Display the image you want to delete and press (Delete) (C).
  - Select [Delete] with , then press (B).
- To cancel the deletion, select [Exit], then press in step 2.

## To view images on a TV screen

You can view images on a TV screen by connecting the camera to a TV.



## Using the zoom button (15)

### To shoot an image using the zoom

Press T (telephoto) to zoom in, or W (wide angle) to zoom out when composing your shot.



- You cannot change the zoom scale while shooting a movie.
- When the zoom scale exceeds 3x, the camera uses [Digital Zoom].

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

While displaying a still image, press to zoom in on the image.

To undo the zoom, press .

Adjust the portion: /▼/▶/▲

Cancel playback zoom:

### Viewing an index screen

While displaying a still image, press (Index), then select an image with /▼/▶/▲.

To return to the single-image screen, press . To display the next (previous) index screen, press /▶.

### To delete images in index mode

- While an index screen is displayed, press (17) and select [Select] with /▼ on the control button, then press .
  - Select the image you want to delete with /▼/▶/▲, then press to display the (Delete) indicator on the selected image.
  - Press .
  - Select [OK] with , then press .
- To delete all the images in a folder, select [All In This Folder] with /▼ in step 1 instead of [Select], then press .
  - To cancel a selection, select an image previously selected for deletion, then press to delete the indicator from the image in step 2.

## Using the control button (21)

### Checking the last still image you shot (Quick Review) (21)

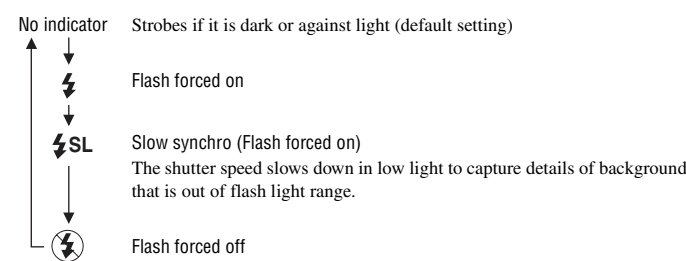
Press on the control button.

To cancel, press again.

- The image may appear rough right after playback starts.
- To delete an image, press (Delete) and select [Delete] with on the control button, then press .

### Selecting a flash mode for still images (4)

Before you shoot, press (4) on the control button repeatedly until the desired mode is selected.



- Shooting distance (when [ISO] is set to [Auto])  
W side: Approx. 0.5 to 2.5 m (19 3/4 to 98 1/2 inches)  
T side: Approx. 0.5 to 2.0 m (19 3/4 to 78 3/4 inches)
- The flash strobos twice. The first time is to adjust flash intensity.
- While charging the flash, is displayed.

### Shooting close-up (Macro) (21)

Before you shoot, press (21) on the control button.

To cancel, press again.

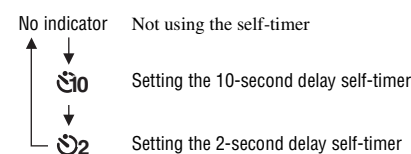
- Setting the zoom all the way to the W side is recommended.
- The in-focus range becomes narrow, and the complete subject may not be entirely in focus.
- The AF speed drops.

### Shortest shooting distance from the lens surface

Setting all the way to the W side: Approx. 5 cm (2 inches)  
Setting all the way to the T side: Approx. 35 cm (13 7/8 inches)

### Using the self-timer (21)

Before you shoot, press (21) on the control button repeatedly until the desired mode is selected.



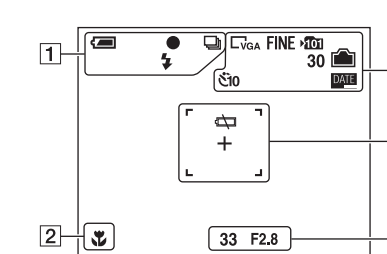
Press the shutter button, the self-timer lamp (8) flashes and a beep sounds until the shutter operates.

To cancel, press again.

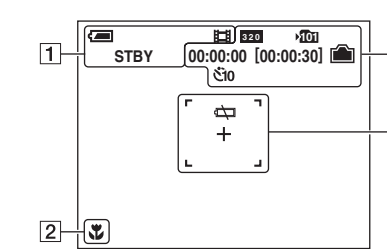
- Use the 2-second delay self-timer to reduce the risk of blur.

## Indicators on the screen

### When shooting still images (Auto adjustment mode)



### When shooting movies (Factory setting)



### 1

Display	Indication
	Battery remaining
	Shutter speed
	AE/AF lock
	Recording mode
STBY REC	Standby/Recording a movie
	Flash mode
	Flash charging

### 2

Display	Indication
	Low battery warning
	AF range finder frame
	Macro

### 3

Display	Indication
	Image size
FINE	Image quality
	Recording folder • This does not appear when using the internal memory.
	Remaining internal memory capacity
	Remaining "Memory Stick" capacity
00:00:00 [00:00:30]	Recording time [maximum recordable time]
30	Remaining number of recordable images
	Self-timer
	Date/Time

### 4

Display	Indication
	Low battery warning
	AF range finder frame

### 5

Display	Indication
33	Shutter speed
F2.8	Aperture value
	Menu (not displayed on the screen shown above)

## Trademarks

- Cybershot is a trademark of Sony Corporation.
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