

SONY®

4-265-633-15(1)

Digital Still Camera

Instruction Manual

Cyber-shot


MEMORY STICK™

LITHIUM ION 
TYPE


CLASS 10

AVCHD

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

DSC-TX100/TX100V

English

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 your Sony dealer regarding this product.

Model No. DSC-TX100/TX100V

Serial No. _____

Model No. AC-UB10/UB10B

Serial No. _____

WARNING

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

IMPORTANT SAFETY INSTRUCTIONS -SAVE THESE INSTRUCTIONS

DANGER

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.

CAUTION

Battery pack

If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.

- Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.
- Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.
- Do not incinerate or dispose of in fire.

- Do not handle damaged or leaking lithium ion batteries.
- Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack.
- Keep the battery pack out of the reach of small children.
- Keep the battery pack dry.
- Replace only with the same or equivalent type recommended by Sony.
- Dispose of used battery packs promptly as described in the instructions.

AC Adaptor

Connect the AC Adaptor to the nearest wall outlet (wall socket).

If some trouble occurs while using the AC Adaptor, immediately shut off the power by disconnecting the plug from the wall outlet (wall socket).

The power cord (mains lead), if supplied, is designed specifically for use with this camera only, and should not be used with other electrical equipment.

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.rbrcc.org/>

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

Battery pack

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.

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

For Customers in the U.S.A.

UL is an internationally recognized safety organization.

The UL Mark on the product means it has been UL Listed.

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-TX100V

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



Hereby, Sony Corporation, declares that this DSC-TX100V Digital Still Camera is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC. For details, please access the following URL:
<http://www.compliance.sony.de/>

Notice for the customers in the countries applying EU Directives

The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

This product has been tested and found compliant with the limits set out in the EMC regulation 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 on 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 more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)



This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.

On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.

By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.



In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely.

Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Notice for customers in the United Kingdom

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.

Refer to “Cyber-shot User Guide” (HTML) on supplied CD-ROM

For details on advanced operations, please read “Cyber-shot User Guide” (HTML) on the CD-ROM (supplied) using a computer.



Insert the CD-ROM into the CD-ROM drive.

For Windows users:

- ① Click [User Guide] → [Install].
- ② Start “User Guide” from the shortcut on the desktop.

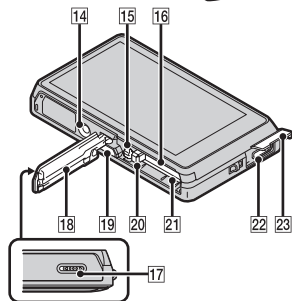
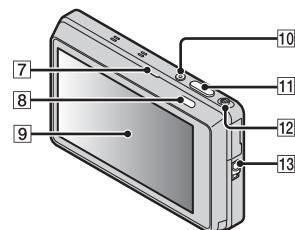
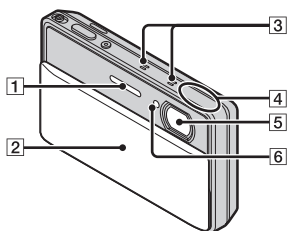
For Macintosh users:

- ① Select the [User Guide] folder and copy [eng] folder stored in [User Guide] folder to your computer.
- ② After copying is complete, double-click “index.html” in [eng] folder.

Checking the supplied items

- Camera (1)
- Rechargeable battery pack NP-BN1 (1)
- Multi-use terminal USB cable (1)
- AC Adaptor AC-UB10/UB10B (1)
- Power cord (mains lead) (not supplied in the USA and Canada) (1)
- Paint pen (1)
- Wrist strap (1)
- CD-ROM (1)
 - Cyber-shot application software
 - “Cyber-shot User Guide”
- Instruction Manual (this manual) (1)

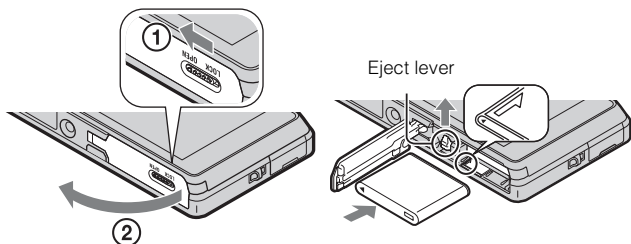
Identifying parts



- 1 Flash
- 2 Lens cover
- 3 Microphone
- 4 GPS sensor (built-in, DSC-TX100V only)

- 5 Lens
- 6 Self-timer lamp/Smile Shutter lamp/AF illuminator
- 7 Speaker
- 8 ▶ (Playback) button
- 9 Screen/Touch panel
- 10 ON/OFF (Power) button
- 11 Shutter button
- 12 For shooting: W/T (Zoom) lever
- 13 Hook for wrist strap
- 14 Tripod receptacle
 - Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure the camera, and damage to the camera may occur.
- 15 Battery eject lever
- 16 Battery insertion slot
- 17 ↗ (TransferJet™) mark
- 18 Battery/memory card cover
- 19 Multi connector (Type3b)
- 20 Access lamp
- 21 Memory card slot
- 22 HDMI connector
- 23 Connector cover

Inserting the battery pack



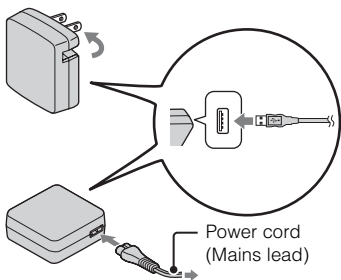
1 Open the cover.

2 Insert the battery pack.

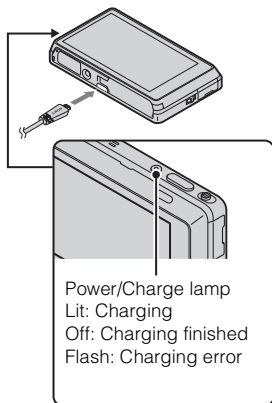
- While pressing the battery eject lever, insert the battery pack as illustrated. Make sure that the battery eject lever locks after insertion.

Charging the battery pack

For customers in the USA,
Canada



For customers in countries/regions
other than the USA and Canada



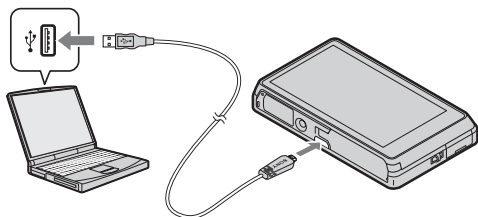
-
- 1 Connect the camera and the AC Adaptor (supplied), using the multi-use terminal USB cable (supplied).
 - 2 Connect the AC Adaptor to the wall outlet (wall socket).
The Power/Charge lamp lights orange, and charging starts.
 - Turn off the camera while charging the battery.
 - You can charge the battery pack even when it is partially charged.
 - When the Power/Charge lamp flashes and charging is not finished, remove and re-insert the battery pack.
-

Notes

- When the Power/Charge lamp on the camera does not lit even if the AC Adaptor is connected to the camera and the wall outlet (wall socket), it indicates that the charging stops temporarily on standby. The charging stops and enters the standby status automatically when the temperature is outside of the recommended operating temperature. When the temperature gets back within the appropriate range, the charging resumes. We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F).
- Connect the AC Adaptor (supplied) to the nearest wall outlet (wall socket). If any malfunctions occur while using the AC Adaptor, disconnect the plug from the wall outlet (wall socket) immediately to disconnect the power source.
- When charging is finished, disconnect the AC Adaptor from the wall outlet (wall socket).
- Be sure to use only genuine Sony brand battery packs, multi-use terminal USB cable (supplied) and AC Adaptor (supplied).

■ Charging by connecting to a computer

The battery pack can be charged by connecting the camera to a computer using a multi-use terminal USB cable.



Note

- Note the following points when charging via a computer:
 - If the camera is connected to a laptop computer that is not connected to a power source, the laptop battery level decreases. Do not charge for an extended period of time.
 - Do not turn on/off or restart the computer, or wake the computer resume from sleep mode when a USB connection has been established between the computer and the camera. The camera may cause a malfunction. Before turning on/off, or restarting the computer or waking the computer from sleep mode, disconnect the camera and the computer.
 - No guarantees are made for charging using a custom-built computer or a modified computer.

■ Charging time

The charging time is approximately 210 min. using the AC Adaptor (supplied).


Note

- The above charging time applies when charging a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take longer depending on conditions of use and circumstances.

Battery life and number of still images you can record and view

	Battery life	Number of images
Shooting (still images)	Approx. 110 min.	Approx. 220 images
Viewing (still images)	Approx. 160 min.	Approx. 3200 images
Shooting (movies)	Approx. 55 min.	—

Notes


- The above number of still images applies when the battery pack is fully charged. The number of still images may decrease depending on the conditions of use.
- The number of still images that can be recorded is for shooting under the following conditions:
 - Using Sony “Memory Stick PRO Duo” (Mark2) media (sold separately)
 - The battery pack is used at an ambient temperature of 25°C (77°F).
 - [GPS setting]: [Off] (DSC-TX100V only)
- The number for “Shooting (still images)” is based on the CIPA standard, and is for shooting under the following conditions:
(CIPA: Camera & Imaging Products Association)
 - [Panel Brightness] is set to [3].
 - 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 battery life for movies applies shooting under the following conditions:
 - Movie quality: AVCHD HQ
 - When continuous shooting ends because of set limits (page 22), touch  (Movie button) again and continue shooting. Shooting functions such as the zoom do not operate.

■ Supplying power

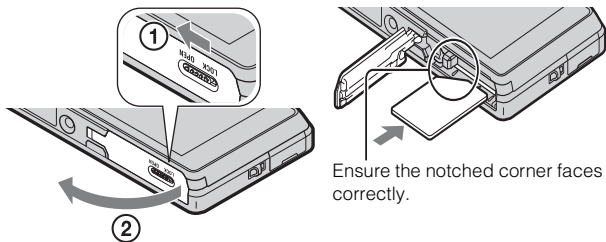
The camera can be supplied with power from the wall outlet (wall socket) by connecting to the AC Adaptor, using the multi-use terminal USB cable (supplied).

You can import images to a computer without worrying about wearing down the battery pack by connecting the camera to a computer using the multi-use terminal USB cable.

Notes

- Power cannot be supplied when the battery pack is not inserted in the camera.
- Power supply from the wall outlet (wall socket) is available only when the camera is in playback mode or when a connection is made between the camera and a computer. If the camera is in shooting mode or while you are changing the settings of the camera, power is not supplied even if you make a USB connection using the multi-use terminal USB cable.
- If you connect the camera and a computer using the multi-use terminal USB cable when the camera is in playback mode, the display on the camera is changed from the playback screen to the USB connection screen. Press  (Playback) button to switch to the playback screen.

Inserting a memory card (sold separately)



1 Open the cover.

2 Insert the memory card (sold separately).

- With the notched corner facing as illustrated, insert the memory card until it clicks into place.

3 Close the cover.

- Closing the cover with the battery inserted incorrectly may damage the camera.

Memory cards that you can use

	Memory card	For still images	For movies
A	Memory Stick PRO Duo	○	○ (Mark2 only)
	Memory Stick PRO-HG Duo	○	○
	Memory Stick Duo	○	—
B	SD memory card	○	○ (Class 4 or faster)
	SDHC memory card	○	○ (Class 4 or faster)
	SDXC memory card	○	○ (Class 4 or faster)

- In this manual, products in A are collectively referred to as “Memory Stick Duo” media, and products in B are collectively referred to as SD card.

To remove the memory card/battery pack

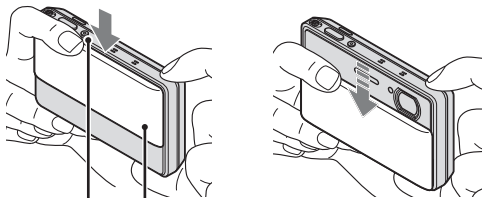
Memory card: Push the memory card in once.

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

Note

- Never remove the memory card/battery pack when the access lamp (page 8) is lit. This may cause damage to data in the memory card/internal memory.

Setting the clock



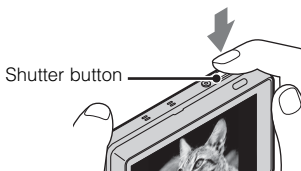
ON/OFF (Power) button Lens cover button

- 1 Lower the lens cover.**

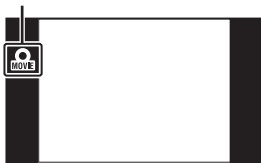
The camera is turned on. The power lamp lights up only when the camera starts up.

 - You can also turn on the camera by pressing the ON/OFF (Power) button.
 - It may take time for the power to turn on and allow operation.
- 2 Select a desired language.**
- 3 Select the desired area following the instructions on the screen, then touch [NEXT].**
- 4 Set [Daylight Savings] or [Summer Time], [Date & Time Format] and [Date & Time], then touch [NEXT].**
 - Midnight is indicated as 12:00 AM, and noon as 12:00 PM.
- 5 Touch [OK].**
- 6 Select the desired display color and [GPS setting] (DSC-TX100V), following the instructions on the screen, then touch [OK].**
 - The battery pack will run out quickly if you set [GPS setting] to [On]. (DSC-TX100V only)
- 7 When an [In-Camera Guide] introductory message is appeared on the screen, touch [OK].**

Shooting still images/movies





Movie button




Shooting still images

- 1 Press the shutter button halfway down to focus.
When the image is in focus, a beep sounds and the ● indicator lights.
- 2 Press the shutter button fully down.

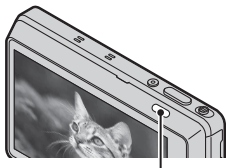
Shooting movies

- 1 Touch  (Movie button) to start recording.
 - Use the W/T (zoom) lever to change the zoom scale.
- 2 Touch  (Movie button) to stop recording.

Note

- Continuous shooting is possible for approximately 29 minutes at one time at the camera's default settings and when the temperature is approximately 25°C (77°F). When movie recording is finished, you can restart recording by touching  (Movie button) again. Recording may stop to protect the camera depending on the ambient temperature.

Viewing images



▶ (Playback)



1 Press the ▶ (Playback) button.

- When images on a memory card recorded with other cameras are played back on this camera, the registration screen for the data file appears.

■ Selecting next/previous image

Touch ▶| (Next) / |◀ (Previous) on the screen.

- To play back movies, touch ◻▶ (Playback) in the center of the screen.
- To zoom in, touch the image being played back.

■ Deleting an image

① Touch ◻ (Delete) → [This Image].

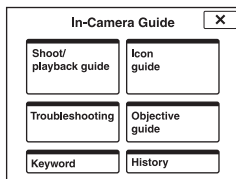
■ Returning to shooting images

Touch ◻.

- You can also return to shooting mode by pressing the shutter button halfway down.

In-Camera Guide

This camera contains an internal function guide. This allows you to search the camera's functions according to your needs.



1 Touch ? (In-Camera Guide).

- The ? mark will appear on the bottom right of the screen while viewing.

2 Select a search method from [In-Camera Guide].

Shoot/ playback guide: Search for various operation functions in shooting/viewing mode.

Icon guide: Search the function and meaning of displayed icons.

Troubleshooting: Search common problems and their solution.

Objective guide: Search functions according to your needs.

Keyword: Search functions by key words.

History: Display the last 10 items displayed in [In-Camera Guide].

Introduction of other functions

Other functions used when shooting or playing back can be operated touching the MENU on the screen. This camera is equipped with a Function Guide that allows you to easily select from the functions. While displaying the guide, try the other functions.



■ Menu Items

Shooting

Movie shooting scene	Select movie recording mode.
Easy Mode	Shoot still images using minimal functions.
Movie button	Shoot movies from all REC modes quickly.
Flash	Sets the flash settings.
Self-Timer	Sets the self-timer settings.
Defocus Effect	Set the level of background defocus effect when shooting in Background Defocus mode.
Still Image Size/ Panorama Image Size/Movie Size/ Movie Quality	Select the image size and the quality for still images, panoramic images or movie files.
Burst Settings	Sets the burst shooting settings.
Macro	Shoots beautiful close-up images of small subjects.
EV	Adjust the exposure manually.
ISO	Adjust the luminous sensitivity.
White Balance	Adjust color tones of an image.
Focus	Select the focus method.

Metering Mode	Select the metering mode that sets which part of the subject to measure to determine the exposure.
Scene Recognition	Set to automatically detect shooting conditions.
Soft Skin Effect	Set the Soft Skin Effect and the effect level.
Smile Shutter	Set to automatically release the shutter when a smile is detected.
Smile Detection Sensitivity	Set the Smile Shutter function sensitivity for detecting smiles.
Face Detection	Select to detect faces and adjust various settings automatically.
Anti Blink	Set to automatically shoot two images and select image in which the eyes are not blinking.
Position Information*	Checking the triangulating status.
In-Camera Guide	Search the camera's functions according to your needs.



* DSC-TX100V only





Viewing

Easy Mode	Increase the text size on the screen for ease of use.
Date Select	Selects the desired image to view by date.
Calendar	Selects the date to be played back on Calendar.
Image Index	Displays multiple images at the same time.
Slideshow	Select a method of continuous playback.
Delete	Delete an image.
Send by TransferJet	Transfer data by closely aligning two products equipped with TransferJet.
Paint	Paints on a still image and saves it as a new file.
Retouch	Retouch an image using various effects.
3D Viewing	Set to play back images shot in 3D mode on a 3D TV.
View Mode	Select the display format for images.
Display Burst Group	Select to display burst images in groups or display all images during playback.

Protect	Protect the images.
Print (DPOF)	Add a print order mark to a still image.
Rotate	Rotate a still image to the left or right.
Volume	Adjusts the volume.
Exposure data	Sets whether or not to display the shooting data (Exif data) of the currently displayed file on the screen.
Number of images in index	Sets the number of images displayed in the index screen.
In-Camera Guide	Search the camera's functions according to your needs.

Setting items

If you touch the MENU while shooting or during playback,  (Settings) is provided as a final selection. You can change the default settings on the  (Settings) screen.

 Shooting Settings	Movie format/AF Illuminator/Grid Line/Digital Zoom/Wind Noise Reduct./Scene Recog. Guide/Red Eye Reduction/Blink Alert/Write Date
 Main Settings	Beep/Panel Brightness/Language Setting/Display color/Demo Mode/Initialize/HDMI Resolution/CTRL FOR HDMI/USB Connect Setting/USB Power Supply/LUN Setting/Download Music/Empty Music/GPS setting ^{*1} /GPS assist data ^{*1} /TransferJet/Eye-Fi/Power Save
 Memory Card Tool ^{*2}	Format/Create REC.Folder/Change REC.Folder/Delete REC.Folder/Copy/File Number
 Clock Settings	Area Setting/Date & Time Setting/Auto Clock ADJ ^{*1} /Auto Area ADJ ^{*1}

^{*1} DSC-TX100V only

^{*2} If a memory card is not inserted,  (Internal Memory Tool) will be displayed and only [Format] can be selected.

Number of still images and recordable time of movies

The number of still images and recordable time may vary depending on the shooting conditions and the memory card.

Still images

(Units: Images)

Size \ Capacity	Internal memory	Memory card
	Approx. 19 MB	2 GB
16M	3	335
VGA	98	9600
16:9(12M)	3	355

Movies

The table below shows the approximate maximum recording times. These are the total times for all movie files. Continuous shooting is possible for approximately 29 minutes. The maximum size of an MP4-format movie file is up to approximately 2 GB.

(h (hour), m (minute))

Size \ Capacity	Internal memory	Memory card
	Approx. 19 MB	2 GB
AVC HD 28M (PS)	—	9 m (9 m)
AVC HD 9M (HQ)	—	25 m (15 m)
MP4 12M	—	20 m
MP4 3M	—	1 h 10 m

The number in () is the minimum recordable time.

- The recordable time of movies varies because the camera is equipped with VBR (Variable Bit-Rate), which automatically adjusts image quality depending on the shooting scene. When you record a fast-moving subject, the image is clearer but the recordable time is shorter because more memory is required for recording. The recordable time also varies depending on the shooting conditions, the subject or the image quality/size settings.

Notes on using the camera

Functions built into this camera


- This manual describes the functions of GPS-compatible/incompatible devices, TransferJet-compatible/incompatible devices, 1080 60p-compatible devices and 1080 50p-compatible devices.

To determine whether your camera supports the GPS function, check the model name of your camera.

GPS-compatible: DSC-TX100V

GPS-incompatible: DSC-TX100

To check if your camera supports the TransferJet function, and whether it is a 1080 60i-compatible device or 1080 50i-compatible device, check for the following marks on the bottom of the camera.

TransferJet-compatible device:  (TransferJet)

1080 60i-compatible device: 60i

1080 50i-compatible device: 50i

- This camera is compatible with 1080 60p movie.
Progressive mode increases resolution over standard interlaced recording mode, resulting in smoother and more realistic images.
- In an airplane, make sure to turn off the camera following cabin announcements.
- Do not watch 3D images shot with this camera for extended periods of time on 3D-compliant monitors.
- When you view 3D images shot with this camera on a 3D-compliant monitors, you may experience discomfort in the form of eye strain, fatigue, or nausea. To prevent these symptoms, we recommend that you take regular breaks. However, you need to determine for yourself the length and frequency of breaks you require, as they vary according to the individual. If you experience any type of discomfort, stop viewing the 3D images until you feel better, and consult a physician as necessary. Also refer to the operating instructions supplied with the device or software you have connected or are using with this camera. Note that a child's eyesight is still at the development stage (particularly children below the age of 6).
Consult a pediatrician or ophthalmologist before letting your child view 3D images, and make sure he/she observes the above precautions when viewing such images.

On GPS-compatible devices (DSC-TX100V only)

- Use GPS in accordance with regulations of countries and regions where you use it.
- If you do not record the direction or location information, set [GPS setting] to [Off].

On use and care

Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping, or stepping on the product. Be particularly careful of the lens.

Notes on recording/playback

- Before you start recording, make a trial recording to make sure that the camera is working correctly.
- The camera is neither dust-proof, nor splash-proof, nor water-proof.
- Avoid exposing the camera to water. If water enters inside the camera, a malfunction may occur. In some cases, the camera cannot be repaired.
- Do not aim the camera at the sun or other bright light. It may cause the malfunction of the camera.
- If moisture condensation occurs, remove it before using the camera.
- Do not shake or strike the camera. It may cause a malfunction and you may not be able to record images. Furthermore, the recording media may become unusable or image data may be damaged.

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 a location that generates strong radio waves, emits radiation or is strongly magnetic place. Otherwise, the camera may not properly record or play back images.
- 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 carrying

Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

Carl Zeiss lens

The camera is equipped with a Carl Zeiss lens which is capable of reproducing sharp images with excellent contrast. The lens for the camera has been produced under a quality assurance system certified by Carl Zeiss in accordance with the quality standards of Carl Zeiss in Germany.

Notes on the screen and lens

- The screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the screen. These dots are a normal result of the manufacturing process, and do not affect the recording.
- The touch panel is less likely to react when gloves are worn.

- If you continue or repeat to display the same image on the screen for a long period of time, the image may be burned into the screen permanently. In order to prevent an image from being burned into the screen, avoid displaying the same image for a long period of time.

On camera's temperature

Your camera and battery may get hot due to continuous use, but it is not a malfunction.

On the overheat protection

Depending on the camera and battery temperature, you may be unable to record movies or the power may turn off automatically to protect the camera.

A message will be displayed on the screen before the power turns off or you can no longer record movies. In this case, leave the power off and wait until the camera and battery temperature goes down. If you turn on the power without letting the camera and battery cool enough, the power may turn off again or you may be unable to record movies.

On charging the battery

If you charge a battery that has not been used for a long time, you may be unable to charge it to the proper capacity.

This is due to the battery characteristics, and is not a malfunction. Charge the battery again.

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 damaged content or recording failure

Sony cannot compensate for failure to record or loss or damage of recorded content due to a malfunction of the camera or recording media, 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. To prevent damage to the finish or casing:

- Do not expose the camera to chemical products such as thinner, benzene, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.

Specifications

Camera

[System]

Image device: 7.77 mm (1/2.3 type)

Exmor R CMOS sensor

Total pixel number of camera:

Approx. 16.8 Megapixels

Effective pixel number of camera:

Approx. 16.2 Megapixels

Lens: Carl Zeiss Vario-Tessar 4× zoom lens

f = 4.43 mm – 17.7 mm (25 mm – 100 mm (35 mm film equivalent))

F3.5 (W) – F4.6 (T)

While shooting movies (16:9):

27 mm – 108 mm

While shooting movies (4:3):

33 mm – 132 mm

SteadyShot: Optical

Exposure control: Automatic exposure, Scene Selection (15 modes)

White balance: Automatic, Daylight, Cloudy, Fluorescent 1/2/3, Incandescent, Flash, One Push

Signal format:

For 1080 50i: PAL color, CCIR standards HDTV 1080/50i, 1080/50p specification

For 1080 60i: NTSC color, EIA standards HDTV 1080/60i, 1080/60p specification

File format:

Still images: JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline) compliant, DPOF compatible
3D still images: MPO (MPF Extended (Disparity Image)) compliant

Movies (AVCHD view): AVCHD format Ver.2.0 compatible

Video: MPEG-4 AVC/H.264

Audio: Dolby Digital 2ch, equipped with Dolby Digital Stereo Creator

• Manufactured under license from Dolby Laboratories.

Movies (MP4 view):

MP4 format

Video: MPEG-4 AVC/H.264

Audio: MPEG-4 AAC-LC 2ch

Recording media: Internal Memory (Approx. 19 MB), “Memory Stick Duo” media, SD cards

Flash: Flash range (ISO sensitivity (Recommended Exposure Index) set to Auto):

Approx. 0.08 m to 5.1 m (3 1/4 inches to 16 feet 8 7/8 inches) (W)

Approx. 0.5 m to 4.0 m (1 feet 7 3/4 inches to 13 feet 1 1/2 inches) (T)

[Input and Output connectors]

HDMI connector: HDMI mini jack

Multi connector: Type3b (AV-out/USB/DC-in):

Video output

Audio output (Stereo)

USB communication

USB communication: Hi-Speed USB (USB 2.0)

[Screen]

OLED:

Wide (16:9), 8.8cm (3.5 type)

Total number of dots:

1 229 760 dots equivalent

[Power, general]

Power: Rechargeable battery pack

NP-BN1, 3.6 V

AC Adaptor AC-UB10/UB10B,
5 V

Power consumption (during shooting):

1.0 W

Operating temperature: 0 °C to 40 °C

(32 °F to 104 °F)

Storage temperature: -20 °C to +60 °C

(-4 °F to +140 °F)

Dimensions (CIPA compliant):

97.0 mm × 58.5 mm × 17.8 mm

(3 7/8 inches × 2 3/8 inches ×

23/32 inches) (W/H/D)

Mass (CIPA compliant) (including NP-

BN1 battery pack, “Memory Stick
Duo” media):

Approx. 147 g (5.2 oz)

Microphone: Stereo

Speaker: Monaural

Exif Print: Compatible

PRINT Image Matching III:

Compatible

AC Adaptor AC-UB10/UB10B

Power requirements: AC 100 V to

240 V, 50 Hz/60 Hz, 70 mA

Output voltage: DC 5 V, 0.5 A

Operating temperature: 0 °C to 40 °C

(32 °F to 104 °F)

Storage temperature: -20 °C to +60 °C

(-4 °F to +140 °F)

Dimensions:

Approx. 50 mm × 22 mm × 54 mm

(2 inches × 7/8 inches ×

2 1/4 inches) (W/H/D)

Mass:

For the USA and Canada: Approx.

48 g (1.7 oz)

For countries or regions other than
the USA and Canada: Approx. 43 g

(1.5 oz)

Rechargeable battery pack**NP-BN1**

Used battery: Lithium-ion battery

Maximum voltage: DC 4.2 V

Nominal voltage: DC 3.6 V

Maximum charge voltage: DC 4.2 V

Maximum charge current: 0.9 A


Capacity:

typical: 2.3 Wh (630 mAh)

minimum: 2.2 Wh (600 mAh)

Design and specifications are subject to
change without notice.

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- Add further enjoyment with your PlayStation®3 by downloading the application for PlayStation®3 from PlayStation®Store (where available.)
- The application for PlayStation®3 requires PlayStation®Network account and application download. Accessible in areas where the PlayStation®Store is available.

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

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