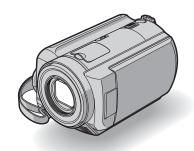
Digital Video Camera Recorder

HVDDYCVM₈

Operating Guide

DCR-SR30E/SR40E/SR50E/

SR60E/SR70E/SR80E



InfoLITHIUM P



Also refer to "Handycam Handbook" (PDF)

By referring to "Handycam Handbook" (PDF) contained in the supplied CD-ROM, you can find more detailed information on how to use the camcorder.



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

http://www.sony.net/



Printed on 100% recycled paper using VOC (Volatile Organic Compound)-free vegetable oil based ink.

Printed in Japan



Read this first

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

WARNING

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

CAUTION

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

FOR CUSTOMERS IN THE UNITED KINGDOM

NOTICE ON THE SUPPLIED AC ADAPTOR

A moulded plug complying with BS1363 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 BS1362 (i.e., marked with replay or replay 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.

FOR CUSTOMERS IN EUROPE

ATTENTION

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

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)



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.

Applicable Accessories: Remote Commander (DCR-SR50E/SR60E/SR70E/ SR80E)

Notice

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

Notes on use

- The camcorder is not dust proofed, drip proofed or waterproofed. See "Precautions" (p.29).
- To prevent the hard disk from being broken or recorded images from being lost, do not remove the battery pack or AC Adaptor from the camcorder when either of the respective lamps of the POWER switch (p.10) or the ACCESS lamp* is on.

On recording

- Before starting to record, test the recording function to make sure the image and sound are recorded without any problems.
- Compensation for the contents of recordings cannot be provided, even if recording or playback is not possible due to a malfunction of the camcorder.
- TV color systems differ depending on the countries/regions. To view your recordings on a TV, you need a PAL system-based TV.
- Television programs, films, video tapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the copyright laws. You cannot dub copyright protected software on your camcorder.

Save all your recorded image data

- In the case of your image data being damaged, save all your recorded images. It is recommended that you save the image data on a DVD using your computer*. Also, you can save it using VCR/DVD device*.
- It is recommended that you save your image data periodically after recording.

Do not apply shock or vibration to your camcorder

 The hard disk of the camcorder may not be recognized, or recording or playback may not be possible.

On the drop sensor

 To protect the internal hard disk from the shock by dropping, the camcorder has the drop sensor function*. When a drop occurs, or under a nongravity condition, the block noise to protect the camcorder may also be recorded. If the drop sensor catches a drop repeatedly, recording/play back may be stopped.

Note on operational temperatures

 When the temperature of the camcorder becomes extremely high or extremely low, you may not record or playback the camcorder to provide protection to the camcorder. In case of this, a message appears on the LCD screen (p.27).

Note on connecting the camcorder to a computer

 Do not format the hard disk of the camcorder using the computer. It may not operate correctly.

Note on using the camcorder in highlands

 Do not turn on the camcorder in a low-pressure area, where its altitude is more than 3,000 meters (9,800 feet). This may damage the hard disk drive of your camcorder.

Note on disposal/transfer

If you perform [HDD FORMAT]* or formatting
the camcorder, you may not delete data from the
hard disk completely. When you transfer the
camcorder, it is recommended that you perform
[EMPTY HDD]* to make it difficult to recover
your data. In addition to the above, when you
dispose of the camcorder, it is recommended that
you destroy the actual body of the camcorder. This
may prevent data recovery on the hard disk of the
camcorder.

On this manual

- The images of the LCD screen used on this manual are captured using a digital still camera, and thus may appear different from what you see.
- The illustrations used on this manual are based on the model DCR-SR80E.
- The on-screen displays in each local language are used for illustrating the operating procedures.
 Change the screen language before using your camcorder if necessary.*
- The screenshots in this manual are from Windows XP. The scenes may vary depending on the operating system of the computer.
- * Refer to "Handycam Handbook" (PDF).

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Step 1: Checking supplied items

Make sure that you have following items supplied with your camcorder.

The number in the parentheses indicates the number of that item supplied.

AC Adaptor (1) (p.8)



Mains lead (1) (p.8)



Handycam Station (1) (p.8)



A/V connecting cable (1) (p.18)



USB cable (1)



Wireless Remote Commander (1) (DCR-SR50E/SR60E/SR70E/SR80E)



A button-type lithium battery is already installed.

Rechargeable battery pack NP-FP50 (1) (p.9)



Lens Cap (1) (p.10) (DCR-SR30E/SR40E)



To attach the lens cap



Thread the grip belt through the lens cap ring.

CD-ROM (1) (p.19)

- "ImageMixer for HDD Camcorder" (Software)
- "Handycam Handbook" (PDF)

"Operating Guide" (This manual) (1)

21-pin adaptor (1)

For the models with the CE mark printed on their bottom surfaces only.

On the Remote Commander (DCR-SR50E/SR60E/SR70E/SR80E)

Using the Remote Commander for the first time

Remove the insulation sheet before using the Remote Commander.



To change the battery of the Remote Commander

- 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 Commander until it clicks.

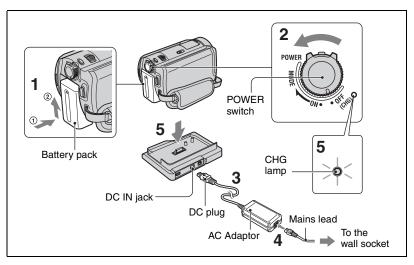


WARNING

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

- A button-type lithium battery (CR2025) is used in the Remote Commander. Do not use batteries other than the CR2025.
- When the lithium battery becomes weak, the operating distance of the Remote Commander may shorten, or the Remote Commander 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.

Step 2: Charging the battery pack



You can charge the battery after attaching the "InfoLITHIUM" battery pack (P series) to your camcorder.

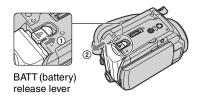
- 1 Slide the battery pack in the direction of the arrow until it clicks.
- 2 Slide the POWER switch in the direction of the arrow to set it to OFF (CHG) (The default setting).
- 3 Connect the AC Adaptor to the DC IN jack on the Handycam Station. Be sure that the ▲ mark on the DC plug is facing up.
- 4 Connect the mains lead to the AC Adaptor and the wall socket.

5 Set the camcorder onto the Handycam Station securely.

The CHG (charge) lamp lights up and charging starts. The CHG (charge) lamp turns off when the battery pack is fully charged. Remove the camcorder from the Handycam Station.

To remove the battery pack

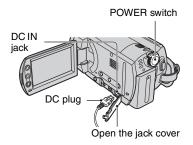
Slide the POWER switch to OFF (CHG). Slide the BATT (battery) release lever and remove the battery pack.



 When you remove the battery pack, make sure that none of the respective lamps of the POWER switch (p.10) is on.

To charge the battery pack using only the AC Adaptor

Slide the POWER switch up to OFF (CHG), then connect the AC Adaptor directly to the DC IN jack on the camcorder.



Available running time for the supplied battery pack NP-FP50

Charging time:

Approximate time (min.) required when you fully charge a completely exhausted battery pack.

Recording/Playback time:

Approximate time (min.) available when you use a fully charged battery pack.

(Unit:min.)

	DCR-SR30E/ SR40E	DCR-SR50E/ SR60E/ SR70E/SR80E
Charging time	125	125
Recording time*1		
Continuous recording time	125	100* ² 110* ³
Typical recording time*4	65	55* ² 60* ³
Playback time	140	120* ²

^{*1} When [REC MODE] is set to [HQ].

*4 Typical recording time shows the time when you repeat recording start/stop, turning the power on/ off and zooming.

On the battery pack

- Before changing the battery pack, slide the POWER switch to OFF (CHG).
- The power will not be supplied from the battery as long as the AC Adaptor is connected to the DC IN jack of your camcorder, even when the mains lead is removed from the wall socket

On the charging/recording/playback time

- Times measured with the camcorder at 25°C (77°F). (10-30°C (50-86°F) is recommended.)
- Available recording and playback time will be shorter when you use your camcorder in low temperatures.
- The available recording and playback time will be shorter depending on the conditions under which you use your camcorder.

On the AC Adaptor

- Connect the AC Adaptor to an easily accessible wall socket close by. If any trouble occurs while using the adaptor, immediately shut off the power by removing the plug from the wall socket.
- Do not use the AC Adaptor placed in a narrow space, such as between a wall and furniture.
- Do not short-circuit the DC plug of the AC Adaptor or battery terminal with any metallic objects. This may cause a malfunction.

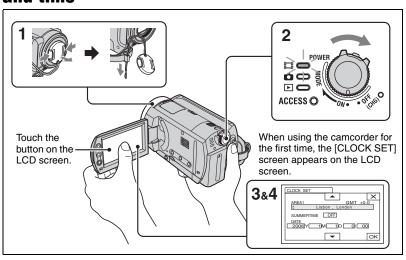
PRECAUTION

• Even if your camcorder is turned off, AC power (mains) is still supplied to it while connected to the wall socket via the AC Adaptor.

^{*2} When the LCD backlight turns on.

^{*3}When the LCD backlight turns off.

Step 3: Turning the power on and setting the date and time



- 1 Remove the lens cap by pressing both tabs on the sides of the cap. Pull the lens cap string down until stopped by the grip belt (DCR-SR30E/SR40E).
- 2 Turn on the power by sliding the POWER switch in the direction of the arrow while pressing the green button in the center.

When you record or play back an image, slide the POWER switch in the direction of the arrow repeatedly until the respective lamp lights up.

(Movie): To record movies
(Still): To record still images

(PLAY/EDIT): To play back images on your camcorder, or to edit/delete them

The clock starts.

minute.

 The recording date and time are not displayed during recording but are automatically recorded onto the hard disk and displayed during playback

4 Set [SUMMERTIME], [Y] (year), [M]

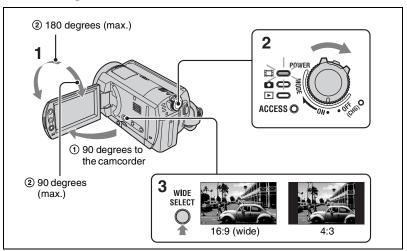
(month), [D] (day), hour and

(see "Handycam Handbook" (PDF)). When resetting the date and time

You can set the desired date and time by touching $\boxed{\text{PMENU}} \rightarrow [\text{SETUP}] \rightarrow \\ \bigcirc \boxed{\text{TIME/LANGU}} \rightarrow [\text{CLOCK SET}]$ (p.22).

3 Select the desired geographical area with \(\blacksim \rightarrow \rightarrow \), then touch \(\opi \kappa \rightarrow \).

Step 4: Making setting adjustments before recording

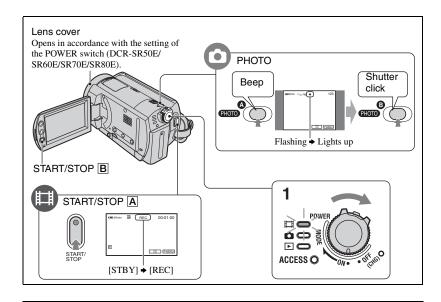


- 1 Open the LCD screen 90 degrees to the camcorder (①), then rotate it to the best angle to record or play (②).
- 2 Slide the POWER switch in the direction of the arrow repeatedly until the respective lamp lights up.
 - (Movie):To record movies
 - (Still):To record still images
 - When you turn on (Still), the screen aspect ratio is changed to 4:3 automatically.
- 3 Press WIDE SELECT repeatedly to select the desired screen aspect ratio (DCR-SR50E/SR60E/SR70E/ SR80E).

4 Fasten the grip belt and hold your camcorder correctly.



Recording



1 Slide the POWER switch in the direction of the arrow repeatedly until the respective lamp lights up.

Press the green button only when the POWER switch is in the OFF (CHG) position.

2 Start recording.

間 Movies Press START/STOP A (or B).

To stop recording, press START/STOP again.

Still Images

Press PHOTO lightly to adjust the focus **(A)**, then press it fully **(B)**.

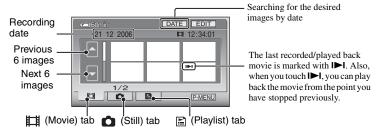
A shutter sound is heard. When **IIII** disappears, the image has been recorded.

- If the ACCESS lamp is on after recording is finished, it means data is still being written onto the hard disk.
 Do not apply shock or vibration to your camcorder, and do not remove the battery pack or AC Adaptor.
- · You cannot record movies and still images at the same time.
- The maximum continuous recordable time is approximately 13 hours.

Playback

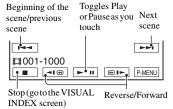
1 Slide the POWER switch repeatedly to light up the ▶ (PLAY/EDIT) lamp.

The VISUAL INDEX screen appears on the LCD screen.



2 Start playback.

Ⅲ Movies

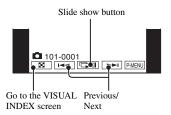


When playback from the selected movie reaches the last movie, the screen returns to the VISUAL INDEX screen

- Touch ◄١ⓓ /❷▶ during pause to play back movie slowly.
- One touch of
 |@]
 makes the reverse/ fast forward approximately five times faster, two touches make it approximately 10 times faster, three touches make it approximately 30 times faster, four touches make it approximately 60 times faster.

Still Images

Touch (Still) tab and the still image to be played back.



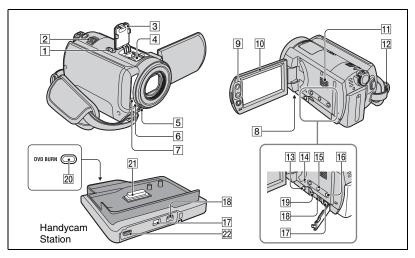
 The ACCESS lamp either lights or flashes when image data is read from the hard disk drive of the camcorder

To adjust the volume

Touch $\boxed{\text{P-MENU}} \rightarrow [\text{VOLUME}]$, then adjust it with $\boxed{-}/\boxed{+}$.

• If you cannot find [VOLUME] in P-MENU, touch [SETUP] (p.22).

Parts and functions used for the camcorder



Recording

1 NIGHTSHOT PLUS switch

To record in dark places, set the NIGHTSHOT PLUS switch to ON. (and ["NIGHTSHOT PLUS"] appear.)

2 Power zoom lever

To use zoom, move the power zoom lever. Move the power zoom lever slightly for a slower zoom. Move it further for a faster zoom.

W:Wide

Wider range of view

T:Telephoto

Close view

5 Built-in stereo microphone

Records sound.

6 Remote sensor (DCR-SR50E/SR60E/SR70E/SR80E)

Receive the signal from the Remote Commander

7 Recording lamp (DCR-SR50E/SR60E/SR70E/SR80E)

The recording lamp lights up red during recording. The lamp flashes when the remaining capacity for the battery or the hard disk of the camcorder is running low.

8 Tripod receptacle (Bottom surface)

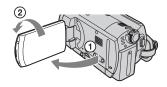
To use a tripod, attach the tripod (optional: the length of the screw must be less than 5.5 mm) to the tripod receptacle using a tripod screw.

9 Zoom buttons

Press for zooming in/out.

10 LCD screen

To record in mirror mode, open the LCD screen 90 degrees to the camcorder (①), then rotate it 180 degrees to the lens side (②).



12 Shoulder belt hook

To attach the shoulder belt, attach the shoulder belt (optional) with your camcorder to the shoulder belt hook.

13 BACK LIGHT button

To adjust the exposure for backlit subjects, press BACK LIGHT to display ፟
☐. To cancel the back light function, press BACK LIGHT again.

14 RESET button

To initialize the settings (Reset), press RESET to initialize all the settings, including settings for date and time.

15 DISP/BATT INFO button

You can change the settings for the screen display settings or check the remaining battery power.

16 EASY button

By pressing the EASY button, most of the settings on the camcorder will be automatically operated. In this way, you can use the camcorder with simple operation (Easy Handycam operation). During Easy Handycam operation, you may not use some of the buttons on the camcorder.

Playback

- 2 Power zoom lever
- 9 Zoom buttons

You can magnify images from about 1.1 to 5 times the original size (Playback zoom).

- 1 Play back the image you want to magnify.
- ② Magnify the image with T (Telephoto). A frame appears on the LCD screen.
- 3 Touch the portion you want to display in the center of the LCD screen.
- Adjust the magnification with W (Wide angle)/T (Telephoto).

To cancel, touch [END].

11 Speaker

Sound comes out from the speaker while playing back.

16 EASY button

Refer to the instructions on EASY button in "Recording".

Connecting to other devices

17 18 19 Open the jack cover.

3 Shoe cover (DCR-SR50E/SR60E/SR70E/SR80E)

Open when using Active Interface Shoe.

4 Active Interface Shoe A Active Interface Shoe (DCR-SR50E/SR60E/SR70E/SR80E)

The Active Interface Shoe supplies power to optional accessories such as a video light, a flash, or a microphone. The accessory can be turned on or off as you operate the POWER switch on your camcorder.

17 DC IN jack

Connect to the DC plug of the AC Adaptor.

18 A/V (audio/video) jack

Connect with the A/V connecting cable.

19 REMOTE jack (DCR-SR50E/SR60E/SR70E/SR80E)

Connect other optional accessories.

20 DVD BURN button

Create a DVD by connecting the camcorder to a computer.

21 Interface connector

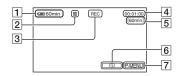
Connect with the camcorder and the Handycam Station.

22 🖞 (USB) jack

Connect with the USB cable.

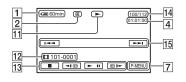
Indicators displayed during recording/playback

Recording movies



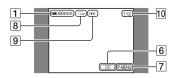
- 1 Remaining battery (approx.)
- 2 Recording mode (HQ / SP / LP)
- Recording status ([STBY] (standby) / [REC] (recording))
- 4 Counter (hour: minute: second)
- **5** Remaining recordable time of movies
- 6 Review button
- 7 Personal Menu button

Viewing movies



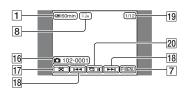
- 11 Playback mode
- 12 Recording folders/files
- 13 Video operation buttons
- 14 Number of played back movies/Total number of recorded movies
- 15 Previous/Next button

Recording still images



- 8 Image size (DCR-SR50E/SR60E/ SR70E/SR80E)
- 9 Quality ([FINE] / [STD])
- 10 Number of recordable still images

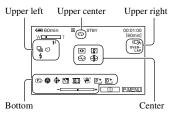
Viewing still images



- 16 Recording folders/files
- 17 VISUAL INDEX button
- 18 Previous/Next button
- 19 Number of played back still images /Total number of recorded still images
- 20 Slide show button

Indicators on the LCD screen

When you can change the setup items, or during recording or playback, following indicators are displayed.



Upper left

Indicator	Meaning
ଧ	Self-timer recording
□ BRK	Continuous photo recording /Bracket recording
⊙ 4 4+ 4- ⑤	Flash light
i↓	MICREF LEVEL low

Upper center

Indicator	Meaning
¢Þ	Repeat of Slide show

Upper right

Indicator	Meaning
WHITE BLACK FADER FADER OVER- LAP WIPE	Fader
∃C) _{FF}	LCD backlight off
OFF	Drop sensor off
Ö	Drop sensor

Center

Indicator	Meaning
•	NightShot plus
So	Super NightShot plus
	Color Slow Shutter
~	PictBridge connecting
	Warning

Bottom

Indicator	Meaning
P +	Picture effect
□ *	Digital effect
€ 🛦 🛔	Manual focus
8 ♣ ⅓ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ♦ ↑ ♠ ↑ ♠ ↑ ♠ ↑ ♠ ↑ ↑ ↑ ↑	PROGRAM AE
3 5	Backlight
* ☆ ⊾	White balance
16:9	WIDE SELECT
(W) OFF	SteadyShot off
+	Flexible spot meter / Exposure

DATA CODE while recording

The recording date and time are recorded automatically. They are not displayed while recording. However, you can check them as [DATA CODE] during playback.

Deleting images

- 1 Select the 間 (Movie) tab or the (Still) tab on the VISUAL INDEX screen.
- 2 Touch [EDIT] → [DELETE], then select the image to be deleted.

The selected image is marked with ✓.

3 Touch $\bigcirc K \rightarrow [YES]$.

To delete all movies or still images at once

Touch [EDIT] \rightarrow [DELETE ALL] in step 2, then follow the on-screen instructions.

Deleting images by date

- ① Touch [DATE] on the VISUAL INDEX screen, then touch the Previous/Next Date button to select the date of the desired image.
- ② Touch $\bigcirc K \rightarrow [EDIT] \rightarrow [DELETE DATE] \rightarrow [YES].$

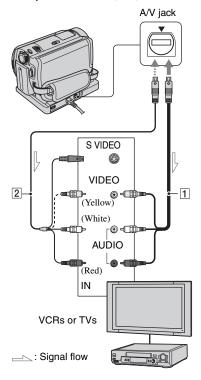
Deleting the last scene

You can check the last recorded movie/still image. Also, you can delete the checked images.

- ① Slide the POWER switch to light up the [1] (Movie) or (Still) lamp, then touch [5].
- ② Touch Tim → [YES].

Playing the image on a TV

Connect your camcorder to the input jack of TV or VCR using A/V connecting cable 1 (supplied) or A/V connecting cable with S VIDEO 2 (optional). For details, see "Handycam Handbook" (PDF).



Performing with a computer

In the supplied CD-ROM, the following items are contained:

- "ImageMixer for HDD Camcorder" (Software)
 Software to help you view/edit/create
 DVD on a computer connected to the camcorder.
- -"Handycam Handbook" (PDF) Handbook to introduce how to use the camcorder.

Install the above on a computer by following the steps below.

Viewing "Handycam Handbook" (PDF)

To view "Handycam Handbook," you need to install Adobe Reader on your computer.

■ For Windows user

- 1 Turn on the computer.
- ② Place the CD-ROM (supplied) on the disc drive of your computer.

The select screen for installation appears.



③ Click [Handycam Handbook]. The installation screen for "Handycam Handbook" appears.



- Select desired language and select the model name of your Handycam.
- Click [Handycam Handbook (PDF)].
 Installation starts. When the installation is completed, the short-cut icon of "Handycam Handbook" appears on the desktop of your computer.

- The model name of your Handycam is printed on its bottom surface.
- ⑥ Click [Exit] → [Exit], then remove the CD-ROM from the disc drive of your computer.

For Macintosh user

- 1 Turn on the computer.
- ② Place the CD-ROM (supplied) on the disc drive of your computer.
- ③ Open the [Handbook] folder in the CD-ROM, double-click the [GB] folder and then drag-and-drop the "Handbook.pdf" on the computer.

After having the software installed, doubleclick "Handbook.pdf", you can view the handbook.

Installing the supplied software

The supplied software "ImageMixer for HDD Camcorder" is not compatible with a Macintosh.

To use the camcorder connecting with a Macintosh, apply the compliant software introduced on the following website.

 The system requirements for Macintosh are also shown on the website.

Pixela home page:

http://www.pixela.co.jp/oem/sony/e/ Compliant Software:

- -Capty MPEG Edit EX (Video editing software)
- -Capty DVD/VCD 2 (DVD authoring software)

System requirements

When using the supplied software, you need the following system requirements below.

- OS: Windows 2000 Professional (Service Pack 3 or later) / Windows XP Home Edition/Windows XP Professional
 - Standard installation is required. Operation is not assured if the above OS has been upgraded.

- **CPU**: Intel Pentium III 800 MHz or faster (Pentium 4 1.7 GHz or faster recommended), or the equivalent CPU
- **Application:** DirectX 9.0c or later (This product is based on DirectX technology. It is necessary to have DirectX installed.)
- **Sound system :** 16 bit stereo sound card and stereo speakers
- **Memory:** For Windows 2000 Professional: 128 MB or more (256 MB or more recommended)

For Windows XP Home Edition / Professional Edition: 256 MB or more (512 MB or more recommended)

Hard Disk: Available memory required for installation: 300 MB or more

Available free hard disk space for operations required: 14 GB or more (for dual layer DVD system, 28 GB or more required)

- When copying images to a computer, more available disk space required for saving image data than shown above.
- **Display:** 4MB VRAM video card, Minimum 1024 × 768 dots, High color (16 bit color, 65 000 colors). This product will not operate correctly at less than 800 × 600 dots, and 256 colors or less.
- **USB port :** As standard equipment (USB 2.0 recommended)
 - The camcorder is compatible with Hi-Speed USB (USB2.0). You can transfer data at a faster rate using a computer compatible with Hi-Speed USB (USB2.0). When you connect a USB interface not compatible with Hi-Speed USB (USB2.0), the data transfer ratio will be that of USB1.1 (USB full speed).

Disc Drive: A DVD writable drive

 Operations are not guaranteed on any computers fulfilling the above system requirements.

■ Installing software

You need to install the software to your Windows computer. The installation is only required once.

- ① Confirm that your camcorder is not connected to the computer.
- 2 Turn on the computer.
 - · Log on as Administrators for installation.
 - Close all the applications running on the computer before installing the software.
- ③ Place the CD-ROM (supplied) on the disc drive of your computer.

The select screen for installation appears.

4 Click [ImageMixer for HDD Camcorder]. The installation screen appears.



If the screen does not appear, follow the steps

- Click [start], then click [My Computer] (For Windows 2000, double-click [My Computer] on the desktop.)
- 2Double-click [CAMCORDERSOFT (E:)] (CD-ROM)*
 - * Drive names (such as (E:)) vary depending on the computer.
- 3 Double-click [install.exe].
- (5) Click [Install].
- (6) Select the language for the application to be installed, then click [Next].
- (7) Click [Next].
- (8) Read [License Agreement], check [I accept the terms of the license agreement] when you agree, then click [Next].



Select a folder to save the software, then click [Next].



10 Select [PAL], then click [Next].



① Click [Install] on the [Ready to Install the Program] screen.



The installation for "ImageMixer for HDD Camcorder" starts

- ① If the [Installing Microsoft ® DirectX ®] screen is displayed, follow the steps below to install DirectX 9.0c. If not, skip to step ③.
 - Read [License Agreement], then click [Next].



2Click [Next].



3Click [Finish].



Make sure [Yes, I want to restart my computer now.] is checked, then click [Finish].



The computer turns off once, then starts up again automatically (Restart).

When you complete the installation, the shortcut icons for [4] [ImageMixer for HDD Camcorder] and [ImageMixer destination folder] appear on the desktop of your computer.



Remove the CD-ROM from the disc drive of your computer.

Performing various functions - Setup

1 Slide the POWER switch in the direction of the arrow repeatedly until the respective lamp lights up.



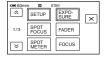
${f 2}$ Touch the LCD screen to select the setup item.

Unavailable items will be grayed out.

To use the short-cuts of Personal Menu

On Personal Menu, short-cuts for frequently used setup items are added.

- For details, see "Handycam Handbook" (PDF).
- 1 Touch P-MENU.



- ② Touch the desired setup item.

 If the desired setup item is not displayed on the screen, touch 🍙/🖫 until it is displayed.
- Select the desired setting, then touch OK.

■ To change the setup items

You can customize setup items that are not added to Personal Menu.

- 1 Touch P-MENU → [SETUP].
- ② Select the desired setup item.

 Touch ▲/▼ to select the item, then touch OK. (The process in step ③ is the same as that in step ②.)
- 3 Select the desired item.
 - You can also touch the item directly to select it.
- (4) Customize the item.

After finishing the settings, touch

OK → X (close) to hide the setup

screen

If you decide not to change the settings, touch to return to the previous screen.

■ To change the setup items during Easy Handycam operation

PMENU does not appear during Easy Handycam operation. Touch [SETUP], available setup items appear.

Setup items

Available setup items vary depending on the operating mode. **Unavailable items will be grayed out on the LCD screen of the camcorder.** For details, refer to "Handycam Handbook" (PDF).

CAMERA SET

PROGRAM AE: Records images effectively in various situations.

SPOT METER: Adjusts and fix the exposure to a subject.

EXPOSURE: Fixes the brightness of an image.

WHITE BAL.: Adjusts the color balance to the brightness of the recording environment.

AUTO SHUTTER: Automatically activates the electronic shutter to adjust the shutter speed.

SPOT FOCUS: Selects and adjusts the focal point to aim it to at a subject not located in

the center of the screen.

FOCUS: Adjusts the settings to have focused on a subject.

Adjusts various settings for using an external flas

FLASH SET *1: Adjusts various settings for using an external flash.

SUPER NSPLUS: Records an image in a higher sensitivity than NightSho

SUPER NSPLUS: Records an image in a higher sensitivity than NightShot plus.

NS LIGHT: Records clearer images with the light which emits infrared light w

LIGHT: Records clearer images with the light which emits infrared light while

using NightShot plus.

COLOR SLOW S: Records an image brighter in color even in dark places.

SELF-TIMER: Selects whether to set the self-timer for shooting a still image.

SELF-TIMER: Selects whether to set the self-timer for recording a movie.

DIGITAL ZOOM: Selects the zoom level using digital zoom.

WIDE SELECT *2: Sets the screen aspect ratio matching a TV screen.

STEADYSHOT: Prevents an image from being blurred.

STILL SET

■BURST *1: Records several still images one after another.
■QUALITY: Selects the quality for recording a still image.

■ IMAGE SIZE *1: Selects the size for recording a still image.

PICT.APPLI.

FADER: Selects whether to fade in/out adding various effects.

D.EFFECT: Records additional digital effects.
PICT.EFFECT: Records adding special picture effects.

REC CTRL *3: Displays operating buttons when recording an image saved on other

device on the camcorder.

USB SELECT *4: Selects a function for connecting the camcorder with a computer/printer.

DEMO MODE: Displays the demonstration of the functions on the camcorder.

HDD SET

HDD FORMAT: Initializes the hard disk drive.

HDD INFO: Displays free hard disk space of the hard disk drive.

DROP SENSOR: Deactivates the camcorder when detecting a drop for data protection.

EMPTY HDD: Prevents data on the hard disk drive from being recovered.

 Displays this item only when the camcorder is turned on by pressing DISP/ BATT INFO, with the AC Adaptor connected to the camcorder.

STANDARD SET

REC MODE: Selects image quality of a movie.

VOLUME: Adjusts the volume during a movie playback.

MULTI-SOUND: Selects whether to play audio with dual sound or stereo sound.

MICREF LEVEL *1: Selects the microphone level for recording sound.

LCD SET: Sets various settings for the LCD screen.

TV TYPE *1: Selects the aspect ratio of an image output from the camcorder.

USB SPEED: Selects the speed for data transfer via USB connection.

DATA CODE: Displays date and time and camera data during playback.

□ DISPLAY: Selects a number of thumbnails on the VISUAL INDEX display.

EIREMAINING: Selects whether to display the remaining hard disk free space for a movie

recording.

REMOTE CTRL *1: Select whether to receive remote control signals or not.

REC LAMP *1: Selects whether to light up the REC lamp on the front panel of the

camcorder.

BEEP: Selects whether to emit a beep during operation.

DISP OUTPUT: Selects whether to show a display such as a counter on the LCD screen

or on a TV.

SETUP ROTATE: Select whether to scroll up or down the setup items.

A.SHUT OFF: Automatically turns off the camcorder when it is not operated.

CALIBRATION: Adjusts the sensibility for the touch panel.

On TIME/LANGU.

CLOCK SET: Select date and time.

AREA SET: Adjust a time difference without stopping the clock abroad.

SUMMERTIME: Selects whether to set summer time.

LANGUAGE: Selects the language to be used on the LCD screen.

^{*1} DCR-SR50E/SR60E/SR70E/SR80E

^{*2} DCR-SR30E/SR40E

^{*3} DCR-SR60E/SR80E

^{*4 [}USB SELECT] appears automatically when your camcorder is connected to a computer or other device with the USB cable.

Troubleshooting

If you run into any problems using your camcorder, refer to the following table to troubleshoot them. If your problem persists, remove the power source and contact with your Sony dealer.

Note before sending your camcorder for repair

- Your camcorder may be required to initialize or change the current hard disk of the camcorder, depending
 on the problem. In the event of this, the data stored on the hard disk will be deleted. Be sure to save (backup)
 the data on the hard disk (see "Handycam Handbook" (PDF)) on the other media before sending your
 camcorder to repair. We cannot guarantee any loss of your hard disk data.
- During repair, we may check a minimum amount of data stored on the hard disk in order to improve the condition. However, your Sony dealer will neither copy nor save your data.

The camcorder does not operate even when the power is set to on.

- Remove the AC Adaptor from the wall socket or remove the battery pack, then reconnect it
 after about one minute. If the functions still do not work, press the RESET button (p.15) using
 a sharp-pointed object. (If you press the RESET button, all settings are reset, except the Personal
 Menu items.)
- The temperature of your camcorder is extremely high. Turn off your camcorder and leave it for a while in a cool place.
- The temperature of your camcorder is extremely low. With POWER switch turned on, leave
 the camcorder for a while. If you still cannot operate the camcorder, turn it off, taking it to a
 warm place. Leave the camcorder there for a while, then turn on the camcorder.

Buttons do not work.

 During Easy Handycam operation, available buttons are limited. Cancel Easy Handycam operation. For details on Easy Handycam operation, refer to "Handycam Handbook" (PDF).

The power does not turn on.

- The battery pack is not attached to the camcorder. Attach a charged battery pack to the camcorder (p.8).
- The battery pack is discharged or running low. Charge the battery pack (p.8).
- The plug of the AC Adaptor has been removed from the wall socket. Connect it to the wall socket (p.8).
- Set the camcorder onto the Handycam Station securely (p.8).

The power abruptly turns off.

- When approximately five minutes have elapsed while you do not operate your camcorder, the camcorder is automatically turned off (A.SHUT OFF). Change the setting of [A.SHUT OFF], or turn on the power again, or use the AC Adaptor.
- The battery pack is discharged or running low. Charge the battery pack (p.8).

Pressing START/STOP or PHOTO does not record movies/still images.

- Slide the POWER switch to light up the [1] (Movie) or the (Still) lamp (p.10).
- Your camcorder is recording the image you have just shot on the hard disk of the camcorder. You cannot press PHOTO while [CAPTURE] or [[[[]]]] appears on the LCD screen.
- The hard disk of the camcorder is full. Delete unnecessary images. Or perform [HDD FORMAT].
- The temperature of your camcorder is extremely high. Turn off your camcorder and leave it for a while in a cool place.
- The temperature of your camcorder is extremely low. With POWER switch turned on, leave
 the camcorder for a while. If you still cannot operate the camcorder, turn it off, taking it to a
 warm place. Leave the camcorder there for a while, then turn on the camcorder.

The recording stops.

- The temperature of your camcorder is extremely high. Turn off your camcorder and leave it for a while in a cool place.
- The temperature of your camcorder is extremely low. Turn off the camcorder and take it to a warm place. Leave the camcorder there for a while, then turn on the camcorder.
- The maximum continuous recordable time is approximately 13 hours.

Setup items are grayed out.

• You cannot select grayed out items in the current situation.

The beep sounds for five seconds.

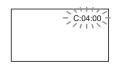
- The temperature of your camcorder is extremely high. Turn off your camcorder and leave it for a while in a cool place.
- Some problems have occurred in your camcorder. Turn off and on, then operate your camcorder again.

Warning indicators

Self-diagnosis display/Warning indicators

If indicators appear on the LCD screen, check the following.

You can solve some of the symptoms by yourself. If your problem persists even after you have tried a couple of times, contact your Sony dealer or local authorized Sony service facility.



C:(or E:) □□:□□ (Self-diagnosis display)

C:04:□□

- The battery pack is not an "InfoLITHIUM" battery pack. Use an "InfoLITHIUM" battery pack (p.8).
- Connect the DC plug of the AC Adaptor to the DC IN jack of the Handycam Station or your camcorder securely (p.8).

C:13:□□ / C:32:□□

 Remove the power source. Reconnect it and operate your camcorder again.

E:20:□□ / E:31:□□ / E:40:□	$\sqcup \sqcup I$
E:61: - / E:62: - / E:91:] [[
E:94:□□	

 A malfunction that you cannot service has occurred. Contact your Sony dealer or local authorized Sony service facility. Inform them of the 5-digit code, which starts from "E"

100-0001 (Warning indicator pertaining to files)

Slow flashing

- · The file is damaged.
- The file is unreadable.

(Warning on the hard disk of the camcorder)*

Fast flashing

 An error may have occurred with the hard disk drive in your camcorder.

⊘(Warning on the hard disk of the camcorder)*

Fast flashing

- The hard disk of the camcorder is fully recorded.
- An error may have occurred with the hard disk drive in your camcorder.

(Battery level warning)

Slow flashing

- · The battery pack is nearly used up.

[] (High temperature warning)

Slow flashing

 The temperature of your camcorder is getting higher. Turn off your camcorder and leave it for a while in a cool place.

Fast flashing*

• The temperature of your camcorder is extremely high. Turn off your camcorder and leave it for a while in a cool place.

[17] (Low temperature warning)

Fast flashing*

 The temperature of your camcorder is extremely low. Make the camcorder warm.

(Warning indicator pertaining to camera-shake warning)*

- The amount of lights is not sufficient, so camera-shake easily occurs. Use the flash
- The camcorder is unsteady, so camerashake easily occurs. Hold the camcorder steady with both hands and record the image. However, note that the camerashake warning indicator does not disappear.

You hear a melody when the warning indicators appear on the screen.

Precautions

On use and care

- Do not use or store the camcorder and accessories in the following locations.
 - Anywhere extremely hot or cold or humid places. Never leave them exposed to temperatures above 60°C (140°F), such as under direct sunlight, near heaters or in a car parked in the sun. They may malfunction or become deformed.
 - Near strong magnetic fields or mechanical vibration. The camcorder may malfunction.
 - Near strong radio waves or radiation. The camcorder may not record properly.
 - Near AM receivers and video equipment. Noise may occur.
 - On a sandy beach or anywhere dusty. If sand or dust gets in your camcorder, it may malfunction. Sometimes this malfunction cannot be repaired.
 - Near windows or outdoors, where the LCD screen or the lens may be exposed to direct sunlight. This damages the inside of the LCD screen.
- Operate your camcorder on DC 7.2 V (battery pack) or DC 8.4 V (AC Adaptor).
- For DC or AC operation, use the accessories recommended in this instruction manual.
- Do not let your camcorder get wet, for example, from rain or sea water. If your camcorder gets wet, it may malfunction. Sometimes this malfunction cannot be repaired.
- If any solid object or liquid gets inside the casing, unplug your camcorder and have it checked by a Sony dealer before operating it any further.
- Avoidrough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping or stepping on the product. Be particularly careful of the lens.
- Keep the POWER switch setting to OFF (CHG) when you are not using your camcorder.
- Do not wrap your camcorder with a towel, for example, and operate it. Doing so might cause heat to build up inside.
- When removing the mains lead, pull it by the plug and not the cord.
- Do not damage the mains lead such as by placing anything heavy on it.
- Keep metal contacts clean.

- Keep the Remote Commander and button-type battery out of children's reach. If the battery is accidentally swallowed, consult with a doctor immediately (DCR-SR50E/SR60E/SR70E/ SR80E).
- · If the battery electrolytic liquid has leaked,
 - consult with your local authorized Sony service facility.
 - wash off any liquid that may have contacted your skin.
 - if any liquid gets in your eyes, wash with plenty of water and consult with a doctor.

When not using your camcorder for a long time

- Occasionally turn it on and let it run such as by playing back images or recording for about three minutes.
- Use up the battery pack completely before storing it.

On the LCD screen

- Do not exert excessive pressure on the LCD screen. Blurs appear and it may cause a malfunction of your camcorder.
- If your camcorder is used in a cold place, a residual image may appear on the LCD screen.
 This is not a malfunction.
- While you are using your camcorder, the back of the LCD screen may heat up. This is not a malfunction.

■ To clean the LCD screen

If fingerprints or dust make the LCD screen dirty, use the cleaning cloth (optional) to clean the LCD screen.

When you use the LCD Cleaning Kit (optional), do not apply the cleaning liquid directly to the LCD screen. Use cleaning paper moistened with the liquid.

On handling the casing

- If the casing is soiled, clean the camcorder body with a soft cloth lightly moistened with water, and then wipe the casing with a dry soft cloth.
- Avoid the followings to prevent damage to the finish.
 - Using chemicals such as thinner, benzine, alcohol, chemical cloths, repellent and insecticide and sunscreen.
 - Handling with above substances on your hands.
 - Leaving the casing in contact with rubber or vinyl objects for a long period of time.

Care and storage of the camera lens

- Wipe the surface of the lens clean with a soft cloth in the following instances:
 - when there are fingerprints on the lens surface.
 - in hot or humid locations
 - when the lens is exposed to salty air such as at the seaside.
- Store the lens in a well-ventilated location subject to little dirt or dust.
- To prevent mold, periodically clean the lens as described above. It is recommended that you operate your camcorder about once a month to keep it in optimum state for a long time.

To charge the pre-installed rechargeable battery

Your camcorder has a pre-installed rechargeable battery to retain the date, time, and other settings even when the POWER switch is set to OFF (CHG). The pre-installed rechargeable battery is always charged while you are using your camcorder but it will get discharged gradually if you do not use your camcorder. The rechargeable battery will be fully discharged in **about 3 months** if you do not use your camcorder at all. However, even if the pre-installed rechargeable battery is not charged, the camcorder operation will not be affected as long as you are not recording the date.

Procedures

Connect your camcorder to a wall socket using the AC Adaptor supplied with your camcorder, and leave your camcorder with the POWER switch turned off for more than 24 hours.

Specifications

System

Video compression format

MPEG2/JPEG (Still images)

DCR-SR30E/SR40E/SR50E/SR60E

30 GB

DCR-SR70E/SR80E

When measuring media capacity, 1GB equals 1 billion bytes, a portion of which is used for data management.

Audio compression format

Dolby Digital 2ch

Dolby Digital Stereo Creator

Video signal

PAL color, CCIR standards

Recording format

Movie

MPEG2-PS

Still image

Exif *1 Ver 2.2

Recording/playback time

DCR-SR30E/SR40E/SR50E/SR60E

HQ: Approx. 440 min.

SP: Approx. 650 min.

LP: Approx. 1 250 min.

DCR-SR70F/SR80F

HO: Approx. 880 min.

SP: Approx. 1 300 min.

LP: Approx. 2510 min.

Number of recordable movies/still images

Movie: Maximum of 9 999

Still image: Maximum of 9 999

Image device

DCR-SR30E/SR40E

3 mm (1/6 type) CCD (Charge Coupled Device)

Gross:

Approx. 800 000 pixels

Effective (Movie):

Approx. 400 000 pixels

Effective (Still):

Approx. 400 000 pixels

DCR-SR50E/SR60E/SR70E/SR80E

3.27 mm (1/5.5 type) CCD (Charge Coupled

Device)

Gross:

Approx. 1 070 000 pixels

Effective (Movie, 4:3)

Approx. 690 000 pixels

Effective (Movie, 16:9)

Approx. 670 000 pixels

Effective (Still, 4:3) Approx. 1 000 000 pixels Effective (Still, 16:9) Approx. 750 000 pixels

Carl Zeiss Vario Tessar Filter diameter: 30 mm (1 in.)

DCR-SR30E/SR40E

Optical:20 \times , Digital:40 \times , 800 \times

F=1.8-3.1

DCR-SR50E/SR60E/SR70E/SR80E

Optical:12 \times , Digital:24 \times , 800 \times

F=1.8-2.5

Focal length

DCR-SR30F/SR40F

f=2.3 - 46 mm (3/32 - 1 13/16 in.)

When converted to a 35 mm still camera For movies:

44 - 880 mm (1 3/4 - 34 1/32 in.)

For still images:

44 - 880 mm (1 3/4 - 34 1/32 in.)

DCR-SR50E/SR60E/SR70E/SR80E

f=3.0 - 36 mm (1/8 - 1 7/16 in.)

When converted to a 35 mm still camera For movies:

46 - 628.5 mm (1 13/16 - 24 3/4 in.) (16:9)*2

48 - 576 mm (1 15/16 - 22 3/4 in.) (4:3) For still images:

40 - 480 mm (1 5/8 - 19 in.) (4:3)

43.6 - 523.2 mm (1 3/4 - 20 5/8 in.) (16:9)

Color temperature

[AUTO], [ONE PUSH], [INDOOR] (3 200 K), [OUTDOOR] (5 800 K)

Minimum illumination

DCR-SR30F/SR40F

5 lx (lux) (F1.8)

0 lx (lux) (in the NightShot plus function)

DCR-SR50E/SR60E/SR70E/SR80E

7 lx (lux) (F1.8)

0 lx (lux) (in the NightShot plus function)

- *1 "Exif" is a file format for still images, established by the JEITA (Japan Electronics and Information Technology Industries Association). Files in this format can have additional information such as your camcorder's setting information at the time of recording.
- *2 In 16:9 mode, the focal length figures are actual figures resulting from wide angle pixel readout.
- · Manufactured under license from Dolby Laboratories.

Input/Output connectors DCR-SR30E/SR40E/SR50E/SR70E

Audio/Video output

10-pin connector

Video signal: 1 Vp-p, 75 Ω (ohms), unbalanced Luminance signal: 1 Vp-p, 75 Ω (ohms), unbalanced

Chrominance signal: 0.3 Vp-p, 75 Ω (ohms), unbalanced

Audio signal: 327 mV (at load impedance $47 \text{ k}\Omega$ (kilohms)), Output impedance less than $2.2 \text{ k}\Omega$ (kilohms)

DCR-SR60E/SR80E

Audio/Video input/output

10 pin connector

Input/Output auto switch

Video signal: 1 Vp-p, 75 Ω (ohms), unbalanced Luminance signal: 1 Vp-p, 75 Ω (ohms),

unbalanced

Chrominance signal: 0.3 Vp-p, 75 Ω (ohms), unbalanced

Audio signal: 327 mV (at load impedance 47 k Ω (kilohms)), Input impedance more than 47 k Ω (kilohms), Output impedance less than 2.2 k Ω (kilohms)

REMOTE iack

Stereo mini-minijack (Ø 2.5 mm)

LCD screen

Picture

DCR-SR30E/SR40E 6.2 cm (2.5 type)

DCR-SR50E/SR60E/SR70E/SR80E 6.9 cm (2.7 type, aspect ratio 16:9)

Total number of pixels

 $123\ 200\ (560 \times 220)$

General

Power requirements

7.2 V (battery pack) 8.4 V (AC Adaptor)

Average power consumption

DCR-SR30E/SR40E

2.2 W

DCR-SR50E/SR60E/SR70E/SR80E 2.7 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 (Approx.)

 $69 \times 71 \times 117$ mm (2 $3/4 \times 27/8 \times 45/8$ in.) (w×h×d) including protrusions $69 \times 71 \times 117$ mm (2 $3/4 \times 27/8 \times 45/8$ in.) (w×h×d) including protrusions with supplied battery attached

Mass (Approx.)

DCR-SR30E/SR40E

340g (12 oz) main unit only 390g (13 oz) including the NP-FP50

rechargeable battery pack and the lens cap

DCR-SR50E/SR60E

350g (12 oz) main unit only

390g (13 oz) including the NP-FP50

rechargeable battery pack DCB-SB70F/SB80F

DCR-SR/0E/SR80E

360g (12 oz) main unit only 400g (14 oz) including the NP-FP50 rechargeable battery pack

Supplied accessories

See page 6.

Handycam Station Input/Output connectors DCRA-C162 (DCR-SR30E/SR40E/SR50E/SR70E)

Audio/Video output

10 pin connector

Video signal: 1 Vp-p, 75 Ω (ohms), unbalanced Luminance signal: 1 Vp-p, 75 Ω (ohms), unbalanced

Chrominance signal: 0.3 Vp-p, 75 Ω (ohms), unbalanced

Audio signal: 327 mV (at load impedance $47 \text{ k}\Omega$ (kilohms)), Output impedance less than $2.2 \text{ k}\Omega$ (kilohms)

USB jack

mini-B

DCRA-C162 (DCR-SR60E/SR80E)

Audio/Video input/output

10 pin connector

Input/Output auto switch

Video signal: 1 Vp-p, 75 Ω (ohms), unbalanced Luminance signal: 1 Vp-p, 75 Ω (ohms),

unbalanced

Chrominance signal: 0.3 Vp-p, 75 Ω (ohms), unbalanced

Audio signal: 327 mV (at load impedance

 $47 \text{ k}\Omega$ (kilohms)), Input impedance more than $47 \text{ k}\Omega$ (kilohms), Output impedance less than $2.2 \text{ k}\Omega$ (kilohms)

USB jack

mini-B

AC Adaptor AC-L25A/L25B

Power requirements

AC 100 - 240 V, 50/60 Hz

Current consumption

0.35 - 0.18 A

Power consumption

18 W

Output voltage

DC 8.4 V*

Operating temperature

 0° C to + 40° C (32°F to 104° F)

Storage temperature

 -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F)

Dimensions (Approx.)

 $56 \times 31 \times 100 \text{ mm} (21/4 \times 11/4 \times 4 \text{ in.})(\text{w}\times\text{h}\times\text{d})$ excluding the projecting parts

Mass (Approx.)

190 g (6.7 oz) excluding the mains lead

* See at the label of AC Adaptor for other specifications.

Rechargeable battery pack NP-FP50

Maximum output voltage DC 8.4 V

. . .

Output voltage

DC 7.2 V

Capacity

4.9 wh (680 mAh)

Dimensions (Approx.)

 $31.8 \times 18.5 \times 45.0 \text{ mm}$ (1 5/16 × 3/4 × 1 13/16 in.)(w×h×d)

Mass (Approx.)

40 g (1.5 oz)

Operating temperature

 0° C to + 40° C (32°F to 104° F)

Type

Li-ion

Design and specifications are subject to change without notice.

On trademarks

- "Handycam" and HATTENGE are registered trademarks of Sony Corporation.
- "InfoLITHIUM" is a trademark of Sony Corporation.
- "Memory Stick Duo" is a trademark of Sony Corporation.
- "ImageMixer for HDD Camcorder" is a trademark of Pixela Corporation.
- Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- Dolby Digital Stereo Creator is a trademark of Dolby Laboratories.
- DVD-R, DVD-RW, and DVD+RW logo are trademarks.
- Microsoft, Windows, and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/ or other countries.
- Macintosh is a trademark of Apple Computer, Inc. in the U.S. and other countries.
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