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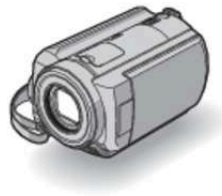
You can read the recommendations in the user guide, the technical guide or the installation guide for SONY DSX-A40UI. You'll find the answers to all your questions on the SONY DSX-A40UI in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SONY DSX-A40UI
User guide SONY DSX-A40UI
Operating instructions SONY DSX-A40UI
Instructions for use SONY DSX-A40UI
Instruction manual SONY DSX-A40UI

SONY.

Digital Video Camera Recorder
HANDYCAM.
Handycam Handbook

**DCR-SR30E/SR40E/SR50E/
SR60E/SR70E/SR80E**



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2-098-884-11(1)

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Manual abstract:

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

FOR CUSTOMERS IN EUROPE ATTENTION The electromagnetic fields at the specific frequencies may influence the picture and sound of this camcorder. 2 Notes on use Your camcorder is supplied with two kinds of operations guides. For operating and handling the camcorder, refer to "Operating Guide" and "Handycam Handbook" (PDF/this Handbook). Notes on the Setup items, LCD screen and lens • A setup item that is grayed out is not available under the current recording or playback conditions. • The LCD screen is manufactured using extremely high-precision technology, so over 99.

99% of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue, or green in color) that appear constantly on the LCD screen. These points are normal. On using the camcorder • Do not hold the camcorder by the following parts. LCD screen Battery • The camcorder is not dust proofed, drip proofed or waterproofed.

See "Maintenance and precautions" (p.118). • To prevent the hard disk from being broken or recorded images from being lost, do not do the followings when either of the respective lamps of the POWER switch (p.18) or the ACCESS lamp (p.25, 27, 29) is on: – Removing the battery pack or AC Adaptor from the camcorder – Applying mechanical shock or vibration to the camcorder • Before connecting your camcorder to another device with a USB cable etc., be sure to insert the connector plug in the proper direction. If you insert the connector plug forcibly in the wrong direction, the terminal may be damaged, or this may cause a malfunction of your camcorder. • Disconnect the AC Adaptor from the Handycam Station holding both the camcorder and the DC plug. • Be sure to slide the POWER switch up to OFF (CHG), when you set the camcorder onto the Handycam Station or remove the camcorder from it. Black point White, red, blue or green point • Exposing the LCD screen or the lens to direct sunlight for long periods of time may cause malfunctions.

Be careful when placing the camera near a window or outdoors. • Do not aim at the sun. Doing so might cause your camcorder to malfunction. Take images of the sun only in low light conditions, such as at dusk. 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. 3 • 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. Compatibility of images • You cannot play back both movies and still images other than the images recorded with your camcorder. You also cannot play back images recorded with other DCR-SR30E/ SR40E/SR50E/SR60E/SR70E/SR80E. On this Handbook • The images of the LCD screen used on this Handbook are captured using a digital still camera, and thus may appear different from what you see. • Design and specifications of this camcorder and accessories are subject to change without notice.

• The illustrations used on this Handbook 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 (p.60). About the Carl Zeiss lens Your camcorder is equipped with a Carl Zeiss lens, which was developed jointly by Carl Zeiss, in Germany, and Sony Corporation, and produces superior images.

It adopts the MTF* measurement system for video cameras and offers a quality typical of a Carl Zeiss lens. * MTF stands for Modulation Transfer Function. The number value indicates the amount of light from a subject coming into the lens. 4 Notes on using the Hard Disk Drive Handycam 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 (p.80, 93). Also, you can save it using VCR/DVD device (p.67). • It is recommended that you save your image data periodically after recording. 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. 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. • Especially, during recording/playback, do not apply shock. After recording, do not apply vibration or shock to the camcorder, while the ACCESS lamp is lit. • While using the shoulder belt (not supplied), do not crash the camera against a subject. Note on disposal/transfer • If you perform [HDD FORMAT] (p.55) 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] (p.

56) 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 the drop sensor • To protect the internal hard disk from the shock by dropping, the camcorder has the drop sensor function (p.56).

When a drop occurs, or under a non-gravity condition, the block noise to protect the camcorder may also be recorded.



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...“Recording and viewing”: clear, easy and convenient Recording onto the hard disk for long hours (p.25, 29) You can record more than seven hours* when the image is set to high quality ([HQ]) onto the hard disk.

All the recorded images are saved on the free hard disk space. You are not at a risk to write images onto your favorite images by mistake. Also, you do not need to rewind or fast-forward your movie, and you can start recording whenever you are ready. * You can record more than 14 hours when you use DCRSR70E/SR80E. If you change the image quality of a movie, you can record images for longer hours. You can find a scene quickly by using the VISUAL INDEX screen (p.27, 30). The VISUAL INDEX screen allows you to check recorded images at a glance. All you have to do is to touch the scene you want to view. Also, you can search for a desired scene by date using Date Index.

Viewing on a TV or saving to VCR/DVD devices (p.39, 67) You can connect your Handycam directly to a TV to play back recorded images. Also, you can save them to VCR/DVD devices. 10 Connecting Hard Disk Drive Handycam to a computer The supplied software “ImageMixer for HDD Camcorder” is required.

Enjoying with your Hard Disk Drive Handycam One Touch DVD Burn (p.80) You can save a recorded image on a DVD with a simple touch. Images that have not been saved to a DVD with One Touch DVD Burn can automatically be saved. • The quality of a recorded image remains even when it is saved on a DVD. Edit images and create a DVD with selected images (p.91, 93) You can copy images to your computer.

You can also edit images and create a DVD with selected images. • The quality of a recorded image remains even when it is copied from a computer, or when it is edited or saved on a DVD. 11 Using your Hard Disk Drive Handycam Images are recorded on the internal hard disk. When the hard disk becomes full, you cannot record new images. It is recommended that you save the image data periodically, then delete unnecessary images from the hard disk of your camcorder.

• If you delete the images, you can record new images on the free hard disk space again. Preparing (p.13) Recording (p.25, 29) Viewing on your Hard Disk Drive Handycam • Viewing on the LCD screen (p.27, 30) • Viewing on a TV (p.39) Saving Save recorded images on a DVD etc. • Saving images on a DVD using a computer (p.80, 93). • Copying images to a computer (p.84). • Dubbing on VCR/DVD devices (p.67). Deleting images Delete the image data that has been saved on your camcorder. If you delete the images, you can record new images on the free hard disk space again. • Select the desired image and delete it (p.

42). • Delete all the images ([HDD FORMAT], p.55). 12 Getting Started 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.14) Rechargeable battery pack NP-FP50 (1) (p.16) Getting Started Lens Cap (1) (p.18) (DCR-SR30E/SR40E) Mains lead (1) (p.14) To attach the lens cap Thread the grip belt through the lens cap ring.

Handycam Station (1) (p.14) A/V connecting cable (1) (p.39, 67, 69) CD-ROM (1) (p.74) – “ImageMixer for HDD Camcorder” (Software) – “Handycam Handbook” (PDF/this Handbook) USB cable (1) (p.71, 73, 81) “Operating Guide” (1) 21-pin adaptor (1) (p.

40) For the models with the CE mark printed on their bottom surfaces only. Wireless Remote Commander (1) (p.38) (DCR-SR50E/SR60E/SR70E/SR80E) A button-type lithium battery is already installed. 13 Step 2: Charging the battery pack You can charge the battery after attaching the “InfoLITHIUM” battery pack (P series) (p.117) to your camcorder.

• You cannot use an NP-FP30 battery pack with your camcorder. (See the reverse side of the battery pack for the model number.) Installing the battery pack with excess force may lead to camcorder malfunction such as deterioration in battery pack performance or difficulty in removing the battery pack. 2 Slide the POWER switch in the direction of the arrow to set it to OFF (CHG) (The default setting). POWER switch CHG lamp 3 Connect the AC Adaptor to the DC IN jack on the Handycam Station.



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Be sure that the v mark on the DC plug is facing up. Battery pack DC plug DC IN jack DC IN jack Mains lead To the wall socket AC Adaptor 1 Slide the battery pack in the direction of the arrow until it clicks. 4 Connect the mains lead to the AC Adaptor and the wall socket. 14 5 Set the camcorder onto the Handycam Station securely. Be sure to set the camcorder to the end.

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. CHG lamp POWER switch DC IN jack Getting Started DC plug Open the jack cover Battery pack The CHG (charge) lamp lights up and charging starts. The CHG (charge) lamp turns off when the battery pack is fully charged. • When setting the camcorder onto the Handycam Station, close the DC IN jack cover. Mains lead To the wall socket AC Adaptor To remove the battery pack Slide the POWER switch to OFF (CHG). Slide the BATT (battery) release lever and remove the battery pack. BATT (battery) release lever • When you remove the battery pack, make sure that none of the respective lamps of the POWER switch (p.18) is on. 15 To remove your camcorder from the Handycam Station Turn off the power, then remove the camcorder from the Handycam Station holding both. Recording time Approximate time (min.)

) available when you use a fully charged battery pack. DCR-SR30E/SR40E Battery pack Continuous recording time 125 190 265 315 475 Typical recording time* 065 100 145 170 260 NP-FP50 (supplied) NP-FP60 NP-FP70 NP-FP71 NP-FP90 DCR-SR50E/SR60E/SR70E/SR80E When storing the battery pack Use up the battery pack completely if you do not intend to use it for a long time (p.117). Battery pack Continuous recording time 100 110 155 170 215 235 255 280 385 415 Typical recording time* 055 060 085 090 115 125 140 150 210 225 To use an outside power source Make the same connections as you do when charging the battery pack. The battery pack will not lose its charge in this case.

NP-FP50 (supplied) NP-FP60 NP-FP70 NP-FP71 NP-FP90 Charging time (full charge) Approximate time (min.) required when you fully charge a completely exhausted battery pack. Battery pack Charging time 125 135 155 170 220 NP-FP50 (supplied) NP-FP60 NP-FP70 NP-FP71 NP-FP90 * Typical recording time shows the time when you repeat recording start/stop, turning the power on/ off and zooming. • Times shown vary according to the following conditions (when [REC MODE] is set to [HQ]). – Top: When the LCD backlight turns on.

– Bottom: When the LCD backlight turns off. 16 Playback time Approximate time (min.) available when you use a fully charged battery pack. DCR-SR30E/SR40E Battery pack Playback time 140 210 295 350 525 NP-FP50 (supplied) NP-FP60 NP-FP70 NP-FP71 NP-FP90 DCR-SR50E/SR60E/SR70E/SR80E Battery pack Playback time* 120 185 255 300 455 On the battery pack • Before changing the battery pack, slide the POWER switch to OFF (CHG). • The CHG (charge) lamp flashes during charging, or BATTERY INFO (p.34) will not be correctly displayed under the following conditions. – The battery pack is not attached correctly. – The battery pack is damaged. – The battery pack is fully discharged. (For BATTERY INFO only.

) • 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 or the Handycam Station, even when the mains lead is removed from the wall socket. • We recommend that you use an NP-FP70, NPFP71 or NP-FP90 battery pack when a video light (optional) is attached. 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. Getting Started NP-FP50 (supplied) NP-FP60 NP-FP70 NP-FP71 NP-FP90 * When the LCD backlight turns on. 17 Step 3: Turning the power on and holding your camcorder To record, slide the POWER switch to turn on the respective lamp. When using it for the first time, the [CLOCK SET] screen appears (p.

22). POWER switch Lens cover* (Movie): To record movies (Still): To record still images (PLAY/EDIT): To play back images on your camcorder, or to edit/delete them * DCR-SR50E/SR60E/SR70E/SR80E • When you set the POWER switch to (Movie) or (Still), the lens cover opens up (DCRSR50E/SR60E/SR70E/SR80E). • After you have set the date and time ([CLOCK SET], p.22), the next time you turn on the power of your camcorder, the current date and time will be displayed on the LCD screen for a few seconds. 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 (DCRSR30E/SR40E). 3 Hold your camcorder correctly. 2 Turn on the power by sliding the POWER switch in the direction of the arrow while pressing the green button in the center. Green button 4 Fasten the grip belt. When you record, switch the power mode by sliding the POWER switch in the direction of the arrow until the respective lamp lights up. 18 To turn off the power Slide the POWER switch to OFF (CHG). Put the lens cap back after turning off the power (DCR-SR30E/SR40E). • At the time of purchase, the power will be set to turn off automatically if you leave your camcorder without any operation for approximately five minutes, to save battery power ([A.SHUT OFF], p.60).

19 Getting Started Step 4: Adjusting the LCD screen The LCD screen Open the LCD screen 90 degrees to the camcorder (1), then rotate it to the best angle to record or play (2). 2 180 degrees (max.) DISP/BATT INFO 2 90 degrees (max.) 1 90 degrees to the camcorder • Be careful not to press the buttons on the LCD frame accidentally, when you open or adjust the LCD screen. • If you open the LCD screen 90 degrees to the camcorder, rotate it 180 degrees to the lens side, then you can close it with the LCD screen side facing out. This is convenient during playback operations. To turn off the LCD backlight to make the battery last longer (DCR-SR50E/ SR60E/SR70E/SR80E) Press and hold DISP/BATT INFO for a few seconds until appears. This setting is practical when you use your camcorder in bright conditions or when you want to save battery power.



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The recorded image will not be affected by this setting. To cancel, press and hold DISP/BATT INFO until disappears.

- See [LCD SET] - [LCD BRIGHT] (p.58) to adjust the brightness of the LCD screen. 20 Step 5: Using the touch panel You can play back recorded images (p.27, 30), or change the settings (p.44) using the touch panel.

Touch the buttons displayed on the screen. Changing the language setting You can change the on-screen displays to show messages in a specified language.

Select the screen language in [LANGUAGE] on the TIME/LANGU. (p.60).

Getting Started Support the rear of the LCD panel with your finger. Then, touch the buttons displayed on the screen. Touch the button on the LCD screen.

DISP/BATT INFO • Perform the same actions as described above when you press the buttons on the LCD frame. • Be careful not to press the buttons on the LCD frame accidentally while using the touch panel. • If the buttons on the touch panel do not work correctly, adjust the LCD screen (CALIBRATION) (p.119). To hide the screen indicators Press DISP/BATT INFO to hide or show the screen indicators (counter, etc.). 21 Step 6: Setting the date and time Set the date and time when using this camcorder for the first time.

If you do not set the date and time, the [CLOCK SET] screen appears every time you turn on your camcorder or slide the POWER switch. • If you do not use your camcorder for about 3 months, the built-in rechargeable battery gets discharged and the date and time settings may be cleared from the memory. In that case, charge the rechargeable battery and then set the date and time again (p.119). 4 Select the desired geographical area with CLOCK SET AREA1 /, then touch . GMT +0.0 Lisbon , London OFF SUMMERTIME DATE 2006 Y 1M 1D 0 00 OK POWER switch 5 Set [SUMMERTIME] to [ON] with / . , if necessary, then touch 6 Set [Y] (year) with touch AREA1 /, then . CLOCK SET GMT +0.0 Lisbon , London Skip to step 4 when you set the clock for the first time.

OFF SUMMERTIME DATE 2006 Y 1M 1D 0 00 OK 1 Touch 60min t [SETUP]. • You can set any year up to the year 2079. CAMERA SET PROGRAM AE SPOT METER EXPOSURE 7 Set [M] (month), [D] (day), hour and minute, then touch OK . The clock starts. • Refer to page 115 for information concerning "World time difference".

• The recording date and time are not displayed during recording, but are automatically recorded onto the hard disk and displayed during playback ([DATA CODE], p.58). 2 Select / (TIME/LANGU.) with /, then touch . 60min DISP OUTPUT SETUP ROTATE A.

SHUT OFF CLOCK SET ARE SUMMER TIME LANGUAGE OK 3 Select [CLOCK SET] with then touch . /, 22 Step 7: Selecting the aspect ratio (16:9 or 4:3) of the recording image (DCR-SR50E/SR60E/SR70E/ SR80E) By recording in the 16:9 (wide) mode, you can enjoy wide-angle, high-resolution images. • If you intend to view images on a wide TV, recording in the 16:9 (wide) mode is recommended. • You cannot change the aspect ratio in the following cases: – while recording movies – when [D. EFFECT] is set to [OLD MOVIE] (p.54) • Differences in the angle of view between 16:9(wide) and 4:3 vary depending on the zoom position. Getting Started POWER switch To play back images after connecting your camcorder to a TV Set [TV TYPE] to [16:9] or [4:3] according to your TV (16:9/4:3) (p.39). WIDE SELECT • When viewing 16:9 (wide) images with [TV TYPE] set to [4:3], images may appear rough depending on subjects. Movies Still images 1 Slide the POWER switch in the direction of the arrow to light up the (Movie) lamp.

1 Slide the POWER switch to light up the (Still) lamp. The image size ratio changes to 4:3. 2 Press WIDE SELECT repeatedly to select the desired setting. 2 Press WIDE SELECT repeatedly to select the desired screen aspect ratio. 16:9 (wide) 4:3 • Still image size is set to [0.7M] () when 16:9 (wide) is selected. [1.0M] () is set in maximum mode when 4:3 is selected. • The number of recordable still images is 9,999. 23 Easy Handycam - using your camcorder with automatic settings Using Easy Handycam operation Easy Handycam operation is a function for making nearly all settings automatic with just one press of the EASY button.

Since only basic functions become available and screen font size increases for easy viewing, even first time users can enjoy easy operation. EASY button The settings of your camcorder during Easy Handycam operation Touch [SETUP] to display the available setup items. For details on setup, See page 45. 60min STBY EASY Touch SETUP EASY LANGUAGE BEEP CLOCK SET HDD FORMAT • Nearly all setup items are automatically fixed. • is not displayed during Easy Handycam operation.

• To perform settings such as focusing manually and adding special effects, cancel Easy Handycam operation. Invalid buttons during Easy Handycam operation You cannot use following buttons or functions since they are automatically set. If you set an invalid operation, [Invalid during Easy Handycam operation] may appears. • BACK LIGHT (p.32) • Press and hold DISP/BATT INFO (p.

20) • Zoom lever/buttons (during playback) Now try recording page 25 Complete the preparations described in steps 1 to 7 (p.13 to 23) before operation. 24 Recording with ease Slide the POWER switch in the direction of the arrow while pressing the green button only when the POWER switch is in the OFF (CHG) position. To record movies To record still images ACCESS lamp ACCESS The ACCESS lamp either lights or flashes when image data is written to the hard disk drive of the camcorder. Easy Handycam - using your camcorder with automatic settings Movies 1 Slide the POWER switch A in the direction of the arrow to light up the (Movie) lamp. 2 Press EASY. [Easy Handycam operation ON.] appears, then Easy Handycam operation ON. appears on the LCD screen. 60min STBY EASY SETUP 3 Press START/STOP B (or C).

60min STBY 60min REC 00:01:00 EASY EASY SETUP SETUP [STBY] [REC] To stop recording, press START/STOP again. • [REC MODE] is set to [HQ] (default settings) (p.57). • The maximum continuous recordable time is approximately 13 hours. To record the next movies Perform step 3. 25 Still images 1 Slide the POWER switch A in the direction of the arrow to light up the lamp. (Still) 2 Press EASY. [Easy Handycam operation ON.] appears, then appears on the LCD screen. 60min 112 Easy Handycam operation ON.

EASY SETUP 3 Press PHOTO D lightly to adjust the focus A, then press it fully B. Beep min 112 Shutter click min EASY EASY SETUP SETUP Flashing bLights up A shutter sound is heard. When •[disappears, the image has been recorded. QUALITY] is set to [FINE] (default settings) (p.53). To record the next still images Perform step 3. To cancel Easy Handycam Press EASY again. disappears on the LCD screen. 26 Playback with ease POWER switch Slide the POWER switch in the direction of the arrow while pressing the green button only when the POWER switch is in the OFF (CHG) position.



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To play back images ACCESS lamp Easy Handycam - using your camcorder with automatic settings ACCESS The ACCESS lamp either lights or flashes when image data is read from the hard disk drive of the camcorder.

1 Slide the POWER switch in the direction of the arrow repeatedly to light up the (PLAY/EDIT) lamp. The VISUAL INDEX screen appears on the LCD screen. 2 Press EASY. [Easy Handycam operation ON.] appears, then Recording date Previous 6 images Next 6 images 60min DATE EDIT appears on the LCD screen. EASY 21 12 2006 12:34:01 The last recorded/played back movie is marked with i. Also, when you touch i, you can play back the movie from the point you have stopped previously. SETUP (Movie) tab (Still) tab (Playlist) tab (p.65) 27 3 Start playback. Movies Touch (Movie) tab, then touch the thumbnail of the movie to be played back.

60min Beginning of the scene/previous scene Stop (go to the VISUAL INDEX screen) EASY 100/112 01:12:34 001-0001 SETUP Toggles Play or Pause as you touch Next scene Recording date/time Reverse/ Forward When playback from the selected movie reaches the last movie, the screen returns to the VISUAL INDEX screen. • Touch / during pause to play back movie slowly. • Touch [SETUP] t [VOLUME], then adjust it with / . Still Images Touch back. (Still) tab, then touch the thumbnail of the still image to be played min 100/112 EASY Slide show button (p.33) Recording date/time Go to the VISUAL INDEX screen Previous/Next SETUP • It may take some time to display the VISUAL INDEX screen. • When you touch [EDIT] on the VISUAL INDEX screen, you can delete images. See "Deleting images" on page 42.. To cancel Easy Handycam Press EASY again.

disappears on the LCD screen. 28 Recording/Playback Recording Lens cover* Opens in accordance with the setting of the POWER switch. Zoom lever PHOTO POWER switch START/STOP A ACCESS lamp START/STOP B * DCR-SR50E/SR60E/SR70E/SR80E 1 Slide the POWER switch in the direction of the arrow repeatedly to light up the respective lamp. Press the green button only when the POWER switch is in the OFF (CHG) position. Recording/Playback 2 Start recording.

Movies Press START/STOP A (or B). 60min Still Images Press PHOTO lightly to adjust the focus A, then press it fully B. Beep 60min 1.0M REC 00:01:00 FINE 123 Shutter click START/ STOP P-MENU [STBY] b [REC] P-MENU To stop recording, press START/STOP again. Flashing b Lights up A shutter sound is heard.

When disappears, the image has been recorded. • If the ACCESS lamp is on or flashing 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. • When a movie data file exceeds 2 GB, the next file is created automatically. • For image quality of movies, see [REC MODE] (p.57), of still images, see [IMAGE SIZE] (p.53). 29 Playback 1 Slide the POWER switch repeatedly to light up the The VISUAL INDEX screen appears on the LCD screen.

Recording date Previous 6 images Next 6 images P-MENU (PLAY/EDIT) lamp. 60min DATE EDIT 21 12 2006 12:34:01 The last recorded/played back movie is marked with i. Also, when you touch i, you can play back the movie from the point you have stopped previously. (Movie) tab (Still) tab (Playlist) tab (p.65) • Moving the zoom lever changes the VISUAL INDEX screen indication from 6 to 12 and more images can be displayed at the same time. • Touch [DISPLAY] in STANDARD SET to set the number of thumbnails that appear in the VISUAL INDEX screen (p.59). • If you press and hold / , you can scroll the thumbnail index quickly. 2 Start playback. Movies Touch (Movie) tab and the movie to be played back.

Beginning of the scene/previous scene Toggles Play or Pause as you Next scene touch Still Images Touch (Still) tab and the still image to be played back. Slide show button (p.33) 001-1000 P-MENU 101-0001 P-MENU Stop (go to the VISUAL INDEX screen) Reverse/Forward Go to the VISUAL Previous/Next INDEX screen When playback from the selected movie reaches the last movie, the screen returns to the VISUAL INDEX screen. • Touch / 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.

• 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 with / t [VOLUME], then adjust it . , touch • If you cannot find [VOLUME] in [SETUP] (p.44). 30 Searching for desired images by date (Date Index) You can search for desired images by date efficiently.

4 Touch Previous/Next Date button to select the date of the desired image. 60min 1 Slide the POWER switch repeatedly to light up the (PLAY/EDIT) lamp. The VISUAL INDEX screen appears on the LCD screen. 60min DATE EDIT 21 12 2006 DATE 1 5 10 15 20 25 30 1 5 5 6 6 7 7 8 9 2006 2006 2006 2006 2006 2006 2006 2006 12:34 END OK P-MENU Recording/Playback 21 12 2006 12:34:01 5 Touch while the selected date of the desired image is highlighted. The images for selected date are displayed on the VISUAL INDEX screen. P-MENU 2 To search for movies, touch (Movie) tab. To search for still images, touch (Still) tab. 3 Touch [DATE]. The recording dates of images are displayed on the screen. Return to the VISUAL INDEX screen 60min 21 12 2006 DATE 1 5 10 15 20 25 30 1 5 5 6 6 7 7 8 9 2006 2006 2006 2006 2006 2006 2006 12:34 END OK P-MENU Previous/Next Date button 31 Functions used for recording/playback, etc.

(optical zoom) DCR-SR30E/SR40E DCR-SR50E/SR60E/ SR70E/SR80E 20 × 12 × To record in dark places (NightShot plus).....

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.. 2 Set the NIGHTSHOT PLUS switch 2 to ON. (and ["NIGHTSHOT PLUS"] appear.) • To record an image brighter, use Super NightShot plus function (p.51). To record an image brighter in dim light, use Color Slow Shutter function (p.51). • The NightShot plus and Super NightShot plus use infrared light. Therefore, do not cover the infrared port 3 with your fingers or other objects.

• Remove the conversion lens (optional). • Adjust the focus manually ([FOCUS], p.50) when it is hard to focus automatically. • Do not use these functions in bright places. This may cause a malfunction. Recording To use zoom

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..... 16 Move the power zoom lever 1 slightly for a slower zoom. Move it further for a faster zoom.

Wider range of view: (Wide) Close view: (Telephoto) • Be careful not to remove your finger suddenly from the power zoom lever 1. If you do so, the sound of the lever moving may be recorded. • You cannot change the zoom speed with the zoom buttons 6 on the LCD frame. • The minimum distance required between your camcorder and the subject to get a sharp focus is about 1 cm (about 1/2 inch) for wide angle and about 80 cm (about 2 5/8 feet) for telephoto.

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to display below function buttons. : Return to the beginning of the viewing movie. / : Adjust the volume. 60min REVIEW Still image 30/30 101-0001 To return to recording Touch . • Camera data (recording date, conditions, etc.) is not displayed. • When reviewing still images recorded continuously (p.53), you can forward/backward the images with / (DCR-SR50E/ SR60E/SR70E/SR80E).

• You can delete the last recorded image in a succession with Review deleting. • You can only delete the last recorded image in order with Review. To delete the desired image, see page 42. • When the recorded images are deleted in order with Review deleting, you cannot continue to delete them if a protected image appears on the screen. • When you delete still images that were recorded continuously (p.

53), all the images are deleted at the same time (DCR-SR50E/SR60E/SR70E/ SR80E). 35 Indicators displayed during recording/playback () is a reference page. The indicators during recording will not be recorded. Recording movies Recording still images 60min 60min REC 00:01:00 [60min] 112 P-MENU P-MENU 1 Remaining battery (approx.) (34) 2 Recording mode (HQ / SP / LP) (57) 3 Recording status ([STBY] (standby) / [REC] (recording)) 4 Counter (hour: minute: second) 5 Remaining recordable time of movies 6 Review button (35) 7 Personal Menu button (44) 8 Image size (53) (DCR-SR50E/SR60E/SR70E/SR80E) 9 Quality ([FINE] / [STD]) (53) q; Number of recordable still images Viewing movies 60min 100/112 01:01:00 Viewing still images 60min 1/12 101-0001 P-MENU 102-0001 P-MENU qa Playback mode qs Number of played back movies/Total number of recorded movies qd Previous/Next button (28, 30) qf Recording folders/files (116) qg Video operation buttons (28, 30) qh Number of played back still images /Total number of recorded still images qj Recording folders/files (116) qk Previous/Next button (28, 30) ql Slide show button (33) w; VISUAL INDEX button (28, 30) 36 () is a reference page.

Indicators on the LCD screen When you can change the setup items, or during recording or playback, following indicators are displayed. Upper left Upper center 60min STBY Center Indicator Meaning Upper right 00:01:00 [60min] NightShot plus (32) Super NightShot plus (51) Color Slow Shutter (51) PictBridge connecting (71) E Warning (110) Bottom P-MENU Bottom Center Indicator Meaning Recording/Playback Upper left Indicator Meaning 9 Self-timer recording (51) Continuous photo recording /Bracket recording (53) Flash light (50) MICREF LEVEL low (57) Picture effect (54) Digital effect (54) Manual focus (50) PROGRAM AE (48) . n Backlight (32) White balance (49) WIDE SELECT (23) SteadyShot off (52) Flexible spot meter (48)/ Exposure (49) Upper center Indicator Meaning DATA CODE while recording Repeat of Slide show (33) Upper right Indicator Meaning The recording date and time are recorded automatically.



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They are not displayed while recording. However, you can check them as [DATA CODE] during playback (p.58). Fader (54) LCD backlight off (20) Drop sensor off (56) Drop sensor (56) 37 Remote Commander (DCR-SR50E/SR60E/SR70E/SR80E) Remove the insulation sheet before using the Remote Commander. Insulation sheet 1 DATA CODE (p.58) Displays the date and time or camera setting data of the recorded images (p.58) when you press this while playing back.

2 PHOTO (p.26, 29) The on-screen image when you press this button will be recorded as a still image. 3 SCAN/SLOW (p.28, 30) 4 . > (Previous/Next) (p.28, 30) 5 PLAY (p.28, 30) 6 STOP (p.28, 30) 7 DISPLAY (p.21) 8 Transmitter 9 START/STOP (p.25, 29) q; Power zoom (p.

32, 33) qa PAUSE (p.28, 30) qs VISUAL INDEX (p.27, 30) Displays a VISUAL INDEX screen when you press this while playing back. qd b / B / v / V / ENTER When you press any button, the orange frame appears on the LCD screen. Select a desired button or an item with b / B / v / V, then press ENTER to enter.

• Point the Remote Commander towards the remote sensor to operate your camcorder (p.34). • When no commands have been sent from the Remote Commander in a certain period, the orange frame disappears. When you press any of b / B / v / V, or ENTER again, the frame appears at the position where it was displayed last. • To change the battery, see page 120.

38 Playing the image on a TV Connect your camcorder to the input jack of TV or VCR using A/V connecting cable 1 or A/V connecting cable with S VIDEO 2. Connect your camcorder to the wall socket using the supplied AC Adaptor for this operation (p.14). Refer also to the instruction manuals supplied with the devices to be connected. • To view the recorded images on a computer, see page 74. A/V jack (Yellow) (White) (Red) IN Recording/Playback S VIDEO VIDEO AUDIO VCRs or TVs : Signal flow 1 A/V connecting cable (supplied) The Handycam Station and your camcorder are both equipped with A/V jacks (p.73).

Connect the A/V connecting cable either to the Handycam Station or to your camcorder, according to your setup. When your TV is connected to a VCR Connect your camcorder to the LINE IN input on the VCR. Set the input selector on the VCR to LINE (VIDEO 1, VIDEO 2, etc.

), if the VCR has an input selector. 2 A/V connecting cable with S VIDEO (optional) When connecting to another device via the S VIDEO jack, by using an A/V connecting cable with an S VIDEO cable (optional), higher quality images can be produced than with an A/V connecting cable. Connect the white and red plug (left/right audio) and the S VIDEO plug (S VIDEO channel) of the A/V connecting cable with an S VIDEO cable (optional). The yellow plug connection is not necessary. S VIDEO connection only will not output audio. • You can display the counter on the TV screen by setting [DISP OUTPUT] to [V-OUT/PANEL] (p.60). • Do not connect A/V connecting cables to both your camcorder and the Handycam Station at the same time. The image might get disturbed. To set the aspect ratio according to the connected TV (16:9/4:3) (DCR-SR50E/ SR60E/SR70E/SR80E) Change the setting according to the screen aspect ratio of the TV you will view images on.

1 Slide the POWER switch to light up the (PLAY/EDIT) lamp. 2 Touch t [SETUP] t STANDARD SET t [TV TYPE] t [16:9] or [4:3] t . • When you set [TV TYPE] to [4:3], the image quality may deteriorate. Also, when the recorded image's aspect ratio switches between 16:9 (wide) and 4:3, the image may jitter.

39 • On some 4:3 TVs, the still images recorded in 4:3 aspect ratio may not be displayed full screen.

This is not a malfunction. • When you play back an image recorded in 16:9 (wide) aspect ratio on a 4:3 TV not compatible with the 16:9 (wide) signal, set [TV TYPE] to [4:3]. When your TV is monaural (When your TV has only one audio input jack) Connect the yellow plug of the A/V connecting cable to the video input jack and connect the white (left channel) or the red (right channel) plug to the audio input jack of your TV or VCR. If your TV/VCR has a 21-pin adaptor (EUROCONNECTOR) Use the 21-pin adaptor supplied with your camcorder (For models with the CE mark printed on their bottom surfaces only). This adaptor is designed for output use only.

TV/VCR 40 Saving images Recorded images are stored on the internal hard disk of the camcorder. Due to some limitations on the internal hard disk, make sure that you save the image data to the external media. You can save the images recorded on the camcorder as described below. Saving images on DVD using your computer By using the software in the supplied CD-ROM, the quality of a recorded image is maintained even when the image is saved on a DVD. Create DVD with One Touch You can save images recorded on the camcorder directly to a DVD with ease. See "Creating a DVD with One Touch" on page 80. Recording/Playback Create DVD with the desired images You can save images copied to your computer on a DVD. You can also edit the images. See "Editing images" on page 91, and "Creating a DVD with selected images" on page 93. Saving images by connecting the camcorder to other VCR/DVD devices You can save images recorded on the camcorder by connecting to other VCR/DVD devices.

Dub to VCR/DVD devices You can save the images recorded on the camcorder by connecting the camcorder to VCR/DVD devices. See "Dubbing to VCR/DVD devices" on page 67. 41 Deleting images You can provide free hard disk space by deleting image data on the camcorder. • You can check the free hard disk space of the camcorder on [HDD INFO] (p.55). • Protected images cannot be deleted. To delete the images, cancel the protection (p.66). • Important data should be saved (p.41).

• Do not delete the image data on the hard disk of the camcorder from your computer. 3 Touch [DELETE]. 4 Select the image to be deleted. The selected image is marked with DELETE Press and hold : PREVIEW . DATE END Deleting desired images OK 1 Slide the POWER switch to light up the (PLAY/EDIT) lamp.

The VISUAL INDEX screen appears on the LCD screen. 60min DATE EDIT • Press and hold the movie on the LCD screen to check the movie (Preview).

Touch to return to the previous screen. The Preview screen buttons have the same functions as the ones on the Review screen (p.35).

• You can select multiple images at the same time. 21 12 2006 12:34:01 5 Touch P-MENU t [YES]. • You cannot recover an image once you delete it. 2 Select the • If you delete an original movie that is listed in a Playlist (p.63), it is also deleted from the Playlist. (Movie) tab or the (Still) tab that includes the image you want to delete, then touch [EDIT]. 60min To delete all movies or still images at once 1 To delete a movie, touch (Movie) tab, to delete still images, touch (Still) tab on the VISUAL INDEX screen. 2 Touch [EDIT] t [DELETE ALL] t [YES] t [YES]. • Protected images cannot be deleted (p.65).

• To recover all the recordable space of hard disk, perform [HDD FORMAT] (p.



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SPOT METER STBY PORTRAIT (Soft portrait) () Select to bring out the subject such as people or flowers while creating a soft background. **SPORTS*** (Sports lesson) () **AUTO END** Select to minimize shake when shooting fast moving subjects. 1 Touch the point where you want to fix and adjust the exposure on the screen. appears. **BEACH&SKI***() 2 Touch [END]. To return the setting to automatic exposure, touch [AUTO]t[END].

Select to prevent people's faces from appearing dark in strong light or reflected light, such as at a beach in midsummer or on a ski slope. • If you set [SPOT METER], [EXPOSURE] is automatically set to [MANUAL]. • The setting returns to [AUTO] after you remove the power source for more than five minutes. **48 EXPOSURE** You can fix the brightness of an image manually. When recording indoors on a clear day, for example, you can avoid backlight shadows on people next to the window by fixing the exposure to that of the wall side of the room. **STBY 60min EXPOSURE: MANUAL INDOOR** (n) The white balance is adjusted to be appropriate for the following recording conditions: – Indoors – At party scenes or studios where the lighting conditions change quickly – Under the video lamps of those at a studio, or under sodium lamps or incandescentlike color lamps **ONE PUSH (AUTO MANUAL) OK 1 Touch [MANUAL].** appears. 2 Adjust the exposure by touching / . 3 Touch . To return the setting to automatic exposure, touch [AUTO] t .

• The setting returns to [AUTO] after you remove the power source for more than five minutes. The white balance will be adjusted according to the ambient light. 1 Touch [ONE PUSH]. 2 Frame a white object such as a piece of paper, to fill the screen under the same lighting conditions as you will shoot the subject. 3 Touch [] .

flashes quickly. When the white balance has been adjusted and stored in the memory, the indicator stops flashing. • Keep framing white object while is flashing quickly. • flashes slowly if white balance could not be set. • keeps flashing even after you have touched , set [WHITE BAL.] to [AUTO]. • When you have changed the battery pack while [AUTO] is selected, or you bring your camcorder outdoors from inside the house while using fixed exposure, select [AUTO] and aim your camcorder at a nearby white object for about 10 seconds for better color balance adjustment. • Redo the [ONE PUSH] procedure if you change the [PROGRAM AE] settings, or bring your camcorder outdoors from inside the house, or vice versa during the [ONE PUSH] is set to on. • Set [WHITE BAL.] to [AUTO] or [ONE PUSH] under white or cool white fluorescent lamps. • The setting returns to [AUTO] after you remove the power source for more than five minutes. Using the Setup items **WHITE BAL.** (White balance) You can adjust the color balance to the brightness of the recording environment. **B AUTO** The white balance is adjusted automatically. **OUTDOOR ()** The white balance is adjusted to be appropriate for the following recording conditions: – Outdoors – Night views, neon signs and fireworks – Sunrise or sunset – Under daylight fluorescent lamps **49 AUTO SHUTTER** Automatically activates the electronic shutter to adjust the shutter speed when recording in bright conditions if you set it to [ON] (the default setting).

SPOT FOCUS You can select and adjust the focal point to aim it at a subject not located in the center of the screen. **SPOT FOCUS STBY** • It is easier to focus on the subject by moving the power zoom lever towards T (telephoto) to adjust the focus, then towards W (wide angle) to adjust the zoom for recording. When you want to record a subject at close range, move the power zoom lever to W (wide angle), then adjust the focus. • The minimum distance required between your camcorder and the subject to get a sharp focus is about 1 cm (about 1/2 inch) for wide angle and about 80 cm (about 2 5/8 feet) for telephoto. • The setting returns to [AUTO] after you remove the power source for more than five minutes. **FLASH SET (DCR-SR50E/SR60E/ SR70E/SR80E)** You can set this function when you use an external flash (optional) that is compatible with your camcorder. Attach the external flash to the Active Interface Shoe (p.73). **AUTO END 1 Touch the subject on the screen. 9 appears.**

2 Touch [END]. x **FLASH MODE B ON** Always flashes when recording still images. To adjust the focus automatically, touch [AUTO]t[END] in step 1. • If you set [SPOT FOCUS], [FOCUS] is automatically set to [MANUAL]. • The setting returns to [AUTO] after you remove the power source for more than five minutes.

ON Always pre-flashes to reduce redeye phenomenon, then flashes when recording still images **FOCUS** You can adjust the focus manually. Select this when you want to focus on a certain subject intentionally. **AUTO** Always flashes automatically. **AUTO** Always pre-flashes automatically to reduce redeye phenomenon, then flashes automatically when recording still images. • If the flash is not capable of preventing the redeye phenomenon, you can select only [ON] or [AUTO].

• The setting returns to [ON] after you remove the power source for more than five minutes. 1 Touch [MANUAL]. 9 appears. 2 Touch (focusing on close subjects)/ (focusing on distant subjects) to sharpen the focus. appears when the focus cannot be adjusted any closer, and appears when the focus cannot be adjusted farther away. 3 Touch . To adjust the focus automatically, touch [AUTO]t in step 1. 50 x **FLASH LEVEL HIGH()** Makes the flash level higher.

COLOR SLOW S (Color Slow Shutter) You can record an image brighter in color even in dark places. Set [COLOR SLOW S] to [ON].

and [COLOR SLOW SHUTTER] flash on the screen. To cancel [COLOR SLOW S], touch [OFF]. • Adjust the focus manually ([FOCUS], p.50), when it is hard to focus automatically. • The shutter speed of your camcorder changes depending on the brightness. The motion of the image may slow down at this time. **B NORMAL (LOW ()** Makes the flash level lower. • The setting returns to [NORMAL] after you remove the power source for more than five minutes. **SUPER NSPLUS (Super NightShot plus)** You can record images at a maximum of 16 times the sensitivity of NightShot plus in dark places. Set [SUPER NSPLUS] to [ON] while the **NIGHTSHOT PLUS** switch is set to ON.

and ["SUPER NSPLUS"] flash on the screen. To cancel the setting, set [SUPER NSPLUS] to [OFF]. • Do not use NightShot plus and [SUPER NSPLUS] in bright places. This may cause a malfunction. • Do not cover the infrared port with your fingers or other objects (p.

32). • Remove the conversion lens (optional). • Adjust the focus manually ([FOCUS], p.50), when it is hard to focus automatically. • The shutter speed of your camcorder changes depending on the brightness.

The motion of the image may slow down at this time. **SELF-TIMER** Using the Setup items The self-timer starts recording a movie after about 10 seconds.

Press **START/STOP** when [SELF-TIMER] is set to [ON] ().



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