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You can read the recommendations in the user guide, the technical guide or the installation guide for SONY HANDYCAM HDR-CX220. You'll find the answers to all your questions on the SONY HANDYCAM HDR-CX220 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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User Guide

Use this manual if you encounter any problems, or have any questions about the camcorder.

Handycam

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Manual abstract:

File Number Data Code Volume Download Music (HDR-CX220/ CX230/ CX280/ CX290/ CX320/ CX380/ PJ220/ PJ230/ PJ380) Empty Music (HDR-CX220/ CX230/ CX280/ CX290/ CX320/ CX380/ PJ220/ PJ230/ PJ380) TV Type HDMI Resolution CTRL FOR HDMI (Control for HDMI) USB Connect USB Connect Setting USB LUN Setting Beep LCD Brightness Power On By LCD (HDR-CX320/ CX320E/ CX380/ CX380E/ CX390E/ PJ320E/ PJ380/ PJ380E/ PJ390E) Language Setting Calibration (HDR-CX320/ CX320E/ CX380/ CX380E/ CX390E/ PJ320E/ PJ380/ PJ380E/ PJ390E) Battery Info Power Save Initialize Demo Mode Date & Time Setting Area Setting Back to top Copyright 2013 Sony Corporation 10 "Handycam" User Guide Search Print Top page > Troubleshooting Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Troubleshooting If you have problems If you have problems Troubleshooting Overall operations 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Click a title in the side bar on the left of the browser window. A list of topic titles appears in the right pane. 2. @@For how to change the font size setting, refer to the Help of your web browser. Searching a topic by keyword Enter the keyword in the search window, then click the [Search] button. Returning to a previous page Use the back button of your web browser or the breadcrumb trail navigation (A) to return to a page you previously viewed.



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22 Printing out a page Click the [Print] button to print out a page you are viewing. Marks and notations used in this User Guide In this User Guide, the sequence of operations is shown by arrows (Operate the camcorder in the order indicated.

(A) 23 Icons in the operating procedure sentences appear when the camcorder is in its default settings. The default setting is indicated by . Back to top Copyright 2013 Sony Corporation 24 "Handycam" User Guide Search Print Top page > Before use > How to use this User Guide > Model Information Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Model Information In this User Guide, the differences in the specifications for each model are described together. If you find the description "Models with .

.. @@@@ @@@@ This is convenient during playback operations. @@ Grip belt Built-in USB Cable Memory card access lamp While the lamp is lit or flashing, the camcorder is reading or writing data. Tripod receptacle Attach a tripod (sold separately; the length of the screw must be less than 5.5 mm (7/32 in.)). Depending on the specifications of the tripod, your camcorder may not attach in the proper direction. Memory card slot BATT (battery) release lever To fasten the grip belt Back to top Copyright 2013 Sony Corporation 30 "Handycam" User Guide Search Print Top page > Before use > Parts and controls/Screen indicators > Screen indicators Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Screen indicators The following indicators appear when you change the settings. Check also for the indicatOnly for HDR-PJ320E/ PJ380/ PJ380E/ PJ390E) "Operating Guide" (1) Notes The "PlayMemories Home" software and "PlayMemories Home Help Guide" can be downloaded from the Sony website. [Details] Back to top Copyright 2013 Sony Corporation 35 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Getting started > Charging the battery pack > Charging the battery pack using the AC Adaptor (Models with an AC Adaptor) Charging the battery pack using the AC Adaptor (Models with an AC Adaptor) 1. Turn off your camcorder by closing the LCD screen, and attach the battery pack (). Align the indentation on the camcorder and projection on the battery pack, then slide the battery pack upwards. 2. Connect the AC Adaptor (wall outlet (wall socket) () and the power cord (mains lead) ().

) to your camcorder and the A: Align the mark on the DC plug () with that of DC IN jack (). The POWER/CHG (charge) () lamp turns orange. The POWER/CHG (charge) lamp turns off when the battery pack is fully charged. Disconnect the AC Adaptor from the DC IN jack of your camcorder. Notes You cannot attach any "InfoLITHIUM" battery pack other than the V series to your camcorder. You cannot use the NP-FV30 "InfoLITHIUM" battery pack with the camcorder (models with NPFV50). In the default setting, the power turns off automatically if you leave your camcorder without any operation for about 2 minutes, to save battery power ([Power Save]). 36 Charging time Approximate time (min.) required to fully charge a fully discharged battery pack. HDR-CX280/ CX280E/ CX290/ CX290E/ CX320/ CX320E/ CX380/ CX380E/ CX390E/ PJ220/ PJ220E/ PJ230/ PJ230E Battery pack NP-FV50 NP-FV70 NP-FV100 AC Adaptor 155 195 390 NP-FV30 (supplied) 115 HDR-PJ320E/ PJ380/ PJ380E/ PJ390E Battery pack NP-FV70 NP-FV100 AC Adaptor 195 390 NP-FV50 (supplied) 155 The charging times shown in the table above are measured when charging the camcorder at a room temperature of 25 °C (77 °F). It is recommended that you charge the battery in a temperature range of 10 °C to 30 °C (50 °F to 86 °F). To remove the battery pack Close the LCD screen. Slide the BATT (battery) release lever () and remove the battery pack (). To use your camcorder continuously for a long time Connect the AC Adaptor and the power cord (mains lead) to your camcorder and the wall outlet (wall socket). [Details] By using the AC Adaptor, you can use your camcorder without worrying about the battery running out of charge.

Notes on the AC Adaptor Do not short-circuit the DC plug of the AC Adaptor or battery terminal with any metallic objects. This may cause a malfunction. Disconnect the AC Adaptor from the camcorder, while holding both the camcorder and the DC plug. Related topics Information on supplied items: Differences in supplied items Expected time of recording and playback with each battery pack Remaining battery indicator: Screen indicators 37 Using your camcorder abroad [Power Save] Back to top Copyright 2013 Sony Corporation 38 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Getting started > Charging the battery pack > Charging the battery pack using your computer Charging the battery pack using your computer 1. Turn off your camcorder and connect the camcorder to a running computer using the Built-in USB Cable (: To the wall outlet (wall socket) The POWER/CHG (charge) lamp turns orange. The POWER/CHG (charge) lamp turns off when the battery pack is fully charged. Disconnect Built-in USB Cable from your computer. To charge the battery using an AC-UD10 USB charger/AC Adaptor (sold separately) You can charge the battery by connecting the Built-in USB Cable to a wall outlet (wall socket) using an AC-UD10 USB charger/AC Adaptor (sold separately). You cannot use a Sony CP-AH2R, CP-AL, or ACUP100 portable power supply device (sold separately) to charge the camcorder. Charging time Approximate time (min.) required to fully charge a fully discharged battery pack. HDR-CX220/ CX220E/ CX230/ CX230E/ CX280/ CX280E/ CX290/ CX290E/ CX320/ CX320E/ CX380/ CX380E/ CX390E/ PJ220/ PJ220E/ PJ230/ PJ230E Battery pack NP-FV50 NP-FV70 NP-FV100 Built-in USB Cable* (when using your computer) 280 545 1,000 NP-FV30 (supplied) 150 HDR-PJ320E/ PJ380/ PJ380E/ PJ390E Battery pack NP-FV70 Built-in USB Cable* (when using your computer) 545 NP-FV50 (supplied) 280 39 NP-FV100 1,000 The charging times shown in the table above are measured when charging the camcorder at a room temperature of 25 °C (77 °F). It is recommended that you charge the battery in a temperature range of 10 °C to 30 °C (50 °F to 86 °F).



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*The charging times are measured without using the USB Connection support cable.

To remove the battery pack Close the LCD screen. Slide the BATT (battery) release lever () and remove the battery pack (). Related topics Information on supplied items: Differences in supplied items Charging the battery pack using the AC Adaptor (Models with an AC Adaptor) Back to top Copyright 2013 Sony Corporation 40 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Getting started > Turning the power on, and setting the date and time > Turning the power on, and setting the date and time Turning the power on, and setting the date and time 1. Open the LCD screen of your camcorder and turn the power on. You can also turn on the camcorder by pressing POWER (models with the POWER button). 2. Select the desired language, then select [Next]. Touch the button on the LCD screen. For models with the multi-selector, select the button using the multi-selector. 3.

Select the desired geographical area with /, then select [Next]. 4. Set [Daylight Savings] or [Summer Time], select the date format and the date and time. If you set [Daylight Savings] or [Summer Time] to [On], the clock advances 1 hour. When you select the date and time, select one of the items and adjust the value with When you select, the date and time setting operation is complete.

/ . A: Models with touch panel B: Models with multi-selector To change the language setting 41 You can change the on-screen displays to show messages in a specified language. Select [Setup] [General Settings] [Language Setting] a desired language. To turn off the power Close the LCD screen or press the POWER button (models with the POWER button). To adjust the angle of the LCD screen First open the LCD panel 90 degrees to the camcorder (), and then adjust the angle ().

Notes The recording date and time are recorded automatically on the recording media. They are not displayed during recording. However, you can check them as [Data Code] during playback. To display them, select [Date/Time]. [Setup] [Playback Settings] [Data Code] Related topics Information on your camcorder model: Model Information [Power On By LCD (HDR-CX320/ CX320E/ CX380/ CX380E/ CX390E/ PJ320E/ PJ380/ PJ380E/ PJ390E)] To set the date and time again: [Date & Time Setting] To calibrate the touch panel: [Calibration (HDR-CX320/ CX320E/ CX380/ CX380E/ CX390E/ PJ320E/ PJ380/ PJ380E/ PJ390E)] Back to top Copyright 2013 Sony Corporation 42 "Handycam" User Guide Search Print Operation Search Before use Getting started

Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Getting started > Preparing the recording media > Selecting a recording medium (Models with internal memory) Selecting a recording medium (Models with internal memory) The recording media that can be used are displayed on the screen of your camcorder as following icons. Default recording medium Alternative recording medium Internal memory Memory card Notes You cannot select a different recording medium for movies and for photos. You can select a recording medium from the menu. 1. Select [Setup] [Media Settings] [Media Select] the desired medium. Related topics Information on your camcorder model: Model Information Screen indicators during recording Expected recording time of movies Back to top Copyright 2013 Sony Corporation 43 "Handycam" User Guide Search Print Top page > Getting started > Preparing the recording media > Inserting a memory card Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list A: Access lamp B: Insert the card with the notched corner in the direction as illustrated.

Inserting a memory card 1. Open the cover and insert the memory card until it clicks. The [Preparing image database file. Please wait.] screen appears if you insert a new memory card. Wait until the screen disappears. Types of memory card you can use with your camcorder SD Speed Class "Memory Stick PRO Duo" media (Mark2) "Memory Stick PRO-HG Duo" media "Memory Stick XC-HG Duo" media SD memory card SDHC memory card SDXC memory card Class 4 or faster — Capacity (operation verified) Described in this manual Up to 32 GB "Memory Stick PRO Duo" media Up to 64 GB SD card Operation with all memory cards is not assured. Notes A MultiMediaCard cannot be used with this camcorder. Movies recorded on the "Memory Stick XC-HG Duo" media and SDXC memory cards cannot be imported to or played back on computers or AV devices not supporting the exFAT* file system by connecting the camcorder to these devices with the USB cable. Confirm in advance that the connecting equipment is supporting the exFAT system.

If you connect an equipment not supporting the exFAT system and the format screen appears, do not perform the format. All the data recorded will be lost. * The exFAT is a file system that is used for the "Memory Stick XC-HG Duo" media and SDXC memory cards. 44 To eject the memory card Open the cover and lightly push the memory card in once. Notes To ensure stable operation of the memory card, it is recommended to format the memory card with your camcorder before the first use.

Formatting the memory card will erase all the data stored on it and the data will be irrecoverable. Save your important data on your PC, etc. If [Failed to create a new Image Database File. It may be possible that there is not enough free space.] is displayed, format the memory card.

[Details] Confirm the direction of the memory card. If you forcibly insert the memory card in the wrong direction, the memory card, memory card slot, or image data may be damaged. When inserting or ejecting the memory card, be careful so that the memory card does not pop out and drop. Related topics Recording/playback/editing media: Screen indicators during recording Expected recording time of movies Expected number of recordable photos Back to top

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Open the lens cover (models with the LENS COVER switch). 3.

Press START/STOP to start recording. To stop recording, press START/STOP again. To display items on the LCD screen Items on the LCD screen disappear if you do not operate the camcorder for a few seconds after you turn the camcorder on or switch between the movie recording and photo shooting modes. To display the items again, do as follows. Models with multi-selector: Move the multi-selector. Models with touch panel: Touch anywhere except the buttons on the LCD screen. Notes If you close the LCD screen while recording movies, the camcorder stops recording. The maximum continuous recordable time of movies is about 13 hours. When a movie file exceeds 2 GB, the next movie file is created automatically. The following states will be indicated if data is still being written onto the recording media after recording has finished.

During this time, do not apply shock or vibration to the camcorder, or 46 remove the battery or AC Adaptor. Access lamp is lit or flashing The media icon in the upper right of the LCD screen is flashing You may not be able to shoot photos depending on the setting in [REC Mode] and [Frame Rate]. The LCD screen of your camcorder can display recording images across the entire screen (full pixel display). However, this may cause slight trimming of the top, bottom, right, and left edges of images when played back on a TV which is not compatible with full pixel display. It is recommended you record images with [Grid Line] set to [On] and using the outer frame of [Grid Line] as a guide.

Related topics Information on your camcorder model: Model Information Information on supplied items: Differences in supplied items Expected recording time of movies [Media Select (HDR-CX230/ CX230E/ CX290/ CX290E/ CX380/ CX380E/ CX390E/ PJ230/ PJ230E/ PJ380/ PJ380E/ PJ390E)] To display items on the LCD screen all the time: [Display Setting] Recordable time, remaining capacity: [Media Info] Zooming Screen indicators Back to top Copyright 2013 Sony Corporation 47 "Handycam" User Guide Search Print Top page > Recording > Recording > Shooting photos Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list 2. Press PHOTO lightly to adjust the focus, then press it fully. Shooting photos In the default setting, photos are recorded on the following media. Models without internal memory: Memory card Models with internal memory: Internal memory 1. Open the LCD screen and select [MODE] (Photo) on the LCD screen.

When the focus is adjusted properly, AE/AF lock indicator appears on the LCD screen. Related topics Information on your camcorder model: Model Information Screen indicators during recording Zooming To change the image size: [Image Size] Back to top Copyright 2013 Sony Corporation 48 "Handycam" User Guide Search Print Top page > Recording > Recording > Screen indicators during recording Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Zoom button (W: Wide/T: Telephoto), START/STOP button (in movie recording mode), PHOTO button (in photo recording mode) (models with touch panel) MENU button Status detected by Intelligent Auto Recording status ([STBY]/[REC]) AE/AF (automatic exposure/automatic focus) lock Tracking focus (models with touch panel) Zoom, Remaining battery Counter (hour: minute: second), Capturing a photo, Recording/playback/editing media Estimated recording remaining time, Recording image quality, Frame rate, Recording mode (HD/STD), Movie size (MP4) Approximate number of recordable photos, Aspect ratio (16:9 or 4:3), Photo size (L/M/S) Tracking focus cancel button (models with touch panel) [MODE] (Shooting Mode) button Intelligent Auto button View Images button My Button (you can assign your favorite functions to icons displayed in this area) Screen indicators during recording Described here are icons for both movie recording and photo recording modes. Related topics Information on your camcorder model: Model Information Back to top Copyright 2013 Sony Corporation 49 "Handycam" User Guide Search Print Top page > Recording > Useful functions for recording images > Zooming Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list W: Wider range of view (Wide angle) T: Close view (Telephoto) Move the power zoom lever slightly for a slower zoom. Move it further for a faster zoom. Notes Be sure to keep your finger on the power zoom lever. If you move your finger off the power zoom lever, the operation sound of the power zoom lever may also be recorded. You cannot change the zoom speed with the / button on the LCD screen (models with touch panel). The minimum possible distance between camcorder and subject while maintaining sharp focus is about 1 cm (about 13/32 in.) for wide angle and about 80 cm (about 31 1/2 in.) for telephoto.

Zooming 1. Move the power zoom lever to magnify or reduce the size of the image. Related topics Further zooming: [Digital Zoom] Zoom magnification Back to top Copyright 2013 Sony Corporation 50 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Notes Top page > Recording > Useful functions for recording images > Capturing photos during movie recording (Dual Capture) Capturing photos during movie recording (Dual Capture) 1. Press PHOTO during movie recording to capture still photos. is displayed. You cannot use the Dual Capture function when You may not be able to shoot photos depending on the setting in [Rate], REC Mode] and [Frame Back to top Copyright 2013 Sony Corporation 51 "Handycam" User Guide Search Print Top page > Recording > Useful functions for recording images > Recording in mirror mode Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Copyright 2013 Sony Corporation Back to top Recording in mirror mode 1. Open the LCD panel 90 degrees to the camcorder ((.), then rotate it 180 degrees to the lens side A mirror-image of the subject appears on the LCD screen, but the image will be normal when recorded. 52 "Handycam" User Guide Search Print Top page > Recording > Useful functions for recording images > Intelligent Auto Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list 2.



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Point the camcorder toward the subject and start recording. The icons that correspond to the conditions detected are displayed. Intelligent Auto Your camcorder records movies after selecting the most suitable setting for the subjects or the situation automatically. ([On] is the default setting.) 1.

Select [On] at the right bottom of the recording screen of movies or photos. Face detection: Scene detection: (Macro) (Portrait), (Backlight), (Baby) (Landscape), (Night Scene), (Spotlight), (Low light), Camera-shake detection: (Walk) (HDR-CX280/ CX280E/ CX290/ CX290E/ CX320/ CX320E/ (Tripod) CX380/ CX380E/ CX390E/ PJ320E/ PJ380/ PJ380E/ PJ390E), (Auto Wind NR) (HDR-CX320/ CX320E/ CX380/ CX380E/ CX390E/ Sound detection: PJ320E/ PJ380/ PJ380E/ PJ390E) To cancel the Intelligent Auto function, select [Off]. Notes The camcorder may not detect the expected scene or subject, depending on the recording conditions. Related topics [Low Lux] Back to top Copyright 2013 Sony Corporation 53 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Recording > Useful functions for recording images > Recording the selected subject clearly (Face Priority) (Models with touch panel) Recording the selected subject clearly (Face Priority) (Models with touch panel) Your camcorder can track a face you select and adjust the focus, exposure, and skin tone of the face automatically. 1.

Touch one of the faces targeted. A: The double-lined frame is displayed. B: You can release the selection. Notes The subject you touched may not be detected, depending on the surrounding brightness or hairstyle of the subject. Make sure to set the [Face Detection] setting to other than [Off] ([Auto] is the default setting). To record subjects other than people (Tracking focus) Touch the subject you want to record. Your camcorder adjusts the focus automatically. Related topics Information on your camcorder model: Model Information Back to top Copyright 2013 Sony Corporation 54 "Handycam" User Guide Search Print Top page > Playback > Playback > Playing movies and photos from the Event View screen Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Models with multi-selector Playing movies and photos from the Event View screen You can search for recorded images by date and time of recording (Event View). 1. Open the LCD screen and press the Models with touch panel button on the camcorder to enter the playback mode.

You can enter the playback mode by selecting 2. Select / on the LCD screen. [Details]) and then select it (). to move the desired event to the center (The camcorder displays recorded images as an event automatically, based on the date and time. 3. Select the image. The camcorder plays from the selected image to the last image in the event. 4. Select the appropriate buttons on the LCD screen for various playback operations. 55 Volume / Previous/Next Delete / Fast-reverse/fast-forward Context / Play/Pause Stop Play/stop slide show Some buttons described above may not appear, depending on the image being played back.

/ during playback, movies are played as fast as about 5 times As you repeat selecting about 10 times about 30 times about 60 times. Select / during pause to play movies slowly. [Slideshow Set] when is selected with the Switch Image To repeat Slideshow, select Type button. Screen display on the Event View screen : To the MENU screen : Event name : To the previous event : Change to the movie/photo recording mode : To play back short movies (Highlight Playback) : Remaining battery : Events : To the next event : Time-line bar : Change Event Scale button 56 : Event title : To go back to the Event View screen : Previous : Next : Change to the movie/photo recording mode : Last played image : Recorded time/number of photos : Switch Image Type button : Movie : Photo Reduced-size images which enable you to view many images at the same time on an index screen are called "thumbnails." To play back images with other devices You may not be able to play back with other devices images that were recorded on your camcorder normally.

Also, you may not be able to play back images recorded on other devices with your camcorder. Standard definition image quality (STD) movies recorded on SD memory cards cannot be played on AV equipment of other manufacturers. Notes To prevent your image data from being lost, save all your recorded images on external media periodically. In the default setting, a protected demonstration movie is pre-recorded (HDR-PJ230/ PJ230E/ PJ380/ PJ380E/ PJ390E). Related topics Information on your camcorder model: Model Information Back to top Copyright 2013 Sony Corporation 57 "Handycam" User Guide Search Print Top page > Playback > Playback > Dividing a movie Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list 2.

Select the point where you want to divide the movie into scenes using . / , and then select Dividing a movie 1. Select [Divide] on the movie playback screen. A: Returns to the beginning of the selected movie B: Adjusts the dividing point with more precision Notes A slight difference may occur from the point where you select and the actual dividing point, as your camcorder selects the dividing point based on about half-second increments. An MP4 movie cannot be divided. Some basic editing operations can be done on the camcorder. If you want to do advanced editing operations, use the "PlayMemories Home" software. Do not remove the battery pack or the AC Adaptor from your camcorder while dividing the images. It may damage the recording media. Do not eject the memory card while dividing images from the memory card.

If you divide movies that are included in saved scenarios, the scenarios will also be deleted. Related topics [Delete] Back to top Copyright 2013 Sony Corporation 58 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Playback > Playback > Capturing a photo from a movie (Models with internal memory or models with a USB input function) Capturing a photo from a movie (Models with internal memory or models with a USB input function) You can capture images from movies recorded with your camcorder. 1. Select [Photo Capture] that appears on the playback screen of a movie. 2. Select the point where you want to capture a photo using / , and then select .



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A: Returns to the beginning of the selected movie B: Adjusts the capturing point with more precision If the movie was recorded with one of the following image quality levels, the image size will be set as shown below. High definition image quality (HD) or MP4: 2.1 M (16:9) Wide aspect ratio (16:9) with standard definition image quality (STD): 0.2 M (16:9) 4:3 aspect ratio with standard definition image quality (STD): VGA (0.3 M) (4:3) Notes You cannot save captured images to the memory card (models without a USB input function). On recording date and time of captured photos The recording date and time of captured photos is the same as the recording date and time of the movies. If the movie you are capturing from has no data code, the recording date and time of the photo will be the date and time you captured from the movie. Related topics Information on your camcorder model: Model Information Back to top Copyright 2013 Sony Corporation 59 "Handycam" User Guide Search Print Top page > Playback > Highlight playback > Enjoying a digest of your movies (Highlight Playback) Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Enjoying a digest of your movies (Highlight Playback) You can enjoy a digest of high definition image quality (HD) movies and photos, similar to a short movie. 1. Press (View Images). Highlight]. 2. Display the desired event at the center of the Event View, and select [A: Volume adjustment B: Context C: To stop D: Previous E: To pause F: Next 3. Select the desired operation when the highlight playback finishes.

A: The camcorder plays the Highlight Playback scenes again. B: You can save the Highlight Playback scenes in standard definition image quality (STD) and share it (upload it to the Web, etc.). C: You can change the settings for Highlight Playback. Notes Highlight Playback scenes will change each time you select a Highlight Playback. The [Playback Range] setting is cleared when the Highlight Playback stops. When you connect the camcorder to an external device, such as a TV, and watch Highlight Playback, these images do not appear on the LCD screen of the camcorder. Related topics Changing the settings for Highlight Playback 60 Back to top Copyright 2013 Sony Corporation 61 "Handycam" User Guide Search Print Top page > Playback > Highlight playback > Changing the settings for Highlight Playback Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Changing the settings for Highlight Playback You can change the Highlight Playback settings by selecting [Highlight Setting] on the screen after Highlight Playback has finished. You can also change the setting by selecting [Highlight Setting] while the camcorder is playing highlight scenes. [Playback Range]: You can set the playback range (starting and ending date) of the Highlight Playback.

[Theme]: You can select a theme for Highlight Playback. [Music]: You can select music. [Audio mix]: The original sound is played back with the music. [Length]: You can set the length of the Highlight Playback segment. [Highlight Point]: You can set the points in a movie or photo that will be used in a Highlight Playback. Play the desired movie, and select To erase the points, select . Or play the desired photo and select [Clear All Points]. . appears on the movie or photo that is used in a Highlight Playback. Notes After the music file is transferred to the camcorder, if you cannot play the music, the music file may be damaged.

Delete the music file by selecting [Setup] [Playback Settings] [Empty Music], then transfer the music file again. You can restore the music data recorded on your camcorder at the default using "Music Transfer." For operating instructions, see "Music Transfer" help (models with a USB input function). Related topics Information on your camcorder model: Model Information Back to top Copyright 2013 Sony Corporation 62 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Playback > Highlight playback > Saving Highlight Playback in high definition image quality (HD) (Scenario Save) Saving Highlight Playback in high definition image quality (HD) (Save) Scenario You can save your favorite Highlight Playback as a "Scenario" with high definition image quality (HD). Up to 8 scenarios can be saved.

1. Select [Replay] on the screen after a Highlight Playback has finished. 2. When the Highlight Playback starts again, select [Scenario Save]. To play back a saved scenario 1. Select select . [Playback Function] [Scenario], select the desired scenario, and then To erase a saved scenario, select [Erase]/[Erase All] while playing the scenario. Notes When you connect the camcorder to an external device, such as a TV, and watch Highlight Scenario, these images do not appear on the LCD screen of the camcorder. The scenarios can be played on this camcorder only. Back to top Copyright 2013 Sony Corporation 63 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Playback > Highlight playback > Converting Highlight Playback scenes or Highlight Scenarios to standard definition image quality (STD) (Highlight Movie) Converting Highlight Playback scenes or Highlight Scenarios to standard definition image quality (STD) (Highlight Movie) You can convert the data format of Highlight Playback or Highlight Scenarios to standard definition image quality (STD) and save them as a "Highlight Movie." Highlight movies can be uploaded to the Web. 1. Select [Save and Share] on the screen after Highlight Playback or Highlight Scenario playback has finished. 2. Select the desired operation when the item has been saved.

A: Selecting [Share] allows you to upload the Highlight movie to the Web using the "PlayMemories Home" software [Details]. B: Your camcorder plays the Highlight Movie saved. To play back a Highlight Movie 1. Select [Playback Function] [Highlight Movie] and select the desired Highlight Movie. while the Highlight Movie is playing. Back to top Copyright 2013 Sony Corporation To erase Highlight Movie, select 64 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Playback > Using the built-in projector > Using the built-in projector (Models with a projector) Using the built-in projector (Models with a projector) You can use a flat surface such as a wall as a screen to view recorded images using the built-in projector.



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1. Face the projector lens towards a surface, such as a wall, and then press PROJECTOR. 2. Select [Image Shot on This Device] on the LCD screen. (Models with a PROJECTOR IN jack) 3. When the operating guide screen appears, select [Project]. This screen appears the first time you use the built-in projector after the camcorder is turned on. 4. Adjust the focus of the projected image using the PROJECTOR FOCUS lever.

A: PROJECTOR FOCUS lever The projected image is larger when the distance between your camcorder and the reflecting surface increase. It is recommended that you place the camcorder further than 0.5 m (1.6 feet) away (approximate distance) from the surface that the images are to be projected onto. 5.

When playing back images, use the power zoom lever to move the selection frame that appears on the LCD screen, then press PHOTO button. 65 A: Power zoom lever B: PHOTO button For details on playback, see the playback section. [Details] You can also use the multi-selector for the operations above while projecting images (models with the multi-selector). To turn off the projector, press PROJECTOR. Notes The LCD screen turns off while an image is being projected. Be careful of the following operations or situations while using the projector. Make sure not to project images towards the eyes. Make sure not to touch the projector lens. The LCD screen and the projector lens become hot while in use. Using the projector shortens battery life (using the supplied AC Adaptor is recommended).

The following operations are unavailable while you are using the projector. Output of Highlight Playback to a device such as a TV Operation of the camcorder with the LCD screen closed Several other functions When the projected images contain a lot of black, faint color unevenness may appear. This is caused by light reflection in the projector lens and is not a malfunction. Related topics Information on your camcorder model: Model Information Back to top

Copyright 2013 Sony Corporation 66 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Playback > Using the built-in projector > Using the projector for your computer or smartphone (Models with the PROJECTOR IN jack) Using the projector for your computer or smartphone (Models with the PROJECTOR IN jack) You can project images from a computer or smartphone using the built-in projector. :Signal flow 1. Connect the PROJECTOR IN jack of the camcorder to an HDMI output jack of the other device using the HDMI cable (supplied). 2.

Face the projector lens towards a surface, such as a wall, and then press PROJECTOR. 3. Select [Image from External Device] on the LCD screen. 4. Select [Project] on the LCD screen. This screen appears the first time you use the built-in projector after the camcorder is turned on. 5. Adjust the focus of the projected image using the PROJECTOR FOCUS lever.

The projected image is larger when the distance between your camcorder and the reflecting surface increase. It is recommended that you place the camcorder further than 0.5 m (1.6 feet) away (approximate distance) from the surface that the images are to be projected onto. Notes If the terminal of the device connected is not compatible with the HDMI cable (supplied), use an HDMI plug adaptor (sold separately).

You can only operate the PROJECTOR FOCUS lever while projecting images. Related topics Information on your camcorder model: Model Information On an HDMI cable Back to top 67 Copyright 2013 Sony Corporation 68 "Handycam" User Guide Search Print Operation Search Before use Getting started

Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Playing images on a TV > Playing images on a high definition TV > Connecting the camcorder to a high definition TV Connecting the camcorder to a high definition TV When movies are recorded with high definition image quality (HD), they are played back in high definition image quality (HD) on a high definition TV. If the TV does not have an HDMI input jack, use an AV Cable (sold separately). [Details] :Signal flow 1. Switch the input on the TV to the connected jack. 2. Connect the HDMI cable (HDMI IN jack () on the TV. : supplied) to the HDMI OUT jack () on the camcorder and to the 3. Play a movie or a photo on the camcorder. On an HDMI cable Use an HDMI cable with the HDMI logo.

Use an HDMI micro connector on one end (for the camcorder), and a plug suitable for connecting your TV on the other end. Copyright-protected images are not output from the HDMI OUT jack of your camcorder. Some TVs may not function correctly (e.g., no sound or image) with this connection. Do not connect the camcorder HDMI OUT jack to an external device HDMI OUT jack, as malfunction may result. HDMI (High-Definition Multimedia Interface) is an interface to send both video/audio signals. The HDMI OUT jack outputs high quality images and digital audio. Notes Refer to the instruction manuals of the TV as well. You should use the AC Adaptor as the power source (models with an AC Adaptor).

[Details] When movies are recorded with standard image quality (STD), they are played back in standard definition image quality (STD) even on a high definition TV. Related topics Information on supplied items: Differences in supplied items Back to top Copyright 2013 Sony Corporation 69 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Playing images on a TV > Playing images on a non-high-definition TV > Connecting the camcorder to a non-high-definition TV Connecting the camcorder to a non-high-definition TV When movies are recorded with high definition image quality (HD), they are played back in standard definition image quality (STD) on a non-high-definition TV. When movies are recorded with standard image quality (STD), they are played back in standard definition image quality (STD). :Signal flow 1. Switch the input on the TV to the connected jack.

2. Connect your camcorder and the TV using an AV Cable (3. Play a movie or a photo on the camcorder. Notes Refer to the instruction manuals of the TV as well. You should use the AC Adaptor as the power source (models with an AC Adaptor).

[Details] When you play back standard definition image quality (STD) movies on a 4:3 TV that is not compatible with the 16:9 signal, set [Wide Mode] to [4:3] to record movies with 4:3 aspect ratio. If you connect your camcorder to the TV using more than one type of cable to output images, HDMI input takes priority on the TV. ; sold separately). Related topics Information on supplied items: Differences in supplied items [TV Type] Back to top Copyright 2013 Sony Corporation 70 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Playing images on a TV > Playing images on a non-high-definition TV > Setting the aspect ratio according to the connected TV (16:9/4:3) Setting the aspect ratio according to the connected TV (16:9/4:3) Set [TV Type] to [16:9] or [4:3] according to your TV.



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You can display the camcorder screens such as Event View, play selected movies or display selected photos by pressing up/down/left/right/enter buttons of the remote commander of your TV. Notes There may be some operations you cannot do with the remote commander. Set [CTRL FOR HDMI] to [On]. Also set your TV accordingly. Refer to the instruction manual of the TV for details. The operation of "BRAVIA" Sync differs according to each model of BRAVIA. Refer to the instruction manual of your TV for details. If you turn off the TV, your camcorder is turned off simultaneously. Back to top Copyright 2013 Sony Corporation 74 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Saving images with an external device > Using the "PlayMemories Home" software > Playing images on a computer Playing images on a computer The "PlayMemories Home" software allows you to import movies and still images to your computer to use them in a variety of ways. What you can do with "PlayMemories Home" software (Windows) A: Import images from the camcorder / B: View images in a calendar / C: Upload images to online services / D: Create a movie disc / E: Share images in "PlayMemories Online" "PlayMemories Home" can be downloaded from the following URL. www.sony.net/pm Notes An Internet connection is required to install "PlayMemories Home." An Internet connection is required to use "PlayMemories Online" and other online services. The services may not be available in some countries/regions.

Software for Mac The "PlayMemories Home" software is not supported with Mac. To import images from the camcorder to your Mac and play them, use the appropriate software on your Mac. For details, visit the following URL. <http://www.sony.co.jp/imsoft/Mac/> Back to top Copyright 2013 Sony Corporation 75 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list OS 1 Top page > Saving images with an external device > Using the "PlayMemories Home" software > Checking the computer system Checking the computer system Microsoft Windows XP SP3* 2 / Windows Vista SP2* 3 / Windows 7 SP1 / Windows 8 CPU* 4 Intel Core Duo 1.66 GHz or faster, or Intel Core 2 Duo 1.66 GHz or faster (Intel Core 2 Duo 2.26 GHz or faster is required when processing FX or FH movies, and Intel Core 2 Duo 2.40 GHz or faster is required when processing PS movies.) Memory Windows XP: 512 MB or more (1 GB or more is recommended) Windows Vista/ Windows 7/ Windows 8: 1 GB or more Hard disk Disk volume required for installation: Approximately 500 MB Display Minimum 1,024 x 768 dots * 1 Standard installation is required. Operation is not assured if the OS has been upgraded or in a multi-boot environment. * 2 64-bit editions and Starter (Edition) are not supported. Windows Image Mastering API (IMAPI) Ver.*

*2.0 or newer is required to use disc creation function, etc. * 3 Starter (Edition) is not supported. * 4 Faster processor is recommended. Notes Operation with all computer environments is not assured. Back to top Copyright 2013 Sony Corporation 76 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Saving images with an external device > Using the "PlayMemories Home" software > Installing the "PlayMemories Home" software in your computer Installing the "PlayMemories Home" software in your computer 1. Access the following download site using an Internet browser on your computer, then click [Install] [Run]. www.sony.net/pm 2.*

Install according to the on-screen instructions. When the on-screen instructions prompting you to connect the camcorder to a computer appear, connect the camcorder to your computer with the Built-in USB Cable. When the installation completes, "PlayMemories Home" starts up. Notes on installation If the "PlayMemories Home" software is already installed on your computer, connect the camcorder to your computer. Functions that can be used with this camcorder will then be available.

If the "PMB (Picture Motion Browser)" software is installed on your computer, it will be overwritten by the "PlayMemories Home" software.



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In this case, you cannot use some functions that were available with "PMB" with this "PlayMemories Home" software. Notes When you access the camcorder from the computer, use the "PlayMemories Home" software. Operation is not guaranteed if you operate the data using software other than the "PlayMemories Home" software or you directly manipulate files and the folders from a computer. Images cannot be saved to some discs depending on the configuration selected in [REC Mode].

Movies recorded in [60p Quality] (models with the NTSC color system) / [50p Quality] (models with the PAL color system) or [Highest Quality] mode can only be saved to a Blu-ray disc. You cannot create a disc with movies recorded in [MP4] mode. The camcorder automatically divides an image file that exceeds 2 GB and saves the parts as separate files. All image files may be shown as separate files on a computer, however, the files will be handled properly by the import function and the playback function of the camcorder or the "PlayMemories Home" software. Back to top Copyright 2013 Sony Corporation 77 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list 2. Select Top page > Saving images with an external device > Using the "PlayMemories Home" software > Disconnecting your camcorder from the computer Disconnecting your camcorder from the computer 1. Click the icon at the bottom right of the desktop of the computer [Safely remove USB Mass Storage Device]. [Yes] on the camcorder screen. 3. Disconnect the USB cable.

If you are using Windows 7 or Windows 8, click Copyright 2013 Sony Corporation , then click . Back to top 78 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Saving images with an external device > Using the "PlayMemories Home" software > The devices on which the created disc can be played back The devices on which the created disc can be played back Blu-ray discs Blu-ray disc player such as a Sony Blu-ray disc player or PlayStation® 3 DVD disc with high definition image quality (HD) AVCHD format playback devices, such as a Sony Blu-ray disc player or a PlayStation® 3 Notes The AVCHD recording disc can be played back only on AVCHD format compatible devices. Discs with high definition image quality (HD) images recorded should not be used in DVD players/recorders. Because DVD players/recorders are not compatible with the AVCHD format, DVD players/recorders may fail to eject the disc. Always keep your PlayStation® 3 upgraded to the latest version of its system software. The PlayStation® 3 may not be available in some countries/regions. To create a Blu-ray disc You can create a Blu-ray disc with a high definition image quality (HD) movie previously imported to a computer. To create a Blu-ray disc, the "BD Add-on Software" must be installed. <http://support.d-imaging.sony.co.jp/BDUW/> Your computer must support the creation of Blu-ray discs. BD-R (unrewritable) and BD-RE (rewritable) media are available for creating Blu-ray discs. You cannot add contents to either type of disc after creating the disc.

To play back a Blu-ray disc that has been created with a movie that was recorded in [60p Quality (models with the NTSC color system) / [50p Quality] (models with the PAL color system) image quality, you need a device that complies with the AVCHD Ver. 2.0 format. Copyright 2013 Sony Corporation] Back to top 79 "Handycam" User Guide Search Print Operation Search Before use Getting started Recording Playback Playing images on a TV Saving images with an external device Customizing your camcorder Troubleshooting Maintenance and precautions Contents list Top page > Saving images with an external device > Using the "PlayMemories Home" software > Starting the "PlayMemories Home" software Starting the "PlayMemories Home" software 1. Double-click the "PlayMemories Home" icon on the computer screen.

The "PlayMemories Home" software starts up. When using Windows 8, select the "PlayMemories Home" icon from the start screen. 2. Double-click the "PlayMemories Home Help Guide" short-cut icon on the computer screen to see how to use "PlayMemories Home." When using Windows 8, select [PlayMemories Home Help Guide] from the help menu of "PlayMemories Home." [All Programs] If the icon is not displayed on the computer screen, click [Start] [PlayMemories Home] the desired item. For details on "PlayMemories Home," select ("PlayMemories Home Help Guide") on the software or visit the PlayMemories Home support page (<http://www.sony.co.jp/pmh-se/>).

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