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You can read the recommendations in the user guide, the technical guide or the installation guide for SONY HANDYCAM HDR-PJ380. You'll find the answers to all your questions on the SONY HANDYCAM HDR-PJ380 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SONY HANDYCAM HDR-PJ380
User guide SONY HANDYCAM HDR-PJ380
Operating instructions SONY HANDYCAM HDR-PJ380
Instructions for use SONY HANDYCAM HDR-PJ380
Instruction manual SONY HANDYCAM HDR-PJ380

SONY

4-447-519-12(1)

Digital HD Video
Camera Recorder

Operating Guide



Please also refer to:
<http://www.sony.net/SonyInfo/Support/>

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HANDYCAM.

AVCHD Progressive HDMI



HDR-CX320/CX320E/CX380/CX380E/CX390E/PJ320E/PJ380/PJ380E/PJ390E



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. 39 40 41 45 48 50 15 GB Parts and controls Figures in () are reference pages. □ LCD screen/Touch panel (20) If you rotate the LCD panel 180 degrees, you can close the LCD panel with the LCD screen facing out. This is convenient during playback operations. □ PROJECTOR FOCUS lever (28) □ Projector lens (28) HDR-CX320/CX320E/CX380/CX380E/ CX390E □ Lens (G lens) □ Built-in microphones HDR-PJ320E/PJ380/PJ380E/PJ390E HDR-PJ320E/PJ380/PJ380E/PJ390E □ HDMI OUT jack (27) □ PROJECTOR IN jack (29) □ Speaker □ PROJECTOR button (28) □ □ (View Images) button (microphone) jack (PLUG IN POWER) □ POWER button 16 GB To fasten the grip belt □ Power zoom lever (24) □ PHOTO button (23) □ POWER/CHG (charge) lamp (18) □ Battery pack (18) □ START/STOP button (23) □ DC IN jack (18) □ Multi/Micro USB Terminal Supports Micro USB compatible devices. □ Grip belt □ Built-in USB Cable (19) □ Memory card access lamp (21) 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 (21) □ BATT (battery) release lever (18) 17 GB Getting started Charging the battery pack For information on your camcorder model, see the following page: Functions

and equipment □ p.12 1 Close 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. To remove the battery pack, close the LCD screen, then slide the BATT (battery) release lever and remove the battery pack. Battery pack 2 Connect the AC Adaptor (□) and the power cord (mains lead) (□) to your camcorder and 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.

DC plug To the wall outlet (wall socket) Align the □ mark on the DC plug with that on the DC IN jack POWER/CHG (charge) lamp DC IN jack 18 GB Charging the battery using your computer Connect the camcorder to a running computer using the Built-in USB Cable. □ □ □ The POWER/CHG (charge) lamp turns orange. The POWER/CHG (charge) lamp turns off when the battery is fully charged. Use the USB connection support cable when the Built-in USB Cable is too short for connection. Built-in USB Cable To the wall outlet (wall socket) Getting started 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 CPAH2R, CP-AL, or AC-UP100 portable power supply device (sold separately) to charge the camcorder. □ Notes 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], p. 38).

Charging time Approximate time (min.) required when you fully charge a fully discharged battery pack (supplied).

NP-FV30 (supplied with HDR-CX320/CX320E/CX380/CX380E/CX390E): When using the AC Adaptor: 115 min. When using your computer connected with the Built-in USB Cable*: 150 min. NP-FV50 (supplied with HDR-PJ320E/PJ380/PJ380E/PJ390E): When using the AC Adaptor: 155 min. When using your computer connected with the Built-in USB Cable*: 280 min. The charging times shown 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). * The charging times are measured without using the USB connection support cable. 19 GB Setting For information on your camcorder model, see the following page: Functions and equipment □ p.12 Preparing your camcorder 1 Open the LCD screen of your camcorder and turn the power on. □ To turn off the power, close the LCD screen.

2 Select the desired language, the geographical area, and the time touching the LCD screen. Touch the button on the LCD screen. To turn off the beep sound Select □ [Setup] □ [General Settings] □ [Beep] □ [Off]. □ 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 □ [Setup] □ [Playback Settings] □ [Data Code] □ [Date/Time]. Changing the recording media (Models with internal memory) In the default setting, movies and photos are recorded on the internal memory. You can change the recording media to a memory card. □ [Setup] □ [Media Settings] □ [Media Select] □ the desired medium.

Select 20 GB Inserting a memory card Open the cover, and insert the memory card until it clicks. □ Access lamp To eject the memory card, lightly push the memory card in once. Getting started Insert the card with the notched corner in the direction as illustrated. Notes To ensure stable operation of the memory card, it is recommended to format the memory card with your camcorder before the first use (p. 37).

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. 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.

□ □ □ 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 □ Capacity (operation verified) Up to 32 GB Up to 64 GB Described in this manual “Memory Stick PRO Duo” media — Class 4 or faster Up to 64 GB SD card Operation with all memory cards is not assured.



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28 GB To use the projector for your computer or smartphone □ □ HDMI Cable (supplied) 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. @@@@Notes The LCD screen turns off while projecting images. @@□ Make sure not to project images towards the eyes. □ Make sure not to touch the projector lens. @@@@For details, visit the following URL. @@@*2 64-bit editions and Starter (Edition) are not supported. @@*3 Starter (Edition) is not supported.

*4 Faster processor is recommended. Notes □ Built-in USB Cable □ When the installation completes, "PlayMemories Home" starts up. Operation with all computer environments is not assured. 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. In this case, you cannot use some 31 GB functions that were available with "PMB" with this "PlayMemories Home" software. Starting the "PlayMemories Home" software 1 Double-click the "PlayMemories Home" icon on the computer screen. To disconnect 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]. □ 2 Select screen.

□ □ [Yes] on the camcorder When using Windows 8, select the "PlayMemories Home" icon from the start screen. 3 Disconnect the USB cable. If you are using Windows 7 or Windows 8, click , then click . 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. @@@@You cannot create a disc with movies recorded MP4] mode. @@@@18). Refer to the instruction manual supplied with the device connected. You cannot copy images to recorders connected with an HDMI cable. @@@@37) Using 4:3 screen size display device: [TV Type] (p.

@@Records movies. Photo.....

.....
.....
.....

@@Adjusts the color balance to the recording environment. . Spot Meter/Fcs...

.....
.....

... Adjusts the brightness and focus for the selected subject simultaneously. Spot Meter.....

.....
.....

..... Adjusts the brightness of images to a subject you touch on the screen. Spot Focus.

.....
.....

... Adjusts the focus on a subject you touch on the screen. Exposure.....

.....
.....

. Adjusts the brightness of movies and photos. If you select [Manual], adjust . / . the brightness (exposure) using to adjust Focus.....

.....
.....

..... Adjusts the focus manually. If you select [Manual], select to adjust the focus for a distant the focus for a nearby subject and subject.

Low Lux.....

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.....

Records bright color images in the dim. Camera Settings Scene Selection.....

.....
.....

Selects an appropriate recording setting according to the type of scene, such as night view or beach. Fader....

... Fades scenes in or out. Self-Timer.

.....
.....

.. Sets the self-timer when your camcorder is in photo recording mode. Tele Macro.....

.....

.....
..... Focuses on the subject with its background blurred. SteadyShot..

.....
... Sets the SteadyShot function when recording movies. SteadyShot.

.....
..... Sets the SteadyShot function when shooting photos.

Digital Zoom.....

.....
.....
Sets the maximum zoom level of the digital zoom. Auto Back Light.....

..... Adjusts the exposure for backlit subjects automatically. . Face Face Detection...

.....
.....
... Automatically detects faces. Smile Shutter.....

.....
... Automatically takes a shot whenever a smile is detected. Smile Sensitivity.

..... Sets the smile detection sensitivity for the Smile Shutter function. Microphone Closer Voice..

.....
.....
.....
Detects human faces and records the associated voice clearly. Blt-in Zoom Mic.....

..... Records movies with vivid sound appropriate to the zoom position. Auto Wind NR....

.....
.....
.....
.... Recognizes the recording conditions and reduces the wind noise. Micref Level....

.....
.....
.. Sets the microphone level for recording. Shooting Assist My Button..

.....
.....
... Assigns functions to My Buttons. Grid Line.

.....
.. Displays grid lines as a guide to make sure the subject is horizontal or vertical. Display Setting..

.....
..... Sets the duration that icons or indicators are displayed on the LCD screen.

36 GB Image Quality/Size REC Mode.....

.....
.....
..... Sets the mode to record movies. Frame Rate..

.....
.....
.....
... Sets the frame rate to record movies. // Setting..... Sets the image quality for recording movies.

Wide Mode.....

..... Sets the horizontal to vertical ratio when recording movies with standard definition image quality (STD). x.v.Color..

.....
.....
.....
..... Records a wider range of colors. Set this item when you watch images with .

a TV which is compliant with x.v.Color. Image Size.....

.....

.....

..... Sets the photo size.

Playback Function Event View.....

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.....

.... Starts playing images from the Event View display. Highlight Movie.....

.....

.....

..... Starts playing Highlight Playback scenes or Highlight Scenarios saved with standard definition image quality (STD). Scenario.

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. Starts playing the scenarios that were saved by Highlight Playback. Edit/Copy Delete.....

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.... Deletes movies or photos.

Protect.....

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..... Protects movies or photos to avoid deleting. Copy...*

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Copies images. Direct Copy...

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... Copies images stored in the camcorder to some type of external media device. Customizing your camcorder Setup Media Settings Media Select.*

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.....

.. Selects the type of recording media (p. 20). Media Info.....

.....

.....

..... Displays information on the recording media.

Format.....

.....

.....

.....

.. Deletes and formats all data on the recording media. Repair Img. DB F.....

.....

... Repairs the image database file on the recording media (p. 41).

File Number.....

.....

. Sets how to assign the file number to photos. . Playback Settings Data Code..

.....
.....

..... Displays information that was recorded automatically at the time of recording. Volume.

.....
.....
.....

..... Adjusts the volume of playback sound. Download Music**....

.... Downloads your favorite music files from the computer to your camcorder (while the camcorder is connected to the computer) that can be played with the Highlight Playback scenes.
Empty Music**.....

..... Deletes all music files. Connection TV Type...

.....
.....
.....

..... Converts the signal depending on the TV connected (p. 27). HDMI Resolution.

.....
.....

. Selects the output image resolution when connecting your camcorder to a TV with the HDMI cable. CTRL FOR HDMI.....

..... Sets whether or not the TV's Remote Commander is to be used when the camcorder is connected to a "BRAVIA" Sync compatible TV with the HDMI cable. GB 37 USB Connect...

.....
.....

..... @@USB Connect Setting...

. @@USB LUN Setting.....
.... @@General Settings Beep.

.....
.....

Sets whether the camcorder sounds operation beeps or not. LCD Brightness

..... Adjusts the brightness of the LCD screen. Power On By LCD....

.....
.....

.. @@Language Setting...

..... Sets the display language (p. 10). Calibration.

.....
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.....

... Calibrates the touch panel. Battery Info.....

.....
.....

.. Displays the approximate remaining battery time. Power Save.



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The camcorder may not be able to record properly. □ Near tuner devices such as TVs or radio. Noise may occur. 41 GB □ □ □ □ □ □ □ □ □ a sandy beach or anywhere dusty. If sand or dust gets in your camcorder, it may malfunction.

Sometimes this malfunction cannot be repaired. □ Near windows or outdoors, where the LCD screen, or the lens may be exposed to direct sunlight. This damages the LCD screen. For DC or AC operation, use the accessories recommended in these operating instructions. Do not let your camcorder get wet, for example, from rain or sea water.



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If your camcorder gets wet, it may malfunction. Sometimes this malfunction cannot be repaired. If any solid object or liquid gets inside the casing, unplug your camcorder and have it checked by a Sony dealer before operating it any further. Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping or stepping on the product. Be particularly careful with the lens. Keep the LCD screen closed when you are not using your camcorder. Do not operate your camcorder with it wrapped in an object such as a towel. When disconnecting the power cord (mains lead), pull it by the plug and not the cord. Do not damage the power cord (mains lead) such as by placing anything heavy on it. Do not use a deformed or damaged battery pack.

Keep metal contacts clean. If the battery electrolytic liquid has leaked: □ Consult your local authorized Sony service facility. □ Wash off any liquid that may have contacted your skin. □ If any liquid gets in your eyes, wash with plenty of water and consult a doctor. □ On □ Use up the battery pack completely before storing it. Note on the camcorder/battery pack temperature □ When the temperature of the camcorder or battery pack becomes extremely high or extremely low, you may not be able to record or play back on the camcorder, due to the protection features of the camcorder being activated in such situations. In this case, an indicator appears on the LCD screen. Notes on charging through the USB cable □ □ □ Charging may not be possible with all computers. If you connect the camcorder to a laptop computer that is not connected to a power source, the battery of the laptop computer will continue to use up its charge. Do not leave the camcorder connected to a computer in this manner.

Charging with a personally assembled computer, with a converted computer, or through a USB hub are not guaranteed. The camcorder may not function correctly depending on the USB device which is used with the computer. When the camcorder is connected to a computer or accessories □ When not using your camcorder for a long time □ □ 42 GB To keep your camcorder in optimum state for a long time, turn it on and let it run by recording and playing back images about once a month. Do not try to format the recording media of the camcorder with a computer. If you do so, your camcorder may not operate correctly.

When connecting the camcorder to another device with communication cables, be sure to insert the connector plug in the correct way. Pushing the plug forcibly into the terminal will damage the terminal and may result in a malfunction of the camcorder. □ When the camcorder is connected to other devices through a USB connection and the power of the camcorder is turned on, do not close the LCD panel. The image data that has been recorded may be lost. □ □

Notes on optional accessories □ □ We recommend using genuine Sony accessories.

Genuine Sony accessories may not be available in some countries/regions. On handling the LCD screen □ If the casing and the projector lens is very dirty, clean the camcorder casing and the lens with a soft cloth lightly moistened with water, and then wipe the casing and the projector lens with a dry soft cloth.

Avoid the following so as not to deform the casing, damage the finish or scratch the lens: □ Using chemicals such as thinner, benzine, alcohol, chemical cloths, insect repellent, insecticide and sunscreen □ Handling the camcorder with the above substances on your hands □ Leaving the camcorder in contact with rubber or vinyl objects for a long period of time □ □ If you leave fingerprints, hand cream, etc. on the LCD screen, the coating of the LCD screen will come off easily. Wipe those off as soon as possible. If you wipe the LCD screen strongly with a tissue, etc., the coating of the LCD screen may be scratched. If the LCD screen becomes dirty with fingerprints or dust, it is recommended that you gently remove those from the screen then clean it with a soft cloth, etc.

About care and storage of the lens □ □ □ LCD screen □ Wipe the surface of the lens clean with a soft cloth in the following instances: □ When there are fingerprints on the lens surface □ In hot or humid locations □ When the lens is exposed to salty air such as at the seaside Store in a well-ventilated location subject to little dirt or dust. To prevent mold, periodically clean and store the lens as described above.

Others/Index □ □ Do not apply excessive pressure on the LCD screen, as it may cause uneven color and other damage. If your camcorder is used in a cold place, a residual image may appear on the LCD screen. This is not a malfunction. While using your camcorder, the back of the LCD screen may heat up. This is not a malfunction. To clean the casing and the projector lens (Models with a projector) □ Wipe the casing and the lens gently with a soft cloth such as a cleaning cloth or eyeglass cleaning cloth. 43 GB On charging the pre-installed rechargeable battery Your camcorder has a pre-installed rechargeable battery to retain the date, time, and other settings even when the LCD screen is closed. The pre-installed rechargeable battery is always charged while your camcorder is connected to the wall outlet (wall socket) via the AC Adaptor or while the battery pack is attached. The rechargeable battery will be fully discharged in about 3 months if you do not use your camcorder at all. Charge the pre-installed rechargeable battery before you start using your camcorder.

However, even if the pre-installed rechargeable battery is not charged, the camcorder operation other than date recording will not be affected. Note on disposal/transfer the ownership of the camcorder (Models with internal memory) Even if you delete all movies and still images, or perform [Format] (p. 37), data on the internal memory may not be completely erased. It is recommended that □ [Setup] □ [Media you select Settings] □ [Format] □ [Empty] to prevent the recovery of your data. How to charge the pre-installed rechargeable battery Connect your camcorder to a wall outlet (wall socket) using the supplied AC Adaptor or attach the fully charged battery pack, and leave it with the LCD screen closed for more than 24 hours.

44 GB Specifications System Signal format: NTSC color, EIA standards (HDR-CX320/ CX380/PJ380) PAL color, CCIR standards (HDR-CX320E/ CX380E/CX390E/PJ320E/PJ380E/PJ390E) HD TV Movie recording format: AVCHD (AVCHD format Ver.2.0 compatible): Video: MPEG-4 AVC/H.264 Audio: Dolby Digital 2ch Dolby Digital Stereo Creator*1 MPEG-2 PS: Video: MPEG-2 (Video) Audio: Dolby Digital 2ch Dolby Digital Stereo Creator*1 MP4: Video: MPEG-4 AVC/H.264 Audio: MPEG-4 AAC-LC 2ch *1 Manufactured under license from Dolby Laboratories.

Photo file format: DCF Ver.2.0 Compatible Exif Ver.2.3 Compatible MPF Baseline Compatible Recording media (Movie/Photo): Internal memory HDR-CX380/CX380E/PJ380/PJ380E: 16GB HDR-CX390E/PJ390E: 32GB "Memory Stick PRO Duo" media SD card (Class 4 or faster) The capacity that a user can use HDR-CX380/CX380E: Approx.



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15.5 GB*6 HDR-PJ380/PJ380E: Approx. 15.5 GB*2 HDR-CX390E: Approx. 31.

1 GB*6 HDR-PJ390E: Approx. 31.1 GB*2 *6 1 GB equals 1 billion bytes, a portion of which is used for system management and/or application files. *2 1 GB equals 1 billion bytes, a portion of which is used for system management and/or application files. Only preinstalled demonstration movie may be deleted. Image device: 3.1 mm (1/5.8 type) CMOS Sensor Recording pixels (photo, 16:9): Max. 8.9 mega (3 984 □ 2 240) pixels*3 Gross: Approx. 2 390 000 pixels Effective (movie, 16:9)*4: Approx. 2 290 000 pixels Effective (photo, 16:9): Approx. 2 290 000 pixels Effective (photo, 4:3): Approx. 1 710 000 pixels Lens: G Lens 30× (Optical)*4, 55× (Extended, while recording movies)*5, 350× (Digital) F1.8 ~ F4.

0 Focal length: f= 1.9 mm ~ 57.0 mm (3/32 in. ~ 2 1/4 in.) When converted to a 35 mm still camera For movies*4: 26.

8 mm ~ 804 mm (1 1/16 in. ~ 31 3/4 in.) (16:9) For photos: 26.8 mm ~ 804 mm (1 1/16 in. ~ 31 3/4 in.) (16:9) Color temperature: [Auto], [One Push], [Indoor], [Outdoor] Minimum illumination: 6 lx (lux) (in default setting, shutter speed 1/30 second (HDR-CX320/CX380/PJ380) or 1/25 second (HDR-CX320E/CX380E/ CX390E/PJ320E/PJ380E/PJ390E)) 3 lx (lux) ([Low Lux] is set to [On], shutter speed 1/30 second (HDR-CX320/CX380/ PJ380) or 1/25 second (HDR-CX320E/ CX380E/CX390E/PJ320E/PJ380E/PJ390E)) *3 The unique image processing system of Sony's BIONZ allows still image resolution equivalent to the sizes described. 4 * [SteadyShot] is set to [Standard] or [Off]. 5 * [SteadyShot] is set to [Active]. Others/Index Input/Output connectors HDMI OUT jack: HDMI micro connector PROJECTOR IN jack (HDR-PJ320E/PJ380/ PJ380E/PJ390E): HDMI micro connector MIC input jack: Stereo minijack (□ 3.5 mm) USB jack: Type A (Built-in USB) Multi/Micro USB Terminal* * Supports Micro USB compatible devices.

□ USB connection is only for output (HDCX320E/CX380E/CX390E/PJ320E/PJ380E/ PJ390E). LCD screen Picture: 7.5 cm (3.0 type, aspect ratio 16:9) Total number of pixels: 230 400 (960 □ 240) 45 GB Projector (HDR-PJ320E/PJ380/PJ380E/ PJ390E) Projection type: DLP Light source: LED (R/G/B) Focus: Manual Throw Distance: 0.5 m (1.6 feet) or over Contrast ratio: 1500:1 Resolution (output): nHD (640 □ 360) Continuous projection time (when using the supplied battery pack): Approx. 1 h 30 min. HDR-PJ320E/PJ380/PJ380E/PJ390E: 210 g (7.4 oz) main unit only 263 g (9.3 oz) including the supplied rechargeable battery pack AC Adaptor AC-L200C/AC-L200D Power requirements: AC 100 V - 240 V, 50 Hz/60 Hz Current consumption: 0.35 A - 0.18 A Power consumption: 18 W Output voltage: DC 8.4 V Output current: 1.7 A Operating temperature: 0 □C to 40 □C (32 °F to 104 °F) Storage temperature: -20 □C to +60 □C (-4 °F to +140 °F) Dimensions (approx.): 48 mm □ 29 mm □ 81 mm (1 15/16 in.

□ 1 3/16 in. □ 3 1/4 in.) (w/h/d) excluding the projecting parts Mass (approx.): 150 g (5.3 oz) excluding the power cord (mains lead) General Power requirements: DC 6.

8 V/7.2 V (battery pack) DC 8.4 V (AC Adaptor) USB Charging: DC 5 V 500 mA/1.5 A Average power consumption: During camera recording using LCD screen at normal brightness: HDR-CX320/CX320E/CX380/CX380E/ CX390E HD: 2.2 W MP4: 2.0 W STD: 2.1 W HDR-PJ320E/PJ380/PJ380E/PJ390E HD: 2.4 W MP4: 2.1 W STD: 2.2 W Operating temperature: 0 □C to 40 □C (32 °F to 104 °F) Storage temperature: -20 □C to +60 □C (-4 °F to +140 °F) Dimensions (approx.

): HDR-CX320/CX320E/CX380/CX380E/ CX390E: 53 mm □ 57 mm □ 117 mm (2 1/8 in. □ 2 1/4 in. □ 4 5/8 in.) (w/h/d) including the projecting parts 53 mm □ 57 mm □ 125 mm (2 1/8 in. □ 2 1/4 in. @ □ 2 1/4 in. @ @ □ 2 1/4 in. @ @ @ @ to [Standard Typical recording time shows the time when you repeat recording start/stop, switching the movie or photo mode, and zooming. When using a Sony memory card. Times measured when using the camcorder at 25 □C (77 °F).

10 □C to 30 □C (50 °F to 86 °F) is recommended. The recording and playback time will be shorter, depending on the conditions under which you use your camcorder, such as when use your camcorder in low temperatures. The maximum recording time of movies and number of photos that can be recorded, are displayed on the screen (p.49). □ □ □ □ □ "Handycam" and are registered trademarks of Sony Corporation.

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YouTube and the YouTube logo are trademarks or registered trademarks of Google Inc. The following indicators appear when you change the settings. Center Left Right All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies. Furthermore, □ and □ are not mentioned in each case in this manual. Add further enjoyment with your PlayStation 3 by downloading the application for PlayStation 3 from PlayStation Store (where available.) The application for PlayStation 3 requires PlayStation Network account and application download. Accessible in areas where the PlayStation Store is available. Bottom Left Indicator Meaning MENU button (35) Self-timer recording (36) Wide Mode (37) Fader (36) [Face Detection] set to [Off] (36) [Smile Shutter] set to [Off] (36) Manual focus (36) Scene Selection (36) White Balance (36) SteadyShot off (36) Tele Macro (36) Destination (38) Intelligent Auto (face detection/scene detection/ camera-shake detection/ sound detection) (24) Meaning Slideshow Set Warning (40) Playback mode (25) □ □ □ Center Indicator □ □ 48 GB Right Indicator 60i 720 Meaning Recording image quality (HD/MP4/STD), frame rate (60p/50p/60i/50i), recording mode (PS/FX/ FH/HQ/LP) and movie size (37) Remaining battery Recording/playback/ editing media (20) Counter (hour:minute: second) Estimated remaining recording time Approximate number of recordable photos and photo size (37) Playback folder Current playing movie or photo/Number of total recorded movies or photos Connection to the external media device (33) Meaning [Micref Level] low (36) [Auto Wind NR] set to [Off] (36) [Closer Voice] set to [Off] (36) Bt-in Zoom Mic (36) Low Lux (36) Spot Meter/Fcs (36)/Spot Meter (36)/ Exposure (36) Intelligent Auto (24)

Data file name Protect (37) 60min 0:00:00 00min 9999 8.



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9M 100/112 Others/Index Bottom Indicator 101-0005 □ □ □ Indicators and their positions are approximate and may differ from what you actually see. Some indicators may not appear, depending on your camcorder model.

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