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You can read the recommendations in the user guide, the technical guide or the installation guide for SONY NEX 5T. You'll find the answers to all your questions on the SONY NEX 5T in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SONY NEX 5T
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<http://www.sony.net/SonyInfo/Support/>

SONY 4-469-371-41(1)

NEX-5T

E-mount

Interchangeable Lens Digital Camera/Instructi on Manual	GB
Appareil photo à objectif interchangeable/Mode d'emploi	FR
Digital kamera mit Wechselobjektiv/Gebrauchsanleitung	DE
Cámara Digital de Lentes Intercambiables/Manual de instrucciones	ES
Fotocamera digitale con obiettivo intercambiabile/Istruzioni per l'uso	IT
Cámara Digital de Objectivos intercambiables/Manual de instruções	PT
Digitale camera met verwisselbare lens/Gebrauksaanwijzing	NL
Aparat cyfrowy z wymiennymi obiektywami/Instrukcja obsługi	PL
Digital kamera med utbyttbart objektiv/Handledning	SE
Digitaalinen kamera vaihdettavalla objektiivillä/Käyttöopas	FI
Digital kamera med utskiftbart objektiv/Bruksanvisning	NO
Digital kamera med udskifteligt objektiv/Bedøingsvejledning	DK

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NEX-5T



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Manual abstract:

@@ Model No. NEX-5T Serial No. _____ Model No. AC-UB10C/AC-UB10D Serial No. @@ Observe the following cautions. ? Do not disassemble. ? @@? Do not short circuit and do not allow metal objects to come into contact with the battery terminals. GB 2 ? Do not expose to high temperature above 60C (140F) such as in direct sunlight or in a car parked in the sun. ? Do not incinerate or dispose of in fire. ? Do not handle damaged or leaking lithium ion batteries.

? Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack. ? Keep the battery pack out of the reach of small children. ? Keep the battery pack dry. ? Replace only with the same or equivalent type recommended by Sony. ? Dispose of used battery packs promptly as described in the instructions.

[AC Adaptor Use the nearby wall outlet (wall socket) when using the AC Adaptor. Disconnect the AC Adaptor from the wall outlet (wall socket) immediately if any malfunction occurs while using the apparatus. The power cord (mains lead), if supplied, is designed specifically for use with this camera only, and should not be used with other electrical equipment. GB For Customers in the U.S.

A. and Canada [RECYCLING LITHIUM-ION BATTERIES Lithium-Ion batteries are recyclable. You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you. For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.call2recycle.org/> Caution: Do not handle damaged or leaking Lithium-Ion batteries. [Battery pack and lens (If lens supplied) This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. CAN ICES-3 B/NMB-3 B This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

GB 3 For Customers in the U.S.A. UL is an internationally recognized safety organization. The UL Mark on the product means it has been UL Listed. If you have any questions about this product, you may call: Sony Customer Information Center 1-800-222-SONY (7669) The number below is for the FCC related matters only. [Regulatory Information Declaration of Conformity Trade Name: SONY Model No.: NEX-5T Responsible Party: Sony Electronics Inc. Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.

A. Telephone No.: 858-942-2230 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment must not be co-located or operated in conjunction with any other antenna or transmitter.

[CAUTION You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment. [Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: ? Reorient or relocate the receiving antenna. ? Increase the separation between the equipment and receiver. ? Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. ? Consult the dealer or an experienced radio/TV technician for help. GB 4 The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules. For Customers in Canada This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. For Customers in Europe [Notice for the customers in the countries applying EU Directives Manufacturer: Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan For EU product compliance: Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany Hereby, Sony Corporation, declares that this NEX-5T Interchangeable Lens Digital Camera is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For details, please access the following URL: <http://www.compliance.sony.de/>

[Notice If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again. This product has been tested and found compliant with the limits set out in the EMC regulation for using connection cables shorter than 3 meters (9.8 feet). The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit. GB 5 [Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems) This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.

For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product. [Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems) This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.



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On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.

004% lead. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.

For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product. GB 6 For Customers in Singapore For details on Wi-Fi functions, see the flyer ?Wi-Fi Connection/One-touch (NFC) Guide.? This manual covers several models supplied with different lenses. The model name varies depending on the supplied lens. The available model varies depending on the countries/regions. Model name NEX-5T NEX-5TL NEX-5TY Lens Not supplied E16 ? 50 mm E55 ? 210 mm and E16 ? 50 mm GB 7 Preparing the camera Checking the supplied items First check the model name of your camera (page 7). The accessories supplied differ depending on the model. The number in parentheses indicates the quantity.

x Supplied with all models ? Camera (1) ? Power cord (mains lead) (1)* (not supplied in the U.S.A. and Canada) ? Flash HVL-F7S (1)/Flash case (1) * Multiple power cords may be supplied with your camera. Use the appropriate one that matches your country/region. ? CD-ROM (1) ? Application Software for ? camera ? ? Handbook ? Instruction Manual (This manual) (1) ? Rechargeable battery pack NP-FW50 (1) x NEX-5T ? Body cap (1) (attached to the camera) x NEX-5TL ? Micro USB cable (1) ? E16 ? 50 mm zoom lens (1) (attached to the camera)/Front lens cap (1) (attached to the lens) x NEX-5TY ? AC adaptor AC-UB10C/UB10D (1) ? E16 ? 50 mm zoom lens (1) (attached to the camera)/Front lens cap (1) (attached to the lens) ? E55 ? 210 mm zoom lens (1)/Front lens cap (1)/Rear lens cap (1)/Lens hood (1) ? Shoulder strap (1) GB 8 Identifying parts See the pages in parentheses for details on operation for the parts. C Fn (Function) button D (N mark) ? This mark indicates the touch point for connecting the camera and an NFC-enabled Smartphone. For details on the location of the N mark on your Smartphone, refer to the operating instructions of the Smartphone. When the lens is removed GB A Shutter button (26) B Hook for shoulder strap Attach the shoulder strap to prevent damage caused by dropping the camera. ? NFC (Near Field Communication) is an international standard of shortrange wireless communication technology.

E Remote sensor F ON/OFF (Power) switch (23) G AF illuminator/Self-timer lamp/ Smile Shutter lamp H Smart Accessory Terminal 21) I Microphone2) J Lens (18) K Lens release button (19) L Mount M Image sensor3) N Lens contacts3) GB 9 1) 2) 3) Accessories for the Smart Accessory Terminal can also be attached. You cannot use the [Self-portrait Self-timer] function when a flash HVL-F7S (supplied) or accessories are attached to the Smart Accessory Terminal 2. Do not cover this part during movie recording. Do not touch this part directly. 4) ? You can adjust the LCD screen to an easily viewable angle and shoot from any position.

? Tilt the LCD screen upward about 180 degrees when you take a selfportrait. The 3-second delay selftimer is automatically selected in the default setting. ? When storing the LCD screen after Self-portrait shooting, lower the LCD screen completely until it is charged. Doing so will affect the performance of the battery pack. ? When charging is finished, disconnect the AC Adaptor from the wall outlet (wall socket).

? Be sure to use only genuine Sony brand battery packs, micro USB cable (supplied) and AC Adaptor (supplied). GB x Charging time The charging time is approximately 280 minutes using the AC Adaptor (supplied). Notes ? The above charging time applies when charging a fully depleted battery pack (supplied) at a temperature of 25 C (77 F). Charging time may take longer depending on conditions of use and circumstances. GB 15 x Charging by connecting to a computer The battery pack can be charged by connecting the camera to a computer using a micro USB cable. Notes ? Note the following points when charging via a computer: ? If the camera is connected to a laptop computer that is not connected to a power source, the laptop battery level decreases. Do not leave the camera connected to a computer for an extended period of time. ? Do not turn on/off or restart the computer, or wake the computer to resume from sleep mode when a USB connection has been established between the computer and the camera. That may cause the camera to malfunction. Before turning on/off, or restarting the computer or waking the computer from sleep mode, disconnect the camera from the computer.

? We do not guarantee operation with all computers. No guarantees are made for charging using a custom-built computer, a modified computer, or charging via a USB hub. You may not be able to operate the camera properly, depending on the types of USB devices you are using at the same time. z Using your camera abroad ? Power source You can use your camera and AC Adaptor in any countries/regions where the power supply is within 100 V to 240 V AC, 50 Hz/60 Hz. An electronic voltage transformer is unnecessary and its use may cause a malfunction. GB 16 x Checking the remaining battery level Check the level with the following indicators and percent figures displayed on the LCD screen. ?Battery exhausted.? Battery level High You cannot Low shoot any more image. Notes ? In some circumstances, the displayed battery level may differ from the actual battery level. z What is an ?InfoLITHIUM? battery pack? An ?InfoLITHIUM? battery pack is a lithium-ion battery pack that has functions for exchanging information related to operating conditions with your camera. Using the ?InfoLITHIUM? battery pack, the remaining battery time in percent figures is displayed according to the operating conditions of your camera. GB x Removing the battery pack Turn off the camera, make sure that the access lamp is not lit, slide the lock lever in the direction of the arrow, and pull out the battery pack. Be careful not to drop the battery pack. Lock lever Access lamp GB 17 Attaching/removing the lens Set the power switch of the camera to OFF before you attach or remove the lens.



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1 If the cap or the packaging lid is attached, remove it from the camera or the lens.

? Quickly change the lens somewhere away from dusty locations so as to keep dust or debris from getting inside the camera. 2 Mount the lens by aligning the white index marks on the lens and the camera. ? Hold the camera's face downward to prevent the dust from entering into the camera. 3 While pushing the lens lightly toward the camera, turn the lens clockwise until it clicks into the locked position. ? Be sure to put the lens on straight.

Notes ? When attaching a lens, do not press the lens release button. ? Do not use excessive force when attaching a lens. ? The Mount Adaptor (sold separately) is required to use an A-mount lens (sold separately). For details, refer to the operating manual supplied with the Mount Adaptor. ? When using a lens equipped with a tripod socket, attach the socket on the lens side to the tripod to maintain balance. GB 18 x Removing the lens 1 Press the lens release button all the way in and turn the lens counterclockwise until it stops. Lens release button Notes ? If dust or debris gets inside the camera while you are changing the lens and adheres to the surface of the image sensor (the part that converts the light source to a digital signal), it may appear as dark spots on the image, depending on the shooting environment. The camera vibrates slightly when it is turned off, due to the anti-dust function, to prevent dust from adhering to the image sensor. However, attach or remove the lens quickly somewhere away from dusty locations. ? Do not leave the camera with the lens removed.

? When you want to use body caps or rear lens caps, please purchase ALC-B1EM (Body cap) or ALC-R1EM (Rear lens cap) (sold separately). ? When you use a lens with a power zoom, set the power switch of the camera to OFF and confirm that the lens is completely retracted before switching lenses. If the lens has not retracted, do not press the lens in by force. ? When attaching the camera to a tripod, be sure not to touch the zooming/focusing ring. GB GB 19

Inserting a memory card (sold separately) 1 Open the cover. 2 Insert a memory card. ? Insert the memory card until it clicks as illustrated. Check on the direction of the notched corner. 3 Close the cover. GB 20 x Memory cards that you can use You can use following types of memory cards with this camera. However, proper operation cannot be guaranteed for all types of the memory cards. Usable memory card ?Memory Stick PRO Duo? media ?Memory Stick PRO-HG Duo? media ?Memory Stick XC-HG Duo? media SD memory card SDHC memory card SDXC memory card Notes ? Images recorded on a ?Memory Stick XC-HG Duo? media or an SDXC memory card cannot be imported to or played on computers or AV devices that are not compatible with exFAT. Make sure that the device is compatible with exFAT before connecting it to the camera. If you connect your camera to an incompatible device, you may be prompted to format the card. Never format the card in response to this prompt, as doing so will erase all data on the card.

(exFAT is the file system used on ?Memory Stick XC-HG Duo? media or SDXC memory cards.) (Class 4 or more) (Class 4 or more) (Class 4 or more) SD card Still image Movie (Mark2) ?Memory Stick PRO Duo? media ?Memory Stick XC Duo? media GB Term in this manual x Removing the memory card Open the cover, make sure that the access lamp is not lit, and push the memory card once. Access lamp Notes ? When the access lamp is lit, do not remove the memory card or the battery pack. The data may be corrupted. GB 21 Attaching the flash When you want to use a flash during shooting, attach the flash device (supplied).

Set the power switch of the camera to OFF before you attach or remove the flash. 1 Attach the flash to the Smart Accessory Terminal 2 of the camera. ? Plug the flash fully into the Smart Accessory Terminal 2 of the camera, and fasten the screw securely. Make sure that the flash is attached to the camera securely. ?

The default setting is [Autoflash]. Notes ? The power for the flash is provided from the camera. When the camera is charging the flash, blinks on the LCD screen. You cannot press the shutter button when this icon is blinking. ? You cannot use the [Self-portrait Self-timer] function when a flash is attached to the camera. z Carrying the flash The flash case can be conveniently attached to the shoulder strap.

Store the flash in the case when you are not using it to protect it from harm. GB 22 Setting the date and time When you turn on the camera for the first time, the screen to set date and time appears. 1 Set the power switch to ON to turn on the camera. The screen to set date and time appears. ? To turn off the camera, set the power switch to OFF. 2 Press the center of the control wheel. Or, touch OK on the screen. GB 3 Select your area by pressing the right or left of the control wheel and press the center. 4 Press the left or right of the control wheel to select each item, and press the top or bottom, or turn it to select the numeric value. Daylight Svc.

: Turns on or off the daytime saving time setting. Date Format: Selects the format to display date. ? Midnight is indicated as 12:00 AM, and noon as 12:00 PM. GB 23 5 Repeat step 4 to set other items, and then press the center of the control wheel. Or, touch OK on the screen.

Notes ? You cannot set the date, time and area by touching the screen. ? You cannot superimpose the date on images on this camera. Using ?PlayMemories Home? stored on the CD-ROM (supplied), you can save or print images with date. Refer to ?PlayMemories Home Help Guide? for more details (page 40). x

Resetting the date and time/Checking the current clock setting Select MENU t [Setup] t [Date/Time Setup].

x Maintaining the date and time setting This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or the battery is installed or not. For details, see page 54. GB 24 Mastering the basic operation Shooting still images In the (Intelligent Auto) mode, the camera analyzes the subject, and allows you to shoot with appropriate settings. 1 Select MENU t [Shoot Mode] t (Intelligent Auto). 2 Point the camera to the subject. When the camera recognizes the scene, the Scene Recognition icon and guide appear on the LCD screen: (Night Scene), (Tripod Night Scene), (Night Portrait), Scene Recognition icon and guide (Backlight), (Backlight Portrait), (Portrait), (Landscape), (Macro), (Spotlight), (Low Brightness), or (Baby). GB 3 Adjust the zoom scale. Lens with zooming lever: Slide the zooming lever. Lens with zooming ring: Rotate the zooming ring. ? Optical zooming is not available with a fixed focus lens.

? When you operate the lens with power zoom, the camera shifts automatically to the [Zoom] feature of the camera when the magnification scale is greater than that of the optical zoom. Zooming ring Zooming lever GB 25 4 Press the shutter button halfway down to focus.



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When the focus is confirmed, beeps sound and z lights up. Focus indicator 5 Press the shutter button fully down. When the camera detects and shoots a face with [Auto Port. Framing] set to [Auto], the captured image is automatically trimmed into a suitable composition. Both the original and the trimmed images are saved. x Shooting still images using touch operation (Touch Shutter function) The camera adjusts the focus and releases the shutter automatically when you simply touch the subject that you want to focus on the screen. You can use the Touch Shutter function when [Touch Shutter] is set to [On] in the MENU. 1 Touch on the screen.

? The icon changes to and the touch shutter shooting becomes available. ? When you touch the icon on the screen again, Touch Shutter shooting is disabled. 2 GB Point the camera to the subject, then touch the subject on the screen that you want to focus. ? The Auto Focus area is displayed on the screen where you touched it. When the focus is confirmed, the camera shoots an image automatically.

26 Recording movies 1 2 Point the camera to the subject. Press the MOVIE button to start recording. ? Focus and brightness are adjusted automatically. ? You can focus quickly by pressing the shutter button down halfway while recording. MOVIE button GB 3 Press the MOVIE button again to stop recording. Notes ? The sound of the camera and the lens in operation might be recorded while recording a movie. ? When you use a lens with a power zoom and find the sound of the zooming ring during recording distracting, it is recommended that you use the zooming lever. When you move the zooming lever, place your finger lightly on the lever and operate so that you do not flip the lever. ? You can disable the sound recording by selecting MENU t [Setup] t [Movie Audio Rec] t [Off]. ? The continuous recording time of a movie depends on the ambient temperature or the condition of the camera. ? When you are recording continuously for a long time, you may feel that the camera is warm. This is normal. Also, ?Internal temp. high. Allow it to cool.

? may appear. In such cases, turn the camera off and wait until the camera is ready to shoot again. GB 27 Playing back images 1 Press the button. (Playback) The last recorded image is displayed on the LCD screen. ? Press the center of the control wheel to enlarge the displayed image. ? Press (Image Index) on the control wheel to switch to the index screen. (Playback) button x Selecting the image Turn the control wheel. Or, slide your finger from left to right across the screen. To switch to the single-image screen from the image index screen, select an image by turning the control wheel, then press the center of the control wheel. x Playing back movies 1 Select MENU t [Playback] t [Still/Movie Select] t [Folder View(MP4)] or [AVCHD View].

? To return to still image playback, select [Folder View(Still)]. 2 Turn the control wheel to select the desired movie, and press the center. Or, touch the desired movie. GB 28 During movie playback Control wheel operation Pause/resume Fast-forward Fast-rewind Forward slow playback Reverse slow playback* Adjust sound volume Press the center. Press the right, or turn the control wheel clockwise. Press the left, or turn the control wheel counterclockwise. Turn clockwise during pause. Turn counterclockwise during pause. Press the bottom, then press top/bottom. Touch panel operation Touch X/N.

Touch M. Touch m. Touch during pause. Touch during pause. ? GB * The movie is played back frame-by-frame. z Displaying a desired folder To select a desired folder, select the bar on the left of the image index screen, and then press the top/bottom parts of the control wheel. You can switch between still image playback and movie playback by pressing the center of the control wheel. You can also select a folder by touching the bar on the left. You can switch between still image playback and movie playback by touching the center of the bar. GB 29 Deleting images You can delete the image that is currently displayed.

1 Press (Delete). Or, touch on the screen. 2 Press the center of the control wheel. Or, touch OK on the screen. ? Select to quit the operation. z Deleting several images Select MENU t [Playback] t [Delete] to select and delete several images at the same time. GB 30 Operating the camera The control wheel, control dial, soft keys and touch panel allow you to use various functions of the camera. x Control wheel When shooting, DISP (Display Contents), (Exposure Comp.), (Drive Mode) and (ISO) functions are assigned to the control wheel. When playing back, DISP (Display Contents) and (Image Index) functions are assigned to the control wheel.

When you turn or press the top/bottom/right/left parts of the control wheel following the on-screen display, you can select setting items. Your selection is determined when you press the center of the control wheel. GB The arrow means you can turn the control wheel. When options are displayed on the screen, you can browse through them by turning or pressing the top/bottom/left/ right parts of the control wheel. Press the center to make your choice.

? The application downloading function may not be available in some countries/ regions. GB 31 x Control dial You can set the aperture value and shutter speed, etc. by turning the control dial. The setting value assigned to the control dial changes for each shooting mode. Control dial Aperture value and shutter speed, etc.

x Soft keys The soft keys have different roles, depending on the context. The assigned role (function) of each soft key is shown on the screen. To use the function shown at the upper right corner of the screen, press soft key A. To use the function shown at the lower right corner of the screen, press soft key B. To use the function shown at the center, press the center of the control wheel (soft key C). In this manual, the soft keys are indicated by the icon or the function shown on the screen. A C B In this case, soft key A works as the MENU (Menu) button, and soft key B as the (Send to Smartphone) button. GB 32 x Touch panel You can operate the camera intuitively by touching the screen or sliding your finger across the screen. Touch the item on the screen to select it. Slide your finger across the screen to scroll down to hidden items.

Touch the item to select it. Sliding your finger across the screen scrolls the items. Items on the screen are replaced with items that were out of view. GB GB 33 x Operations You can select items and make settings in two ways; by one is using the control wheel, or by the other is touching and sliding your finger across the screen (Touch panel). Operation Control wheel Touch panel Touch the desired item. Selecting an item Turn or press the top/bottom/ left/right parts of the control wheel, and then press the center. Displaying a hidden item Slide your finger up or down Keep turning or pressing the top/bottom parts of the control wheel until the item scrolls into view. wheel until the item scrolls onto the screen.



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Setting a value or Turn the control wheel. adjusting the defocusing level Slide the indicator with your finger.

Playing the next or the previous image Turn the control wheel or press Slide your finger left or right across the playback screen. the left/right parts of the control wheel. GB 34 Notes ? You can perform most operations using both the control wheel/soft keys and the touch panel. However, some operations can be performed only using one or the other. ? Avoid the followings when using the touch panel: ? Using a pointed object, such as a pencil, ball-point pen, or the tip of a finger nail.

? Operating the touch panel while the hand holding the camera is also touching the screen elsewhere. Menu list When you press MENU, the menu items [Shoot Mode], [Camera], [Image Size], [Brightness/Color], [Playback], [Application]* and [Setup] appear on the screen. You can set various functions in each item. Items that cannot be set in the context are displayed in gray. GB *The application downloading function may not be available in some countries/regions.

GB 35 Using the guide function of the camera The camera provides various ?Help Guides? which explain the functions, and ?Shooting tips? which introduce tips for better shooting. Use these guides to make better use of the camera. x Help Guides The camera displays the Help Guides to explain the selected function, when you change the setting, etc. You can hide the Help Guides by selecting MENU t [Setup] t [Help Guide Display] t [Off]. x Shooting tips You can display shooting tips for better shooting from [Table of contents] by selecting MENU t [Camera] t [Shooting Tip List]. You can also assign [Shoot. Tips] to the soft key B. GB 36 Using the recording functions Shooting with various shooting modes 1 Select MENU t [Shoot Mode]. 2 Turn the control wheel to select the desired mode, and press the center. Or, slide your finger across the screen upward or downward to move the desired mode to the center of the screen, then touch the desired mode.

(Intelligent Auto): The camera evaluates the subject and makes the proper settings. SCN (Scene Selection): Shoots with preset settings according to the subject or condition. (Sweep Panorama): Shoots with panoramic size. M (Manual Exposure): Adjusts the aperture and shutter speed. S (Shutter Priority): Adjusts the shutter speed to express the movement of the subject. A (Aperture Priority): Shoots by changing the focus range or changing the intensity of background defocusing. P (Program Auto): Automatic shooting that allows you to customize settings, except for the exposure (shutter speed and aperture).

(Superior Auto): Shoots images with a wider range of shooting functions than those of Intelligent Auto shooting. Recognizes and evaluates the shooting conditions automatically, performs Auto HDR, and chooses the best image. GB GB 37 Importing images to the computer Installing the software To utilize images recorded with the camera, the following software is provided with CD-ROM (supplied): ? ?Image Data Converter? You can open RAW format image files.

? ?PlayMemories Home? (Windows only) You can import still images or movies recorded with the camera to your computer so that you can view them, and use various convenient features to enhance the images you have shot. Notes ? Log on as Administrator. ? Use ?Image Data Converter? to play back RAW images. ? If ?PMB? (Picture Motion Browser) supplied with a camera that was purchased before 2011 has already been installed on the computer, ?PMB? will be overwritten by ?PlayMemories Home.? Some ?PlayMemories Home? functions differ from those of ?PMB,? but please use ?PlayMemories Home. ? ? ?PlayMemories Home? is not compatible with Mac computers. When you play back images on Mac computers, use the appropriate application software supplied with the Mac computer. x Windows The following computer environment is recommended when using the supplied software and importing images via a USB connection. OS (pre-installed) ?PlayMemories Home? Microsoft Windows XP* SP3/Windows Vista** SP2/ Windows 7 SP1/Windows 8 CPU: Intel Pentium III 800 MHz or faster For playing/editing the High Definition movies: Intel Core Duo 1.66 GHz or faster/Intel Core 2 Duo 1.66 GHz or faster (Intel Core 2 Duo 2.26 GHz or faster (AVC HD (FX/ FH), Intel Core 2 Duo 2.40 GHz or faster (AVC HD PS)) 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 space required for installation? approximately 500 MB Display: Screen resolution?1024 768 dots or more CPU/Memory: Pentium 4 or faster/1 GB or more Display: 1024 768 dots or more ?Image Data Converter Ver.4? GB 38 * 64-bit editions and Starter (Edition) are not supported. Windows Image Mastering API (IMAPI) Ver. 2.0 or later is required to use the function for creating discs. ** Starter (Edition) is not supported. 1 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive. The installation menu screen appears.

? If the installation menu does not appear, double-click [Computer] (For Windows XP: [My Computer]) t (PMHOME) t [Install.exe]. ? If the AutoPlay screen appears, select ?Run Install.exe? and follow the instructions that appear on the screen to proceed with the installation. 2 3 Connect the camera to the computer. Click [Install]. ? Make sure that both ?Image Data Converter? and ?PlayMemories Home? are checked and follow the instructions on the screen. ? When the restarting confirmation message appears, restart the computer following the instructions on the screen. ? DirectX may be installed depending on the system environment of your computer. GB 4 Remove the CD-ROM after the installation is complete.

The following software is installed and shortcut icons appear on the desktop. ?Image Data Converter? ?PlayMemories Home? ?PlayMemories Home Help Guide? x Mac The following computer environment is recommended when using the supplied software and importing images via a USB connection. OS (pre-installed) USB Connection: Mac OS X v10.3 to v10.8 ?Image Data Converter?: Mac OS X v10.

5, v10.6 (Snow Leopard), v10.7 (Lion), v10.8 (Mountain Lion) CPU: Intel processor, such as Intel Core Solo/Core Duo/ Core 2 Duo Memory: 1 GB or more is recommended. Display: 1024 768 dots or more GB ?Image Data Converter Ver.

4? 39 1 2 3 4 Turn on your Mac computer, and insert the CD-ROM (supplied) into the CD-ROM drive. Double-click the CD-ROM icon. Copy the [IDC_INST.pkg] file in the [MAC] folder to the hard disk icon. Double-click the [IDC_INST.pkg] file in the destination folder. ? Follow the instructions on the screen to complete the installation. What you can do with the supplied software x ?PlayMemories Home? With ?PlayMemories Home,? you can do the following: ? You can import images shot with the camera to your computer and display them on the computer. ? You can trim and resize images. ? You can organize images on the computer on a calendar by shooting date to view them.

? You can retouch (Red Eye Correction, etc.



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), print, send still images as e-mail attachments and change the shooting date. ? You can print or save still images with the date. ? You can create a Blu-ray Disc, AVCHD disc or DVD disc from AVCHD movies imported to a computer. (An internet connection environment is required when a Blu-ray Disc/DVD disc is created for the first time.) For details on ?PlayMemories Home,? refer to ?PlayMemories Home Help Guide. ? Double-click the shortcut of (PlayMemories Home Help Guide) on the desktop, or click [Start] t [All Programs] t [PlayMemories Home] t [PlayMemories Home Help Guide]. ? For Windows 8, select the [PlayMemories Home] icon on the Start screen, then launch ?PlayMemories Home? and select [PlayMemories Home Help Guide] from the [Help] menu. GB 40 <http://www.sony.co.jp/pmh-se/> ?PlayMemories Home? support page (English only) Notes ? ?PlayMemories Home? is not compatible with Mac computers. When you play back images on Mac computers, use the appropriate application software supplied with the Mac computer. ? Movies recorded with the [60p 28M(PS)/50p 28M(PS)]/[60i 24M(FX)/50i 24M(FX)]/[24p 24M(FX)/25p 24M(FX)] setting in [Record Setting] are converted by ?PlayMemories Home? in order to create an AVCHD recording disc. This conversion can take a long time.

Also, you cannot create a disc in the original image quality. If you want to keep the original image quality, store your movies on a Blu-ray Disc. x ?Image Data Converter? With ?Image Data Converter,? you can do the following: ? You can play back and edit images recorded in RAW format with various corrections, such as tone curve and sharpness. ? You can adjust images with white balance, exposure, and [Creative Style], etc. ? You can save the images displayed and edited on a computer.

You can either save the image as RAW format or save it in the general file format. ? You can display and compare the RAW images and JPEG images recorded by this camera. ? You can rank images in 5 grades. ? You can apply color labels, etc. For details on ?Image Data Converter,? refer to Help. Windows: GB [Start] t [All Programs] t [Image Data Converter] t [Help] t [Image Data Converter Ver.4] ? For Windows 8, start [Image Data Converter Ver.4] t [Help] in the menu bar t [Image Data Converter Guide]. Mac: Finder t [Applications] t [Image Data Converter] t [Image Data Converter Ver.4] t [Help] in the menu bar t [Image Data Converter Guide] ?Image Data Converter? support page (English only) <http://www.sony.co.jp/ids-se/>

GB 41 Adding functions to the camera Adding functions to the camera You can add the desired functions to your camera by connecting to the application download website (PlayMemories Camera Apps) via the Internet. For example, the following functions are available: ? You can use various effects for shooting images. ? You can upload images to network services directly from the camera. Some applications may be fee-based. x Downloading the application 1 2 3 Access the application download website. <http://www.sony.net/pmca> ? For details on the computer environment required for downloading, see the application download website.

Follow the instructions on the screen and set up a service account. (This step is only required the first time.) ? If you already have a service account, sign in on the application download website. Select the desired application and download it to the camera following the instructions on the screen. ? Connect the computer and the camera using the micro USB Cable (supplied) following the instructions on the screen.

To the USB terminal USB Cable (supplied) To the USB terminal Notes ? If the date and time settings of the camera are incorrect, the application download may fail. If that happens, reset the date and time settings (page 24) and try again. ? The application downloading function may not be available in some countries and regions. For details, refer to the application download website above. GB 42 z How to download applications directly using Wi-Fi function of the camera You can download applications using the Wi-Fi function without connecting to a computer.

Select MENU t [Application] t (PlayMemories Camera Apps), then follow the instructions on the screen to download applications. Acquire a service account in advance (page 42). If MENU t [Setup] t [Access Point Settings] t access point to be connected t [IP Address Setting] is set to [Manual], change it to [Auto]. x Launching the application GB 1 Select MENU t [Application] t desired application to launch. ? There is another way to launch an application. You can call up an application by touching an NFC-enabled Android Smartphone to the camera, aligning both N marks. To use this [Onetouch(NFC)] function, first register an application to be launched as follows: MENU t [Setup] t [One-touch(NFC)] t desired application ? Before touching the Smartphone to the camera, set the camera to shooting mode. You cannot launch an application with this operation if the camera is in playback mode. ? The default application assigned to [One-touch(NFC)] is [Smart Remote Embedded]. GB 43 Others Checking the number of recordable images Once you insert a memory card into the camera and set the power switch to ON, the number of images that can be recorded (should you continue to shoot using the current settings) is displayed on the LCD screen.

Notes ? When ?0? (the number of recordable images) flashes in yellow, the memory card is full. Replace the memory card with another one, or delete images in the current memory card (page 30). ? When ?NO CARD? (the number of recordable images) flashes in yellow, it means no memory card has been inserted. Insert a memory card. x Number of still images and time of movies recordable on a memory card Still images The following table shows the approximate number of still images that can be recorded on a memory card formatted with this camera. The values are defined using Sony standard memory cards for testing. The values may vary depending on the shooting conditions. Image size: L 16M Aspect ratio: 3:2* (Units: images) Capacity Quality Standard Fine RAW & JPEG RAW 2GB 410 290 79 105 4GB 820 590 160 215 8GB 1650 1150 320 440 16GB 3350 2400 640 880 32GB 6700 4800 1300 1750 64GB 13000 9600 2600 3550 * When [Aspect Ratio] is set to [16:9], you can record more images than the numbers shown in the table above (except for [RAW]). GB 44 Movies The following table shows the approximate recording times available. These are the total times for all movie files.

(h (hour), m (minute)) Capacity 2GB Record Setting 60i 24M(FX) 50i 24M(FX) 60i 17M(FH) 50i 17M(FH) 60p 28M(PS) 50p 28M(PS) 24p 24M(FX) 25p 24M(FX) 24p 17M(FH) 25p 17M(FH) 1440i1080 12M VGA 3M Notes ? The recording time of movies varies because the camera uses VBR (Variable Bit Rate), an encoding method that automatically adjusts image quality according to the shooting situation. When you record a fast-moving subject, the image is clearer but the recording time is shorter because much memory is used. The recording time also vary depending on the shooting condition or your subject or the setting of image quality/size.

Notes ? When ?0? (the number of recordable images) flashes in yellow, the memory card is full. Replace the memory card with another one, or delete images in the current memory card (page 30). ? When ?NO CARD? (the number of recordable images) flashes in yellow, it means no memory card has been inserted. Insert a memory card. x Number of still images and time of movies recordable on a memory card Still images The following table shows the approximate number of still images that can be recorded on a memory card formatted with this camera. The values are defined using Sony standard memory cards for testing. The values may vary depending on the shooting conditions. Image size: L 16M Aspect ratio: 3:2* (Units: images) Capacity Quality Standard Fine RAW & JPEG RAW 2GB 410 290 79 105 4GB 820 590 160 215 8GB 1650 1150 320 440 16GB 3350 2400 640 880 32GB 6700 4800 1300 1750 64GB 13000 9600 2600 3550 * When [Aspect Ratio] is set to [16:9], you can record more images than the numbers shown in the table above (except for [RAW]). GB 44 Movies The following table shows the approximate recording times available. These are the total times for all movie files.

(h (hour), m (minute)) Capacity 2GB Record Setting 60i 24M(FX) 50i 24M(FX) 60i 17M(FH) 50i 17M(FH) 60p 28M(PS) 50p 28M(PS) 24p 24M(FX) 25p 24M(FX) 24p 17M(FH) 25p 17M(FH) 1440i1080 12M VGA 3M Notes ? The recording time of movies varies because the camera uses VBR (Variable Bit Rate), an encoding method that automatically adjusts image quality according to the shooting situation. When you record a fast-moving subject, the image is clearer but the recording time is shorter because much memory is used. The recording time also vary depending on the shooting condition or your subject or the setting of image quality/size.



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? The duration of time available for movie recording varies with the temperature or condition of the camera before you start recording. If you frequently recompose or shoot still images after the power is turned on, the temperature inside the camera rises and the recording time available will be shorter.
? If the camera stops movie recording due to the temperature, leave the camera for several minutes with the power turned off. Restart recording after the temperature inside the camera goes down. ? If you observe the following points, the recording time is longer. ? Keep the camera out of direct sunlight. ? Turn the camera off when it is not being used.

? The maximum size of a movie file is about 2 GB. When the file size is about 2 GB, the movie recording stops automatically when [File Format] is set to [MP4], and a new movie file is created automatically when [File Format] is set to [AVCHD]. 10 m 10 m 9m 10 m 10 m 20 m 20 m 30 m 15 m 20 m 30 m 40 m 40 m 1h 35 m 40 m 1h 1 h 30 m 2h 3h 6h 4GB 8GB 16GB 32GB 64GB 4 h 5 m 8 h 15 m 1 h 15 m 2 h 30 m 5 h 5 m 1 h 30 m 2h 3h 6h GB 4 h 5 m 8 h 15 m 1 h 20 m 2 h 45 m 5 h 30 m 11 h 5 m 10 h 20 h 5 m 40 h 15 m 1 h 10 m 2 h 25 m 4 h 55 m GB 45 ? The maximum continuous recording time is approximately 29 minutes (limited by product specifications). ? The continuous recording time of MP4 12M is approximately 20 minutes (limited by 2 GB file size). x Recordable time and number of recordable shooting/playback images on a single charge of the battery pack Recordable time Shooting (Still images) Actual shooting (movies) Continuous shooting (movies) Playback (Still images) Approx. 165 min. Approx. 60 min. Approx. 100 min.

Approx. 300 min. Number of images Approx. 330 images ? ? Approx. 6000 images ? The table above shows the approximate recordable time or number of images when using a fully charged battery pack. Note that the actual numbers may vary depending on the conditions of use. ? The recordable time and the number of recordable images are calculated when using a fully charged battery pack under the following conditions: ? At an ambient temperature of 25 C (77 F). ? When an E PZ 16?50 mm F3.5?5.6 OSS lens is attached.

? Using Sony ?Memory Stick PRO Duo? media (sold separately). ? [LCD Brightness]: [Manual] [0] ? The number of still images is based on the CIPA standard under the following conditions. (CIPA: Camera & Imaging Products Association) ? [Autofocus Mode] is set to [Single-shot AF]. ? Shooting once every 30 seconds. ? The flash strobes once every two shots.

? The power is turned on and off once every ten shots. ? The movie recordable time is based on the CIPA standard under the following conditions. ? Movie quality: AVCHD FH ? ?Actual shooting (movies)? : Indicates the approximate shooting time as a guideline when you repeatedly perform shooting, zooming, standby for shooting, and turning on and off the camera. ? ?Continuous shooting (movies)? : When continuous shooting ends because of set limits (29 minutes), press the MOVIE button again to continue shooting. No other operations such as zoom are performed.

GB 46 List of icons on the LCD screen Icons are displayed on the screen to indicate the camera status. You can change the screen display using DISP (Display Contents) on the control wheel. Shooting standby A Display Indication Shoot Mode PASM GB Scene Selection Graphic display Movie recording Scene Recognition icon Memory card/ Upload 100 Number of recordable still images Recordable time of movies Aspect ratio of still images Playback 123Min 16M 14M 8.4M 7.1M 4M 3.4M Image size of still images GB 47 Display RAW RAW+J FINE STD 60i/50i 60p/50p 24p/25p 24p/25p Indication Image quality of still images Recording mode of movies Display Indication Control dial Electronic Viewfinder (sold separately) connection error Electronic Viewfinder (sold separately) overheating warning Overheating warning Database file full/ Database file error Zoom magnification Smart Zoom Clear Image Zoom Digital Zoom View mode 100% Remaining battery Flash charge in progress AF illuminator Live view Does not record sound during movie recording Wind noise reduction is activated SteadyShot/ SteadyShot warning Touch operation status (Touch Shutter/Tracking Focus/Touch operation off) NFC is activated Airplane Mode GB 101-0012 Playback folder ? File number Protect Print order Wi-Fi wave being emitted 48 B Display Indication Soft keys Display Indication DRO/Auto HDR Auto Port. Framing C Display Indication Flash Mode/Red Eye Reduction Creative Style Smile Shutter 0.0 Flash compensation Drive Mode Picture Effect GB Self-portrait Selftimer Metering Mode Focus mode Smile detection sensitivity indicator Focus area mode Face Detection AWB White Balance D Display Indication Level Phase Detection AF ranging points 7500K A7 G7 Soft Skin Effect z 1/125 F3.5 Focus status Shutter speed Aperture value GB 49 Display 0.0 0.

0 Indication Metered manual Exposure compensation ISO sensitivity AE lock Shutter speed indicator Aperture indicator ISO400 REC 0:12 2013-1-1 9:30AM 12/12 Recording time of the movie (m:s) Recorded date/ time of the image Image number/ Number of images in the view mode Appears when HDR did not work on the image. Appears when [Picture Effect] did not work on the image. Touch shutter ON/ OFF switch / Cancels centerweighted auto focus Histogram GB 50 Learning more about the camera (? Handbook) ?? Handbook, ? which explains how to use the camera in detail, is included on the CD-ROM (supplied). Refer to ?? Handbook? for in-depth instructions on the many functions of the camera. x For Windows users 1 2 3 4 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive. Click [Handbook]. GB Click [Install]. Start ?? Handbook? from the shortcut on the desktop. x For Mac users 1 2 3 Turn on your computer, and insert the CD-ROM (supplied) into the CD-ROM drive. Select the [Handbook] folder and copy ?Handbook.

pdf? stored in the [GB] folder to your computer. After copying is complete, double-click ?Handbook.pdf.? GB 51 Precautions On the functions available with the camera ? Your camera is 1080 60i-compatible or 1080 50i-compatible. To check whether the camera is 1080 60i-compatible or 1080 50i-compatible, check for the following marks on the bottom of the camera.

1080 60i-compatible camera: 60i 1080 50i-compatible camera: 50i ? Your camera is compatible with 1080 60p/50p movies. Unlike existing standard recording modes, which record in an interlacing method, this camera records using a progressive method. This increases the resolution, and provides a smoother, more realistic image. On the LCD screen and lens ? 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 constantly appear on the LCD screen. These points are normal in the manufacturing process and do not affect the images in any way.



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Black, white, red, blue and green points Creating an image database file If you insert a memory card that does not contain an image database file into the camera and turn on the power, the camera automatically creates an image database file using some of the memory card's capacity. The process may take a long time and you cannot operate the camera until the process is completed. If a database file error occurs, export all images to your computer using PlayMemories Home, and then format the memory card using the camera. GB ? Do not hold the camera by the LCD screen. ? A magnet is attached to the back of the LCD screen. Do not put objects that are affected by magnetic fields, such as a floppy disk or a credit card, between the LCD screen and the camera body. Magnet 52 ? Images may trail across on the LCD screen in a cold location. This is not a malfunction.

When turning on the camera in a cold location, the LCD screen may become temporarily dark. ? Do not press against the LCD screen. The monitor may be discolored and that may cause a malfunction. ? Do not expose the camera to direct sunlight. If reflected sunlight is focused on a nearby object, it may cause a fire. When you must place the camera under direct sunlight, attach the front lens cap. Do not use/store the camera in the following places ? In an extremely hot, dry or humid place In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction. ? Storing under direct sunlight or near a heater The camera body may become discolored or deformed, and this may cause a malfunction. ? In a location subject to rocking vibration ? Near strong magnetic place ? In sandy or dusty places Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

GB On using the lenses and accessories It is recommended that you use Sony lenses/accessories designed to suit the characteristics of this camera. Using the products of other manufacturers may cause the camera not to operate to its capability, or result in accidents and malfunctions of the camera. On the grip The grip is applied with a special coating. The grip may be discolored if it is rubbed with dark colored cloth, leather, etc. On the Smart Accessory Terminal 2 Set the power switch of the camera to OFF before you attach or remove an accessory, such as the flash, to the Smart Accessory Terminal 2.

When attaching an accessory, plug the accessory into the Smart Accessory Terminal 2 to the end and fasten the screw. Make sure that the accessory is attached to the camera securely. On storing Be sure to attach the front lens cap when not using the camera. GB 53 Care The surface of the LCD screen has a coating that may peel off if scratched. Please note the following points for handling and care.

? Grease or hand cream left on the LCD screen by your hands may dissolve the coating. If any grease or cream gets on the LCD screen, wipe it off immediately. ? Wiping forcefully with tissue paper or other materials may damage the coating. ? Before wiping dirt, dust the dirt or sand off in advance using a blower, etc. ? When wiping off dirt, wipe gently with a soft cloth, such as a cloth for cleaning glasses. How to prevent moisture condensation When bringing the camera from a cold place to a warm place, seal the camera in a plastic bag and allow it to adapt to conditions at the new location over about an hour. If moisture condensation occurs Turn off the camera and wait about an hour for the moisture to evaporate. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images. On the internal rechargeable battery This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or the battery is installed or not. This rechargeable battery is continually charged as long as you are using the camera.

However, if you use the camera for only short periods, it gradually discharges. If you do not use the camera at all for about three months it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the camera. However, even if this rechargeable battery is not charged, you can still use the camera as long as you do not record the date and time. If the camera resets to the default settings each time you charge the battery pack, the internal rechargeable battery may be dead. Consult your Sony dealer or local authorized Sony service facility. On the temperature of the camera Your camera and battery may get hot due to continuous use, but it is not a malfunction. On operating temperatures Your camera is designed for use under the temperatures between 0 C and 40 C (32 F and 104 F). Shooting in extremely cold or hot places that exceed this range is not recommended. On moisture condensation If the camera is brought directly from a cold to a warm location, moisture may condense inside or outside the camera.

This moisture condensation may cause a malfunction of the camera. GB 54 Charging method of the internal rechargeable battery Insert a charged battery pack into the camera, or connect the camera to a wall outlet (wall socket) using the AC Adaptor (supplied), and leave the camera for 24 hours or more with the power off. On memory cards Do not attach a label, etc. on a memory card or a card adaptor. This may cause a malfunction.

Notes on disposal or transfer of the camera For the protection of personal information, perform the following operations when you dispose of or transfer the camera. ? [Initialize] t [Factory Reset] On recording/playback ? When you use a memory card with this camera for the first time, it is recommended to format the card using the camera for stable performance of the memory card before shooting. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save precious data on a computer, etc. ? If you repeatedly record/delete images, fragmentation of data may occur on the memory card. Movies may not be able to be saved or recorded. In such a case, save your images to a computer or other storage location, and then format the memory card. ? The recorded contents cannot be compensated for even if recording or playback is not possible due to a malfunction of the camera or memory card, etc. ? To avoid the potential risk of data loss, always copy (back up) data to other media. ? Before you record one-time events, make a trial recording to make sure that the camera is working correctly. ? This camera is neither dust-proof, nor splash-proof, nor water-proof. ? Do not aim the camera at the sun or other bright light. It may cause the malfunction of the camera. ? Do not look at the sun or a strong light through a removed lens. This may cause irrecoverable damage to your eyes.

Or it may cause a malfunction of the lens. ? Do not use the camera near a place that generates strong radio waves or emits radiation.



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The camera may not be able to record or play back properly. ? Using the camera in sandy or dusty place may cause malfunctions. ? If moisture condensation occurs, remove it before using the camera (page 54). ? Do not shake or strike the camera. In addition to malfunctions and an inability to record images, this may render the memory card unusable, or cause image data breakdown, damage or loss. GB GB 55 ? Clean the flash surface with a soft cloth. The heat of flash emission may cause dirt to adhere on the flash surface, resulting in smoking or scorching. ? Keep the camera, supplied accessories, etc. , out of the reach of children. A memory card, etc., may be swallowed. If such problem occurs, consult a doctor immediately. ? If you set [Airplane Mode] to [On], an (airplane) mark will be displayed on the screen.

On RAW images To view RAW images recorded with the camera, ?Image Data Converter? on the CD-ROM (supplied) is required. If you do not intend to modify the images you record, we recommend that you shoot images using the JPEG format. On image data compatibility ? This camera conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association). ? Playback of images recorded with your camera on other equipment and playback of images recorded or edited with other equipment on your camera are not guaranteed. Notes on playing movies on other devices ? This camera uses MPEG-4 AVC/ H.

264 High Profile for AVCHD format recording. Movies recorded in AVCHD format with this camera cannot be played by the following devices. ? Other devices compatible with AVCHD format that does not support High Profile ? Devices incompatible with the AVCHD format ? This camera also uses MPEG-4 AVC/H.264 Main Profile for MP4 format recording. For this reason, play back movies recorded in MP4 format with this camera on MPEG-4 AVC/H.264 supported devices. ? Discs recorded with HD (high definition) image quality can be played back only on AVCHD format-compatible devices. DVDbased players or recorders cannot play back HD image quality discs, as they are incompatible with the AVCHD format. Also, DVD-based players or recorders may fail to eject HD image quality discs. Importing AVCHD movies to a computer When importing AVCHD movies to a computer, for Windows, use the software ?PlayMemories Home? in the CD-ROM (supplied).

How to turn off wireless network functions (Wi-Fi, etc.) temporarily When you board an airplane, etc., you can turn off all wireless network functions temporarily. Select [Network Settings] t [Airplane Mode] t [On]. GB 56 ? Movies recorded in 1080 60p/1080 50p format can be played back only on 1080 60p/1080 50psupported devices. Notes on wireless LAN If your camera is lost or stolen, Sony bears no responsibility for the loss or damage caused by illegal access or use of the registered access point on the camera. Warning on copyright Television programs, films, videotapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provisions of the copyright laws. GB The pictures used in this manual The photographs used as examples of pictures in this manual are reproduced images, and are not actual images shot using this camera. On the data specifications described in this manual The data on performance and specifications are defined under the following conditions, except as described in this manual: at an ordinary ambient temperature of 25 C (77 F), and using a battery pack that has been fully charged for about an hour after the charge lamp has turned off. GB 57 Specifications Camera [System] Camera type: Interchangeable lens digital camera Lens: E-mount lens Speed range: Still images: 1/4 000 second to 30 seconds, BULB Movies: 1/4 000 second to 1/4 second (1/3 EV step), 1080 60i-compatible device up to 1/60 second in AUTO mode (up to 1/30 second in [Auto Slow Shutter] mode) 1080 50i-compatible device up to 1/50 second in AUTO mode (up to 1/25 second in [Auto Slow Shutter] mode) Flash sync speed: 1/160 second [Image sensor] Image sensor: APS-C format (23.5 mm 15.6 mm) CMOS image sensor Total pixel number of image sensor: Approx. 16 700 000 pixels Effective pixel number of camera: Approx. 16 100 000 pixels [Anti-dust] System: Charge protection coating on Low-Pass Filter and ultrasonic vibration mechanism [Recording media] ?Memory Stick XC Duo? media, ?Memory Stick PRO Duo? media, SD card [Auto focus system] System: Fast Hybrid AF (Phase detection system/Contrast detection system) Sensitivity range: EV0 to EV20 (at ISO 100 equivalent, with F2.

8 lens) [LCD screen] LCD panel: Wide, 7.5 cm (3.0 type) TFT drive Total number of dots: 921 600 dots [Input/output terminals] USB: Micro USB type B HDMI: HDMI type C minijack [Exposure control] Metering method: 1 200-segment metering by the image sensor Metering range: EV0 to EV20 (at ISO 100 equivalent, with F2.8 lens) ISO sensitivity (Recommended exposure index): Still images: AUTO, ISO 100 ? ISO 25 600 Movies: AUTO, ISO 100 ? ISO 6 400 equivalent Exposure compensation: 3.0 EV (1/3 EV step) [Power] Battery type: Rechargeable battery pack NP-FW50 [Power consumption] When using an E PZ 16?50 mm F3.

5? 5.6 OSS lens* Approx. 2.7 W * supplied with NEX-5TL/NEX5TY [Others] Exif Print: Compatible PRINT Image Matching III: Compatible DPOF: Compatible [Shutter] GB 58 Type: Electronically-controlled, vertical-traverse, focal-plane type Dimensions (CIPA compliant) (Approx.): 110.8 mm 58.8 mm 38.9 mm (4 3/8 inches 2 3/8 inches 1 9/16 inches) (W/H/D) Mass (CIPA compliant) (Approx.): 276 g (9.7 oz) (including battery and ?Memory Stick PRO Duo? media) 218 g (7.

7 oz) (camera only) Operating temperature: 0 C to 40 C (32 F to 104 F) File format: Still image: JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline) compliant, RAW (Sony ARW 2.3 Format) Movie (AVCHD format): AVCHD format Ver. 2.0 compatible Video: MPEG-4 AVC/H.264 Audio: Dolby Digital 2ch Dolby Digital Stereo Creator ? Manufactured under license from Dolby Laboratories. Movie (MP4 format): Video: MPEG-4 AVC/H.

264 Audio: MPEG-4 AAC-LC 2ch USB communication: Hi-Speed USB (USB 2.0) Flash HVL-F7S Flash guide number: GN 7 (in meters at ISO 100) Recycling time: Approx. 4 seconds Flash coverage: Covering 16 mm lens (focal length that the lens indicates) Flash compensation: 2.0 EV (1/3 EV step) Dimensions (Approx.): 35.

9 mm 23.8 mm 42.7 mm (1 7/16 inches 15/16 inches 1 11/16 inches) (W/H/D) Mass (Approx.): 20.4 g (0.8 oz) AC Adaptor AC-UB10C/ UB10D Power requirements: AC 100 V to 240 V, 50 Hz/60 Hz, 70 mA Output voltage: DC 5 V, 0.5 A Operating temperature: 0 C to 40 C (32 F to 104 F) Storage temperature: ?20 C to +60 C (?4 F to +140 F) Dimensions (Approx.): 50 mm 22 mm 54 mm (2 inches 7/8 inches 2 1/4 inches) (W/H/D) Mass (Approx.): For the USA and Canada: 48 g (1.7 oz) For countries or regions other than the USA and Canada: 43 g (1.5 oz) GB [Wireless LAN] Supported format: IEEE 802.11 b/g/n Frequency band: 2.4 GHz bandwidth Security: WEP/WPA-PSK/WPA2-PSK Connection method: WPS (Wi-Fi Protected Setup)/Manual Access method: Infrastructure mode NFC: NFC Forum Type 3 Tagcompliant GB 59 Rechargeable battery pack NP-FW50 Battery type: Lithium-ion battery Maximum voltage: DC 8.



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