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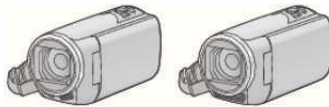
You can read the recommendations in the user guide, the technical guide or the installation guide for PANASONIC HC-V250. You'll find the answers to all your questions on the PANASONIC HC-V250 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PANASONIC HC-V250
User guide PANASONIC HC-V250
Operating instructions PANASONIC HC-V250
Instructions for use PANASONIC HC-V250
Instruction manual PANASONIC HC-V250

Panasonic

Operating Instructions
High Definition Video Camera

Model No. **HC-V550** Model No. **HC-V250**
HC-V550M **HC-V230**
HC-V530



Please read these instructions carefully before using the product,
and save this manual for future use.



Web Site: <http://www.panasonic.com>

SQ T0025



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Manual abstract:

@@@MP4: This is a recording format suitable for playing back or editing on a PC. ≥ It is not compatible with motion pictures recorded in AVCHD format. iFrame: This is a recording format suitable for playing back or editing on a Mac (iMovie etc.). ≥ It is not compatible with motion pictures recorded in AVCHD format. ∫ Handling of built-in memory [HC-V550M] This unit is equipped with the built-in memory. When using this component, pay attention to the following points. Back up data periodically. The built-in memory is temporary storage. @@@Do not perform the following operations when the lamp illuminates.

It may damage the built-in memory or cause a malfunction in the unit. @@@Likewise, the above also applies in a case where any type of repair is made to the unit (including any other non-built-in memory related component). -2- ∫ About Condensation (When the lens or the LCD monitor is fogged up) Condensation occurs when there is a change in temperature or humidity, such as when the unit is taken from outside or a cold room to a warm room. Please be careful, as it may cause the lens or LCD monitor to become soiled, moldy, or damaged. When taking the unit to a place which has a different temperature, if the unit is accustomed to the room temperature of the destination for about one hour, condensation can be prevented.

(When the difference in temperature is severe, place the unit in a plastic bag or the like, remove air from the bag, and seal the bag.) When condensation has occurred, remove the battery and/or the AC adapter and leave the unit like that for about one hour. When the unit becomes accustomed to the surrounding temperature, fogginess will disappear naturally. ∫ For the purposes of these operating instructions ≥ SD Memory Card, SDHC Memory Card and SDXC Memory Card are referred to as the "SD card". ≥ The smartphone and tablet are indicated as "smartphone".

≥ Function that can be used for Motion Picture Recording Mode: Function that can be used for Still Picture Recording Mode: ≥ Function that can be used for the Playback Mode: Function that can be used for the Playback Mode (motion pictures only): Function that can be used for the Playback Mode (still pictures only): ≥ Scene(s) recorded in the recording format [AVCHD]: "AVCHD scene(s)" ≥ Scene(s) recorded in the recording format [MP4/iFrame], scene(s) saved in MP4 (Low Quality): "MP4/iFrame scene(s)" ≥ Pages for reference are indicated by an arrow, for example: 1 00 These operating instructions are designed for use with models HC-V550 , HC-V550M , HC-V530 , HC-V250 and HC-V230 . Pictures may be slightly different from the original. ≥ The illustrations used in these operating instructions show model HC-V550 , however, parts of the explanation refer to different models. ≥ Depending on the model, some functions are not available. ≥ HC-V550 , HC-V550M and HC-V250 correspond to Wi-Fi® functions. ≥ Features may vary, so please read carefully. ≥ Not all models may be available depending on the region of purchase. ∫ Cards that you can use with this unit SD Memory Card, SDHC Memory Card and SDXC Memory Card ≥ 4 GB or more Memory Cards that do not have the SDHC logo or 48 GB or more Memory Cards that do not have the SDXC logo are not based on SD Memory Card Specifications. ≥ Refer to page 14 for more details on SD cards. -3- Contents Read this first .

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

... 2 Preparation Names and Functions of Main Parts ..

6 Power supply.....

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

... 10 Inserting/removing the battery ..

.....

... 10 Charging the battery

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

... 11 Charging and recording time

.....
.....

12 Recording to a card

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

..... 14 Cards that you can use with this unit ...

.. 14 Inserting/removing an SD card

.....

. 15 Turning the unit on/off....

.....

.....
.....
.... 16 Selecting a mode .
.....

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

17 Switching this unit between Recording Mode and Playback Mode

.....
.....

. 17 Switching this unit between Motion Picture Recording Mode and Still Picture Recording Mode

..... 17 How to use the touch screen ..

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

18 About the Touch Menu.....

.....
.....

..... 19 Setting date and time...

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

.. 20 Intelligent Auto Plus

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

... 47 Creative Control

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

47 Scene Mode.....

.....
.....

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

... 51 Endless Loop Recording.....

.....
.....

.. 53 Stop Motion Animation Assist [HC-V550]/[HC-V550M]/[HC-V530]...

..... 54 Manual recording

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

.....55 White Balance....

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

. 56	Manual shutter speed/iris adjustment
57	Manual Focus adjustment.....

.. 58	Recording with the Touch Function ...

...59	Touch function icons

... 59	Recording functions of operation icons65 Operation icons...

..... 65	Recording functions of menus

....69	Advanced (Playback) Playback Operations.....

79	Motion picture playback using operation icon

79	Creating still picture from motion picture

80	Highlight & Time Frame Index
..... 81	Repeat Playback.....

. 81	Resuming the previous playback

.. 82	Zooming in on a still picture during playback (Playback zoom)

... 82	Various playback functions..

.....83	Playing back motion pictures/ still pictures by date ..

..... 83	Highlight Playback .

.....
.. 84 Manual Edit ...

.....
.....

.....
.....

.....
.....

..... 90 Baby Calendar

.....
.....

.....
.....

..... 93 Changing the playback settings and playing back the slide show

.....
.....

.... 95 Playing back still pictures recorded in Stop Motion Animation Assist Mode as a slide show [HC-V550]/[HC-V550M]/[HC-V530].....

.. 96 Deleting scenes/still pictures.....

.....
.....

....97 Deleting part of a scene (AVCHD)

... 99 Dividing a scene (AVCHD).....

.....
.....

.. 100 Dividing a scene to partially delete (MP4/iFrame)

.....
.....

.....
.....

. 101 Protecting scenes/still pictures.....

.... 102 Convert to MP4.

.....
.....

.....
.....

.....
.....

.....103 Relay scene combining [HC-V550M] ...

.....104 Basic Before recording

.....
.....

.....
.....

.....
.....

.. 21 Selecting a media to record [HC-V550M]...

.....
.....

.....
.....

.....
.....

..... 22 Recording motion pictures ..

.....
.....

.....
.....

... 23 Recording still pictures

.....	
.....	
.....	
.... 25 Recording still pictures in Motion Picture Recording Mode	
.....	
. 26 Motion picture/Still picture playback	
..... 27 Using the menu screen	
.....	
.....	
.....	
..... 30 Using the Setup Menu	
.....	
.....	
.....	
..... 31 Advanced (Recording) Using the zoom .	
.....	
.....	
.....	
.....	
... 41 Zoom ratio during the Still Picture Recording Mode ..	
.....	
.....	
.....	
.... 41 Level Shot Function [HC-V550]/[HC-V550M]/[HC-V530] .	
.....	
... 42 Image Stabilizer Function [HC-V250]/[HC-V230].....	
.....	
.....	
.....	
..... 43 Changing the Recording Mode.	
.....	
.....	
..... 44 Intelligent Auto..	
.....	
.....	
.....	
.....	
..... 45 -4- Watching Video/Pictures on your TV ...	
.... 106 Connecting with a HDMI mini cable.	
.... 109 Playback using VIERA Link .	
.....	
.....	
. 110 Copy/Dubbing Copying between SD card and Built-in Memory [HC-V550M]	
.....	
.....	
.....	
.....	
.....	
112 Copying/playing back with a USB HDD ... 115 Preparing for copying/playing back ..	
... 115 Simple copy	
.....	
.....	
.....	

.....

.... 117 Copy selected files

.....

.....

.....

.... 118 Playing back the USB HDD

.....

.....

. 119 Dubbing with a Blu-ray disc recorder, video device, etc.

.....

.....

.....

.....

. 120 Using the Eye-Fi™ card.....

.....

.....

.....

124 Setting Up a Wi-Fi Connection.....

.....

...157 Using the Network Easy Setup to set up a connection..

.....

.....

.....

... 158 Connecting to a wireless access point ..

.....

.....

.....

.....

..... 159 Setting up a direct connection to a smartphone .

.....

.....

.....

.....

.....

. 163 Connecting from the history

.....

..... 165 How to Use the [Wi-Fi Setup] Menu..

.....168 With a PC What you can do with a PC ..

.....

.....

.....

.174 End User License Agreement

.....

176 Operating environment.....

.....

.....

.....

178 Installation

.....

.....

.....

.....

.....

.... 132 About [Remote Ctrl] ..

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

..... 133 [Baby Monitor]...

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

. 135 Preparations before using [Baby Monitor]

.....
.....

... 135 Using [Baby Monitor] ..

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

136 [Hom.Monitor]

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

138 Preparations before using [Hom.Monitor]

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

..... 138 Using [Hom.
Monitor]

.....
.....

..... 139 [DLNA Play] ..

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

..... 144 Preparations before using [DLNA Play]

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

..... 144 Playing back on a TV...

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

.... 144 [Copy].....

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

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

.. 146 Preparations before using [Copy]
146 Copying to a PC

.....
.....

.....
.... 148 [Live Cast].
.....
.....

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

..... 150 Preparations before using [Live Cast].....
.....
.....
.....

.....
.....

.... 151 Broadcasting live .
.....
.....

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

.. 152 Install the "Image App"

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

. 156 Others Indications

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

.....
..188 Messages
.....
.....

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

...191 About recovery.....
.....
.....
.....

.....
192 Troubleshooting

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

.193 Cautions for use.....

..199 About copyright

...204 Recording modes/approximate recordable time ..

.....206 Approximate number of recordable pictures

207 Optional accessories

...208 About the Remote Pan Tilt Cradle

209 -5- Prepa this unit for the first time. The unit is in the standby condition when the AC adaptor is connected. The primary circuit is always "live" as long as the AC adaptor is connected to an electrical outlet. Important: ≥ Do not use the AC adaptor/DC cable with any other equipment as it is designed only for this unit. Also, do not use the AC adaptor/DC cable from other equipment with this unit. ≥ The battery will not be charged if the unit is turned on. ≥ It is recommended to charge the battery in a temperature between 10 oC and 30 oC. (The battery temperature should also be the same.) □ A DC input terminal 1 2 Connect the DC cable to the AC adaptor and to the DC input terminal of this unit. Insert the AC adaptor into the AC adaptor or batteries made by other companies, the remaining battery capacity will not be shown.

- 13 - Preparation Recording to a card The unit can record still pictures or motion pictures to an SD card or built-in memory. To record to an SD card, read the following. Cards that you can use with this unit Use SD cards conforming to Class 4 or higher of the SD Speed Class Rating* for motion picture recording. Card type SD Memory Card SDHC Memory Card SDXC Memory Card 512 MB/1 GB/2 GB 4 GB/6 GB/8 GB/12 GB/16 GB/24 GB/32 GB 48 GB/64 GB e.g.

: Capacity * SD Speed Class Rating is the speed standard regarding continuous writing. Check via the label on the card, etc. ≥ Please check the latest information on the support website below. http://panasonic.jp/support/global/cs/e_cam (This website is in English only.)

) ≥ When using an SDHC Memory Card/SDXC Memory Card with other equipment, check the equipment is compatible with these Memory Cards. ≥ An Eye-Fi X2 series SD card is required to use functions related to Eye-Fi. (l 124) ≥ We do not guarantee the operation of SD cards other than the ones above. Further, SD cards with a capacity of less than 32 MB cannot be used for motion picture recording. ≥ 4 GB or more Memory Cards that do not have the SDHC logo or 48 GB or more Memory Cards that do not have the SDXC logo are not based on SD Memory Card Specifications. ≥ When the write-protect switch A on SD card is locked, no recording, deletion or editing will be possible on the card. ≥ Keep the Memory Card out of reach of children to prevent swallowing. 32 - 14 - Inserting/removing an SD card When using an SD card not from Panasonic, or one previously used on other equipment, for the first time on this unit, format the SD card. (l 38) When the SD card is formatted, all of the recorded data is deleted. Once the data is deleted, it cannot be restored.

Caution: Check that the access lamp has gone off. □ Access lamp [ACCESS] A ≥ When this unit is accessing the SD card or built-in memory, the access lamp lights up. □ □ 1 Open the SD card cover and insert (remove) the SD card into (from) the card slot B. ≥ Face the terminal side C in the direction shown in the illustration and press it straight in as far as it will go. ≥ Press the centre of the SD card and then pull it straight out. 2 Securely close the SD card cover. ≥ Securely close it until it clicks. ≥ Do not touch the terminals on the back of the SD card. ≥ Do not apply strong shocks, bend, or drop the SD card. ≥ Electrical noise, static electricity or the failure of this unit or the SD card may damage or erase the data stored on the SD card.

≥ When the card access lamp is lit, do not: j Remove the SD card j Turn the unit off j Insert and remove the USB cable j Expose the unit to vibrations or shock Performing the above while the lamp is on may result in damage to data/SD card or this unit. ≥ Do not expose the terminals of the SD card to water, dirt or dust. ≥ Do not place SD cards in the following areas: j In direct sunlight j In very dusty or humid areas j Near a heater j Locations susceptible to significant difference in temperature (condensation can occur.) j Where static electricity or electromagnetic waves occur ≥ To protect SD cards, return them to their

cases when you are not using them. ≥ About disposing of or giving away the SD card.

(l 202) - 15 - Preparation Turning the unit on/off You can turn the unit on and off using the power button or by opening and closing the LCD monitor. Turning the unit on and off with the power button Open the LCD monitor and press the power button to turn on the unit. □ To turn off the unit Hold down the power button until the status indicator goes off. A The status indicator lights on. Turning the unit on and off with the LCD monitor The unit is turned on when the LCD monitor is opened, and unit is turned off when it is closed.

During normal use, opening and closing of the LCD monitor can be conveniently used to turn the unit on/off. ≥ HC-V550 / HC-V550M / HC-V250 The unit will not turn off while recording motion pictures or connecting to Wi-Fi even if the LCD monitor is closed. ≥ HC-V530 / HC-V230 The unit will not turn off while recording motion pictures even if the LCD monitor is closed. ≥ In the following cases, opening the LCD monitor does not turn on the unit. Press the power button to turn on the unit. j When the unit is originally purchased j When you have turned off the unit using the power button - 16 - Preparation Selecting a mode You can switch this unit between Recording Mode (Motion Picture Recording Mode/Still Picture Recording Mode) and Playback Mode by pressing the recording/playback button. If you touch the recording mode switching icon in Recording Mode, this unit can be switched between Motion Picture Recording Mode and Still Picture Recording Mode. Motion Picture Recording Mode (l 23) Still Picture Recording Mode (l 25) Playback Mode (l 27, 79) Recording motion pictures. Recording still pictures. Motion picture/Still picture playback.

Switching this unit between Recording Mode and Playback Mode Recording/playback button Press the button to switch this unit between Recording Mode and Playback Mode. ≥ When you turn on this unit, it starts up in Recording Mode. Switching this unit between Motion Picture Recording Mode and Still Picture Recording Mode Touch the recording mode switching icon displayed on the LCD monitor (touch screen) to switch this unit between Motion Picture Recording Mode and Still Picture Recording Mode.



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1 Press the recording/playback button to switch this unit to Recording Mode. ≥ The recording mode switching icon A is displayed on the screen. Motion Picture Recording Mode Still Picture Recording Mode 2 (Motion Picture Recording Mode) Touch the recording mode switching icon. ≥ Refer to page 18 for touch screen operation. - 17 - To display the recording mode switching icon Display of the recording mode switching icon will disappear when no touch operation is performed for a specific period of time. To display it again, touch the screen. ≥ If the recording start/stop button is pressed in Still Picture Recording Mode or Playback Mode, this unit will be switched to Motion Picture Recording Mode.

During motion picture/still picture playback or in other conditions, even if the recording start/stop button is pressed, the recording mode may not be switched. Preparation How to use the touch screen You can operate by directly touching the LCD monitor (touch screen) with your finger. ∫ Touch Touch and release the touch screen to select icon or picture. ≥ Touch the centre of the icon. ≥ Touching the touch screen will not operate while you are touching another part of the touch screen.

∫ Slide while touching Move your finger while pressing on the touch screen. ∫ About the operation icons / / / : Touch when changing a page or performing settings. : Touch to return to the previous screen. - 18 - About the Touch Menu Touch (left side)/ operation icons. (right side) of on the Touch Menu to switch the ≥ It is also possible to switch the operation icons by sliding the Touch Menu right or left while touching it.

A Touch Menu T □ W Recording Mode Playback Mode T W FOCUS WB SHTR IRIS MENU ALL MENU □ B C □ □ You can change the operation icons to display. (1 36) Displayed only in Intelligent Auto Plus Mode (1 47) and [Miniature Effect]/[8mm movie]/ [Silent movie] of the Creative Control Mode (1 47). D Displayed only in [Time Lapse Rec] of the Creative Control Mode (1 47), Scene Mode (1 51), Endless Loop Recording Mode (1 53), Stop Motion Animation

Assist Mode* (1 54) and Manual Mode (1 55). * HC-V550 / HC-V550M / HC-V530 only ∫ To display the Touch Menu Display of the Touch Menu will disappear when no touch operation is performed for a specific period of time during recording of motion picture/still picture. To display it again, touch . ≥ Do not touch on the LCD monitor with hard pointed tips, such as ball point pens. - 19 - Preparation Setting date and time The clock is not set at the time of purchase. Make sure to set the clock. 1 2 A Select the menu. (1 30) MENU : [SETUP] # [CLOCK SET] Touch the date or time to be set, then set the desired value using / .

3 Displaying the World Time setting (1 31): [HOME]/ [DESTINATION] ≥ The year can be set between 2000 and 2039. Touch [ENTER]. ≥ A message prompting for World Time setting may be displayed. Perform the World Time setting by touching the screen. (1 31) ≥ Touch [EXIT] to complete the setting. ≥ When the unit is turned on for the first time, a message asking you to set the date and time will appear. Select [YES] and perform Steps 2 to 3 to set the date and time. ≥ The date and time function is driven by a built-in lithium battery. ≥ If the time display becomes [- -], the built-in lithium battery needs to be charged. To recharge the built-in lithium battery, connect the AC adaptor or attach the battery to this unit.

The battery is still being recharged even if the unit is off. Leave the unit as it is for approx. 24 hours and the battery will maintain the date and time for approx. 4 months. - 20 - Basic Before recording ∫ Basic camera positioning □ □ □ □ 1 Hold the unit with both hands.

2 Put your hand through the grip belt. 3 It is convenient to use the Recording button icon A when holding the unit at waist level. ≥ When recording, make sure your footing is stable and there is no danger of colliding with another person or object. ≥ When you are outdoors, record pictures with the sunlight behind you. If the subject is backlit, it will become dark in the recording.

≥ Keep your arms near your body and separate your legs for better balance. ≥ Do not cover the microphones with your hand etc. ∫ Basic motion picture recording ≥ The unit should normally be held steady when recording. ≥ If you move the unit when recording, do so slowly, maintaining a constant speed. ≥ The zoom operation is useful for recording subjects you cannot get close to, but overuse of zoom in and zoom out can make the resulting motion picture less enjoyable to watch. ∫ Recording Yourself Rotate the LCD monitor towards the lens side. ≥ The image is horizontally flipped as if you see a mirror image. (However the image recorded is the same as a normal recording.) ≥ Only some indications will appear on the screen. When appears, return the direction of the LCD monitor to normal position and check the warning/alarm indication.

(1 191) - 21 - Basic Selecting a media to record [HC-V550M] The card and built-in memory can be selected separately to record motion pictures or still pictures. 1 2 3 4 Set this unit to Recording Mode. (1 17) Select the menu. (1 30) MENU : [MEDIA SELECT] Touch the media to record motion pictures or still pictures. ≥ The media selected separately for motion pictures or still pictures is highlighted in yellow. Touch [ENTER]. - 22 - Basic Recording motion pictures ≥ HC-V250 / HC-V230 Open the lens cover before turning on the unit. (1 9) 1 2 Open the LCD monitor, and set this unit to Motion Picture Recording Mode. (1 17) Press the recording start/stop button to start recording. □ T □ A W 3 B When you begin recording, ; changes to ¥.

Recording button icon Press the recording start/stop button again to pause recording. ≥ Recording can also be started/stopped by touching the recording button icon. ∫ Screen indications in the Motion Picture Recording Mode Recording mode R 1h20m Approximate remaining recordable time ≥ When the remaining time is less than 1 minute, R 0h00m flashes red. Recording time elapsed ≥ "h" is an abbreviation for hour, "m" for minute and "s" for second. ≥ Each time the unit is put into recording pause, the counter display will be reset to 0h00m00s.

0h00m00s R 1h20m 0h00m00s ≥ Screen display will disappear when no touch operation is performed for a specific period of time. To display it again, touch the screen. (1 31) ≥ It will be constantly displayed when the remaining recordable time becomes less than 30 minutes. ≥ If the recording/playback button is pressed during motion picture recording, the recording will stop and this unit will be switched to Playback Mode. ≥ To change the recording format, change the [REC FORMAT] or [REC MODE].

(1 70, 71) ≥ Still pictures can be recorded while recording the motion picture. (1 26) ≥ The images recorded between pressing the recording start/stop button to start recording and pressing it again to pause recording become one scene.



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When you record with the [REC FORMAT] set to [MP4/iFrame], the scenes longer than approximately 20 minutes will be automatically divided. (Recording will continue.) - 23 - ≥ (Maximum recordable scenes of a single SD card or built-in memory) Recording format Recordable scenes Different dates (1 83) [AVCHD] Approx. 3900 Approx. 900 [MP4/iFrame] Approx. 89100 Approx. 900 ≥ Maximum number of recordable scenes and maximum number of different dates will be less than above table when there are both MP4/iFrame scenes and still pictures recorded on an SD card or the built-in memory. ≥ While recording is in progress, the recording will not stop even if the LCD monitor is closed.

≥ Please refer to page 206 for details about approximate recordable time. - 24 - Basic Recording still pictures ≥ HC-V250 / HC-V230 Open the lens cover before turning on the unit. (1 9) 1 2 Open the LCD monitor, and set this unit to Still Picture Recording Mode. (1 17) Press the Focus only) button halfway. (For Auto Focus indication: A Focus indication: ± (The white lamp flashes.); Focusing ¥ (The green lamp lights up.); When in focus No mark: When focusing is unsuccessful. Focus area (area inside brackets) □ □ B 3 Press the button fully. ≥ HC-V550 / HC-V550M / HC-V530 If you set the Optical Image Stabilizer function (1 60) to ([MODE1]), then the Image Stabilizer function will be more effective. (MEGA (MEGA Optical Image Stabilizer) will be displayed when the button is pressed halfway.

) ≥ ≥ ≥ HC-V250 / HC-V230 If you set the Optical Image Stabilizer function (1 43) to ([MODE1]), then the Image Stabilizer function will be more effective. (MEGA (MEGA Optical Image Stabilizer) will be displayed when the button is pressed halfway.) Using a tripod is recommended when recording still pictures in dark places because the shutter speed becomes slow. You can also take a picture just by touching the subject to focus. (Touch Shutter: 1 64) The still picture recording time may be long depending on the picture size.

The focus indication and the focus area may not be displayed depending on the recording conditions or the menu settings. - 25 - ∫ About the screen indications in Still Picture Recording Mode Still picture operation indicator (1 188) R3000 Remaining number of still pictures ≥ Flashes in red when [0] appears. Size of still pictures (1 77) MEGA Optical Image Stabilizer (1 25) R3000 10M MEGA 10M MEGA HC-V550 / HC-V550M / HC-V530 Optical Image Stabilizer (1 60) HC-V250 / HC-V230 Optical Image Stabilizer (1 43) ≥ Screen display will disappear when no touch operation is performed for a specific period of time. To display it again, touch the screen. ≥ It will be constantly displayed when the remaining number of still pictures that can be recorded becomes 200 or less.

∫ About the focusing area When there is a contrasting object ahead or behind the subject in the focus area, the subject may not be focused. If so, move the contrasting object out of the focus area. Recording still pictures in Motion Picture Recording Mode ↯ Set this unit to Motion Picture Recording Mode (1 17)

Press the button fully (press to the bottom) to take the picture. ≥ It is possible to record still pictures while recording motion pictures. (Simultaneous recording) ≥ While still pictures are being recorded, turns red and the remaining number of recordable pictures is displayed. ≥ No shutter sound is emitted when recording still pictures. ≥ Self-timer (1 67) do not work. ≥ While recording motion pictures or during the PRE-REC operation, image quality is different from ordinary still pictures so that motion picture recording takes preference over still picture recording. ≥ If simultaneous recording is performed during motion picture recording, the remaining recordable time will be shortened. If this unit is turned off or the recording/playback button is pressed, the remaining recordable time may be lengthened.

≥ The still picture recording time may be long depending on the picture size. ≥ Maximum number of recordable pictures that can be displayed is 9999. If the number of recordable pictures exceeds 9999, R 9999+ is displayed. The number will not change when the picture is taken until the number of recordable pictures is 9999 or less. ≥ The recording time may be long depending on the recording condition. - 26 - Basic Motion picture/Still picture playback 1 2 Set this unit to Playback Mode (1 17). Touch the play mode select icon A (1 19). ≥ You can also set by touching MENU , selecting [VIDEO SETUP] or [PHOTO SETUP] # [MEDIA, VIDEO/ PICTURE]. (1 30) □ □ ALL 3 HC-V550 / HC-V530 / HC-V250 / HC-V230 Select the still picture C or the recording format of the motion picture D you wish to play back. HC-V550M □ □ Select the media type E and then select the still picture C or the recording format of the motion picture D you wish to play back.

≥ Touch [Enter]. □ □ □ 4 (When [AVCHD] or [MP4/iFrame] is touched) Touch the desired recording format for playback. ≥ When [AVCHD] is selected [ALL AVCHD]/[1080/50p]/[1080/50i] ≥ When [MP4/iFrame] is selected [ALL MP4/iFrame]/[1080/50p]/[720/25p]/[360/25p]/[iFrame] ≥ The recording mode icon B is displayed in the thumbnail display when the item is touched. (, , , , and) ≥ The following icons are displayed on thumbnails when [ALL AVCHD] or [1080/50i] is touched: j AVCHD [1080/50p] scene: 50p j AVCHD [PH] scene: j AVCHD [HA] scene: j AVCHD [HG] scene: j AVCHD [HE] scene: ≥ The following icons are displayed on thumbnails when [ALL MP4/iFrame] is touched: j MP4 [1080/50p] scene: j MP4 [720/25p] scene: j MP4 [360/25p] scene: j iFrame scene: - 27 - 5 Touch the scene or the still picture to be played back. ≥ To display the next (previous) page: j Slide the thumbnail display upward (downward) while touching it.

j Switch the Touch Menu, and then touch (up) / (down) on the thumbnail scroll lever. 6 Select the playback operation by touching the operation icon. 0h01m30s ≥ Operation icons and screen display will disappear when no touch operation is performed for a specific period of time. To display them again, touch the screen. Operation icon Motion picture playback 1/; 6: 5: f: Playback/Pause Fast rewind playback* Fast forward playback* Stops the playback and shows the thumbnails.

1/; Still picture playback Slide show (playback of the still pictures in numerical order) start/ pause. Plays back the previous picture. Plays back the next picture. Stops the playback and shows the thumbnails. 2;; ;1: f: * When touched two times, the fast rewind/fast forward speed increases. (The screen display changes to /.) ∫ Change the thumbnail display While the thumbnail is displayed, the thumbnail display changes in the following order if the zoom lever is operated to side or side. 20 scenes () 9 scenes () 1 scene () Highlight & Time Frame Index* (1 81) * Highlight & Time Frame Index can only set in Motion Picture Playback Mode.



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≥ If the recording/playback button is pressed, the thumbnail display will return to the one that displays 9 scenes. ≥ By displaying in 1 scene or touching and holding the thumbnail in the 20 scenes or 9 scenes display, recording date and time are displayed when playing back motion pictures, and recording date and file number when playing back still pictures.

- 28 - *Speaker volume adjustment* Operate the volume lever to adjust the speaker volume during Motion Picture Playback Mode. Towards “r”: Towards “s”:
≥ ≥ ≥ ≥ Increases the volume Decreases the volume Sound will be heard only during normal playback. If pause play is continued for approx. 5 minutes, the screen returns to the thumbnails. The elapsed time for playback indication will be reset to 0h00m00s each scene. When played back with [ALL AVCHD] or [ALL MP4/iFrame] selected, the screen may become black momentarily at the time the scene switches. Motion picture compatibility ≥ This unit is based on AVCHD Progressive/AVCHD format/MPEG-4 AVC file format. ≥ Even if the devices used have compatible standards, when playback of motion pictures recorded using another device is performed using this unit, or when motion pictures recorded using this unit is played back in another device, playback may not proceed normally, or may not be possible. (Please check compatibility in the operating instruction of your device.) ≥ The only MP4 scenes that can be played back on this unit are those recorded with this unit.

Still picture compatibility ≥ This unit is compliant with the unified standard DCF (Design rule for Camera File system) established by JEITA (Japan Electronics and Information Technology Industries Association). ≥ The file formats of still pictures supported by this unit is JPEG. (Not all JPEG formatted files will be played back.) ≥ This unit may degrade or not play back still pictures recorded or created on other products and other products may degrade or not play back still pictures recorded on this unit. ≥ Depending on the playback device, still pictures may be played back with picture sizes different from the ones with which they were recorded.

- 29 - *Basic Using the menu screen* ≥ Touch 1 (left side)/ MENU (right side) of on the Touch Menu to display MENU. (1 19) Touch . *About guide display* MENU After touching , touching the submenus and items will cause function descriptions and settings confirmation messages to appear. ≥ After the messages have been displayed, the guide display is cancelled. 2 Touch the top menu A.

3 Touch the submenu B. ≥ Next (previous) page is displayed by touching / . 4 5 Touch the desired item to enter the setting. Touch [EXIT] to exit the menu setting. - 30 - *Basic Using the Setup Menu [DISPLAY]* Set the display method for the screen information display. MENU : [SETUP] # [DISPLAY] # desired setting Information is displayed on the screen for 5 seconds after starting the Motion Picture Recording Mode or Still Picture Recording Mode, starting to playback, or touching the screen. Constantly displayed. [5 SECONDS]: [ON]: [CLOCK SET] Please refer to page 20. [SET WORLD TIME] It is possible to display and record the time at the travel destination by selecting your home region and the travel destination. 1 Select the menu.

MENU : [SETUP] # [SET WORLD TIME] ≥ If the clock is not set, adjust the clock to the current time. (1 20) ≥ When the [HOME] (your home region) is not set, the message appears. Touch [ENTER] and proceed to Step 3. 2 (Only when setting your home region) Touch [HOME]. ≥ Touch [ENTER]. 3 (Only when setting your home region) Touch / to select your home region and touch [ENTER]. □ ≥ Touch [SUMMER TIME SET] to set daylight saving time. is displayed and the □ summer time setting is turned on, the time difference between the current time and GMT will be set forward by 1 hour. Touch [SUMMER A The current time TIME SET] again to return to the normal time B The time difference from GMT setting. (Greenwich Mean Time) If you set [Link Clock to Summertime] to [ON], the current time will also be set forward by 1 hour.

(1 32) 4 (Only when setting the region of your travel destination) Touch [DESTINATION]. ≥ Touch [ENTER]. - 31 - ≥ When the home region is set for the first time, the screen for selecting home/travel destination appears after setting the home region successively. If the home region has already been set once, execute the menu operation for Step 1. 5 (Only when setting the region of your travel □ destination) Touch / to select your travel destination and touch [ENTER].

≥ Touch [SUMMER TIME SET] to set daylight saving time. is displayed and the summer time setting is turned on, the time difference between the travel destination and C the home region will be set forward by 1 hour. Touch [SUMMER TIME SET] again to return to D the normal time setting. If you set [Link Clock to Summertime] to [ON], the time at the travel destination will also be set forward by 1 hour. ≥ Close the setting by touching [EXIT].

appears and the time of the travel destination is indicated. □ The local time at the selected travel destination The time difference between the travel destination and the home region To return the display to the home setting Set the home region using Steps 1 to 3, and close the setting by touching [EXIT]. ≥ If you cannot find your travel destination in the area shown on the screen, set it by using the time difference from your home region. [Link Clock to Summertime] If you set this function to [ON] and turn on the summer time setting in [SET WORLD TIME], the following times will be set forward by 1 hour: j

When setting your home region: the current time j When setting the region of your travel destination: the time at the travel destination MENU : [SETUP] # [Link Clock to Summertime] # desired display The times are adjusted when the summer time setting is turned on. The times are not adjusted when the summer time setting is turned on. [ON]: [OFF]: - 32 - [DATE/TIME] It is possible to change the date and time display mode. MENU : [SETUP] # [DATE/TIME] # desired display [DATE]/[D/T]/[OFF] ≥ The date and time are not displayed while the recording mode switching icon is displayed. (1 17) ≥ When the Touch Shutter is enabled, the recording mode switching icon is constantly displayed. This causes the date and time to disappear from the screen. [DATE FORMAT] It is possible to change the date format.

MENU : [SETUP] # [DATE FORMAT] # desired setting [Y/M/D]/[M/D/Y]/[D/M/Y] [ZOOM/REC DISPLAY] You can set the display method of the zoom button icons (T / W) and recording button icon (). MENU : [SETUP] # [ZOOM/REC DISPLAY] # desired setting Constantly displayed. Icons will disappear after approx. 5 seconds without any touch operation. [ON]: [OFF]: [O.I.S. LOCK DISPLAY] Please refer to page 63. [EXT. DISPLAY] Please refer to page 108.

- 33 - [ECONOMY (BATT)] When about 5 minutes have passed without any operation, this unit automatically turns off to save battery life.



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MENU : [SETUP] # [ECONOMY (BATT)] # [ON] ≥ This unit will not automatically turn off even if [ECONOMY (BATT)] is set to [ON] in following cases: j Using the AC adaptor* j Using the USB cable for PC etc. j PRE-REC is used j During slide show playback j HC-V550 / HC-V550M / HC-V250 Using the Wi-Fi function * When [ECONOMY (AC)] is activated, this unit automatically turns off. [ECONOMY (AC)] When about 30 minutes have passed without any operation while connecting AC adaptor with this unit, this unit automatically turns off. MENU : [SETUP] # [ECONOMY (AC)] # [ON] ≥ This unit will not automatically turn off even if [ECONOMY (AC)] is set to [ON] in following cases: j Using the USB cable for PC etc. j PRE-REC is used j During slide show playback j HC-V550 / HC-V550M / HC-V250 Using the Wi-Fi function - 34 - [QUICK START] This unit is put into recording pause approx. 0.6 seconds after the LCD monitor is reopened. ≥ When in Quick Start Standby Mode about 50% of the power used in recording pause mode is being consumed, so the recording time will be reduced. ≥ HC-V550 / HC-V530 / HC-V250 / HC-V230 Quick Start will not work if there is no SD card inserted.

≥ HC-V550M Quick Start will not work if the [SD CARD] is selected in the [MEDIA SELECT], even if there is no SD card inserted. 1 Select the menu. MENU : [SETUP] # [QUICK START] # [ON] 2 Close the LCD monitor. □ The status indicator A flashes green and the unit goes into Quick Start Standby Mode. ≥ HC-V550 / HC-V550M / HC-V530 The lens cover does not close. 3 Open the LCD monitor. □ The status indicator A lights red and the unit is put into recording pause. ≥ About 5 minutes have passed, the Quick Start Standby Mode is cancelled, and the unit is turned off. ≥ Depending on the recording conditions and menu settings, time for Quick Start may be longer than 0.6 seconds.

≥ It may take some time for Automatic White Balance to adjust. ≥ In the Quick Start Mode, the zoom magnification becomes approx. 1k. ≥ When it has gone into Quick Start Standby Mode automatically with the [ECONOMY (BATT)] (1 34)/[ECONOMY (AC)] (1 34), close the LCD monitor once and open it again. ≥ Turn the unit off using the power button. [ALERT SOUND] Touch screen operation, starting and stopping of recording and unit on/off can be confirmed with this sound. When [OFF] is selected, the sound is not output at the start/end of recording, etc. MENU : [SETUP] # [ALERT SOUND] # desired setting (Volume low)/ (Volume high)/[OFF] 2 Beeps for 4 times When an error occurs. Check the sentence displayed on the screen. (1 191) - 35 - [SELECT OPERATION ICONS] You can change the operation icons (1 65) to display in the Touch Menu.

Register 3 favourite operation icons. ≥ The default settings are, (Fade), (PRE-REC) and (Backlight Compensation) for Motion Picture Recording Mode, and (Self-timer), (Backlight Compensation) and (Tele Macro) for Still Picture Recording Mode. 1 Select the menu. MENU : [SETUP] # [SELECT OPERATION ICONS] 2 3 4 Touch the operation icon you would like to change to cancel the setting. Touch the operation icon to be set.

Touch [ENTER]. ≥ Name of the function is displayed by touching and holding on the operation icon. ≥ To cancel, touch the operation icon again. [POWER LCD] This makes it easier to view the LCD monitor in bright places including outdoors. MENU : [SETUP] # [POWER LCD] # desired setting +1 (Makes brighter)/ 0 (Normal)/ -1 (Makes less bright) ≥ These settings will not affect the images actually recorded.

≥ When the AC adaptor is in use, the LCD monitor is set to +1 automatically. ≥ Recordable time with the battery is shortened when the LCD is made brighter. [LCD SET] It adjusts brightness and colour density on the LCD monitor. ≥ These settings will not affect the images actually recorded. 1 Select the menu. MENU : [SETUP] # [LCD SET] # desired setting Brightness of the LCD monitor Colour level of the LCD monitor [BRIGHTNESS]: [COLOUR]: 2 3 Touch / to adjust settings. Touch [ENTER]. ≥ Touch [EXIT] to exit the menu screen. - 36 - [HDMI RESOLUTION] Please refer to page 109. [VIERA Link] Please refer to page 110.

[TV ASPECT] Please refer to page 108. [INITIAL SET] Set to [YES] for changing the menu settings back to the default condition. MENU : [SETUP] # [INITIAL SET] ≥ Settings for [MEDIA SELECT]*, [CLOCK SET] and [LANGUAGE] will not be changed. * For users who have HC-V550 / HC-V530 / HC-V250 / HC-V230, this menu is not displayed. ≥ If you restore the default settings, this unit will switch to the Motion Picture Recording Mode. HC-V550 / HC-V550M / HC-V250 [Reset Wi-Fi Settings] Set to [YES] for changing the Wi-Fi settings back to the default condition. MENU : [SETUP] # [Reset Wi-Fi Settings] ≥ The "LUMIX CLUB" Login ID and Wi-Fi Password are also deleted. [Auto Cursor Position] The entered character is confirmed in approx. 1 second after character input, and the cursor is moved to the right. It makes the input easy without moving the cursor when characters on the same key are to be entered again.

MENU : [SETUP] # [Auto Cursor Position] # [ON] ≥ Character input screen is displayed in following conditions: j When setting [TITLE SETUP] for the Highlight Playback (1 88) j When entering a name in the Baby Calendar (1 93) j HC-V550 / HC-V550M / HC-V250 When you configure the Wi-Fi function (1 148, 160, 161, 169, 170, 171, 172) - 37 - [NUMBER RESET] Set the file number of the MP4/iFrame and still picture recorded next to 0001. MENU : [SETUP] # [NUMBER RESET] ≥ Folder number is updated and file number will start from 0001. (1 184) ≥ To reset the folder number, format the SD card and built-in memory, and then perform [NUMBER RESET]. ≥ HC-V550 / HC-V550M / HC-V530 The file numbers of still pictures you record in Stop Motion Animation Assist Mode are not reset. [FORMAT MEDIA] Please be aware that if a medium is formatted, then all the data recorded on the medium will be erased and cannot be restored.

Back up important data on a PC, DVD disc etc. (1 174) MENU : [SETUP] # [FORMAT MEDIA] # desired media [Built-inMemory]*1/[SD CARD]/[HDD]*2 *1 *2 HC-V550M only. Displayed when connecting a USB HDD. (1 115) ≥ HC-V550 / HC-V530 / HC-V250 / HC-V230 Media selection screen is not displayed when the USB HDD is not connected. Touch [YES].

≥ When formatting is complete, touch [EXIT] to exit the message screen. ≥ Perform a physical formatting of the SD card when the SD card is to be disposed/ transferred. (1 202) ≥ HC-V550M Perform a physical formatting of the built-in memory when this unit is to be disposed/ transferred. (1 200) ≥ Do not turn this unit off or remove the SD card, while formatting. Do not expose the unit to vibrations or shock. Use this unit to format media. Formatting built-in memory is only available with this unit. Do not format an SD card using any other equipment such as a PC. The card may not be used on this unit. - 38 - [MEDIA STATUS] The used space and remaining recordable time of the SD card and built-in memory can be checked.



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MENU : [SETUP] # [MEDIA STATUS] ≥ HC-V550M Touching [CHANGE MEDIA] switches the unit between the display for the SD card and the display for the built-in memory. ≥ The remaining recordable time in the currently set Recording Mode is displayed only in the Motion Picture Recording Mode. ≥ Touch [EXIT] to close the indication. ≥ The SD card or built-in memory requires some space to store information and manage system files, so the actual usable space is slightly less than the indicated value. The usable SD card/built-in memory space is generally calculated as 1 GB=1,000,000,000 bytes. The capacities of this unit, PCs and software are expressed as 1 GB=1,024k1,024k1,024=1,073,741,824 bytes. Therefore, the indicated value of the capacity appears to be smaller. [Version Disp.] The firmware version of this unit is displayed. MENU : [SETUP] # [Version Disp.]

] [Version Up] You can update the firmware version of this unit. MENU : [SETUP] # [Version Up] For the latest update information, check the support website below. (As of November 2013) http://panasonic.jp/support/global/cs/e_cam (This Site is English only) - 39 - [DEMO MODE] This item is used to start the unit demonstration. MENU : [SETUP] # [DEMO MODE] # [ON] ≥ If [DEMO MODE] is switched to [ON] and you touch [EXIT] when there is no SD card inserted and while this unit is connected to the AC adaptor, the demonstration automatically starts.

If any operation takes place, the demonstration is cancelled. However if no operations take place for approx. 10 minutes, the demonstration automatically starts again. To stop the demonstration, set [DEMO MODE] to [OFF] or insert an SD card. ≥ HC-V550 / HC-V550M / HC-V530 When Demo Mode is in operation, the lens cover remains open.

[O.I.S. DEMO] This item is used to start the Optical Image Stabilizer demo. MENU : [SETUP] # [O.I.S. DEMO] ≥ Touch [O.I.S.]

[DEMO], the demonstration automatically starts. When you touch [EXIT], the demonstration will be cancelled. [Eye-Fi TRANSFER] This item is displayed only when an Eye-Fi card is inserted. Please refer to page 124. [Eye-Fi DIRECT] This item is displayed only when an Eye-Fi card is inserted. Please refer to page 125. [LANGUAGE] You can select the language on the screen display and the menu screen. MENU : [SETUP] # [LANGUAGE] # desired language - 40 - Advanced (Recording) Using the zoom Zoom lever/Zoom button icons T W T W T side: Close-up recording (zoom in) W side: Wide-angle recording (zoom out) 6 □ W T □ A Zoom bar ≥ Maximum zoom ratio for recording motion pictures can be set with [ZOOM MODE]. (l 70) ∫ About the zoom bar The zoom bar is displayed during the zoom operation. W □ □ T B C i

Zoom off i.Zoom/Digital zoom/Extra Optical Zoom (Blue) ∫ About the zoom speed ≥ The zoom speed varies depending on the range over which the zoom lever is moved. ≥ The zoom operation using the zoom button icons will be performed at a constant speed respectively. Zoom ratio during the Still Picture Recording Mode The zoom ratio can be expanded up to 100k without degrading the picture quality for the Still Picture Recording Mode. (Extra Optical Zoom) ≥ Maximum zoom ratio in Still Picture Recording Mode varies depending on the setting of [PICTURE SIZE].

(l 77) ≥ If you take your finger off the zoom lever during zoom operation, the operation sound may be recorded. When returning the zoom lever to the original position, move it quietly. ≥ When the zoom magnification is at its maximum, the subjects are focused at about 2.2 m or more. ≥ When the zoom magnification is 1k, this unit can focus on a subject approx.

2 cm away from the lens. - 41 - Advanced (Recording) Level Shot Function [HC-V550]/[HC-V550M]/[HC-V530] This function detects the horizontal tilt of the unit, and automatically corrects it to the level position. (When setting (Normal)) (When setting (Strong)) : With Level Shot Function : Without Level Shot Function Level Shot Function button Each press of this button switches Level Shot Function. (Normal) # (Strong) # Off (Normal): Corrects the tilt. (Strong): Strengthen tilt correction. Off: Cancel the setting. ≥ The icon changes when the tilt exceeds the correction range. / / / / When the tilt is corrected When the tilt is above the correction range / is ≥ When the tilt exceeds the correction range, move the unit to the position where displayed. ≥ This function's default setting is (Normal). ≥ The range that this icon can be displayed correctly the slope is about 45 o to the horizontal direction.

≥ Level Shot Function is cancelled when [LEVEL GAUGE] is set to [ON]. (l 73) ≥ When recording horizontal images using a tripod, attach the unit on the tripod using [LEVEL GAUGE] (l 73), and then set Level Shot Function to (Normal) or (Strong) before use. ≥ When you switch the setting of the Level Shot Function, the screen may become black momentarily. ≥ If you set the option to (Normal)/(Strong), the angle of view will change. - 42 - Advanced (Recording) Image Stabilizer Function [HC-V250]/[HC-V230] Optical Image Stabilizer can stabilize the image without decreasing the image quality as much. O.I.S. Optical Image Stabilizer button Press the button to turn Optical Image Stabilizer on/off. (Motion Picture Recording Mode) / # (setting cancelled) ≥ When [O.I.S.] is set to [Standard], is displayed; when [O.I.S.]

] is set to [Active], is displayed. ≥ When recording with a tripod in Motion Picture Recording Mode, we recommend that you set the Image Stabilizer (off). (Still Picture Recording Mode) / # (setting cancelled) ≥ When [O.I.S.]

] is [MODE1], is displayed. When [O.I.S.] is [MODE2], is displayed. ∫ Changing Image Stabilizer Mode (Motion Picture Recording Mode) MENU : [RECORD SETUP] # [O.I.S.] # [Standard] or [Active] Compensates for blurring caused by hand-shake Compensates for even greater blurring caused by hand-shake. [Standard]: [Active]: (Still Picture Recording Mode) MENU : [RECORD SETUP] # [O.]

[I.S.] # [MODE1] or [MODE2] The function works all the time. The function works when the button is pressed. We recommend using this mode when you are recording yourself or recording with a tripod in Still Picture Recording Mode. [MODE1]: [MODE2]: ≥ The Image Stabilizer can also be turned on/off using the Touch Function. (l 61) ≥ Please refer to page 63 for details about Optical Image Stabilizer Lock. - 43 - Advanced (Recording) Changing the Recording Mode 1 Touch the Recording Mode button icon. MENU 2 Touch the desired Recording Mode button icon. Mode Intelligent Auto Effect You can switch the mode to the Intelligent Auto Mode, which optimises settings to the recording environment you are in.

(l 45) You can add manually-adjusted brightness and colour balance settings to the Intelligent Auto Mode, and record. (l 47) You can record motion pictures with added effects. (l 47) This option allows this unit to automatically adjust the shutter speed and aperture, etc. according to the scene you want to record. (l 51) You can set the shutter speed, focus, White Balance and brightness (iris/gain).



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(l 55) No matter how long you record, you can only record scenes for the last 1 hour to SD card. (l 53) You can set a recorded still picture as the background, and record the next picture while looking at that recorded picture as the background. (l 54) Intelligent Auto Plus *1 Creative Control Scene Mode MNL *1 Manual Endless Loop Recording Stop Motion Animation Assist *2, 3 *1 *2 *3 In Motion Picture Recording Mode only HC-V550 / HC-V550M / HC-V530 only In Still Picture Recording Mode only - 44 - Intelligent Auto The following modes (appropriate for the condition) are set just by pointing the unit to what you want to record. Mode Portrait Scenery *1 *1 *2 *2 *1 *2 Effect Faces are detected and focused automatically, and the brightness is adjusted so it is recorded clearly. The whole landscape will be recorded vividly without whitening out the background sky, which may be very bright.

Very bright object is recorded clearly. It can record very clearly even in a dark room or twilight. You can record night scenery vividly by slowing the shutter speed. This allows recording at very close proximity to the object of recording. In modes other than those described above, the contrast is adjusted to give a clear picture. Spotlight Low Light Night Scenery Macro Normal Normal *1 *2 In Motion Picture Recording Mode only In Still Picture Recording Mode only

≥ Depending on the recording conditions, the unit may not enter the desired mode. ≥ In the Portrait, Spotlight, or Low Light Mode, the face will be surrounded by a white frame when detected. In the Portrait Mode, a subject that is bigger and close to centre of the screen will be surrounded by an orange frame. (l 72) ≥ Using a tripod is recommended in Night Scenery Mode. ≥ Faces cannot be detected depending on the recording conditions, such as when faces are of certain sizes or at certain tilts or when digital zoom is used.

- 45 - ∫ Intelligent Auto Mode When switching to Intelligent Auto Mode, the Automatic White Balance and Auto Focus operate and automatically adjust the colour balance and focusing. Depending on the brightness of the subject etc., the aperture and shutter speed are automatically adjusted for an optimum brightness. ≥ Colour balance and focus may not be adjusted automatically depending on light sources or scenes. If so, manually adjust these settings. (l 56, 58) Automatic White Balance The illustration shows the range over which Automatic White Balance functions. 1) The effective range of Automatic White Balance adjustment 10 000K 9 000K on this unit 8 000K 2) Blue sky 7 000K 3) Cloudy sky (rain) 6 000K 4) Sunlight 5 000K 5) White fluorescent lamp 1) 6) Halogen light bulb 4 000K 7) Incandescent light bulb 3 000K 8) Sunrise or sunset 9) Candlelight If the Automatic White Balance is not functioning normally, adjust the White Balance manually. (l 56) 2 000K 2) 3) 4) 5) 6) 7) 8) 9) Auto Focus The unit focuses automatically. ≥ Auto Focus does not work correctly in the following situations. Record pictures in the Manual Focus Mode.

(l 58) j Recording distant and close-up objects at the same time j Recording a subject behind dirty or dusty window j Recording a subject that is surrounded by objects with glossy surfaces or by highly reflective objects - 46 - Intelligent Auto Plus Please refer to page 45 for details about the effect of each mode. (Portrait)/ *1 *2 (Scenery)/ (Spotlight)*1/ (Low Light)*1/ (Normal)*2 (Night Scenery)*2/ (Macro)*2/ (Normal)*1/ In Motion Picture Recording Mode only In Still Picture Recording Mode only . (l 44) ≥ Change the Recording Mode to 1 (When adjusting the brightness) Touch Touch . . (When adjusting the colour balance) ≥ R side: Sets the balance to a reddish tone.

B side: Sets the balance to a bluish tone. ≥ Except for when adjusting the brightness or colour balance, if you do not touch the screen for a while, the Touch Menu will disappear. To display it again, touch . 2 Touch / to adjust settings. while adjusting the colour balance to ≥ Touch while adjusting the brightness, or touch make the display of the adjustment bar disappear.

3 Start recording. Creative Control ≥ Set [REC FORMAT] to [AVCHD]. (l 70) ≥ Change the Recording Mode to . (l 44) Select the desired Creative Control Mode, then touch [Enter]. Mode Effect You can record motion pictures with a diorama effect like recording a miniature by intentionally creating focused area and out of focused area in the peripheral of the image and recording motion picture with an interval. (l 48) ≥ Motion pictures recorded with this function will look as if the frame rate is low. You can record motion pictures with a faded retro effect. (l 49) You can record motion pictures that are similar to black-and-white silent films by lowering the amount of incoming light. (l 49) You can record a scene that moves slowly over a long period of time as a short time motion picture by recording one frame at each set time lapse. (l 50) [Miniature Effect] [8mm movie] [Silent movie] [Time Lapse Rec] ≥ Still pictures cannot be taken.

- 47 - MINI [Miniature Effect] 1 Touch to adjust the horizontal position of the in-focus portion. ≥ If you touch the screen, you can adjust the horizontal position of the in-focus portion. ≥ When no touch operations are performed for approximately 1 second, [Reset], [SIZE], and [ENTER] are displayed. If you touch the screen, you can readjust the horizontal position of the in-focus portion. ≥ Position of the in-focus portion will return to original position when you touch [Reset]. 2 Touch [SIZE]. ≥ The size of the in-focus portion is switched every time you touch [SIZE]. Medium size # Large size # Small size ≥ If you touch the screen, you can adjust the horizontal position of the in-focus portion. ≥ If you touch [Reset], the in-focus portion is reset to the original position and [SIZE] is reset to the medium size. 3 4 Touch [ENTER].

(When adjusting the brightness) Touch . (Bright) # (Dark) ≥ The level of brightness is switched every time you touch the icon. (Standard) # 5 (When adjusting the vividness) Touch . (Vivid) # (Most vivid) ≥ The level of vividness is switched every time you touch the icon. (Standard) # 6 Start recording.

≥ It will record with an interval. 1 second will be recorded for approximately every 6 seconds of recording. ≥ To make the Miniature Effect easier to gain, record objects incorporating a distant view or those that can provide depth or a skewed perspective. Also, use a tripod and avoid zooming. ≥ You may see a lot of noise in the in-focus portion when recording dark subjects such as night scenes.

≥ Audio cannot be recorded. ≥ [REC MODE] is set to [HA]. ≥ The maximum recordable time is 12 hours. ≥ Motion pictures recorded with this function will look as if the frame rate is low. ≥ HC-V550M Setting Miniature Effect will set [RELAY REC] to [OFF]. (l 72) - 48 - 8mm [8mm movie] . (Bright) # (Dark) 1 (When adjusting the brightness) Touch ≥ The level of brightness is switched every time you touch the icon.



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(Standard) # 2 (When adjusting the colour balance) Touch . (Red) # (Yellow) ≥ The level of colour balance is switched every time you touch the icon. (Blue) # 3 Start recording.

≥ The sound is monaural. SILN [Silent movie] . (Bright) # (Dark) 1 (When adjusting the brightness) Touch ≥ The level of brightness is switched every time you touch the icon. (Standard) # 2 Start recording. ≥ Audio cannot be recorded. - 49 - INTV [Time Lapse Rec] Touch the desired setup time. [1 SECOND]/[10 SECONDS]/[30 SECONDS]/[1 MINUTE]/[2 MINUTES] ≥ Touch [ENTER]. ≥ A frame is recorded with a set recording interval. 25 frames will make up motion picture of 1 second. Setup example Sunset Blooming Setup time (recording interval) 1s 30 s Recording time 1h 3h Recorded time 2 min 12 s ≥ "h" is an abbreviation for hour, "min" for minute and "s" for second.

≥ These times are approximations. ≥ Maximum recordable time is 12 hours. Audio cannot be recorded. [REC MODE] is set to [HA]. The shortest motion picture recording time is 1 second.

The colour balance and focus may not be adjusted automatically depending on the light source or scene. If so, manually adjust those settings. (1 56, 58) ≥ HC-V550M Setting Time Lapse Recording will set [RELAY REC] to [OFF]. (1 72) ≥ When recording for a long time, we recommend recording with the AC adaptor connected. ≥ ≥ ≥ - 50 - Scene Mode ≥ Change the Recording Mode to .

(1 44) Touch the desired Scene Mode. Mode 5Sports: Portrait: Soft Skin: Spotlight: Snow: Beach: Sunset: Scenery: Fireworks: Night Scenery: Low Light: ≥ Touch [ENTER]. ≥ (Sports/Portrait/Soft Skin/Spotlight/Snow/Beach/Sunset/Scenery) j The shutter speed is 1/6 or more in Still Picture Recording Mode. ≥ (Sunset/Low Light) j The shutter speed is 1/25 or more in Motion Picture Recording Mode. ≥ (Sunset/Scenery/Fireworks/Night Scenery) j Image may get blurry when close object is recorded. ≥ (Sports) j During normal playback, the image movement may not look smooth. j Colour and screen brightness may change under indoor lighting. j If the brightness is insufficient, the Sports Mode does not function. The display flashes. ≥ (Portrait) j Colour and screen brightness may change under indoor lighting.

≥ (Soft Skin) j If the background or anything else in the scene has colours similar to the skin colour, they will also be smoothed. j If the brightness is insufficient, the effect may not be clear. j If you record a person in the distance, the face may not be recorded clearly. In this case, cancel Soft Skin Mode or zoom in on the face (close-up) to record. ≥ (Fireworks) j The shutter speed is 1/25. j Image may get washed out when recorded in bright surrounding. Effect To make fast moving scenes less shaky with slow playback and pause of playback To make people stand out against the background To make skin colours appear softer for a more attractive appearance Improved quality when subject is brightly illuminated. Improved image quality when shooting in snowy locations. To make blue in the sea or sky vibrant To make red in the sunrise or sunset vibrant For spatial scenery To capture the fireworks in the night sky beautifully To capture the evening or night scenery beautifully For dark scenes, such as at dusk (In Motion Picture Recording Mode only) - 51 - ≥ (Night Scenery) j The shutter speed is 1/2 or more in Still Picture Recording Mode. j Using a tripod is recommended.

- 52 - Endless Loop Recording ≥ Insert an SD card. ≥ Change the Recording Mode to . (1 44) 1 Select sound in loop recording setting. [ON]: [OFF]: Records sound. Recording of sound is off.

2 Start recording. ≥ Once you start recording, the scene will be automatically divided every 2 minutes. The divided scenes will be saved in the SD card. (Each time you use Endless Loop Recording, a set of up to 30 scenes will be saved.) ≥ When the period between the time you start recording and the time you stop recording is longer than 1 hour (approximate), only the last 1 hour (approximate) part up to the end of the recording will be saved.

The part before the 1 hour part will be deleted. ≥ Recording stops automatically when approximately 24 hours have passed since the start of the recording. ≥ During recording, the blinks. ≥ The remaining recordable time and elapsed recording time are not displayed. (1 23) ≥ Only when sound in loop recording is set to [ON], (microphone input level meter) is displayed. To switch sound in loop recording The menu can be set to switch to sound in loop recording. MENU : [RECORD SETUP] # [Sound In Loop Recording] # [ON] or [OFF] ≥ Still pictures cannot be taken. ≥ [REC FORMAT] is set to [MP4/iFrame], and [REC MODE] is set to [720]. ≥ HC-V550 / HC-V550M / HC-V530 Image Stabilizer Function is set to (setting cancelled) and Level Shot Function is set to off. HC-V250 / HC-V230 Image Stabilizer Function is set to (setting cancelled).

≥ Endless Loop Recording is not possible in the following cases: j When the SD card is not inserted j When the approximate remaining recordable time on the SD card is less than 1 hour (The time between R 0h00m and R 0h59m flashes red.) ≥ Since each set of loop-recorded scenes is displayed separately on the date list, it is convenient to play back loop-recorded scenes by date. (1 83) (The date displayed on the date list will be the one on which you started Endless Loop Recording.) - 53 - Stop Motion Animation Assist [HC-V550]/[HC-V550M]/[HC-V530] Before recording in Stop Motion Animation Assist Mode You can create a slideshow that appears to be moving by recording the subject while moved a little at a time. ≥ Each recording group can store up to 999 still pictures recorded in Stop Motion Animation Assist Mode. ≥ HC-V550M Recording groups for the SD card and the built-in memory are created separately. ≥ Change the Recording Mode to . (1 44) 1 2 Press the button to record the still pictures. (1 25) Touch [Enter]. ≥ A still picture will be recorded, and it will be displayed in a semi-transparent state on the recording screen.

Look at the picture to estimate how far you should move the subject for the next recording. ≥ If you have already recorded still pictures in the recording group, the last still picture will be displayed in a semi-transparent state on the recording screen. ≥ To record again, touch and record again. 3 Move the subject and determine the composition of the picture. ≥ Repeat Steps 1-3 to continue recording.

≥ You can save still pictures in the same recording group until you use [Create Stop Motion]. Creating a new recording group MENU : [PICTURE] # [Create Stop Motion] ≥ If you touch [YES], a new recording group will be created and the recording screen will be displayed. ≥ Once you create a recording group, you cannot save still pictures in any of the older recording groups. ≥ [PICTURE SIZE] is set to 2.1M (1920x1080).

≥ HC-V550 / HC-V530 / HC-V250 / HC-V230 When you want to record still pictures in a separate recording group, use a different SD card.



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