



**Manual abstract:**

@@@Please note that the actual controls and components, menu items, etc. @@@The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red. **WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL Ó OR COLOURED GREEN OR GREEN/YELLOW. THIS PLUG IS NOT WATERPROOF--KEEP DRY.** Caution for AC mains lead For your safety, please read the following text carefully. This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5-ampere fuse is fitted in this plug. @@@@A replacement fuse cover can be purchased from your local dealer. Before use Remove the connector cover. How to replace the fuse The location of the fuse differ according to the type of AC mains plug (figures A and B).

Confirm the AC mains plug fitted and follow the instructions below. Illustrations may differ from actual AC mains plug. 1. Open the fuse cover with a screwdriver. **CAUTION! IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.** THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMPERE SOCKET. If a new plug is to be fitted please observe the wiring code as stated below. If in any doubt please consult a qualified electrician. 2. Replace the fuse and close or attach the fuse cover.

2 VQT3E82 **WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS. USE ONLY THE RECOMMENDED ACCESSORIES. DO NOT REMOVE THE COVER (OR BACK); THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.** The socket outlet shall be installed near the equipment and easily accessible. The mains plug of the power supply cord shall remain readily operable. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from AC receptacle. **Warning Risk of fire, explosion and burns. Do not disassemble, heat above 60 xC or incinerate. EMC Electric and magnetic compatibility** This symbol (CE) is located on the rating plate.

Use only the recommended accessories. Do not use any other AV cables and USB cables except the supplied one. Keep the Memory Card out of reach of children to prevent swallowing. **CAUTION! DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS. DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS. DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT. DISPOSE OF BATTERIES IN AN ENVIRONMENTALLY FRIENDLY MANNER.** Product identification marking Product SD Video Camera SD/HDD Video Camera AC adaptor Location Bottom Bottom Bottom VQT3E82 3 Information for Users on Collection and Disposal of Old Equipment and used Batteries These symbols on the products, packaging, and/ or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC. By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation. For business users in the European Union If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union] These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal. Cd Note for the battery symbol (bottom two symbol examples): This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved. Indemnity about recorded content Panasonic does not accept any responsibility for damages directly or indirectly due to any type of problems that result in loss of recording or edited content, and does not guarantee any content if recording or editing does not work properly.

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/ HDD related component). These operating instructions are designed for use with models SDR-H100 , SDR-H101 , SDR-S70 and SDR-T70 . Pictures may be slightly different from the original. The illustrations used in these operating instructions show model SDR-S70 , however, parts of the explanation refer to different models. Depending on the model, some functions are not available. Features may vary, so please read carefully. Not all models may be available depending on the region of purchase. For the purposes of these operating instructions SD Memory Card, SDHC Memory Card and SDXC Memory Card are referred to as the "SD card". Functions that can be used for motion picture recording/motion picture playback are indicated by in these operating instructions. 4 VQT3E82 Functions that can be used for still picture recording/still picture playback are indicated by in these operating instructions.

Pages for reference are indicated by an arrow, for example: 1 00 vibrations. Recording data on an SD card is recommended in these places. Back up data periodically. The HDD is temporary storage. In order to avoid erasing data due to static electricity, electromagnetic waves, breakage, and failures, back up the data to a PC or DVD disc. (1 79, 86) If the HDD experiences any abnormality, back up data immediately. Failure in the HDD may produce continuous noise or choppy sound during recording or playing back. Continuous use will cause further deterioration, and may eventually disable the HDD. If these phenomena are observed, copy the data on the HDD to a PC, a DVD disc etc. immediately and contact your dealer.

Once the HDD is out of order, data cannot be restored. Operation may stop in hot or cold environments.



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The unit is disabled in order to protect the HDD. Do not use the unit in low atmospheric pressures. The HDD may fail if it is used at altitudes of 3000 m or higher above sea level.

Transportation When the unit is transported, turn off the unit and be careful not to shake, fall, or impact the unit. Falling detection [ G ] is indicated on the screen when it detects a falling state (a weightless state). If the falling state is detected repeatedly, the unit may stop the recording or playback operation in order to protect the HDD. HDD access lamp [ACCESS HDD] (l 13) illuminates while the HDD is being accessed (initialization, recording, playback, deleting etc.).

Do not perform the following operations when the lamp illuminates. It may damage the HDD or cause a malfunction in the unit. j Turn off the unit (remove the battery) j Insert and remove the USB cable j Expose the unit to vibrations or shock Handling of built-in memory [SDR-T70] This unit is equipped with the built-in 4 GB memory. When using this component, pay attention to the following points. Back up data periodically. The built-in memory is temporary storage. In order to avoid erasing data due to static electricity, electromagnetic waves, breakage, and failures, back up the data to a PC or DVD disc. (l 79, 86) Access lamp [ACCESS] (l 11) illuminates while the SD card or built-in memory is being accessed (initialization, recording, playback, deleting etc.). Do not perform the following operations when the lamp illuminates.

It may damage the built-in memory or cause a malfunction in the unit. j Turn off the unit (remove the battery) j Insert and remove the USB cable j Expose the unit to vibrations or shock About disposing of or giving away this unit. (l 110) Handling of HDD [SDR-H100]/[SDR-H101] This unit is equipped with the built-in 80 GB HDD. While the HDD is capable of storing a large amount of data, there are a few things to look out for. When using this component, pay attention to the following points. Do not expose the HDD to vibrations and shocks. Due to the environment and handling conditions, the HDD may be subject to partial damages or may not be able to read, record, and play back data. Do not expose the unit to vibrations or shock, and do not turn off the unit during recording or playback. If the unit is used in a place with loud sounds, such as a club or venue, the recording may stop due to sound VQT3E82 5 About disposing of or giving away this unit. (l 110) Carefully observe copyright laws Recording of pre-recorded tapes or discs or other published or broadcast material for purposes other than your own private use may infringe copyright laws.

Even for the purpose of private use, recording of certain material may be restricted. Other names of systems and products mentioned in these instructions are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned. This product is licensed under the AVC patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See <http://www.mpegla.com>. 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 20 for more details on SD cards.

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(1 48) 17 Joystick Use the joystick to select the recording functions and playback operations, and to operate the menu screen. Move the joystick up, down, left, or right to select a setting or scene and then press the joystick to set it. 20 21 1 Select by moving up, down, left or right. 2 Set by pressing the centre. Menu screen operations (1 25) To select the recording functions (1 49) To adjust manually (1 57) Playback operations (1 61, 67) 18 Mode switch (1 24) 19 Recording start/stop button (1 40) 20 Menu button [MENU] (1 25) 21 Battery holder (1 15) 12 VQT3E82 25 26 22 23 24 27 28 22 Photoshot button [ ] (1 44) 23 When recording: Zoom lever [W/T] (1 46) When playing back: Thumbnail display switch [ / ] (1 62) Volume lever [sVOLr] (1 63) 24 Speaker 25 Status indicator (1 23) 26 HDD access lamp [ACCESS HDD] (SDR-H100/SDR-H101) (1 5) 27 DC input terminal [DC IN] (1 16) Do not use any other AC adaptors except the supplied one. 28 Grip belt Adjust the belt length and the pad position. 1 Flip the belt. 2 Adjust the length. 3 Replace the belt. 29 Battery release lever [BATTERY] (1 15) 30 Tripod receptacle 29 30 VQT3E82 13 Preparation Setup 1 Power supply About batteries that you can use with this unit SDR-S70 / SDR-T70 The battery that can be used with this unit is VW-VBL090/VW-VBK180/VW-VBK360. SDR-H100 / SDR-H101 The battery that can be used with this unit is VW-VBK180/VW-VBK360. SDR-H100 / SDR-H101 The unit has a function for distinguishing batteries which can be used safely. The dedicated battery (VW-VBK180/VW-VBK360) supports this function. The only batteries suitable for use with this unit are genuine Panasonic products and batteries manufactured by other companies and certified by Panasonic.

(Batteries which do not support this function cannot be used). Panasonic cannot in any way guarantee the quality, performance or safety of batteries which have been manufactured by other companies and are not genuine Panasonic products.



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It has been found that counterfeit battery packs which look very similar to the genuine product are made available to purchase in some markets. Some of these battery packs are not adequately protected with internal protection to meet the requirements of appropriate safety standards. There is a possibility that these battery packs may lead to fire or explosion. Please be advised that we are not liable for any accident or failure occurring as a result of use of a counterfeit battery pack. To ensure that safe products are used we would recommend that a genuine Panasonic battery pack is used. 14 VQT3E82 Inserting the battery Press the power button to turn off the unit. (1 23) Install the battery by inserting it in the direction shown in the figure. Removing the battery Be sure to hold down the power button until the status indicator goes off.

Then remove the battery while supporting the unit to prevent it from dropping. Move the battery release lever in the direction indicated by the arrow and remove the battery when unlocked. A Insert the battery until it clicks and locks. BATTERY VQT3E82 15 Charging the battery When this unit is purchased, the battery is not charged. Charge the battery before using this unit.

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. The battery will not be charged if the unit is turned on. It is recommended to charge the battery in a temperature between 10 °C to 30 °C.

(The battery temperature should also be the same.

) 1 2 Connect the AC adaptor to this unit's DC input terminal. Connect the AC cable to the AC adaptor, then the AC outlet. For the AC cable, plug in 2 and then 3. The status indicator A will flash red at an interval of 2 seconds, indicating that charging has begun. 16 VQT3E82 Connecting to the AC outlet If you turn on this unit while charging the battery using the AC adaptor, you can use the power supplied from the AC outlet to power the unit for use. Refer to page 112 when the status indicator flashes either rapidly or slowly. We recommend using Panasonic batteries (1 10, 18). If you use other batteries, we cannot guarantee the quality of this product. Do not heat or expose to flame. Do not leave the battery(ies) in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.

CAUTION Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions. VQT3E82 17 Charging and recording time Charging/Recording time Temperature: 25 °C/humidity: 60%RH (When using AC adaptor) SDR-S70/SDR-T70 Battery model number [Voltage/Capacity (minimum)] Supplied battery/ VW-VBL090 (optional) [3.6 V/895 mAh] VW-VBK180 (optional) [3.6 V/1790 mAh] VW-VBK360 (optional) [3.6 V/3580 mAh] Charging time Maximum continuously recordable time Actual recordable time 2 h 20 min 1 h 20 min 40 min 2 h 25 min 2 h 55 min 1 h 30 min 4 h 20 min 6h 3 h 10 min SDR-H100/SDR-H101 Battery model number [Voltage/ Capacity (minimum)] Supplied battery/ VW-VBK180 (optional) [3.6 V/1790 mAh] Charging time Recording destination Recording mode XP SP/LP XP/SP LP XP HDD VW-VBK360 (optional) [3.6 V/3580 mAh] 4 h 20 min SD SP LP XP SP LP Maximum continuously recordable time 2 h 30 min 2 h 30 min 2 h 35 min 2 h 40 min 5h 5 h 5 min 5 h 10 min 5 h 15 min 5 h 20 min 5 h 25 min Actual recordable time 1 h 15 min 1 h 20 min 1 h 20 min 1 h 25 min 2 h 40 min 2 h 40 min 2 h 45 min 2 h 45 min 2 h 50 min 2 h 50 min HDD 2 h 25 min SD 18 VQT3E82 These times are approximations. The indicated charging time is for when the battery has been discharged completely.

Charging time and recordable time vary depending on the usage conditions such as high/low temperature. VW-VBL090 is not available for SDR-H100 / SDR-H101 . The actual recordable time refers to the recordable time when repeatedly starting/stopping recording, turning the unit on/off, moving the zoom lever etc. The batteries heat up after use or charging. This is not a malfunction.

Battery capacity indication The display changes as the battery capacity reduces. # # # # If the indication becomes , the icon will become red. If the battery discharges, then ( ) will flash. SDR-H100 / SDR-H101 The remaining battery capacity is displayed when using the Panasonic battery that you can use for this unit. It may take time to display the remaining battery capacity.

The actual time can vary depending on your actual use. When using the AC adaptor or batteries made by other companies, the remaining battery capacity will not be shown. VQT3E82 19 Preparation Setup 2 Recording to a card The unit can record still pictures or motion pictures to an SD card, built-in memory, or HDD. To record to an SD card, read the following. This unit (an SDXC compatible device) is compatible with SD Memory Cards, SDHC Memory Cards and SDXC Memory Cards. When using an SDHC memory card/SDXC memory card with other equipment, check the equipment is compatible with these memory cards. Cards that you can use with this unit Use SD cards conforming to Class 2 or higher of the SD Speed Class Rating\* for motion picture recording. Card type Capacity 8 MB/16 MB/32 MB SD Memory Card Motion picture recording Cannot be used. Cannot be guaranteed in operation. The recording may suddenly stop during motion picture recording depending on the SD card you use.

(1 106) Still picture recording 64 MB/128 MB/ 256 MB 512 MB/1 GB/2 GB SDHC Memory Card SDXC Memory Card 4 GB/6 GB/8 GB/ 12 GB/16 GB/ 24 GB/32 GB 48 GB/64 GB Can be used. Can be used. \* The SD Speed Class Rating is the speed standard for successive writes. Check via the label on the card, etc. Example: 20 VQT3E82 Please confirm the latest information about SD Memory Cards/SDHC Memory Cards/ SDXC Memory Cards that can be used for motion picture recording on the following website. [http://panasonic.jp/support/global/cs/e\\_cam](http://panasonic.jp/support/global/cs/e_cam) (This website is in English only.) 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.

64 VQT3E82 21 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. (1 76) 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.



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1 2 Open the LCD monitor. Open the SD card cover and insert (remove) the SD card into (from) the card slot. Face the label side B 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. 3 Securely close the SD card cover. Do not touch the terminals on the back of the SD card. See page 112 for details on handling the SD card. 22 VQT3E82 Preparation Setup 3 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 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. Turning the unit on and off with the LCD monitor The unit is turned on when the LCD monitor is opened, and the 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. To turn on the unit To turn off the unit A The status indicator lights. B The status indicator goes off.

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 purchased j When you have turned off the unit using the power button The unit will not turn off while recording motion pictures even if the LCD monitor is closed. VQT3E82 23 Preparation Setup 4 Selecting a mode Change the mode to recording or playback. Operate the mode switch to change the mode to or . Recording mode (1 40, 44) Playback mode (1 61, 67) 24 VQT3E82 Preparation Setup 5 ENTER MENU Using the menu screen 1 2 Press the MENU button. Select the desired top menu A, then move the joystick right or press the joystick. 4 Select the desired setting, then press the joystick to enter the selection. To get back to the previous screen Move the joystick left. 3 Select the submenu item B, then move the joystick right or press the joystick.

To exit the menu screen Press the MENU button. Descriptions of submenus and current settings on menus are displayed scrolling at the bottom of the screen. VQT3E82 25 Language selection You can select the language on the screen display and the menu screen. 1 2 Press the MENU button, then select [SETUP] > [LANGUAGE] and press the joystick. Select [English] and press the joystick.

Menu list Part of the menu will not be used depending on the used functions. (1 104) Recording mode \*1 \*2 \*3 \*4 \*5 \*6 It is not displayed when the Intelligent auto mode is on. It is displayed only when the Intelligent auto mode is on. (These menus are only for SDR-T70 . These menus are only for SDR-H100 / SDR-H101 .

These menus are only for SDR-S70 . SDR-T70 It will be displayed only when the [MEDIA SELECT] is set to [BuiltinMemory]. RECORD SETUP [SCENE MODE] [D.ZOOM] [REC MODE] [RELAY REC] \*6 (1 53) (1 46) (1 42) (1 54) (1 54) \*2 [BACKLIGHT COMPENS.] [INTELLIGENT CONTRAST]\*1 [SOFT SKIN MODE]\*1 [COLOUR NIGHT VIEW] [SHOOTING GUIDE] [WIND NOISE CANCELLER]\*1 [ZOOM MIC]\*1 [WB ADJUST] \*1 \*1 (1 50) (1 51) (1 51) (1 51) (1 43) (1 55) (1 55) (1 60) [REC ASPECT] [FACE FRAMING] [GUIDE LINES] [WEB MODE] [FADE] [FADE COLOUR] [AUTO SLOW SHTR]\*1 (1 54) (1 51) (1 50) (1 50) (1 50) (1 54) [MF ASSIST]\*1 26 VQT3E82 PICTURE [SELF TIMER] [SHTR SOUND] (1 55) (1 56) SETUP [DISPLAY] The screen display can be changed to [OFF] (a portion of information displayed) or [ON] (all information displayed). [EXT. DISPLAY] [CLOCK SET] [SET WORLD TIME] [DATE/TIME] [DATE FORMAT] [ECONOMY] [OFF]: The power saving function is not activated. [5 MINUTES]: When about 5 minutes have passed without any operation, this unit automatically turns off to save battery life. The power save function will not activate when: j connected to AC adaptor j using the USB cable for PC, DVD burner etc. j PRE-REC is used [QUICK POWER ON] [QUICK START] (1 39) (1 38) (1 78) (1 30) (1 31) (1 30) (1 30) MEDIA SELECT\*3\*4 Recording media may be set independently for both still pictures and motion pictures.

SDR-T70 When recording to the SD card, select [SD CARD]. When recording to the built-in memory, select [BuiltinMemory]. (1 41, 61, 67) SDR-H100 / SDR-H101 When recording to the SD card, select [SD CARD]. When recording to the HDD, select [HDD]. (1 41, 61, 67) VQT3E82 27 [ALERT SOUND] Starting and stopping of recording and unit on/off can be confirmed with this sound. 2 Beeps for 4 times When an error occurs. Check the sentence displayed on the screen. (1 102) [POWER LCD] [LCD SET] [TV ASPECT] [INITIAL SET] Set to [YES] for changing the menu settings back to the default condition. (Settings for [MEDIA SELECT]\*3\*4, [CLOCK SET] and [LANGUAGE] will not be changed.) [FORMAT MEDIA]\*3\*4 [FORMAT CARD] \*5 [DEMO MODE] This item is used to start the unit demonstration.

(Only when the mode is at the position) If [DEMO MODE] is switched to [ON] and you press the MENU button 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.

[LANGUAGE] (1 26) (1 33) (1 33) (1 78) (1 76) (1 76) (1 74) You can select the language on the screen display and the menu screen. [MEDIA STATUS]\*3\*4 [CARD STATUS] \*5 The amount of time left on the SD card can be checked. Press the MENU button to end. 28 VQT3E82 Playback mode \*1 Only when the disc playback is selected while a DVD burner (optional) is connected, this does not appear. \*2 Only when the disc playback is selected while a DVD burner (optional) is connected, this appears.

\*3 These menus are only for SDR-T70 . \*4 These menus are only for SDR-H100 / SDR-H101 . \*5 This appears only when the [SD CARD]/[PICTURE] is selected. \*6 SDR-T70 This appears only when the [Built-inMemory]/[VIDEO] is selected. \*7 SDR-H100 / SDR-H101 This appears only when the [HDD]/[VIDEO] is selected. VIDEO SETUP [REPEAT PLAY] [RESUME PLAY] [SCENE PROTECT]\*1 [GUIDE LINES] (1 66) (1 66) (1 71) (1 51) DISC SETUP\*2 [FORMAT DISC] [AUTO PROTECT] [CANCEL PROTECT] [DISC STATUS] (1 84) (1 84) (1 84) (1 84) EDIT SCENE\*1 [SPLIT&DELETE]\*6\*7 [DELETE] (1 72) (1 70) PHOTO SETUP [DPOF SET]\*5 (1 73) For any other menus that are not described above, refer to menus with the same names for the recording mode and motion picture playback. COPY\*1\*3\*4 \*3 \*3 \*4 \*4 (1 75) (1 75) (1 75) (1 75) VQT3E82 29 Preparation Setup 6 . Setting date and time When the unit is turned on for the first time, a message asking you to set the date and time will appear.



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Select [YES] and perform steps 2 to 3 below to set the date and time. ↪ Change the mode to 1 2 Select the menu.

(1 25) Changing the date format Select the menu. (1 25) [SETUP] # [DATE FORMAT] # [Y/M/D]/ [M/D/Y]/ [D/M/Y] The date and time function is driven by a built-in lithium battery. When this unit is purchased, the clock is set. 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. Leave the unit as it is for approx. 24 hours and the battery will maintain the date and time for approx. 4 months. (The battery is still being recharged even if the unit is off.) **WARNING THE LITHIUM BATTERY IN THIS EQUIPMENT MUST ONLY BE REPLACED BY QUALIFIED PERSONNEL.**

WHEN NECESSARY, CONTACT YOUR LOCAL PANASONIC SUPPLIER. [SETUP] # [CLOCK SET] Select the date or time, then adjust the desired value with the joystick. A Displaying the World time setting (1 31): [HOME]/ [DESTINATION] The year can be set between 2000 and 2039. The 24-hour system is used to display the time. 3 Press the joystick to enter the selection.

The clock function starts at [00] seconds. A message may be displayed prompting you to set the world time. (1 31) Press the MENU button to complete the setting. Changing the date and time display mode Select the menu. (1 25) [SETUP] # [DATE/TIME] # [OFF]/ [D/T]/ [DATE] 30 VQT3E82 World time setting (Displaying the time of the travel destination) 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. (1 25) [SETUP] # [SET WORLD TIME] If the clock is not set, adjust the clock to the current time. (1 30) When the [HOME] (your home region) is not set, the message appears. Press the joystick to move to Step 3. 4 (Only when setting the region of your travel destination) Select [DESTINATION] and press the joystick. 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. 2 3 (Only when setting your home region) Select [HOME] and press the joystick. (Only when setting your home region) 5 (Only when setting the region of your travel destination) Select your home region and enter the selection with the joystick. Select your travel destination and enter the selection with the joystick.

A The current time B The time difference from GMT (Greenwich Mean Time) To set to daylight savings time, press the joystick forward. appears and the summer time setting is turned on; the time difference from GMT is set forward by one hour. Press the joystick forward again to return to standard time. C The local time at the selected travel destination D The time difference between the travel destination and the home region VQT3E82 31 To set to daylight savings time, press the joystick forward. appears and the summer time setting is turned on. The clock and time difference from the home region time are set forward by one hour. Press the joystick forward again to return to standard time. Close the setting by pressing the MENU button. appears and the time of the travel destination is indicated. To return the display to the home setting Set the home region using Step 1 to 3, and close the setting by pressing the MENU button.

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. 32 VQT3E82 Preparation Setup 7 Adjusting LCD monitor POWER LCD This makes it easier to view the LCD monitor in bright places including outdoors. LCD monitor adjustment These settings will not affect the images actually recorded. Select the menu. (1 25) [SETUP] # [POWER LCD] +2 : Makes even brighter / +1 : Makes brighter / 0 : No setting (normal) / -1 : Makes darker / A : Auto\* \* It is not displayed in the manual mode or in the playback mode.

If you use the AC adaptor, the +1 indication appears and the screen becomes brighter automatically when the unit is turned on. Adjusting the brightness and colour level of the LCD monitor It adjusts brightness and colour density on the LCD monitor. Select the menu. (1 25) [SETUP] # [LCD SET] 1 Use the joystick to select the item, then press the centre of the joystick. [BRIGHTNESS]: Brightness of the LCD monitor [COLOUR]: Colour level of the LCD monitor Select and press the centre of the joystick to return to the previous screen.

The recordable time using the battery will become shorter when you use this unit with the LCD monitor lit up. 2 Make adjustments Close the setting by pressing the MENU button. VQT3E82 33 Recording Yourself ↪ Change the mode to . 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.) When the LCD monitor is rotated towards the lens side, the icon will not be displayed even if you press the joystick. 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. (1 102) 34 VQT3E82 Recording Recording (Basic) 1 Before recording Basic camera positioning 1 Hold the unit with both hands.

2 Put your hand through the grip belt. 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. 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. VQT3E82 35 Intelligent auto mode The following modes appropriate for the condition are set just by pointing the unit to what you want to record.

/MANUAL Intelligent auto/Manual button [iA/MANUAL] Press this button to change the mode to Intelligent auto mode or manual mode. Please refer to page 57 about manual mode. Mode Portrait Scene When the object is a person Recording outdoors 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 whiting 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.



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Contrast is adjusted automatically for clear image. Scenery Spotlight Low light Normal Under a spotlight Dark room or twilight Other situations Depending on the recording conditions, the unit may not enter the desired mode. In the portrait, spotlight or low light mode, detected faces appear with white frames. In the portrait mode, one that is bigger and close to centre of the screen will be surrounded by an orange frame.

(1 54) Faces may not 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. 36 VQT3E82 About Intelligent auto mode When the Intelligent auto mode is set to on, the auto 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. (1 58, 60) Auto focus The unit focuses automatically. Auto focus does not work correctly in the following situations. Record pictures in the manual focus mode. (1 60) 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 For details on Scene mode, refer to page 53.

For how to set Manual focus/white balance manually, refer to page 57-60. Automatic white balance 10 000K 9 000K 8 000K 7 000K 6 000K 4) 2) 3) 5 000K 1) 5) 4 000K 6) 3 000K 7) 2 000K 8) 9) 1 000K The illustration above shows the range over which the auto white balance functions. 1) The effective range of automatic white balance adjustment on this unit 2) Blue sky 3) Cloudy sky (rain) 4) Sunlight 5) White fluorescent lamp 6) Halogen light bulb 7) Incandescent light bulb 8) Sunrise or sunset 9) Candlelight If the automatic white balance is not functioning normally, adjust the white balance manually. (1 55, 58)

VQT3E82 37 Quick start This unit will resume recording pause mode about 0.8 seconds after the LCD monitor is reopened. ↖ Change the mode to . 1 2 Select the menu. (1 25) [SETUP] # [QUICK START] # [ON] Close the LCD monitor while the mode is set to . The status indicator A flashes green and the unit goes into quick start standby mode. When in quick start standby mode about 70% of the power used in recording pause mode is being consumed, so the recording time will be reduced.

Quick start standby mode is cancelled if j about 5 minutes elapsed j mode is set to It may take some time for automatic white balance to adjust. In the quick start mode, the zoom magnification becomes 1k. If [ECONOMY] (1 27) is set to [5 MINUTES] and the unit automatically goes into quick start standby mode, close the LCD monitor and then open it again. Turn the unit off using the power button. 3 Open the LCD monitor.

The status indicator A lights red and the unit is put into recording pause. 38 VQT3E82 Quick power on When the unit is turned on with the mode set to , the unit will enter the recording pause mode after about 1.9 seconds. Select the menu. (1 25) [SETUP] # [QUICK POWER ON] # [ON] In the quick power on mode, the zoom magnification becomes 1k.

VQT3E82 39 Recording Recording (Basic) 2 SP Recording motion pictures Open the lens cover before turning the unit on. (1 12) 0h00m00s 1 20 1 2 Change the mode to and open the LCD monitor. Press the recording start/stop button to start recording. When you begin recording, ; changes to ¥. While recording is in progress, the recording will not stop even if the LCD monitor is closed. 3 Press the recording start/stop button again to pause recording. Still pictures can be recorded while recording the motion picture. (1 45) The images recorded between pressing the recording start/stop button to start recording and pressing it again to pause recording become one scene. The scene is automatically divided when the recorded data exceeds 1.9 GB.

(The recording will continue.) SD CARD Maximum number of recordable scenes: 9801 Maximum number of different dates: 99 (1 65) (In the case of SD cards it is the maximum number of recordable scenes per card.) Built-in Memory/HDD SDR-T70 / SDR-H100 / SDR-H101 Maximum number of recordable scenes: 98901 Maximum number of different dates: 999 (1 65) When either of them reaches to the maximum limit, additional scenes cannot be recorded. Screen indications in the motion picture recording mode 0h00m00s SP R 1h20m A Recording mode B Remaining time left for recording (When the remaining time is less than 1 minute, [R 0h00m] flashes red.) C Recording time elapsed Each time the unit is put into recording pause, the counter display will be reset to "0h00m00s". ("h" is an abbreviation for hour, "m" for minute and "s" for second.) 40 VQT3E82 Selecting a media to record [SDR-T70]/[SDR-H100]/[SDR-H101] Media for recording both still pictures and motion pictures may be set on the SD Card, the built-in memory or the HDD. Select the menu. (1 25) [MEDIA SELECT] Select the media to record motion pictures or still pictures, then press the centre of the joystick. SDR-T70 A B C D VIDEO/SD CARD VIDEO/Built-inMemory PICTURE/SD CARD PICTURE/Built-inMemory SDR-H100 / SDR-H101 E F G H VIDEO/SD CARD VIDEO/HDD PICTURE/SD CARD PICTURE/HDD Media set for still pictures and motion pictures will be outlined in a yellow frame.

Press the MENU button to end. VQT3E82 41 Recording modes/approximate recordable time Switch the picture quality of the motion pictures to be recorded. Select the menu. (1 25) [RECORD SETUP] # [REC MODE] # desired setting SD cards are only mentioned with their main memory size. The stated times are the approximate recordable times for continuous recording.

Recording mode 4 GB 8 GB SD card 16 GB 32 GB 48 GB 64 GB SDR-T70 Built-in memory SDR-H100 / SDR-H101 HDD XP SP 1 h 40 min 3 h 30 min 7h 15 h 22 h 10 min 30 h 1 h 40 min LP 3 h 20 min 7h 14 h 30 h 44 h 50 min 60 h 30 min 3 h 20 min 50 min 1 h 45 min 3 h 30 min 7 h 30 min 11 h 15 h 50 min 4 GB 80 GB 18 h 30 min 37 h 74 h 30 min A Favors image quality B Favors recording time If recording for long periods, prepare batteries for 3 or 4 times the period you wish to record for. (1 18) The given recording times are standard recordable times for continuous recording. If a recording with a lot movements is recorded, the recording time is reduced. The recordable time may be reduced if recording of short scene is repeated. Remaining time left for recording may increase after changing the mode or restarting the unit by turning it off and on.

Use time in the row of 4 GB in above table as a guideline for the time that can be copied onto one DVD disc (4.



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7 GB). Recordable time using the battery (1 18) When the unit is moved a lot or moved quickly, or when a fast-moving subject is recorded (particularly when recording in LP mode), mosaic-type noise may appear at playback. 42 VQT3E82 Shooting guide Message is displayed when this unit is moved rapidly. Select the menu. (1 25) [RECORD SETUP] # [SHOOTING GUIDE] # [ON] When "CAMERA PANNING IS TOO FAST." appears, move the unit slowly while recording. Message will not appear while pausing the recording. (Message will appear even if it is pausing the recording if [DEMO MODE] is set to [ON]) In some recording conditions, messages may not appear. VQT3E82 43 Recording Recording (Basic) 3 Recording still pictures Open the lens cover before turning on the unit.

(1 12) Still pictures can also be recorded while recording motion pictures. Refer to page 41 for methods for selecting recording media. 1 2 Change the mode to open the LCD monitor. Press the button. and About the screen indications in still picture recording R3000 Because of slower shutter speeds, it is recommended that you use a tripod when recording in low light. R3000: Remaining number of still pictures (Flashes in red when [0] appears.) 44 VQT3E82 Picture size Records at the number of recording pixels set under [REC ASPECT]. (1 54) Aspect 4:3 16:9 Number of pixels 640k480 640k360 Remaining time left for recording will become shorter when you record still pictures while recording motion pictures. Approximate number of recordable pictures SD cards are only mentioned with their main memory size. The stated number is the approximate number of recordable pictures.

Picture size 4 GB 8 GB SD card 16 GB 32 GB 48 GB 64 GB SDR-T70 Built-in memory SDR-H100 / SDR-H101 HDD The edges of still pictures recorded on this unit with a 16:9 aspect ratio may be cut at printing. Check the printer or photo studio before printing. 640k480 640k360 30000 60500 99999\* 99999\* 99999\* 99999\* 30000 Simultaneous recording (recording still pictures while recording motion pictures) You can record still pictures even while recording motion pictures. 4 GB ↯ Change the mode to . While recording motion pictures, press the button to take the picture.

80 GB 99999\* While recording motion pictures or during the PRE-REC operation, the following arrangements are applied so that motion picture recording takes preference over still picture recording. j Image quality is different from ordinary still pictures. j The remaining usable capacity (number of pictures that can be taken) indication does not appear. For vivid still pictures, we recommend pausing motion picture recording and taking still pictures after releasing the PRE-REC mode. \* Maximum number of recordable pictures that can be displayed is 99999.

If the number of recordable pictures exceeds 99999, the number will not change when the picture is taken until the number of recordable pictures gets less than 99999. VQT3E82 45 Recording Recording (Basic) 4 . Recording functions ↯ Change the mode to Zoom lever T side: Close-up recording (zoom in) W side: Wide-angle recording (zoom out) The zoom speed varies depending on the range over which the zoom lever is moved. 6 W T Enhanced optical zoom It is possible to enhance the zoom magnification up to 78k without degrading the image quality when recording. Select the menu. (1 25) [RECORD SETUP] # [D.ZOOM] # desired setting Enhanced optical zoom only (Up to 78k) [100k]: Up to 100k [3500k]: Up to 3500k If [100k] or [3500k] is selected, the digital zoom range is displayed in blue while zooming. The larger the digital zoom magnification, the more the image quality is degraded. [OFF]: Digital zoom function If the zoom magnification exceeds 78k, then the digital zoom function will be activated. The maximum magnification provided by the digital zoom can be switched.

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 distant subjects are brought closer, they are focused at about 1.5 m or more. When the zoom magnification is 1k, this unit can focus on a subject approx. 2 cm away from the lens. 46 VQT3E82 Image stabilizer function Reduces the image shaking (jitter) due to hand movement when recording. Recording with the video light [SDR-H101] The video light enables brightening of the images taken in a dimly-lit place. ↯ Change the mode to . ↯ Change the mode to .

LIGHT/ Light/Delete button [LIGHT/ Optical image stabilizer button Pressing the button changes the optical image stabilizer setting. ] Each time the button is pressed, the indication changes by one setting in the following order. # / # Setting cancelled : Always on. / : Turns on/off automatically according to brightness of the surroundings. Lights up when the lens cover is closed.

Auto video light will turn on/off in conjunction with Low light mode in Intelligent Auto Mode. When the motion picture video light is in use, the recordable time when using the battery is shortened. The subject should be within 1.2 m of the unit. Using the colour night view function at the same time will make conditions even brighter.

If you turn off the unit or change the mode, the video light is turned off. OFF : Active mode This setting gives more stabilization and is suitable for recording when walking. : ON This setting is suitable for recording in a stable state such as scenery. Stabilization may not be possible under strong shaking. When a tripod is used, we recommend that you turn the image stabilizer off. VQT3E82 47 Recording Recording (Basic) 5 AF/AE tracking Open the lens cover before turning on the unit. (1 12) It is possible to set the focus and exposure to the locked target. The focus and exposure will keep following the subject automatically even if it moves. (Dynamic tracking) AF/AE ↯ Change the mode to . 1 3 Start recording.

Pressing and holding the AF/AE button releases the AF/AE tracking. Press the AF/AE button. About target frame In the event of failure to achieve target lock, the target frame will blink red and then disappear. Realign the subject with the target frame and repress the AF/AE button to regain target lock. When intelligent auto mode is set to (Portrait), the prioritised face frame (in orange) will change to the target frame, and the subject's face will be tracked. This function cannot be used in manual mode. It may track different objects or may not lock the target depending on the recording conditions such as the following: j When the object is too large or too small j When colour of the object is similar to the background j When the scene is dark AF/AE tracking will be cancelled in the following cases. j When the mode is changed j When the unit is turned off j When the scene mode is set j When the unit is switched to Intelligent auto mode/manual mode j When the unit is switched to face-toface recording.



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2 Align the subject with the target frame and press the AF/AE button to lock on to the target. A Target frame To change the target, press the AF/AE button and align the target frame with the new subject and press the AF/AE button once again.

48 VQT3E82 Recording Recording (Advanced) 1 . Recording functions of operation icons Select the operation icons to add different effects to the images to be recorded. → Change the mode to 1 Press the joystick, and icons will be displayed on the screen. Operation icons Backlight compensation Fade Help mode Web mode Guide line PRE-REC Intelligent contrast control\* Soft skin mode\* Colour night view\* \* Not displayed when the Intelligent Auto Mode is on. The shaded operation icons are not displayed while recording.

If you turn off the unit or change the mode to , colour night view, PRE-REC and backlight compensation functions are cancelled and if you turn off the unit, the fade function is cancelled. 1/2 NEXT The indication changes each time the joystick is moved down. The indication disappears when the centre of the joystick is pressed again. 2 (e.g.

Backlight compensation) Select an icon with the joystick. 1/2 NEXT To release, reselect the operation icon. VQT3E82 49 Function Effect This makes the image brighter to prevent darkening of a backlit subject. When you start recording, the image/audio gradually appears. (Fade in) When you pause recording, the image/audio gradually disappears. (Fade out) The fade setting is cancelled when the recording stops. Backlight compensation Fade (Fade in) To select the colour for fade in/out Select the menu. (1 25) (Fade out) [RECORD SETUP] # [FADE COLOUR] # [WHITE] or [BLACK] Help mode Select the desired icon with the joystick to display an explanation on the screen. To exit the help mode Press the MENU button. Web mode You can record motion pictures of under 10 minutes, suitable for uploading to web site.

The web mode icon [ ] appears. Press the recording start/stop button to start recording. Countdown of remaining time will start from "9m59s". Recording will pause automatically after 10 minutes from start of the recording. Web mode is cancelled if you turn the unit off. 50 VQT3E82 Function Effect You can check if the image is level while recording or playing back motion pictures and still pictures. The function can also be used to estimate the balance of the composition.

The guide lines do not appear on the images actually recorded. Guide line Selecting the type of guide line Select the menu. (1 25) [RECORD SETUP] # [GUIDE LINES] # desired setting Displaying guide lines at playback Change the mode to .

[VIDEO SETUP] # [GUIDE LINES] # desired setting Set to [OFF] to cancel the guide line. PRE-REC This allows recording of the pictures and sound to start approximately 3 seconds before the recording start/stop button is pressed. PRE-REC appears on the screen. Aim this unit at the subject and position it securely. Press the recording start/stop button to start recording.

There is no beep sound. This brightens parts that are in shadow and difficult to see and suppresses white saturation in bright parts at the same time. Both bright and dark parts can be recorded clearly. This makes skin colours appear softer for a more attractive appearance. This is more effective if you record a person closely from the torso up.

This function allows you to record colour images in very low light situations. (Minimum required illumination: approx. 2 lx) Intelligent contrast control Soft skin mode Colour night view VQT3E82 51 Fade: The thumbnails of scenes recorded using fade in become black (or white). Help mode: Recording and function settings cannot be performed while in help mode. Web mode: You cannot switch to web mode while recording. PRE-REC: PRE-REC is cancelled in the following cases. j If you change the mode. j If you press the MENU button. j If you turn the unit off. j If you start recording.

j 3 hours have elapsed After setting PRE-REC, if recording starts in less than 3 seconds, or while the PREREC indication flashes within about 3 seconds after initiating the quick start operation, motion pictures taken 3 seconds before pressing the recording start/stop button cannot be recorded. The thumbnail displays for recorded scenes will be the initial images from recorded scenes. The date indication for scenes recorded using the PRE-REC function will be the date when the start/stop button is pressed. Therefore, the date indication when displaying thumbnails or during playback may be different from the date when the recording actually started. Intelligent contrast control: If there are extremely dark or bright parts or the brightness is insufficient, the effect may not be clear. Soft skin mode: If the background or anything else in the scene has colours similar to the skin colour, they will also be smoothed. If the brightness is insufficient, the effect may not be clear. 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. Colour night view: Recorded scene is seen as if frames were missed.

If set in a bright place, the screen may become washed out for a while. Bright dots that are usually invisible may be seen, but this is not a malfunction. Using a tripod is recommended. In darker areas, auto focus may focus a bit slower. This is normal.

52 VQT3E82 Recording Recording (Advanced) 2 Recording functions of menus Effect/Setting method When you record images in different situations, this mode automatically sets optimum shutter speeds and apertures. Change the mode to . Function SCENE MODE Select the menu. (1 25) [RECORD SETUP] # [SCENE MODE] # desired setting Set [SCENE MODE] to [OFF] to cancel the function. 5Sports: To make fast moving scenes less shaky with slow playback and pause of playback Portrait: To make people stand out against the background Low light: For dark scenes, such as at dusk Spotlight: Improved quality when subject is brightly illuminated.

Snow: Improved image quality when shooting on snowy locations. Beach: To make blue in the sea or sky vibrant Sunset: To make red in the sunrise or sunset vibrant Fireworks: To capture the fireworks in the night sky beautifully Scenery: For spatial scenery Night scenery: To capture the evening or night scenery beautifully. VQT3E82 53 Function SDR-T70 Effect/Setting method It is possible to continuously record motion picture to an SD card when there is no space available in the builtin memory. (It allows you to record only to SD card from built-in memory.) Change the mode to . RELAY REC Select the menu. (1 25) [RECORD SETUP] # [RELAY REC] # [ON] is displayed on the screen. will disappear when space in the built-in memory is gone and the recording to the SD card starts. REC ASPECT This allows you to record images compatible with widescreen TVs (16:9) and regular TVs (4:3).



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Change the mode to .

Select the menu. (1 25) [RECORD SETUP] # [REC ASPECT] # [16:9] or [4:3] FACE FRAMING [OFF]: Cancel the setting [PRIMARY]: Only the prioritised face framing is displayed. [ALL]: All face detection framings are displayed. In the intelligent auto mode, detected faces appear with frames. Change the mode to . Select the menu. (1 25) [RECORD SETUP] # [FACE FRAMING] # desired setting Up to 5 frames are indicated. Larger faces and faces nearer to the centre of the screen take preference over others. Prioritised face framing Prioritised face framing is displayed in orange. Focus and adjustment of brightness will be performed against the prioritised face framing.

In the portrait mode of the intelligent auto mode, focus and adjustment of brightness will be performed against the prioritised face framing. In the spotlight or lowlight mode of the intelligent auto mode, focus will be performed against the prioritised face framing. You can record bright pictures even in dark places by slowing the shutter speed. Change the mode to . Select the manual mode.

(1 57) AUTO SLOW SHTR Select the menu. (1 25) [RECORD SETUP] # [AUTO SLOW SHTR] # [ON] The shutter speed is set to 1/25 or more depending on the surrounding brightness. 54 VQT3E82 Function Effect/Setting method This will reduce the wind noise coming into the built-in microphones while maintaining the realism. Change the mode to . Select the manual mode.

(1 57) WIND NOISE CANCELLER Select the menu. (1 25) [RECORD SETUP] # [WIND NOISE CANCELLER] # [ON] ZOOM MIC The zoom microphone is linked to the zooming operation so that far-away sounds with a tele-shot and close-up sounds with a wide-angle shot are recorded more clearly. Change the mode to . Select the manual mode. (1 57) Select the menu. (1 25) [RECORD SETUP] # [ZOOM MIC] # [ON] WB ADJUST You can finely adjust the white balance when you cannot acquire the desired hue by setting the white balance. (1 58) Change the mode to . Select the manual mode. (1 57) Select the menu. (1 25) [RECORD SETUP] # [WB ADJUST] The currently-set white balance icon will be displayed.

Adjust by moving the joystick left and right, then press the MENU button or the centre of the joystick to set. R : Move when the hue is bluish. B : Move when the hue is reddish. SELF TIMER This is for recording still pictures using the timer. Change the mode to . Select the menu. (1 25) [PICTURE] # [SELF TIMER] # desired setting Ø10 (Records after 10 seconds) Ø2 (Records after 2 seconds) When the button is pressed, a still picture is recorded after the Ø10 or Ø2 display flashes for the time which has been set. After recording, the self-timer is cancelled. To stop the timer midway through Press the MENU button.

VQT3E82 55 Function Effect/Setting method You can add a shutter sound when recording still pictures.

Change the mode to . [/ [ ] SHTR SOUND Select the menu. (1 25) [PICTURE] # [SHTR SOUND] # [OFF]/[ SCENE MODE: (Low light/Sunset) j The shutter speed is 1/25 or more . (Sunset/Fireworks/Scenery/Night scenery) j Image may get blurry when a 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. (Fireworks) j Image may get washed out when recorded in bright surrounding. (Night scenery) j Using a tripod is recommended. RELAY REC: In the Relay recording, still pictures are also recorded onto the SD card. AUTO SLOW SHTR: When the shutter speed becomes 1/25, the screen may be seen as if frames are missed and afterimages may appear. If the scene is low in brightness or contrast, the subject may not be focused on. WIND NOISE CANCELLER: When the Intelligent auto mode is set to on, [WIND NOISE CANCELLER] is set to [ON], and the setting cannot be changed. The sound quality may be changed if this function is activated in strong winds. SELF TIMER: The self-timer standby mode is cancelled when you press the recording start/stop button to start motion picture recording. Setting the self-timer to Ø2 is a good way to prevent image shake when the button is pressed while using a tripod etc. SHTR SOUND: There will be no shutter noise when taking still pictures during motion picture recording. 56 VQT3E82 Recording Recording (Advanced) 3 .

Manual recording functions → Change the mode to MNL Press the iA/MANUAL button to switch to manual mode. appears on the screen. /MANUAL MNL 4/5 NEXT White balance (1 58) Iris adjustment (1 59) Shutter speed (1 59) To change to manual focus mode Switch the operation icon by pressing the joystick down while in the screen above. Press the joystick forward This will allow you to switch between manual mode and manual focus mode. MNL MNL 5/5 NEXT 5/5 NEXT 1 Manual mode 2 Manual focus mode [MF] icon shown in the illustration appears. Manual focus adjustment (1 60) To release the manual mode Press the iA/MANUAL button again. VQT3E82 57 White balance The automatic white balance function may not reproduce natural colours depending on the scenes or lighting conditions. If so, you can adjust the white balance manually. Press the iA/MANUAL button to switch to manual mode (1 57) 1 2 Select [ ] with the joystick. Select the white balance mode with the joystick.

MNL To set the white balance manually 1) 2) Select [ ] with the joystick, and fill the screen with a white subject. Select [ ] with the joystick. MNL BACK Select the optimal mode by confirming the colour on the screen. Icon AWB BACK Mode/Recording conditions Auto white balance adjustment Sunny mode Outdoors under a clear sky Cloudy mode Outdoors under cloudy sky Indoor mode 1 Incandescent light, video lights like in the studio, etc. Indoor mode 2 Colour fluorescent lamps, sodium lamps in gymnasiums etc.

Manual adjustment mode Mercury-vapor lamps, sodium lamps, some fluorescent lights Lights used for wedding receptions at hotels, stage spotlights in theaters Sunrise, sunset, etc. When the display stops flashing and then lights constantly, the setting is complete. If the display continues flashing, the white balance cannot be set. In this case, use other white balance modes. When the unit is turned on with the lens cover closed, the automatic white balance adjustment may not function properly.

Please turn the unit on after opening the lens cover. When the display flashes, the manual white balance previously adjusted is stored. Whenever recording conditions change, re-set the white balance. When setting both the white balance and the iris/gain, set the white balance first. AWB is not displayed on the screen when AWB is being set. To return to automatic settings, either switch to auto mode AWB , or press the iA/MANUAL button again.



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