



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for PANASONIC DMC-TZ55. You'll find the answers to all your questions on the PANASONIC DMC-TZ55 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual PANASONIC DMC-TZ55**  
**User guide PANASONIC DMC-TZ55**  
**Operating instructions PANASONIC DMC-TZ55**  
**Instructions for use PANASONIC DMC-TZ55**  
**Instruction manual PANASONIC DMC-TZ55**

**Panasonic**  
**Operating Instructions**  
**for advanced features**  
Digital Camera  
Model No. **DMC-TZ55**  
**DMC-TZ56**



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



VQ T5H-6  
FD31-6MR0



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<http://yourpdfguides.com/dref/5588861>

**Manual abstract:**

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181 -5- Before Use Care of the camera Do not subject to strong vibration, shock, or pressure. • The lens, monitor, or external case may be damaged if used in the following conditions. It may also malfunction or image may not be recorded if you: – Drop or hit the camera. – Sit down with the camera in your trousers pocket or forcefully insert it into a full or tight bag, etc. – Attach any items such as accessories to the strap attached to the camera. – Press hard on the lens or the monitor. This camera is not dust/splash/water proof. Avoid using the camera in places with a lot of dust, water, sand, etc. • Liquid, sand and other foreign material may get into the space around the lens, buttons, etc. Be particularly careful since it may not just cause malfunctions, but it may also become irreparable.

– Places with a lot of sand or dust. – Places where water can come into contact with this unit, such as when using it on a rainy day or at the beach. ∫ About Condensation (When the lens is fogged up) • Condensation occurs when the ambient temperature or humidity changes. Be careful of condensation since it causes lens stains, fungus and camera malfunction. • If condensation occurs, turn the camera off and leave it for about 2 hours. The fog will disappear naturally when the temperature of the camera becomes close to the ambient temperature. -6- Before Use Standard Accessories Check that all the accessories are supplied before using the camera. • The accessories and their shape will differ depending on the country or area where the camera was purchased. For details on the accessories, refer to “Basic Operating Instructions”. • Battery Pack is indicated as battery pack or battery in the text. • SD Memory Card, SDHC Memory Card and SDXC Memory Card are indicated as card in the text. • The card is optional. You can record or play back pictures on the built-in memory when you are not using a card. -7- Before Use Names and Functions of Main Parts 1 2 3 4 Flash (P59) Self-timer indicator (P64) AF Assist Lamp (P99) Lens (P6, 182) Speaker • Be careful not to cover the speaker with your finger. Doing so may make sound difficult to hear. 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 Lens barrier Monitor (P56, 163, 182) • Peel off the protective film before use. [EXPOSURE] button (P67, 68, 69) Charging lamp (P13) Wi-Fi® connection lamp (P123) Motion picture button (P34) [(] (Playback) button (P37) [MENU/SET] button (P41) [Q.MENU] button (P43) [ ] (Delete/Cancel) button (P40) [DISP.] button (P56) Cursor buttons A: 3/[È] (Exposure compensation/Auto Bracket) (P65, 66) B: 4/[#] (Macro Mode/AF Tracking) (P63, 96) C: 2/[ë] (Self-timer) (P64) D: 1/[%] (Flash setting) (P59) 6 7 8 9 10 11 14 13 12 In these operating instructions, the cursor buttons are described as shown in the figure below or described with 3/4/2/1.



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e.

g.: When you press the 4 (down) button or Press 4 -8- Before Use 15 Strap eyelet (P24) • To prevent dropping, be sure to attach the supplied strap and fit it to your wrist. 15 16 17 18 16 Lens barrel 17 [HDMI] socket (P153) • Do not connect with any cable other than an HDMI micro cable. Doing so may cause malfunction. 18 [AV OUT/DIGITAL] socket (P13, 154, 156, 158) • This socket is also used when charging the battery. 19 Microphone • Be careful not to cover the microphone with your finger. 19 20 20 21 22 23 24 Zoom lever (P57) [Wi-Fi] button (P123, 126) Camera [ON/OFF] button (P22) Shutter button (P26, 31) Mode dial (P25) 21 22 23 24 25 26 25 Tripod mount • A tripod with a screw length of 5.5 mm (0.22 inch) or more may damage this unit if attached.

• It may not be possible to attach certain types of tripods properly.

26 Card/Battery door (P12, 18) 27 Release lever (P12, 18) 27 -9- Before Use Monitor You can adjust the angle of the monitor. 1 2 When closing 1 Flip up the bottom of the monitor lightly to open. 2 Adjust the angle of the monitor. • Be careful not to catch your finger, etc. in the monitor.

• When rotating the monitor, be careful not to apply too much force or drop the camera. This may cause scratches and malfunctions. • When not using this unit, close the monitor completely back to the original position. ∫ Recording from a variety of angles The monitor can be rotated to suit your needs. This is convenient as it allows you to take pictures from various angles by adjusting the monitor.

• Do not cover the AF Assist Lamp with your fingers or other objects. Taking pictures at a low angle Self shot • If the monitor is rotated as shown in the illustration, the Self Shot Mode starts. (P51) - 10 - Preparation Charging the Battery Use the dedicated AC adaptor (supplied), USB connection cable (supplied) and battery. • The battery is not charged when the camera is shipped. Charge the battery before use. • Charge the battery only when it is inserted in the camera. Camera conditions Turned off Turned on Charge ≤ — ∫ About batteries that you can use with this unit It has been found that counterfeit battery packs which look very similar to the genuine product are made available for 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 recommend that a genuine Panasonic battery pack is used. ∫ About the power supply If you use the AC adaptor (supplied) when the battery is in this unit, you can supply power from a power outlet via the USB connection cable (supplied). • The battery may be running out during recording. The camera will turn off if the battery power is gone. • Before connecting or disconnecting the AC adaptor (supplied), turn the camera off. - 11 - Preparation Inserting the Battery 1 Slide the release lever in the direction of the arrow and open the card/battery door. • Always use genuine Panasonic batteries. • If you use other batteries, we cannot guarantee the quality of this product. 2 Being careful about the battery orientation, securely insert it all the way in, and then check that it is locked by the lever A. To remove the battery, move the lever A in the direction of the arrow.

3 1: Close the card/battery door. 2: Slide the release lever in the direction of the arrow. • Turn the camera off and wait for the "LUMIX" display on the monitor to clear before removing the battery. (Otherwise, this unit may no longer operate normally and the card itself may be damaged or the recorded pictures may be lost.) - 12 - Preparation Charging • Charge the battery in areas with an ambient temperature, between 10 oC and 30 oC (50 oF and 86 oF)

(same as the battery temperature), is recommended.

Insert the battery into this unit. Check that this unit is turned off. □ A B C D E To power outlet F Charging lamp AC adaptor (supplied) G USB connection cable (supplied) PC (Turned on) • Check the directions of the connectors, and Align the marks, and insert. plug them straight in or unplug them straight Connect the USB connection cable out. (supplied) to the [AV OUT/DIGITAL] socket (Otherwise the connectors may bend out of (gold terminal).

shape, which may cause malfunction.) • Place the camera in an upright position, and find the gold terminal at the bottom. (Charging from the power outlet) Connect the AC adaptor (supplied) and this camera with the USB connection cable (supplied), and insert the AC adaptor (supplied) into the power outlet. (Charging from a computer) Connect the computer and this camera with the USB connection cable (supplied). • If the computer enters a suspended state while charging the battery, charging will stop. • Connecting this camera to a notebook computer that is not connected to a power outlet will cause the notebook computer battery to drain faster. Do not leave the camera connected for extended periods of time. • Be sure to always connect the camera to a computer USB terminal. Do not connect the camera to a monitor, keyboard or printer USB terminal, or a USB hub. - 13 - Preparation ∫ About the charging lamp Lit red: Off: Charging.

Charging has completed. (When charging is complete, disconnect the camera from the power outlet or computer.) Blinking red: Charging error. (Refer to P168 for details.) ∫ Charging time When using the AC adaptor (supplied) Charging time Approx. 210 min • The indicated charging time is for when the battery has been discharged completely. The charging time may vary depending on how the battery has been used. The charging time for the battery in hot/cold environments or a battery that has not been used for a long time may be longer than normal. • When power is supplied from a computer, the power supply capacity of the computer determines the charging time. ∫ Battery indication The battery indication is displayed on the monitor.

• The indication turns red and blinks if the remaining battery power is low. Recharge the battery or replace it with a fully charged battery. - 14 - Preparation • Do not leave any metal items (such as clips) near the contact areas of the power plug. Otherwise, a fire and/or electric shocks may be caused by short-circuiting or the resulting heat generated. • Do not use any other USB connection cables except the supplied one or a genuine Panasonic USB connection cable (DMW-USBC1: optional).

• Do not use any other AC adaptors except the supplied one. • Do not use a USB extension cable. • The AC adaptor (supplied) and USB connection cable (supplied) are for this camera only. Do not use them with other devices.



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• Remove the battery after use.

(The battery will be exhausted if left for a long period of time after being charged.) • The battery becomes warm after using and during and after charging. The camera also becomes warm during use. This is not a malfunction. • The battery can be recharged even when it still has some power left, but it is not recommended that the battery charge be frequently topped up while the battery is fully charged. (Since characteristic swelling may occur.) • If a problem occurs in the power outlet, such as a power outage, charging may not be completed normally. If this happens, disconnect the USB connection cable (supplied) and connect it again. • When the charging lamp does not light even if you connect the camera to the AC adaptor (supplied) or a PC, check if they are connected correctly. • If you reconnect the USB connection cable (supplied) when the camera is fully charged, the charging lamp turns on for a while.

- 15 - Preparation Approximate operating time and number of recordable pictures. ∫ Recording still pictures Number of recordable pictures Recording time Approx. 350 pictures Approx. 210 min By CIPA standard in Programme AE Mode Recording conditions by CIPA standard • CIPA is an abbreviation of [Camera & Imaging Products Association]. • Temperature: 23 oC (73.4 oF)/Humidity: 50%RH when monitor is on. • Using a Panasonic SD Memory Card. • Using the supplied battery. • Starting recording 30 seconds after the camera is turned on. (When the Optical Image Stabiliser function is set to [ON].) • Recording once every 30 seconds using full flash every second recording.

• Changing the zoom magnification from Tele to Wide or vice versa in every recording. • Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases. The number of recordable pictures varies depending on the recording interval time. As the recording interval time becomes longer, the number of recordable pictures decreases. [For example, if you were to take one picture every two minutes, then the number of pictures would be reduced to approximately one-quarter of the number of pictures given above (based upon one picture taken every 30 seconds).

] ∫ Recording motion pictures When [Rec Quality] is set to [FHD] Recordable time Actual recordable time Please be aware that these times are approximate. Approx. 100 min Approx. 50 min • These times are for an ambient temperature of 23 oC (73.4 oF) and a humidity of 50%RH.

• Actual recordable time is the time available for recording when repeating actions such as turning this unit on and off, starting/stopping recording, zoom operation, etc. • The maximum continuous recordable time of a motion picture is 29 minutes and 59 seconds, which is equivalent to a file size of approximately 4 GB. You can check the recordable time on the screen. (With [FHD], the file size becomes larger, causing the recordable time to become shorter than 29 minutes and 59 seconds) - 16 - Preparation ∫ Playback Playback time Approx. 240 min • The operating times and number of recordable pictures will differ according to the environment and the operating conditions. For example, in the following cases, the operating times will shorten and the number of recordable pictures is reduced: – In low-temperature environments, such as on ski slopes. – When using [Monitor Luminance]. – When operations such as flash and zoom are used repeatedly. • When the operating time of the camera becomes extremely short even after properly charging the battery, the life of the battery may have expired. Buy a new battery.

- 17 - Preparation Inserting and Removing the Card (optional) • Check that this unit is turned off. • We recommend using a Panasonic card. 1 Slide the release lever in the direction of the arrow and open the card/battery door. 2 Push it securely all the way until you hear a “click” while being careful about the direction in which you insert it. To remove the card, push the card until it clicks, then pull the card out upright. A: Do not touch the connection terminals of the card. 3 1: Close the card/battery door. 2: Slide the release lever in the direction of the arrow. • Turn the camera off and wait for the “LUMIX” display on the monitor to clear before removing the card. (Otherwise, this unit may no longer operate normally and the card itself may be damaged or the recorded pictures may be lost.

) - 18 - Preparation About the Built-in Memory/the Card The following operations can be performed using this unit: When a card has not been inserted When a card has been inserted Pictures can be recorded on the built-in memory and played back. Pictures can be recorded on the card and played back. • When using the built-in memory: k>δ (access indication) 1 • When using the card: (access indication) 2 1 The access indication is displayed in red when pictures are being recorded on the built-in memory (or the card). 2 5 Built-in Memory • You can copy the recorded pictures to a card. (P121) • Memory size: Approx. 70 MB • The access time for the built-in memory may be longer than the access time for a card. Card The following cards, which conform to the SD standard, can be used with this unit. (These cards are indicated as card in the text.) Remarks SD Memory Card (8 MB to 2 GB) SDHC Memory Card (4 GB to 32 GB) SDXC Memory Card (48 GB, 64 GB) • Use a card with SD Speed Class 2 with “Class 4” or higher when recording motion pictures. • SDHC Memory Cards and SDXC Memory Cards can be used only with their compatible devices.

• Check that the PC and other equipment are compatible when using the SDXC Memory Cards. <http://panasonic.net/avc/sdcard/information/SDXC.html> • Only the cards with capacity listed left can be used. 2 SD Speed Class is the speed standard regarding continuous writing. Check via the label on the card, etc. e.g.: • Please confirm the latest information on the following website. <http://panasonic.jp/support/global/cs/dsc/>

(This site is English only.) - 19 - Preparation • During access (image writing, reading and deleting, formatting etc.), do not turn this unit off, remove the battery, card or disconnect the AC adaptor (supplied). Furthermore, do not subject the camera to vibration, impact or static electricity.

The card or the data on the card may be damaged, and this unit may no longer operate normally. If operation fails due to vibration, impact or static electricity, perform the operation again. • Write-Protect switch A provided (When this switch is set to the [LOCK] position, no further data writing, deletion or formatting is possible. The ability to write, delete and format data is restored when the switch is returned to its original position.) • The data on the built-in memory or the card may be damaged or lost due to electromagnetic waves, static electricity or breakdown of the camera or the card.



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We 2 recommend storing important data on a PC etc.

• Do not format the card on your PC or other equipment. Format it on the camera only to ensure proper operation. (P50) • Keep the Memory Card out of reach of children to prevent swallowing. - 20 - Preparation Approximate number of recordable pictures and available recording time ∫ About the display of the number of recordable pictures and available recording time • Switch the display (number of recordable pictures, Number of Available recording available recording time, etc.) by pressing [DISP].

∫. recordable pictures time (P56) • The number of recordable pictures and the available R1m10s 5 recording time are an approximation. (These vary depending on the recording conditions and the type of card.) ∫ Number of recordable pictures • [i99999] is displayed if there are more than 100,000 pictures remaining. Quality [A] Picture size 16M (4:3) 3M (4:3) 0.

3M (4:3) Built-in Memory (Approx. 70 MB) 12 35 180 2 GB 335 1000 4900 32 GB 5400 16300 79600 64 GB 10800 33000 120000 ∫ Available recording time (when recording motion pictures) • “h” is an abbreviation for hour, “m” for minute and “s” for second. Recording quality setting FHD HD VGA Built-in Memory (Approx. 70 MB) j j 1m50s 2 GB 12m00s 23m00s 1h07m00s 32 GB 3h34m00s 7h38m00s 18h02m00s 64 GB 7h10m00s 15h23m00s 36h30m00s • The recordable time is the total time of all the motion pictures which have been recorded. • The maximum continuous recordable time of a motion picture is 29 minutes and 59 seconds, which is equivalent to a file size of approximately 4 GB. You can check the recordable time on the screen. (With [FHD], the file size becomes larger, causing the recordable time to become shorter than 29 minutes and 59 seconds) - 21 - Preparation Setting Date/Time (Clock Set) • The clock is not set when the camera is shipped. 1 Press camera [ON/OFF] button. • If the language select screen is not displayed, proceed to step 4. 2 3 4 5 Press [MENU/SET].

Press 3/4 to select the language, and press [MENU/SET]. Press [MENU/SET]. Please set the clock Clock Set Press 2/1 to select the items (year, month, day, hour, minute, display sequence or time display format), and press 3/4 to set. A: Time at the home area B: Time at the travel destination • You can cancel without setting the clock by pressing [ ]. Clock Set 10 : 00 D/M/Y 1 / DEC / 2014 24hrs Cancel Select Set 6 7 Press [MENU/SET] to set. Press [MENU/SET]. - 22 - Preparation Changing the Clock Setting Select [Clock Set] on the [Setup] menu and then press [MENU/SET]. (P41) • The clock can be reset as shown in steps 5 and 6. • The clock setting is maintained for about 14 days using the built-in clock battery even without the battery. (Leave the charged battery in the unit for 2 hours to charge the built-in battery.

) • If the clock is not set, the correct date cannot be printed when you order a photo studio to print the picture, or when you stamp the date on the pictures with [Date Stamp] or [Text Stamp]. In addition, if you turn off the unit, various settings may be reset. - 23 - Preparation Tips for taking good pictures Fit the strap and hold the camera carefully Hold the camera gently with both hands, keep your arms still at your side and stand with your feet slightly apart. • Do not swing around or pull forcefully on the unit with the strap attached. The strap may break.

• Be careful not to move the camera when you press the shutter button. • Be careful not to put your fingers on the flash, AF assist lamp, microphone, speaker or lens etc. A Flash B AF assist lamp C Microphone D Speaker E Strap ∫ Direction Detection Function ([Rotate Disp.]) Pictures recorded with the camera held vertically are played back vertically (rotated). (Only when [Rotate Disp.

] (P49) is set) • When the camera is held vertically and tilted up and down to record pictures, the Direction Detection function may not work correctly. • Motion pictures taken with the camera held vertically are not displayed vertically. Preventing jitter (camera shake) When the Jitter alert [ ] appears, use [Stabilizer] (P100), a tripod or the Self-timer (P64). • Shutter speed will be slower particularly in the following cases. Keep the camera still from the moment the shutter button is pressed until the picture appears on the screen. – Slow sync./Red-Eye Reduction – [Night Portrait]/[Night Scenery]/[Starry Sky] (Scene Mode) - 24 - Basic Selecting the Recording Mode Switching the mode by rotating the mode dial. • Rotate the mode dial slowly to select the desired mode. □ Align a desired mode with part A. ∫ List of Recording Modes \ Intelligent Auto Mode (P26) The subjects are recorded using settings automatically selected by the camera.

Programme AE Mode (P31) The subjects are recorded using your own settings. Aperture-Priority AE Mode (P67) The shutter speed is automatically determined by the aperture value you set. Shutter-Priority AE Mode (P68) The aperture value is automatically determined by the shutter speed you set. Manual Exposure Mode (P69) The exposure is adjusted by the aperture value and the shutter speed which are manually adjusted. Custom Mode (P85) Use this mode to take pictures with previously registered settings. Panorama Shot Mode (P70) This mode allows you to take panorama pictures. Ū Scene Mode (P73) This mode allows you to take pictures that match the scene being recorded. Creative Control Mode (P79) Record while checking the image effect. • If you keep rotating the mode dial, screens may switch slower. - 25 - Basic Taking pictures using the automatic function (Intelligent Auto Mode) Recording Mode: The camera will set the most appropriate settings to match the subject and the recording conditions so we recommend this mode for beginners or those who want to leave the settings to the camera and take pictures easily.

• The following functions are activated automatically. – Scene Detection – Backlight Compensation – Intelligent ISO sensitivity control – Auto White Balance – Face Detection – [i.Exposure] – [i.Zoom] – [AF Assist Lamp] – [Red-Eye Removal] – [Stabilizer] – [Continuous AF] 1 Set the mode dial to [ ]. - 26 - Basic 2 Press the shutter button halfway to focus.

• The focus indication A (green) lights when the subject is focused. A • The AF area B is displayed around the subject's face by the Face Detection function. In other cases, it is displayed at the point on the subject which is in focus. • The minimal distance (how close you can be to the subject) will change depending on the zoom factor. Please check with the recordable range display on the screen.

(P32) • If you press 3 while [AF Tracking] is displayed, you can set AF tracking. For details, refer to P96. (AF tracking is cancelled by pressing 3 again.



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) B 3 Press the shutter button fully (push it in further), and take the picture. - 27 - Basic Scene Detection When the camera identifies the optimum scene, the icon of the scene concerned is displayed in blue for 2 seconds, after which its colour changes to the usual red. When taking pictures [i-Portrait] [i-Macro] [i-Night Scenery] [i-Sunset] ¶1 Only displayed when the flash is set to [ ]. ¶2 Only displayed when [iHandheld Night Shot] is set to [ON]. [i-Scenery] [i-Night Portrait]¶1 [iHandheld Night Shot]¶2 When recording motion pictures [i-Portrait] [i-Low Light] [i-Scenery] [i-Macro] • [ ] is set if none of the scenes are applicable, and the standard settings are set. • When [ ] or [ ] is selected, the camera automatically detects a person's face, and it will adjust the focus and exposure. (Face Detection) • If a tripod is used, for instance, and the camera has judged that camera shake is minimal when the scene detection has been identified as [ ], the shutter speed will be set to a maximum of 4 seconds.

Take care not to move the camera while taking pictures. • Due to conditions such as the ones below, a different scene may be identified for the same subject. – Subject conditions: When the face is bright or dark, the size of the subject, the colour of the subject, the distance to the subject, the contrast of the subject, when the subject is moving – Recording conditions: Sunset, sunrise, under low brightness conditions, when the camera is shaken, when zoom is used - 28 - Basic The Backlight Compensation When there is a backlight, the subject appears darker and the camera will automatically attempt to correct it by increasing the brightness of the picture. In Intelligent Auto Mode, backlight compensation works automatically. (Depending on the backlighting conditions, backlighting may not be detected correctly.) Changing the settings Following menus can be set. Menu ¶ Item [Picture Size] [Burst] [Motion Deblur] [iHandheld Night Shot] [iHDR] [Self Shot] [Rec Quality] [Online Manual] [Clock Set] [World Time] [Airplane Mode] [Beep] [Language] • Menu items other than those listed above are not displayed, but you can set them in other Recording Modes. [New Connection] [History Connection] [Favorite Connection] [Wi-Fi Setup] [Rec] [Motion Picture] [Setup] [Wi-Fi] • For the setting method of the menu, refer to P41. ¶ Available settings may be different from other Recording Modes. - 29 - Basic Menus specific to Intelligent Auto Mode ∫ [Motion Deblur] When [Motion Deblur] is set to [ON], [ ] is displayed on the recording screen. The camera automatically sets an optimal shutter speed according to the motion of the subject to reduce blur on the subject. • It is initially set to [ON] on the camera. ∫ [iHandheld Night Shot] When [iHandheld Night Shot] is set to [ON] and [ ] is detected while taking handheld night shots, pictures of the night scenery will be taken at a high burst speed and composed into a single picture. This mode is useful if you want to take stunning night shots with minimal jitter and noise, without using a tripod. If the camera is mounted on a tripod or other type of stand, [ ] will not be detected.

• It is initially set to [ON] on the camera. ∫ [iHDR] When [iHDR] is set to [ON] and there is, for example, strong contrast between the background and the subject, multiple still pictures are recorded with differing exposures and combined to create a single still picture rich in gradation. • It is initially set to [ON] on the camera. • In the case that a single picture is going to be composed from a burst, a message indicating that multiple pictures are to be recorded appears on the screen and burst recording is carried out. Note that burst recording will not take place if the camera determines that it can compensate for the difference in contrast without composing the picture from a burst.

• In the case of composition from a burst, ghost images may appear if the subject was moving. • In the following cases, a combined picture is not created. – When the zoom factor exceeds 20k. – When recording in [Burst]. – When the flash is activated. About the flash (P59) • When [ ] is selected, [ ], [ ], [ ] or [ ] is set depending on the type of subject and brightness. • When [ ], [ ] is set, [Red-Eye Removal] is enabled. • Shutter speed will be slower during [ ] or [ ]. - 30 - Basic Taking Pictures with Your Favourite Settings (Programme AE Mode) Recording Mode: The camera automatically sets the shutter speed and the aperture value according to the brightness of the subject. You can take pictures with greater freedom by changing various settings in the [Rec] menu.

1 Set the mode dial to [ ]. 2 3 Aim the AF area at the point you want to focus on. Press the shutter button halfway to focus and then press it fully to take the picture. A ISO sensitivity B Aperture value C Shutter speed ISO 100 F3.3 1/60 A B C - 31 - Basic Focusing Aim the AF area at the subject, and then press the shutter button halfway. B ISO A 100 F3.3 1/60 Focus Focus indication A AF area B Sound When the subject is focused On White>Green Beeps 2 times When the subject is not focused Blinks White>Red Beeps 4 times • The AF area may be displayed larger for certain zoom magnifications and in dark places. ∫ About focus range The focus range is displayed when operating the zoom. • The focus range is displayed in red when it is not focused after pressing the shutter button halfway. 0.

0.3m W ∞ T 1X The focus range may change gradually depending on the zoom position. e.g.: Range of focus during the Intelligent Auto Mode 3 cm (0.098 feet) 2.

0 m (6.6 feet) 1.0 m (3.3 feet) W 5□–7□ T - 32 - Basic ∫ When the subject is not in focus (such as when it is not in the centre of the composition of the picture you want to take) 1 Aim the AF area at the subject, and press the shutter button half way to fix the focus and exposure. 2 Press and hold the shutter button half way while moving the camera as you compose the picture.

• You can repeatedly retry the actions in step 1 before pressing the shutter button fully. ∫ Subject and recording conditions which are difficult to focus in • Fast-moving subjects, extremely bright subjects or subjects without contrast • When recording subjects through windows or near shiny objects • When it is dark or when jitter occurs • When the camera is too close to the subject or when taking a picture of both distant and near subjects - 33 - Basic Recording Motion Pictures Applicable modes: 1 Start recording by pressing the motion picture button. A Available recording time B Elapsed recording time • You can record motion pictures fitting each Recording Mode. • Release the motion picture button right after you press it. • The recording state indicator (red) C will flash while recording motion pictures.



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• For the setting of [Rec Quality], refer to P102. A 1m07s C 3s B 2 Stop the recording by pressing the motion picture button again. ∫ About the recording format for recording motion pictures This unit can record motion pictures in MP4 format. MP4: This is a simpler video format best used when extensive editing is needed, or when uploading videos to the internet. ∫ About the compatibility of the recorded motion pictures Even if a compatible MP4 playback device is used, the video or sound quality of the recorded motion pictures may be poor, or they may not be able to be played.

There may also be times when the recorded data is not displayed properly. If you experience such issues, please play back the video on this camera. - 34 - Basic • Depending on the type of the card, the card access indication may appear for a while after recording motion pictures. This is not a malfunction. • The screen may be blacked out momentarily, or the unit may record noise due to static electricity or electromagnetic waves etc. depending on the environment of the motion picture recording. • Even if the aspect ratio setting is the same in still pictures and motion pictures, the angle of view may change at the start of the motion picture recording. When [Video Rec Area] (P47) is set to [ON], angle of view during motion picture recording is displayed. • About zooming while recording motion pictures – If you use Extra Optical Zoom or Intelligent Zoom, the angle of view may change drastically when you start or finish recording a motion picture. – If you operate the zoom etc.

while recording motion pictures, the sound of the operation may be recorded. – The zoom speed will be slower than usual when recording motion pictures. – Operating the zoom while recording motion pictures can take time for the image to come into focus. • Motion pictures cannot be recorded in the following cases. – [Soft Focus]/[Star Filter] (Creative Control Mode) • It will be recorded in the following categories for certain Recording Modes.

A motion picture recording matching each Recording Mode will be performed for the ones not listed below. Selected Recording Mode Recording Mode while recording motion picture • Programme AE Mode • Aperture-Priority AE Mode • Shutter-Priority AE Mode • Manual Exposure Mode • [Sports]/[HDR]/[Pet] (Scene Mode) • [Baby1]/[Baby2] (Scene Mode) • [Night Portrait]/[Night Scenery]/[Handheld Night Shot]/[Starry Sky] (Scene Mode) Normal motion picture Portrait Mode Low Light Mode - 35 - Basic Recording still pictures while recording motion pictures Still pictures can be recorded even while recording a motion picture. (Simultaneous recording) During motion picture recording, press the shutter button fully to record a still picture. • The picture is saved with the following conditions. Recording quality setting [FHD]/[HD] Picture size 3.

5 M (16:9) • You can record up to 2 pictures per motion picture recording. • Simultaneous recording is not possible in the following cases: – When [Rec Quality] is set to [VGA] – [Miniature Effect] (Creative Control Mode) • If you press the shutter button halfway to take a picture while recording a motion picture, the camera will refocus and the refocus movement will be recorded to the motion picture. To prioritise the motion picture image, taking still pictures by fully pressing the shutter button is recommended. • Picture size and number of recordable pictures are displayed by pressing the shutter button halfway. • Recording of motion picture will continue after taking the still picture. • Operation sound of the shutter button may be recorded when a picture is taken during motion picture recording. • The flash setting is fixed to [CE]. - 36 - Basic Playing Back 1 Press [(.) 2 Press 2/1 to select pictures. A File number B Picture number • If you press and hold 2/1, you can play back the pictures in succession.

• Speed of picture Forwarding/Rewinding changes depending on the playback status. A 100-0001 B 1/5 ∫ Playing Back Motion Pictures Press 2/1 to select a picture with a Motion Picture icon (such as [ ]), and then press 3 to play back. C Motion picture icon D Motion picture recording time C D 03s • After playback starts, the elapsed playback time is displayed on the screen. For example, 8 minutes and 30 seconds is displayed as [08m30s]. • Operations during Motion Picture Playback 3 4 2 1 Play/Pause Stop Fast rewind/ Frame-by-frame rewind (while pausing) Fast forward/ Frame-by-frame forward (while pausing) • The fast forward/rewind speed increases if you press 1/2 again. – You can adjust the volume with the zoom lever. - 37 - Basic • When the camera is turned off, press and hold [(.) If you turn it on this way, the playback screen will be displayed automatically. (If too many images are stored in the card, it may take a while for the camera to turn on.) • This camera complies with the DCF standard “Design rule for Camera File system” established by JEITA “Japan Electronics and Information Technology Industries Association” and with Exif “Exchangeable Image File Format”.

Files that do not comply with the DCF standard cannot be played back. • Images recorded or edited with the camera may not be played back correctly on other devices and applied effects may not appear on the devices. Also, images recorded on other devices may not be played back on the camera and functions of the camera may not be available for the images. • The lens barrel retracts about 15 seconds after switching from Recording Mode to Playback Mode. While the lens barrel is retracting, you may not be able to operate the camera.

• The file format that can be played back with this camera is MP4. • Be careful not to block the speaker of the camera during playback. Displaying Multiple Screens (Multi Playback) Rotate the zoom lever towards [L] (W). 1 screen>12 screens>30 screens>Calendar screen display A Number of the selected picture and the total number of recorded pictures • Rotate the zoom lever towards [Z] (T) to return to the previous screen. • Pictures displayed using [ ] cannot be played back.

A 1/26 ∫ To return to normal playback Press 3/4/2/1 to select a picture and then press [MENU/SET]. Using the Playback Zoom Rotate the zoom lever towards [Z] (T). 1k>2k>4k>8k>16k • When you rotate the zoom lever towards [L] (W) after enlarging the picture, the magnification becomes lower. 2X • When you change the magnification, the zoom position indication B appears for about 2 seconds, and the position of the enlarged section can be moved by pressing 3/4/2/1. • The more a picture is enlarged, the more its quality deteriorates. B - 38 - Basic Creating Still Pictures from a Motion Picture You can create a single still picture from a recorded motion picture.



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1 2 Press 3 to pause motion picture playback. Press [MENU/SET]. • Confirmation screen is displayed. It is executed when [Yes] is selected.

• Still pictures will be saved with the following settings: [Picture Size] [Quality] 2M (16:9) • Still pictures created from a motion picture may be coarser than with normal picture quality. • Still pictures cannot be created from motion pictures recorded in [HD]/[VGA]. - 39 - Basic Deleting Pictures Once deleted, pictures cannot be recovered. • Pictures on the built-in memory or the card that are being played back will be deleted. • Pictures that are not in the DCF standard or those that are protected cannot be deleted. To delete a single picture Select the picture to be deleted, and then press [ ]. • Confirmation screen is displayed. Picture is deleted by selecting [Yes]. To delete multiple pictures (up to 50) or all the pictures 1 2 Press [ ]. Press 3/4 to select [Delete Multi] or [Delete All] and then press [MENU/SET].

• [Delete All] > Confirmation screen is displayed. Pictures are deleted by selecting [Yes]. 3 (When [Delete Multi] is selected) Press 3/4/2/1 to select the picture, and then press [DISP.] to set. (Repeat this step.

) • [ ] appears on the selected pictures. If [DISP.] is pressed again, the setting is cancelled. 1 4 2 5 3 6 4 (When [Delete Multi] is selected) Press [MENU/SET]. • Confirmation screen is displayed.

Pictures are deleted by selecting [Yes]. • Do not turn the camera off while deleting. • Depending on the number of pictures to be deleted, it may take some time to delete them. - 40 - Basic Setting the Menu The camera comes with menus that allow you to choose the settings for taking pictures and playing them back just as you like and menus that enable you to have more fun with the camera and use it more easily. In particular, the [Setup] menu contains some important settings relating to the camera's clock and power. Check the settings of this menu before proceeding to use the camera. Setting menu items • If you rotate the monitor and set the camera to Self Shot Mode, the menu screen will not be displayed. Example: In the [Rec] menu, change [AF Mode] from [∅] ([1-Area]) to [§] ([Face Detection]) 1 Press [MENU/SET]. 2 Press 3/4/2/1 to select menu and then press [MENU/SET]. Menu Rec Motion Picture Setup Wi-Fi Cancel Select Set Menu [Rec] (P88) (Recording Mode only) [Motion Picture] (P102) (Recording Mode only) Description of settings The menu lets you set the Colouring, Sensitivity or Number of pixels, etc.

of pictures you are recording. This menu lets you set the setting for motion pictures such as recording quality. This menu lets you set the playback method. For example, you [Playback Mode] (P104) can play back a desired type of images or play back a slideshow (Playback Mode only) of images. [Playback] (P111) (Playback Mode only) [Setup] (P44) [Wi-Fi] (P122) This menu lets you set the Protection, Cropping or Print Settings, etc. of recorded pictures. This menu lets you perform the clock settings, beep tone settings and other settings which make it easier for you to operate the camera. This menu lets you make the settings necessary to connect to Wi-Fi or use the Wi-Fi function. - 41 - Basic 3 Press 3/4 to select the menu item and then press [MENU/SET]. A Menu screen page • It will switch to the next page when you reach the bottom.

(It will also switch by rotating the zoom lever) A Rec AF Mode Metering Mode i.Exposure i.Zoom Select auto focus mode OFF OFF 2/4 Cancel Select Set 4 Press 3/4 to select the setting and then press [MENU/SET]. • Depending on the menu item, its setting may not appear or it may be displayed in a different way. AF Mode Face Detection Focus detected person's face Cancel Select Set ∫ Close the menu Press [ ] repeatedly until the recording/ playback screen is displayed.

• When recording images, you can also close the menu by pressing the shutter button halfway. • There are functions that cannot be set or used depending on the modes or menu settings being used on the camera due to the specifications. - 42 - Basic Using the Quick Menu By using the Quick Menu, some of the menu settings can be easily found. • The features that can be adjusted using Quick Menu are determined by the mode or a display style the camera is in. 1 Press [Q.MENU] when recording. 2 Press 3/4/2/1 to select the menu item and the setting and then press [MENU/SET] to close the menu. - 43 - Basic About the Setup Menu For details on how to select the [Setup] menu settings, refer to P41. • [Clock Set], [Economy] and [Auto Review] are important items. Check their settings before using them. • In Intelligent Auto Mode, only [Online Manual], [Clock Set], [World Time], [Airplane Mode], [Beep]ϕ, [Language] can be set. ϕ Available settings are different from other Recording Modes. [Online Manual] [URL display]/[USB connection]/[QR Code display] U [Clock Set] Setting Date/Time. • Refer to P22 for details. Set the time in your home area and travel destination.

You can display the local times at the travel destinations and record them on the pictures you take. After selecting [Destination] or [Home], press 2/1 to select an area, and press [MENU/SET] to set. • Set [Home] first thing after purchasing. [Destination] can be set after setting up [Home]. [World Time] “ [Destination]: Travel destination area A Current time of the destination area B Time difference from home area A 10:00 Seoul Tokyo 19:00 B C + 9:00 Cancel Select Set – [Home]: Your home area C Current time D Time difference from GMT (Greenwich Mean Time) 10:00 London Casablanca D GMT+ 0:00 Cancel Select Set • Press 3 if you are using Daylight Savings [ ]. (The time will move forward by 1 hour.) Press 3 once more to return to the normal time. • If you cannot find the travel destination in the areas displayed on the screen, set by the time difference from the home area. - 44 - Basic Restricts Wi-Fi settings. [ON]: Wi-Fi functions cannot be used.

[Airplane Mode] [OFF] • When you bring the camera on an airplane or to a hospital, etc., set [Airplane Mode] to [ON], and turn off the camera because electromagnetic waves, etc. emitted by the camera may interfere with gauges. This allows you to set the beep and shutter sound. r [Beep Level]: r [Beep] [Shutter Vol.]: [ [ [ [ ] ([Low]) ] ([High]) ] ([OFF]) [Shutter Tone]: 1 ]/[ 2 ]/[ 3 ] [t] [s] [ (Low) ] ([OFF]) [u] ([High]) [Beep Tone]: 1 ]/[ 2 ]/[ 3 ] [Cust.Set Mem.] Up to 4 current camera settings can be registered as custom settings. [ ]/[ ]/[ ]/[ ] • Refer to P85 for details. Brightness, colour, or red or blue tint of the monitor is adjusted. [Brightness]: Adjust the brightness. [Contrast · Saturation]: Adjust the contrast or clarity of colours. [Monitor Display] [Red Tint]: Adjust the red tint. [Blue Tint]: Adjust the blue tint.



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1 2 the recorded pictures. Select the settings by pressing 3/4, and adjust with 2/1. Press [MENU/SET] to set. • Some subjects may appear differently from actuality on the monitor. However, this does not affect - 45 - Basic These menu settings make it easier to see the monitor when you are in bright places. [.,] ([Auto Power Monitor])ε: The brightness is adjusted automatically depending on how bright it is around the camera.

[...] ([Power Monitor]): The monitor becomes brighter and easier to see even when taking pictures outdoors. [OFF] ε Can be set only when Recording Mode is set. [Monitor Luminance] • The brightness of the pictures displayed on the monitor is increased so some subjects may appear different from real life on the monitor. However, this does not affect the recorded pictures. • When [Monitor Luminance] is set, the usage time is reduced. This allows you to set either to display or not display the Histogram. [ON]/[OFF] A Histogram is a graph that displays brightness along the horizontal axis (black to white) and the number of pixels at each brightness level on the vertical axis. It allows you to easily check a picture's exposure. A dark B optimal C bright [Histogram] • When the recorded picture and the Histogram do not match each other under the following conditions, the Histogram is displayed in orange. – When the Manual Exposure Assistance is other than [0] during exposure compensation or in the Manual Exposure Mode – When the flash is activated – Dark places • When you record images, the Histogram before exposure compensation will be displayed.

• The Histogram is an approximation in Recording Mode. • The Histogram of a picture may not match in the Recording Mode and the Playback Mode. • The Histogram displayed in this camera does not match Histograms displayed by picture editing software used in PCs, etc. • Histograms are not displayed in the following cases. – Intelligent Auto Mode – Panorama Shot Mode – When recording motion pictures – Calendar – Multi Playback – Playback Zoom – When HDMI micro cable is connected - 46 - Basic [Video Rec Area] Angle of view for motion picture recording can be checked.

[ON]/[OFF] • Motion picture recording area display is only an approximation. • Recording area display may disappear when zooming to Tele depending on the picture size setting. • The setting is fixed to [OFF] in the following case. – Intelligent Auto Mode This allows you to save the zoom position when you turn off the camera. [ON]/[OFF] [Zoom Resume] The camera is automatically turned off if the camera has not been used for the time selected on the setting.

Also, the battery life is conserved by dimming the monitor. p [Auto Power Off]: The camera is automatically turned off if the camera has not been used for the time selected on the setting. q [Economy] [2MIN.]/[5MIN.]/[10MIN.]/[OFF] [Monitor Power Save]: The brightness of the monitor is lowered. ECO [ON]/[OFF] • [Auto Power Off] does not work in the following cases. – When connecting to a PC or a printer – When recording or playing back motion pictures – During a Slide Show – During panorama playback (while pausing) • The effect of the [Monitor Power Save] is lower in the Digital Zoom range compared to the Optical Zoom range. • [Monitor Luminance] settings take priority, even if [Monitor Power Save] has been set. - 47 - Basic Set the length of time that the picture is displayed after taking the still picture.

[1 SEC.] o [Auto Review] [2 SEC.] [HOLD]: The pictures are displayed until one of the buttons is pressed. [OFF] • [Auto Review] is activated regardless of its setting in the following cases. – When using Auto Bracket – When using [Burst]. • [Auto Review] does not work when recording motion pictures. When you turn off the camera or switch the Recording Mode, the [ON]/[OFF] [Exposure Comp. exposure value is set to [0 EV]. Reset] w [Reset] The recording or setup settings are reset to the default. • When the setup settings are reset, the following settings are also reset.

– The birthday and name settings for [Baby1]/[Baby2] and [Pet] in Scene Mode. • The folder number and the clock setting are not changed. [Reset Wi-Fi Settings] Reset all settings in the [Wi-Fi] menu to factory default settings. • Always reset the camera when disposing or selling it to prevent personal information saved within the camera from being misused. • Always reset the camera after making a copy of personal information when sending the camera in to be repaired.

- 48 - Basic Set to match the colour television system in each country or the type of TV. [V] ([Video Out]): [NTSC]: Video output is set to NTSC system. [PAL]: Video output is set to PAL system. • This will operate when the AV cable (optional) or HDMI micro cable is connected. \ [TV Connection] [ ] ([TV Aspect]): [W]: When connecting to a 16:9 screen TV.

[X]: When connecting to a 4:3 screen TV. • This will work when the AV cable (optional) is connected. This mode allows you to display pictures vertically if they were recorded holding the camera vertically. [ ] ([On]): Rotate pictures on a TV and the monitor so that they are displayed vertically. [ ] ([External Only]): Pictures are displayed vertically by rotating when played back on TV. [OFF] • When you play back pictures on a PC, they cannot be displayed in the rotated direction unless the OS or software is compatible with Exif. Exif is a file format for still pictures which allows recording information etc. to be added. It was established by "JEITA (Japan Electronics and Information Technology Industries Association)". • Pictures are not rotated during Multi Playback.

M [Rotate Disp.] - 49 - Basic [Version Disp.] unit. It is possible to check which version of firmware is on the camera. • Press [MENU/SET] on the version display screen to display information about the software on the [Format] The built-in memory or card is formatted. Formatting irretrievably deletes all the data so check the data carefully before formatting. • Do not turn the camera off during formatting. • If a card has been inserted, only the card is formatted. To format the built-in memory, remove the card. • If the card has been formatted on a PC or other equipment, format it on the camera again.

• It may take longer to format the built-in memory than the card. • If the card cannot be formatted, please try another card before contacting Panasonic. ~ [Language] language. Set the language displayed on the screen. • If you set a different language by mistake, select [~] from the menu icons to set the desired - 50 - Recording Taking Pictures with Yourself Included ([Self Shot]) Applicable modes: If you rotate the monitor, Self Shot Mode is activated.

You can take pictures while looking at the screen, allowing you to include yourself in them easily.



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• When [Self Shot] (P101) in [Rec] menu is set to [OFF], even if you rotate the monitor, the camera will not be set to Self Shot Mode. (It is set to [ON] at the time of purchase.) In Self Shot Mode..

• Deciding on a composition is easier because recording is performed while looking at the screen. • Using the soft skin effect allows the faces of subjects to appear brighter and the skin colour to appear smoother. • Pictures with different poses and facial expressions can be taken at once by increasing the number of pictures to be recorded. • Other settings follow the settings of each Recording Mode. 1 Rotate the monitor as shown in the figure. • When you rotate the monitor, a mirror image will be displayed on the monitor. - 51 - Recording 2 Press [MENU/SET] to set the soft skin effect, the number of pictures to be taken, and other details. • Operate the buttons on the back of the unit while looking at the screen. Be careful not to operate the wrong buttons and not to drop the camera.

• The following settings can be changed: Press 3/4 to select a setting, press 2/1 to select an option, and press [MENU/SET]. Settings M M 1 Description of settings [ ] [ ] [ ] [OFF] ([Soft Skin])<sup>1</sup> [ ] [Flash]<sup>2</sup> [ ] [ ] [ ] [Off]/[ L ] ([Low])/[ M ] ([Medium])/[ H ] ([High]) [ ] [Auto]/[ ] [ ] [iAuto]<sup>4</sup> [ ] [ ] [Auto/Red-Eye]<sup>5</sup> [ ] [Forced Flash On]/[ ] [ ] [Slow Sync./Red-Eye]<sup>5</sup> [ ] [Forced Flash Off] [ ] [Off]/[ ] (3 seconds)/[ ] (10 seconds) 1 ([Shots])<sup>2</sup> [ 1 ] (1 picture)/[ 2 ] (2 pictures)/[ 3 ] (3 pictures)/[ 4 ] (4 pictures) ([Countdown])<sup>2</sup> [ 1 ] This setting is not available in Scene Mode and Creative Control Mode. <sup>2</sup> These settings are not available in Panorama Shot Mode and during motion picture recording. <sup>3</sup> This setting is not available in Creative Control Mode. <sup>4</sup> This can be set only when Intelligent Auto Mode is set. <sup>5</sup> [Red-Eye Removal] (P100) on the [Rec] menu is set to [ON], [ ] appears on the flash icon. 3 4 Decide on your poses while looking at the monitor. • The AF area is displayed around the subject's face by the Face Detection function. (If [š] in [AF Mode] is not available with the current Recording Mode, an available focus setting for each Recording Mode will be used.

) Press the shutter button halfway to focus and then press it fully to take the picture. • Look at the lens when recording. • Countdown starts, and recording takes place when it ends. If multiple pictures are set to be recorded, the recording continues until the set number is reached. 2 • Be careful not to look at the light from the flash and the AF Assist Lamp directly.

• When the [Soft Skin] is set – The smoothing effect is applied to the part that has a similar tone to the complexion of a subject, as well. – This mode may not be effective under insufficient lighting. • The recorded image during Auto Review is also displayed as a mirror image. This means the date recorded with [Date Stamp] also appears reversed. In the following cases, however, the date does not appear reversed: – When the Intelligent Auto Mode detected the scene as [iHandheld Night Shot] – [Handheld Night Shot] (Scene Mode) - 52 - Recording ∫ Changing the settings of Self Shot Mode from the [Rec] menu 1 2 3 4 5 Rotate the monitor to its original position.

Select [Self Shot] on the [Rec] menu and then press [MENU/SET]. (P41) Press 3/4 to select [SET] and then press [MENU/SET]. Press 3/4 to select the menu item and then press [MENU/SET]. Press 3/4 to select the setting and then press [MENU/SET]. • Exit the menu after it is set. - 53 - Recording Taking panorama pictures in Self Shot Mode You can also take panorama pictures in Self Shot Mode. By recording with Panorama Shot Mode, you can enjoy a variety of self-portraits, such as those with your friends or those incorporating a wide background. • For information on taking pictures in Panorama Shot Mode, please also refer to P70 "Taking panorama pictures (Panorama Shot Mode)". 1 2 Set the mode dial to [ ]. Press 3/4 to select the recording direction and then press [MENU/SET].

• If a screen that lets you select the recording direction is not displayed, press 1. • The recording direction is reversed horizontally when the monitor is rotated. Select the direction opposite to the desired direction of rotation. 3 4 5 6 Press 3/4 to select image effects and then press [MENU/SET]. Rotate the monitor to enable Self Shot Mode. • Instructions explaining how to take a picture will be displayed. Read the instructions explaining how to take a picture, and press [MENU/SET]. • The instructions continue to the next page. Press [MENU/SET] to proceed to the next page. Point the camera at the front, and strike a pose while look at the monitor.

• The AF area is displayed around the subject's face by the Face Detection function. • If you have selected [No Effect] in step 3, you can set the soft skin effect by pressing [MENU/SET]. (P52) • To change settings other than [Soft Skin], such as the recording direction, close the monitor 7 8 9 back to the original position before changing them. Press the shutter button halfway (or fully) to lock the focus and exposure. • If you have fully pressed the shutter button, release the shutter button completely.

• You can re-adjust the focus and exposure as many times as you want by pressing [ ]. Point the camera at the start position of the recording, press the shutter button fully, and rotate the camera in the direction you have selected in step 2 to take the picture. Press the shutter button once again to end the picture recording. • Recording can also be ended by keeping the camera still while recording. - 54 - Recording ∫ Technique for Panorama Shot Mode Swivel the camera around its centre when moving it in the recording direction.

Hold the camera with both hands, taking care not to shake it. • Swivel the camera at a speed of about 2 seconds per quarter revolution. Example: When you have selected [ ] in step 2 • If the camera shakes too much, pictures may not be able to be recorded, or the recorded panorama picture may become narrower (smaller). • Move the camera towards the edge of the range you wish to record. • If you change the facial expression or blink, the recorded picture may look unnatural. Try to stay still. • Since the distance between the camera and subject is close when you take panorama pictures in Self Shot Mode, the edges of the pictures may appear significantly distorted. - 55 - Recording About the Monitor Press [DISP.] to change. • During motion picture playback, panorama playback or a slide show, you can only select "Normal Display" or "No Display".

In Recording Mode Normal display<sup>5</sup> Normal display<sup>6</sup> R1m10s No display<sup>6</sup> Recording guideline<sup>6</sup> 1 2 1 Number of recordable pictures 2 Available recording time In Playback Mode Normal display 100-0001 1/5 Display with recording information<sup>6</sup> 100-0001 1/5 No display AWB 10:00 1.



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