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You can read the recommendations in the user guide, the technical guide or the installation guide for PANASONIC DMC-FZ48. You'll find the answers to all your questions on the PANASONIC DMC-FZ48 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-FZ48
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Panasonic[®]

Operating Instructions
for advanced features

Digital Camera

Model No. **DMC-FZ48**



Before use, please read these instructions completely.



VQT3R59



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Manual abstract:

Drop or hit the camera. Press hard on the lens or the LCD monitor. @@ There are times when rattling sounds or vibrations will come from the camera, but these are due to the motion of the aperture, the zoom and the motor and do not indicate a defect. This camera is not dust/splash/water proof. Avoid using the camera at location 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 become unrepairable. Places with a lot of sand or dust. @@@@ 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. Battery Charger is indicated as battery charger or charger 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.

Consult the dealer or your nearest Service Centre if you lose the supplied accessories. (You can purchase the accessories separately.) -6- Before Use Names and Functions of Main Parts 1 2 3 Lens (P5, 171) Self-timer indicator (P73) AF Assist Lamp (P121) Flash (P65) 1 2 3 4 5 6 7 8 9 10 11 12 Flash open button (P65) Diopter adjustment dial (P9) Viewfinder (P9, 167) [EVF/LCD] button (P9) [AF/AE LOCK] button (P114, 116) Rear dial (P10) [AF/AF#/MF] button (P70, 71) Playback button (P37) [MENU/SET] button (P10, 22) 45 6 7 8 9 10 11 12 13 16 15 14 13 Cursor buttons (P10) 3/ Exposure compensation (P74)/ Auto Bracket (P75)/Flash output adjustment (P69) 2/ Self-timer button (P73) 1/ ISO (P76) 4/ Function button (P50) The following menus can be assigned. [PHOTO STYLE]/[ASPECT RATIO]/[QUALITY]/[METERING MODE]/[WHITE BALANCE]/[I.DYNAMIC]/[GUIDE LINE]/[REC AREA]/[REMAINING DISP.

] 14 [Q.MENU] button (P47)/Delete button (P42) 15 [DISPLAY] button (P60) 16 LCD monitor (P60, 167) -7- Before Use 17 18 19 20 21 22 23 24 25 Stereo microphone Zoom lever (P62) Shutter button (P27, 31) Motion picture button (P34) [FOCUS] button (P31, 72, 115) Power lamp (P22) Camera ON/OFF switch (P22) Mode dial (P24) Speaker (P50) Do not cover the speaker with your fingers. 17 CU M 18 19 20 25 26 Shoulder strap eyelet (P12) 27 [HDMI] socket (P146) 28 [AV OUT/DIGITAL] socket (P146, 153, 156, 159) 29 Terminal door 30 Lens barrel 24 23 22 21 26 30 31 Tripod receptacle (P175) 32 Release lepacks 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. Use the dedicated charger and battery. Charging The battery is not charged when the camera is shipped. Charge the battery before use. Charge the battery with the charger indoors.

Attach the battery paying attention to the direction of the battery. plug-in type Connect the charger to the electrical outlet. The [CHARGE] indicator A lights up and charging begins. 90 inlet type - 14 - Preparation About the [CHARGE] indicator The [CHARGE] indicator turns on: The [CHARGE] indicator is turned on during charging. The [CHARGE] indicator turns off: The [CHARGE] indicator will turn off once the charging has completed without any problem. (Disconnect the charger from the electrical socket and detach the battery after charging is completed.) When the [CHARGE] indicator flashes The battery temperature is too high or too low. It is recommended to charge the battery again The terminals of the charger or the battery are dirty. In this case, wipe them with a dry cloth. Charging time Charging time Approx.

155 min in an ambient temperature of between 10 oC and 30 oC (50 oF and 86 oF). 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 long time may be longer than normal. Battery indication The battery indication is displayed on the screen.

The indication turns red and blinks if the remaining battery power is exhausted. (The power lamp also blinks) Recharge the battery or replace it with a fully charged battery. Note 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. The battery becomes warm after using it 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 charge 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.) - 15 - Preparation Approximate operating time and number of recordable pictures Recording still pictures (When using the LCD monitor) Number of recordable pictures Recording time Approx. 400 pictures Approx. 200 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 LCD monitor is on. Using a Panasonic SD Memory Card (32 MB).

Using the supplied battery. Starting recording 30 seconds after the camera is turned on. (When the Optical Image Recording once every 30 seconds with full flash every second recording. Rotating the zoom lever 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. Stabilizer function is set to [ON].) The number of recordable pictures varies depending on the recording interval time. If 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).] - 16 - Preparation Recording motion pictures (When using the LCD monitor) [AVCHD] [MP4] (Recording with picture quality set (Recording with picture quality set to [FSH]) to [FHD]) Recordable time Actual recordable time Approx.

140 min Approx. 80 min Approx. 140 min Approx. 80 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 Motion pictures can be recorded continuously for up to 29 minutes 59 seconds.



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Also, motion picture recorded continuously in [MP4] is up to 4 GB. switching the power supply [ON]/[OFF], starting/stopping recording, zoom operation etc. Please be aware that these times are approximate. Playback (When using the LCD monitor) Playback time Approx.

330 min Note 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 shorten and the number of recordable pictures is reduced. In low-temperature environments, such as on ski slopes. When using [LCD MODE]. 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)/the Battery Turn the power switch to [OFF] and confirm that the lens barrel is retracted. We recommend using a Panasonic card. 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. Battery: Being careful about the battery orientation, insert all the way until you hear a locking sound and then check that it is locked by lever A. Pull the lever A in the direction of the arrow to remove the battery. Card: 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. B: Do not touch the connection terminals of the card. B 1: Close the card/battery door.

2: Slide the release lever in the direction of the arrow. Note Remove the battery after use.

(The battery will be exhausted if left for a long period of time after Remove the card or battery after turning off the power, with the power lamp completely turned being charged.) off and the lens barrel retracted completely. (The camera may not function properly, or the card or recorded contents may be damaged.) When using an AC adaptor (optional) instead of the battery, refer to P166. - 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: k> (access indication) Pictures can be recorded on the card and played back. Pictures can be recorded in the built-in memory and played back. When using the built-in memory When using the card (access indication) The access indication is displayed in red when pictures are being recorded on the built-in memory (or the card). Built-in Memory You can copy the recorded pictures to a card.

(P145) 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 video 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 with "Class 4" or SDHC Memory Card can be used with SDHC Memory Card SDXC Memory Card can only be used with SDXC Memory 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. Card compatible equipment. or SDXC Memory Card compatible equipment. higher when recording motion pictures.

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 Do not turn this unit off, remove its battery or card, or disconnect the AC adaptor Note (optional) when the access indication is lit (when pictures are being written, read or deleted, or the built-in memory or the card is being formatted). 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. We 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. (P58) K previously registered settings. Scene Mode (P85) This allows you to take pictures that match the scene being recorded. Creative Control Mode (P80) Record while checking the image effect.

Advanced Scene Mode Portrait Mode (P82) Use this mode to take pictures of people. Scenery Mode (P83) Use this mode to take pictures of scenery. Sports Mode (P83) Use this mode to take pictures of sporting events, etc. Close-up Mode (P83) Use this mode to take pictures of a close-by subject. Night Portrait Mode (P84) Use this mode to take pictures of night scenes and people against night time scenery. - 25 - Basic Tips for taking good pictures Hold the camera gently with both hands, keep your arms still at your side and stand with your feet slightly apart. Be careful not to put your fingers on the flash, AF Assist Lamp A, microphone B, speaker or lens etc. Be careful not to move the camera when you press the shutter button. When taking pictures, make sure your footing is stable and there is no danger of colliding with another person, an object etc. Do not hold the lens barrel as you take pictures.

There is a risk that your finger will be trapped as the lens retracts. AV OUT/DIGITAL Direction Detection Function ([ROTATE DISP.]) Pictures recorded with the camera held vertically are played back vertically (rotated). (Only when [ROTATE DISP.] (P139) is set to [ON]) When the camera is held vertically and tilted up and down to record pictures, the Direction Motion pictures taken with the camera held vertically are not displayed vertically. You cannot record 3D pictures in vertical orientation. Detection function may not work correctly. Preventing jitter (camera shake) When the jitter alert [] appears, use [STABILIZER] (P120), a tripod or the Self-timer (P73). 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.

We recommend using a tripod.



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Slow sync./Red-Eye Reduction In [HIGH DYNAMIC] in Creative Control Mode In [NIGHT PORTRAIT] and [NIGHT SCENERY] in [NIGHT PORTRAIT] In [PANORAMA ASSIST], [PARTY], [CANDLE LIGHT], [STARRY SKY], or [FIREWORKS] in Scene Mode When the shutter speed is slowed in [MIN. SHTR SPEED] - 26 - AV OUT/DIGITAL Basic Applicable modes: Taking Pictures with Your Favourite Settings (Programme AE 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 [REC] menu.

Set the mode dial to []. CU M ST CU ST Aim the AF area at the point you want to focus on. Press the shutter button halfway to focus. A Aperture value B Shutter speed C ISO sensitivity The focus indication D (green) lights when the subject is focused. The maximum close-up distance (the shortest distance at which the subject can be taken) differs depending on the zoom magnification.

Please check with the focus range display on the screen. (P29) Aperture value and shutter speed is displayed in red when correct exposure is not achieved. (Except when using a flash) M D A B C Press the shutter button fully (push it in further), and take the picture. - 27 - Basic Programme Shift In Programme AE Mode, you can change the preset aperture value and shutter speed without changing the exposure. This is called Programme Shift. You can make the background more blurred by decreasing the aperture value or record a moving subject more dynamically by slowing the shutter speed when taking a picture in Programme AE Mode. Press the shutter button halfway and display the aperture value and shutter speed value on the screen. While the values are displayed (about 10 seconds), perform the Programme Shift by rotating the rear dial. It will switch between Programme Shift operation and Exposure Compensation operation (P74) every time A the rear dial is pressed while the values are displayed. The Programme Shift indication A appears on the screen when Programme Shift is activated.

Programme Shift is cancelled if the camera is turned off or the rear dial is rotated until the Programme Shift indication disappears. Example of Programme Shift (A): Aperture value (B): Shutter speed 1 Programme Shift amount 2 Programme Shift line chart 3 Programme Shift limit 1 2 2.8 2 3 4 5 6 7 8 9 10 11 12 13 14 (A) 4 5.6 8 11 1 1/2 1/4 1/8 1/15 1/30 1/60 1/125 1/250 1/500 1/1000 1/2000 (B) Note EV is an abbreviation of [Exposure Value], a unit indicating the amount of exposure. The EV If the exposure is not adequate when the shutter button is pressed halfway, the aperture value Programme Shift is cancelled and the camera returns to normal Programme AE Mode if more than 10 seconds pass after Programme Shift is activated. However, the Programme Shift setting is memorised. Depending on the brightness of the subject, Programme Shift may not be activated. Programme Shift is available in all ISO sensitivity settings except []. and shutter speed turns red. changes with the aperture value or the shutter speed.

- 28 - Basic Focusing Aim the AF area at the subject, and then press the shutter button halfway. B A 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 AF area is displayed larger during the digital zoom or when it is dark. 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. The focus range may change gradually depending on the zoom position. e.g.: Range of focus during the Programme AE Mode 2 m (6.57 feet) T W 30 cm (0.99 feet) - 29 - 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 2 Aim the AF area at the subject, and then press the shutter button halfway to fix the focus and exposure.

Press and hold the shutter button halfway while moving the camera as you compose the picture. You can repeatedly retry the actions in step 1 before pressing the shutter button fully. Subjects and recording conditions which are difficult to focus 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 - 30 - Basic Applicable modes: Taking Pictures Using the Automatic Function (Intelligent Auto 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/[QUICK AF]/[I.DYNAMIC]/[I.RESOLUTION]/[i.ZOOM]/[STABILIZER]/[AF ASSIST LAMP]/[RED-EYE REMOVAL]/[CONTINUOUS AF]/[ZOOM MIC] Image quality is fixed to [A]. Set the mode dial to []. Press the shutter button halfway to focus and then press it fully to take the picture.

A Focus indication 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. You can set the AF tracking by pressing [FOCUS]. For details, refer to P114. (AF tracking is cancelled by pressing [FOCUS] again.) You cannot use AF Tracking Function when [COLOR EFFECT] is set to [B/W] or [SEPIA]. B A - 31 - CUST M CU ST M Basic Changing the settings Following menus can be set. Menu Item [REC] [PICTURE SIZE]/[BURST]/[COLOR EFFECT]/[MOTION DEBLUR]/[FACE RECOG.] [CLOCK SET]/[WORLD TIME]/[BEEP]/[LANGUAGE]/ [STABILIZER DEMO.] [MOTION PICTURE] [REC MODE]/[REC QUALITY] [SETUP] For the setting method of the menu, refer to P46.

Settings may be different from other Recording Modes. Menus specific to Intelligent Auto Mode [COLOR EFFECT] can set the colour effects of [STANDARD], [Happy], [B/W] or [SEPIA]. When [Happy] is selected, it is possible to automatically take a picture with a higher level of brilliance for the colour brightness and vividness. 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. (In such a case, the number of pixels may be reduced.) About the flash Open the flash when the flash is to be used. (P65) When [] is selected, [], [], [] or [] is set depending on the type of subject When [] or [] is set, Digital Red-Eye Correction is enabled.



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Shutter speed will be slower during [] or [], and brightness.

- 32 - 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- BABY 2] [i- SCENERY] [i- NIGHT PORTRAIT] [i- SUNSET] 1 Only when [] is selected. 2 When [FACE RECOG.] is set to [ON], [] will be displayed for birthdays of registered faces already set only when the face of a person 3 years old or younger is detected. 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 If a tripod is used, for instance, and the camera has judged that camera shake is minimal when will adjust the focus and exposure. (Face Detection) the Scene Mode has been identified as [], the shutter speed will be set to a maximum of 8 seconds. Take care not to move the camera while taking pictures. When [FACE RECOG.] is set to [ON], and the face similar to the registered face is detected, [R] is displayed in the top right of [], [] and [].

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 To take pictures in an intended scene, it is recommended that you take pictures in the appropriate Recording Mode. The Backlight Compensation Backlight refers to when light comes from the back of a subject. In this case, the subject will become dark, so this function compensates the backlight by brightening the whole of the picture automatically. - 33 - Basic Applicable modes:

Recording Motion Pictures 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. Focus can be achieved during recording by pressing [FOCUS]. It is recommended that you close the flash when recording motion pictures.

For the setting of the [REC MODE] and [REC QUALITY], refer to P123. CU ST M A C B Stop the recording by pressing the motion picture button again.

Note Built-in memory can only store data as the [VGA] of [MP4]. The available recording time displayed on the screen may not decrease regularly. Depending on the type of the card, the card access indication may appear for a while after Motion pictures cannot be recorded during [3D PHOTO MODE] in Scene Mode.

ISO sensitivity will operate as [AUTO] in Motion Picture Recording other than Creative Video. There is a risk that the sound of zoom and button operations and the rubbing of the lens cap The screen may be blacked out momentarily, or the unit may record noise due to static string will be recorded, and so care is necessary. electricity or electromagnetic waves etc. depending on the environment of the motion picture recording. When operating the zoom in recording motion pictures, it may take time to come into focus.

If the Extra Optical Zoom was used before pressing the motion picture button, those settings will be cleared, so the focus range will change dramatically. Even if the aspect ratio setting is the same in still and motion pictures, the angle of view may change at the start of the motion picture recording. When [REC AREA] (P52) is set to [ON], angle of view during motion picture recording is displayed. If you end motion picture recording after a short time when using [MINIATURE EFFECT] of the Creative Control Mode, the camera may go on recording for a certain period. Please continue to hold the camera until the recording finishes. It is recommended to use a fully charged battery or AC adaptor (optional) when recording motion pictures. If while recording motion pictures using the AC adaptor and the power supply is cut off due to a power outage or if the AC adaptor is disconnected etc., the motion picture being recorded will not be recorded. Also, [ISO LIMIT SET] will not function. recording motion pictures.

This is not a malfunction. - 34 - Basic It will be recorded in following categories for certain Recording Modes. A motion picture Selected Recording Mode recording matching each Recording Mode will be performed for the ones not listed below. Recording Mode while recording motion picture Programme AE Mode Aperture-Priority AE Mode Shutter-Priority AE Mode Manual Exposure Mode [SPORTS] [PANORAMA ASSIST], [PET], Normal motion picture [HI-SPEED BURST], [FLASH BURST], [FIREWORKS], [PHOTO FRAME] in Scene Mode in [PORTRAIT] Portrait Mode Low Light Mode [OUTDOOR PORTRAIT], [INDOOR PORTRAIT] [BABY1]/[BABY2] in Scene Mode [NIGHT PORTRAIT] [STARRY SKY] in Scene Mode About the recording format for recording motion pictures This unit can record motion pictures in either AVCHD or MP4 formats. AVCHD: You can record high definition quality images with this format. It is suitable for viewing on a large format TV or for saving to disc. 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 Motion pictures recorded in [AVCHD] or [MP4] may be played back with poor picture or sound quality or playback may not be possible even when played back with equipment compatible with these formats.

Also, the recording information may not be displayed properly. In this case, use this unit.

There is no compatibility between [MP4] and [AVCHD] (including [AVCHD Lite]) formats. For details on AVCHD and MP4 compatible devices, refer to the support sites below. <http://panasonic.jp/support/global/cs/dsc/> (This Site is English only.) - 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. [AVCHD] [FSH]/[SH] Picture size 3.5 M (16:9) [MP4] [FHD]/[HD] Picture size 3.5 M (16:9) Note During motion picture recording, if you press the shutter button halfway, the camera will refocus and the refocus movement will be recorded to the motion picture being recorded.

To prioritise the motion picture image, recording still pictures by fully pressing the shutter button, or creating still pictures after motion picture recording is recommended.



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(P41) Recordable pixels and recordable number of pictures are displayed by pressing the shutter button halfway. Recording of motion picture will continue after taking the still picture. The quality of pictures taken with simultaneous recording may differ compared to normal [3.5M] pictures. You can record up to 5 pictures per motion picture recording. The flash setting is fixed to [OE]. Zooming may stop when a picture is recorded while zooming. Only one picture is recorded when Auto Bracket or White Balance Bracket is set. Simultaneous recording is not possible in the following cases: When [REC MODE] is set to [VGA] in [MP4] In Creative Video Mode - 36 - Basic Playing Back Pictures ([NORMAL PLAY]) Press [.]

To finish playback Press [.] again, press the motion picture button or press the shutter button halfway. Note 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 which do not comply with the DCF standard cannot be played back. The lens barrel retracts about 15 seconds after switching from Recording Mode to Playback Mode. Pictures recorded with other camera may not be able to play back on this unit. - 37 - Basic Selecting a picture Press 2 or 1. 2: 1: Play back the previous picture Play back the next picture A B A File number B Picture number Speed of picture forwarding/rewinding changes depending on the playback status. If you press and hold 2/1, you can play back the pictures in succession. Displaying Multiple Screens (Multi Playback) Rotate the zoom lever towards [L] (W). 1 screen>12 screens>30 screens>Calendar screen display C Number of the selected picture and the total number of recorded pictures C W T Rotate the zoom lever towards [Z] (T) to return to the previous screen.

Pictures displayed using [.] cannot be played back. To return to normal playback Press 3/4/2/1 to select a picture and then press [MENU/SET]. - 38 - Basic 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 When you change the magnification, the zoom position enlarging the picture, the magnification becomes lower. W T indication A appears for about 1 second, 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. A Switching the displayed image while maintaining the Playback Zoom You can switch the displayed image while maintaining the same zoom magnification and zoom position for the Playback Zoom. Rotating the rear dial to select the picture during Playback Zoom. The zoom position returns to the centre in the following images. Images with different aspect ratios Images with different numbers of recorded pixels Images with a different rotation direction (when [ROTATE DISP.

] is set to [ON]) Enlarge the focus point (display focus point) This unit will remember the focus point during the recording, and it can be enlarged with that point as a centre. Press [FOCUS] during image playback. Focus point may not be the centre of enlargement when it is at the edge of the image. It will return to the original enlargement if [FOCUS] is pressed again. Following pictures cannot be enlarged because there is no focus point: Picture that was taken without focusing Picture that was taken with Manual Focus Picture that was taken with a different camera - 39 - Basic Playing Back Motion Pictures This unit was designed to play motion pictures using the AVCHD, MP4 and QuickTime Motion JPEG formats. Press 2/1 to select a picture with a motion picture icon (such as []/[]), and then press 3 to play back. A Motion picture icon B The motion picture recording time After playback starts, the elapsed playback time is displayed on the screen. For example, 8 minutes and 30 seconds is displayed as [8m30s]. Some information (recording information, etc.) is not displayed for motion pictures recorded in [AVCHD].

AB Operations performed during Motion Picture Playback The cursor displayed during playback is the same as 3/4/2/1. 3 4 2 1 Play/Pause Stop Fast rewind Frame-by-frame rewind (while pausing) Fast forward Frame-by-frame forward (while pausing) [W] Reduce volume level [T] Increase volume level W T The fast forward/rewind speed increases if you press 1/2 again. Note When using a high capacity card, it is possible that fast rewinding may be slower than usual. To playback the motion pictures recorded by this unit on a PC, use the "QuickTime" or the Motion pictures recorded with other camera may not be able to play back on this unit. Motion pictures recorded with [MINIATURE EFFECT] in Creative Control Mode play back at approximately 8 times speed.

"PHOTOfunSTUDIO" software on the CD-ROM (supplied). - 40 - Basic Creating Still Pictures from a Motion Picture You can create a single still picture from a recorded motion picture. Press 3 to pause motion picture playback. Press [MENU/SET]. Confirmation screen is displayed. It is executed when [YES] is selected. Exit the menu after it is executed. Note The picture is saved with the following recording sizes. [AVCHD] [FSH]/[SH] Picture size 2 M (16:9) [MP4] [FHD]/[HD] [VGA] Picture size 2 M (16:9) 0.3 M (4:3) You may not be able to save still pictures from a motion picture taken on other equipment.

Still pictures created from a motion picture may be coarser than with normal picture quality. - 41 - Basic Deleting Pictures Once deleted, pictures cannot be recovered. Pictures on the built-in memory or the card, which are being played back will be deleted. Pictures that are not in the DCF standard or those that are protected cannot be deleted. Press [.]

To delete a single picture Select the picture to be deleted, and then press [.] Confirmation screen is displayed. Picture is deleted by selecting [YES]. - 42 - Basic To delete multiple pictures (up to 50) or all the pictures Press [.] Press 3/4 to select [DELETE MULTI] or [DELETE ALL] and then press [MENU/SET]. [DELETE ALL] > Confirmation screen is displayed. It is possible to delete all pictures except the ones set as favourite when [ALL DELETE EXCEPT] is selected with the [DELETE ALL] set. Pictures are deleted by selecting [YES]. (When [DELETE MULTI] is selected) Press 3/4/2/1 to select the picture, and then press [DISPLAY] to set. (Repeat this step.

) [.] appears on the selected pictures. If [DISPLAY] is pressed again, the setting is cancelled. (When [DELETE MULTI] is selected) Press [MENU/SET]. Confirmation screen is displayed. Pictures are deleted by selecting [YES]. Note Do not turn the camera off while deleting. Use a battery with sufficient battery power or the AC Depending on the number of pictures to be deleted, it may take some time to delete them.



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adaptor (optional). - 43 - Basic Setting the Menu The camera comes with menus that allow you to choose the settings for taking pictures and playing them back 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. Types of menus Menu ! [REC] (P104 to 122) [MOTION PICTURE] (P123 to 126) [PLAYBACK MODE] (P127 to 129) ([PLAYBACK] (P130 to 145) [SETUP] (P48 to 59) Description of settings This menu lets you set the Colouring, Sensitivity, Aspect Ratio, Number of pixels and other aspects of the pictures you are recording. This menu lets you set the [REC MODE], [REC QUALITY], and other aspects for motion picture recording. This menu lets you select the setting of the playback methods such as playback or slide show of only the pictures set as [FAVORITE]. This menu lets you set the Protection, Cropping or Print Settings, etc. of recorded pictures. This menu lets you perform the clock settings, select the operating beep tone settings and set other settings which make it easier for you to operate the camera. - 44 - Basic Switching to other menus e.g.: Switching to the [SETUP] menu from [REC] Mode menu 1 Press [MENU/SET]. 2 Press 2. 3 Press 4 or rotate the rear dial to select the [SETUP] menu icon []. 4 Press 1 or the rear dial. Select a menu item next and set it. - 45 - Basic Setting menu items If you set [MENU RESUME] (P58) in the [SETUP] menu to [ON], the screen shows the last selected menu item when the camera was turned off. It is set to [ON] at the time of purchase. Example: In the [REC] menu, change [AF MODE] from [] (1-area-focusing) to [s] (Face Detection) Press [MENU/SET]. Press 3/4 or rotate the rear dial to select the menu item. Select the item at the very bottom, and press 4 or rotate the rear dial right to move to the next screen. Press 1 or the rear dial.

Depending on the menu item, its setting may not appear or it may be displayed in a different way. Press 3/4 or rotate the rear dial to select the settings. Press [MENU/SET] or the rear dial to set. Close the menu Press [MENU/SET] or press the shutter button halfway. Note 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. - 46 - 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. Items that cannot be used are displayed in grey. Press [Q.MENU] when recording.

Press 3/4/2/1 to select the menu item and the setting and then press [MENU/SET] to close the menu. You can set the following items in detail by pressing [DISPLAY]. [WHITE BALANCE]/[AF MODE] - 47 - Basic About the Setup Menu [CLOCK SET], [ECONOMY] and [AUTO REVIEW] are important items. Check their settings before using them. For details on how to select the [SETUP] menu settings, refer to P46.

U [CLOCK SET] -- 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]. " [DESTINATION]: Travel destination area [WORLD TIME] A Current time of the destination area B Time difference from home area A B [HOME]: Your home area C Current time D Time difference from GMT (Greenwich Mean Time) C D Setup/cancel of summer time [] can be performed by pressing 3 at the time the area is selected. The daylight saving time setting for the home area does not advance the current time. Advance the clock setting by one hour. If you cannot find the travel destination in the areas displayed on the screen, set by the time difference from the home area. - 48 - Basic Departure date and return date of the travel as well as the name of the travel destination can be set. You can display the number of days that have passed when playing back the pictures and stamp it on the recorded pictures with [TEXT STAMP] (P134). [TRAVEL SETUP]: [OFF]: [SET]: -- [TRAVEL DATE] Elapsed days are not recorded. Departure date and return date are set. Elapsed days (how many days after) of the travel are recorded.

The travel date is automatically cancelled if the current date is after the return date. If the [TRAVEL SETUP] is set to [OFF], [LOCATION] will be also set to [OFF]. [LOCATION]: [OFF] [SET]: P103. Travel destination is recorded at the time of recording. For details on how to enter characters, refer to "Entering Text" on The number of days that have passed since the departure date can be printed out using the The travel date is calculated using the date in the clock setting and the departure date you set. "PHOTOfunSTUDIO" bundled software on the CD-ROM (supplied). If you set [WORLD TIME] to the travel destination, the travel date is calculated using the date in the clock setting and the travel destination setting. The travel date setting is memorised even if the camera is turned off. The number of days that have passed since the departure date is not recorded before the departure date. [TRAVEL DATE] cannot be set for motion pictures recorded with [AVCHD].

[LOCATION] cannot be recorded when taking motion pictures. [TRAVEL DATE] cannot be set in the Intelligent Auto Mode. Setting of other Recording Mode will be reflected. This allows you to set the beep and shutter sound. r [BEEP LEVEL]: [s] (Muted) [t] (Low) [u] (High) [] r [BEEP] [] [] [] [SHUTTER VOL.

]: [] (Muted) [] (Low) [] (High) [SHUTTER TONE]: []/[2]/[3] [BEEP TONE]: []/[2]/[3] - 49 - Basic u [VOLUME] Adjust the volume of the speaker to any of 7 levels. When you connect the camera to a TV, the volume of the TV speakers does not change. Up to 3 current camera settings can be registered as custom settings. []/[]/[] [CUST. SET MEM.

] Refer to P96 for details. Certain of the menus can be assigned to the 4 button. You may find it convenient to register a menu that you often use. [Fn BUTTON SET] [PHOTO STYLE]/[ASPECT RATIO]/[QUALITY]/[METERING MODE]/[WHITE BALANCE]/[I.DYNAMIC]/[GUIDE LINE]/[REC AREA]/[REMAINING DISP.] Refer to P104 for details about the [REC] Mode menu. Brightness, colour, or red or blue tint of the LCD monitor/viewfinder is adjusted. [LCD Display]/[VIEWFINDER] 1 2 Select the settings by pressing 3/4, and adjust with 2/1 or the rear dial. Press [MENU/SET] to set. It will adjust the LCD monitor when the LCD monitor is in use, and the viewfinder when the Some subjects may appear differently from actuality on the LCD monitor/viewfinder.



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However, this does not affect the recorded pictures. viewfinder is in use. - 50 - Basic These menu settings make it easier to see the LCD monitor when you are in bright places. [OFF] , [AUTO POWER LCD]: The brightness is adjusted automatically depending on how bright it is around the camera. ... [POWER LCD]: The LCD monitor becomes brighter and easier to see even when taking pictures outdoors. Can be set only when [REC] mode is set. LCD [LCD MODE] The brightness of the pictures displayed on the LCD monitor is increased so some subjects may appear differently from actuality on the LCD monitor.

However, this does not affect the recorded pictures. The LCD monitor automatically returns to normal brightness after 30 seconds when recording in Power LCD Mode. Press any button to make the LCD monitor bright again. The number of recordable pictures decreases in [LCD MODE]. [GUIDE LINE] Set the pattern of the guidelines displayed when taking pictures.

You can also set whether or not to have the recording information displayed when the guidelines are displayed. [REC. INFO.]: [OFF]/[ON] [PATTERN]: []/[] When you align the subject on the horizontal and vertical guidelines or the cross point of these lines, you can take pictures with well-designed composition by viewing the size, the slope and the balance of the subject. The [PATTERN] setting is fixed to [] in the Intelligent Auto Mode.

In [PHOTO FRAME] in Scene Mode, the guideline is not displayed. - 51 - Basic This allows you to set either to display or not display the histogram. [OFF]/[ON] [HISTOGRAM] 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 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 [n0 EV] during exposure compensation or in the Manual Exposure Mode When the flash is activated In [STARRY SKY] or [FIREWORKS] in Scene Mode When the flash is closed When the brightness of the screen is not correctly displayed in dark places When the exposure is not adequately adjusted The histogram is an approximation in Recording Mode. The histogram of a picture may not match in Recording Mode and 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 Multi Playback Playback Zoom When recording motion pictures In [PHOTO FRAME] in Scene Mode Calendar Search When HDMI mini cable is connected [REC AREA] Angle of view for motion picture recording can be checked.

[OFF]/[ON] Motion picture recording area display is only an approximation. Recording area display may disappear when zooming to Tele depending on the picture size It will be fixed to [OFF] during the Intelligent Auto Mode. setting. - 52 - Basic This will switch display between the number of recordable pictures and available recording time. [REMAINING DISP.] [REMAINING SHOTS]: This will display the number of recordable pictures for still pictures.

[REMAINING TIME]: This will display the available recording time for motion pictures. When the Auto Review function is activated or when playing back, white saturated areas appear blinking in black and white. [OFF]/[ON] [HIGHLIGHT] If there are any white saturated areas, we recommend compensating the exposure towards negative (P74) referring to the histogram and then taking the picture again. It may result in a better quality picture.

There may be white saturated areas if the distance between the camera and the subject is too close when taking pictures with the flash. Highlighting does not work during Multi Playback, Calendar Search, Playback Zoom, or Motion Picture Playback. [OFF] [ON] It is possible to memorise the zoom position and the MF (Manual Focus) position when the power is switched [OFF]. [ZOOM RESUME]: It will automatically return to the zoom position when the power was switched [OFF], next time you turn the power [ON]. [OFF]/[ON] [MF RESUME]: It will memorise the MF position set with the Manual Focus.

It will resume the memorised Manual Focus position when you return to Manual Focus Recording. [OFF]/[ON] MF position will be memorised in the following cases: Turning the camera off When switching to a type of focus other than Manual Focus When switched to Playback Mode Zoom position will be set all the way to wide when the [ZOOM RESUME] is set to [OFF]. When [MF RESUME] is set to [OFF], MF position will be the distance focused at the time of Depending on the recording conditions, the memorised MF positions and resumed MF positions might be different. recording in Manual Focus.

[LENS RESUME] - 53 - Basic In Manual Focus, the assistance screen appears on the centre of the screen to facilitate focusing on the subject. [MF ASSIST] [OFF] [ON]: The centre of the screen is enlarged over the whole screen. Refer to P72 for details. You can conserve the battery life by setting these menus. Also, the battery life is conserved by dimming the LCD monitor. p [SLEEP MODE]: The camera is automatically turned off if the camera has not been used for the time selected on the setting. [OFF]/[2MIN.]/[5MIN.]/[10MIN.] ECO [LCD POWER SAVE]: Brightness of the LCD monitor is lowered. The battery life will be conserved by lowering the image quality of the LCD monitor further during the recording.

q [ECONOMY] Excluding the Digital Zoom range. [OFF]/[ON] Press the shutter button halfway or turn the camera off and on to cancel [SLEEP MODE].

[SLEEP MODE] is set to [5MIN.] in the Intelligent Auto Mode. [SLEEP MODE] does not work in the following cases. When using the AC adaptor When connecting to a PC or a printer When recording or playing back motion pictures During a slide show [AUTO DEMO] The effect of the [LCD POWER SAVE] is lower in the Digital Zoom range compared to the The effect of the [LCD POWER SAVE] will not affect the image being recorded. Setting of [LCD MODE]

has priority over the setting of [LCD POWER SAVE] regarding the brightness of the LCD monitor. Optical Zoom range. - 54 - Basic If you selected the Viewfinder in a Recording Mode, the display will automatically switch to the LCD monitor when playing back the pictures. [OFF] [PLAY ON LCD] [ON]: The LCD monitor is turned on when switching from Recording Mode to Playback Mode.

You can save the time it would take to switch the display to the LCD monitor even when using the Viewfinder to record. Set the length of time that the picture is displayed after taking the still picture. o [AUTO REVIEW] [OFF] [1SEC.] [2SEC.] [HOLD]: The pictures are displayed until one of the buttons is pressed.



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[AUTO REVIEW] is activated regardless of its setting in the following cases. When using Auto Bracket [HANDHELD NITE SHOT] in [NIGHT PORTRAIT] [HI-SPEED BURST] and [FLASH BURST] in Scene Mode During the Burst Mode In Intelligent Auto Mode or [PHOTO FRAME] in Scene Mode, the Auto Review function is fixed [AUTO REVIEW] does not work when recording motion pictures. v [NO.RESET] to [2SEC.].

Reset the file number of the next recording to 0001. The folder number is updated and the file number starts from 0001. A folder number between 100 and 999 can be assigned. When the folder number reaches 999, the number cannot be reset. We recommend formatting the card (P58) after saving the data on a PC or elsewhere. To reset the folder number to 100, format the built-in memory or the card first and then use this function to reset the file number. A reset screen for the folder number will then appear. Select [YES] to reset the folder number. - 55 - Basic w [RESET] The [REC] or [SETUP] menu settings are reset to the initial settings. When the [RESET] setting is selected during recording, the operation that resets the lens is also performed at the same time.

You will hear the sound of the lens operating but this is normal and not indicative of malfunctioning. When the Recording Mode settings are reset, data registered with [FACE RECOG.] will be also reset, too. When [SETUP] menu settings are reset, the following settings are also reset. In addition, [ROTATE DISP.] is set to [ON]. The birthday and name settings for [BABY1]/[BABY2] and [PET] in Scene Mode. The [TRAVEL DATE] setting. (Departure date, return date, destination) The [WORLD TIME] setting. The [CUST.

SET MEM.] setting. Position memorised in [LENS RESUME]/[MENU RESUME]. The folder number and the clock setting are not changed. Select the USB communication system after or before connecting the camera to your PC or your printer with the USB connection cable (supplied).

x [USB MODE] y [SELECT ON CONNECTION]: Select either [PC] or [PictBridge(PTP)] if you connected the camera to a PC or a printer supporting PictBridge. { [PictBridge(PTP)]: Set after or before connecting to a printer supporting PictBridge. z [PC]: Set after or before connecting to a PC. Set to match the colour television system in each country. \ [VIDEO OUT] [NTSC]: [PAL]: Video output is set to NTSC system.

Video output is set to PAL system. This will work when the AV cable (optional) or HDMI mini cable (optional) is connected. Set to match the type of TV. [TV ASPECT] [W]: [X]: When connecting to a 16:9 screen TV. When connecting to a 4:3 screen TV. This will work when the AV cable (optional) is connected. - 56 - Basic Set the format for the HDMI output when playing back on the HDMI compatible high definition TV connected with this unit using the HDMI mini cable (optional). [AUTO]: The output resolution is automatically set based on the information from the connected TV. [1080i]: The interlace method with 1080 available scan lines is used for output. [720p]: The progressive method with 720 available scan lines is used for output.

[576p]1/[480p]2: The progressive method with 576/480 available scan lines is used for output. [HDMI MODE] 1 When [VIDEO OUT] is set to [PAL] 2 When [VIDEO OUT] is set to [NTSC] If the images are not output on the TV when the setting is [AUTO], match with the image format your TV can display, and select number of effective scanning lines. (Please read the operating instructions for the TV.) This will work when the HDMI mini cable (optional) is connected. Set so this unit can be controlled by the remote control of the VIERA by automatically coupling this unit with the VIERA Link compatible equipment using HDMI mini cable (optional). [VIERA Link] [OFF]: [ON]: Operation is performed with the buttons on this unit. Remote control operation of the VIERA Link compatible equipment is enabled. (Not all operations are possible) Button operation of the main unit will be limited. This will work when the HDMI mini cable (optional) is connected. Refer to P148 for details.

- 57 - Basic Setup the output method for 3D pictures. [[3D PLAYBACK]]:]: Set when connecting to a 3D compatible television. Set when connecting to a television not compatible with 3D. Set this when you would like to view pictures in 2D (conventional image) on a 3D compatible television. [This will work when the HDMI mini cable (optional) is connected.

Refer to P150 for the method to playback 3D pictures in 3D. Set the screen that is displayed when the mode dial is set to [[], [], [], [] and [].] [SCENE MENU]], [OFF]: The recording screen in the currently selected Advanced Scene Mode or Scene Mode appears. [AUTO]: The Advanced Scene Mode or Scene Mode menu screen appears. The last operated menu position is saved even if the camera is [MENU RESUME] turned off.

[OFF]/[ON] It is possible to check which version of firmware is on the camera. The built-in memory or card is formatted. Formatting irretrievably deletes all the data so check the data carefully before formatting. [VERSION DISP.] [FORMAT] Use a battery with sufficient battery power or the AC adaptor (optional) when formatting. Do not If a card has been inserted, only the card is formatted. To format the built-in memory, remove 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 you cannot format, contact the dealer or your nearest Service Centre. the card.

turn the camera off during formatting. - 58 - Basic ~ [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 Displays the amount of jitter the camera has detected. ([STABILIZER DEMO.]) The camera's features are displayed as slide shows. ([AUTO DEMO]) [STABILIZER DEMO.] DEMO [DEMO MODE] A Amount of jitter B Amount of jitter after correction A [AUTO DEMO]: [OFF]/[ON] B The Stabilizer function is switched between [ON] and [OFF] every time [MENU/SET] is pressed [STABILIZER DEMO.] is an approximation. [AUTO DEMO] is not output to the television.

Press [MENU/SET] to close [AUTO DEMO]. during the [STABILIZER DEMO.]. - 59 - Recording Recording About the LCD Monitor/Viewfinder Press [DISPLAY] to change. When the menu screen appears, the [DISPLAY] button is not activated.

During Playback Zoom, while playing back Motion Pictures and during a Slide Show, you can only select E or G. In Recording Mode A B C D Normal display1, 2 No display No display (Recording guideline)1 Out-of-frame display2, 3 A B D C In Playback Mode E Normal display F Display with recording information1 G No display4 E F G - 60 - Recording 1 If the [HISTOGRAM] in [SETUP] menu is set to [ON], histogram will be displayed. 2 You can switch between available recording time and number of recordable pictures by setting [REMAINING DISP.



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] in [SETUP] menu. 3 When the number of pictures remaining is more than 1000 or the time remaining in recording motion pictures is more than 1000 seconds, [] is displayed.

4 Name of the registered person in [FACE RECOG.] is displayed when [DISPLAY] is pressed. Note In Intelligent Auto Mode, you cannot switch to out-of-frame display. Out-of-frame display Recording information is displayed on the bottom and right edges of the screen. You can therefore concentrate on the subject when taking pictures without being obstructed by information displayed on the screen. - 61 - Recording Applicable modes: Taking Pictures with the Zoom Using the Optical Zoom/Using the Extra Optical Zoom (EZ)/Using the Intelligent Zoom/Using the Digital Zoom You can zoom-in to make people and objects appear closer or zoom-out to record landscapes in wide angle. To make subjects appear even closer (maximum of 46.9k), do not set the picture size to the highest setting for each aspect ratio (X/Y/W/). To make subjects appear closer use (Tele) Rotate the zoom lever towards Tele. To make subjects appear further away use (Wide) W T Rotate the zoom lever towards Wide.

Changing the zoom speed You can operate the zoom at 2 speeds depending on the rotation angle of the zoom lever. The zoom speed becomes slower when the rotation angle is small and the zoom speed becomes faster when the rotation angle is large. A Fast B Slow Zoom speed cannot be changed in recording motion pictures. W T Storing the zoom position (Zoom resume) Refer to P53 for details. - 62 - Recording Types of zooms Feature Maximum magnification Picture quality Conditions Optical Zoom 24k No deterioration None Extra Optical Zoom (EZ) 46.9k No deterioration [PICTURE SIZE] with selected. (P106) is Screen display A[Feature Intelligent Zoom W T] is displayed. Digital Zoom Maximum Approximately 1.3 times the Optical magnification Zoom or Extra Optical Zoom Picture quality Conditions No noticeable deterioration [I.RESOLUTION] (P119) on the [REC] menu is set to [i.

ZOOM]. 4 times the Optical Zoom, Extra Optical Zoom, or Intelligent Zoom The higher the magnification level, the greater the deterioration. [DIGITAL ZOOM] (P120) on the [REC] menu is set to [ON]. W W T T T T Screen display B[W W T T W W] is displayed. C The Digital Zoom range is displayed.

When using the zoom function, an estimate of the focus range will appear in conjunction with the zoom display bar. [Example: 0.3 m (0.99 ft.)] The magnification level differs depending on [PICTURE SIZE] and [ASPECT RATIO] setting. - 63 - Recording The indicated zoom magnification is an approximation. "EZ" is an abbreviation of "Extra Optical Zoom". It is possible to take more magnified pictures The lens barrel extends or retracts according to the zoom position. Take care not to interrupt When you rotate the zoom lever, you may hear some sound from the camera or the camera When using the Digital Zoom, we recommend using a tripod and the Self-timer (P73) for taking The Intelligent Zoom cannot be used in the following cases. In [MOTION DEBLUR] in Intelligent Auto Mode In Macro Zoom Mode In [PIN HOLE] in Creative Control Mode In [HANDHELD NITE SHOT] in [NIGHT PORTRAIT] In [HIGH SENS.], [HI-SPEED BURST], [FLASH BURST] or [3D PHOTO MODE] in Scene The Extra Optical Zoom cannot be used in the following cases. In [MOTION DEBLUR] in Intelligent Auto Mode In Macro Zoom Mode In [PIN HOLE] in Creative Control Mode In [HANDHELD NITE SHOT] in [NIGHT PORTRAIT] In [HIGH SENS.], [HI-SPEED BURST], [FLASH BURST], [PHOTO FRAME] or [3D PHOTO [DIGITAL ZOOM] cannot be used in the following cases. In Intelligent Auto Mode In [PIN HOLE], [FILM GRAIN] or [MINIATURE EFFECT] in Creative Control Mode In [HANDHELD NITE SHOT] in [NIGHT PORTRAIT] In [HIGH SENS.], [HI-SPEED BURST], [FLASH BURST], [PHOTO FRAME] or [3D PHOTO MODE] in Scene Mode Mode pictures.

may shake. This is not a malfunction. the motion of the lens barrel while the zoom lever is rotated. with the optical zoom. Note When recording motion pictures MODE] in Scene Mode - 64 - Recording Applicable modes: Taking Pictures using the Flash A To open the flash Press the flash open button. B To close the flash Press the flash until it clicks. Be sure to close the flash when not in use. The flash setting is fixed to [OE] while the flash is closed. Note Be careful not to catch a finger when closing a flash bulb. Switching to the appropriate flash setting Set the flash to match the recording. Open the flash. Select [FLASH] in the [REC] Mode menu. (P46) Press 3/4 to select a mode and then press [MENU/SET]. Exit the menu after it is set. - 65 - Recording Description of settings The flash is automatically activated when the recording conditions make it necessary.

The flash is automatically activated when the recording conditions make it necessary. : It is activated once before the actual recording to reduce the red-eye AUTO/Red-Eye phenomenon (eyes of the subject appearing red in the picture) and then Reduction activated again for the actual recording. Use this when you take pictures of people in low lighting conditions. : Forced flash ON The flash is activated every time regardless of the recording conditions. : Use this when your subject is back-lit or under fluorescent light.

Forced ON/Red-Eye Reduction When taking pictures against a dark background landscape, this feature will slow the shutter speed when the flash is activated. Dark background : landscape will appear brighter. Simultaneously it reduces the red-eye Slow sync./Red-Eye phenomenon. Reduction Use this when you take pictures of people in front of a dark background. The flash is not activated in any recording conditions. OE: Forced flash OFF Use this when you take pictures in places where the use of the flash is not permitted. : AUTO The flash is activated twice. The subject should not move until the second flash is activated. Flash interval depends on the brightness of the subject.

[RED-EYE REMOVAL] (P122) on the [REC] Mode menu is set to [ON], [] appears on the flash icon. Item - 66 - Recording Available flash settings by Recording Mode The available flash settings depend on the Recording Mode. (: Available, -: Not available, : Initial setting of Advanced Scene Mode and Scene Mode) 1 -- 2 3 4

----- OE -----
----- OE ----- 2 3 : ; 9 ----- 5 4 6 8 7 ----- 1 1 [] is displayed.



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