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You can read the recommendations in the user guide, the technical guide or the installation guide for PANASONIC DMC-FZ72 EFK. You'll find the answers to all your questions on the PANASONIC DMC-FZ72 EFK in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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User guide PANASONIC DMC-FZ72 EFK
Operating instructions PANASONIC DMC-FZ72 EFK
Instructions for use PANASONIC DMC-FZ72 EFK
Instruction manual PANASONIC DMC-FZ72 EFK

Panasonic

Operating Instructions
for advanced features

Digital Camera

Model No. DMC-FZ72

LUMIX

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

VQT5B87

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.....e □□ Camera handling Keep the camera away from excessive vibration, force, or pressure.

Avoid using the camera under the following conditions, which □□ may damage the lens, LCD monitor, viewfinder, or camera body. This may also cause the camera to malfunction or prevent recording. ••Dropping or hitting the camera against a hard surface ••Pushing with excessive force on the lens, LCD monitor, or viewfinder When camera is not in use or when using the playback □□ feature, ensure that the lens is in the stored position, with lens cap on. 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. The camera is not dust resistant, splash resistant, or waterproof. Avoid using the camera in places with excessive dust or sand, or where water can come into contact with the camera. Avoid using the camera under the following conditions, □□ which present a risk that sand, water, or foreign material may enter the camera through the lens or openings around buttons. Be especially careful because these conditions may damage the camera, and such damage may not be repairable. ••In extremely dusty or sandy places ••In the rain or by the shore, where the camera may be exposed to water □□ Condensation (When the lens, the LCD monitor, or viewfinder, is fogged up) Condensation may occur when the camera is exposed to □□ sudden changes of temperature or humidity. Avoid these conditions, which may make the lens, LCD monitor, or viewfinder, dirty, cause mould, or damage the camera. If □□ condensation does occur, turn off the camera and wait about two hours before using it. Once the camera adjusts to the surrounding temperature, the fogging will clear naturally. -7- VQT5B87 Preparations Before use □□ Always take a test shot first □□ compensation for missed shots No □□ Carefully observe copyright laws Before important events when you will use the camera (at weddings, for example), always take a test shot to make sure that pictures and sound record correctly.

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We cannot compensate for missed shots if technical problems with the camera or card prevent recording. Unauthorised use of recordings which contain works with copyright for purposes other than personal use is prohibited under copyright law.

Recording of certain material may be restricted even for the purpose of personal use. □□ Also refer to "Usage cautions and notes" (→221) Please note that the actual controls and components, menu items, and other □□ information for your digital camera may differ from those in the illustrations and screens provided in this manual. Some parts of displays, for example some of the icons, may be omitted from screens □□ illustrated in this manual. Recording mode icons □□ In recording modes that show icons in black, you can select and execute indicated menus and functions. will differ depending on the recording modes registered under custom settings.

-8- VQT5B87 Preparations 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. A □□ lens hood is not supplied with this unit. SILKYPIX Developer Studio is not provided on the supplied CD-ROM. Download □□ this software from the website and install it on your computer to use. (→192) 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. Please dispose of all packaging appropriately.

□□ Keep small parts in a safe place out of the reach of children. □□ □□Optional accessories ••Cards are 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.) -9- VQT5B87 Preparations Names and Functions of Main Parts 1 2 3 4 1 Self-timer indicator (→86) / AF Assist Lamp (→151) Illuminates when the self-timer is set or when the Auto Focus is operated in dark locations. Press [ ] to open the flash. 2 Flash (→78) 3 Lens barrel 4 Lens (→7, 223) 5 6 7 8 5 Tripod mount (→223) Do not attach to a tripod with a 5.5 mm (0.22 inch) or longer screw.

Doing so may damage this unit. Open this door to insert and remove a card or battery. 6 Card/Battery door (→21, 207) 7 Release lever (→21) 8 DC coupler cover (→207) Use the AC adaptor (optional) and DC coupler (optional) specifically for this camera. 9 9 [HDMI] socket (→184, 185) Do not connect any other cables except the HDMI mini cable. Doing so may cause malfunction.

10 [AV OUT/DIGITAL] socket (→184, 193, 197) 10 The □□ illustrations and screens in this manual may differ from the actual product. - 10 - VQT5B87 Preparations Names and Functions of Main Parts 11 12 13 14 15 16 17 11 22 11 Shoulder strap eyelet (→16) 21 20 19 18 12 Speaker (→61) Be careful not to cover the speaker with your finger. Doing so may make sound difficult to hear. 13 Stereo microphone (→28, 45) 14 Motion picture button (→45) Record motion pictures. 15 Shutter button (→30) 16 Zoom lever (→75) Use the lever to zoom in and enlarge a distant subject.

17 [ ] (Burst Mode) button (→83) 18 [FOCUS] button (→42, 45, 50, 99, 104) 19 Power lamp (→29) 20 Camera [ON/OFF] switch (→29) Turns the camera on or off. 21 Mode dial (→29) Use this to select the recording mode. Do not attach other than the external flash. We recommend using Panasonic flash lights (part numbers: DMW-FL220, DMW-FL360, DMW-FL360L, and DMW-FL500). 22 Hot shoe (→205) - 11 - VQT5B87 Preparations Names and Functions of Main Parts 23 24 25 26 27 28 29 30 31 32 34 23 LCD monitor (→63, 208) 24 [ ] (Flash open) button (→78) 25 Diopter adjustment dial (→13) 26 Viewfinder ([LVF]) (→13) 27 [LVF] button (→13) 33 Turn the dial to adjust the focus in the viewfinder. In this manual, "viewfinder" is used to indicate the LVF. Use this to switch display between viewfinder and LCD monitor. Use to lock the exposure and focus (→105). Also operates as a function button (→107). 28 [AF/AE LOCK (Fn1)] button 29 Rear dial (→14) 30 [AF/AF /MF] button (→95, 100, 103) Switches the [Focus] setting.

31 [ ] (Playback) button (→31) Use this to select the recording mode or playback mode. 32 Cursor button / [MENU/SET] button (→14) 33 [(Q.MENU)] (Delete/Cancel/Quick menu) button 34 [DISP.] button (→74, 161) Use this to change display. You can display the Quick Menu (→60) and erase pictures (→55). You can also use this button to return to the previous screen while a menu is displayed (→58). - 12 - VQT5B87 Preparations Names and Functions of Main Parts Viewfinder □□ Switching the LCD monitor/Viewfinder ([LVF]) Press [LVF] button You can switch between LCD monitor display and Viewfinder display. ••For each of recording mode and playback mode, whether pictures were displayed on the LCD monitor or the viewfinder are memorised. It is possible to selectively use the viewfinder for recording pictures and the LCD monitor for playing back pictures. (Setting is memorised even if the camera is turned off.

) ••If [Play on Monitor] of the [Setup] menu is set to [ON], pictures will be played back on the LCD monitor after switching to playback mode. (→69) □□ Diopter adjustment Adjust the diopter to suit your vision so that you can see the Viewfinder clearly. Look at the display on the Viewfinder and rotate the diopter adjustment dial to where the screen is in focus. Diopter adjustment dial - 13 - VQT5B87 Preparations Names and Functions of Main Parts Cursor button / [MENU/SET] button [MENU/SET] button Mainly used to display menu screens or to set menu items. (→57) Cursor button This button is used to move the cursor on the menu screens and for other functions.

(→57) You can perform the following operations while recording. [ISO] button [WB] button [ ] button Displays the setting screen for ISO Sensitivity. (→88) Displays the White Balance setting screen. (→90) Displays the setting screen for self-timer. (→86) Displays the screen of the function registered to the corresponding [Fn] button.

(→107) [Fn2] button In □□ this manual, the button that is to be used is indicated by . Rear Dial There are 2 ways to operate the rear dial, rotating left or right, and deciding by pressing. Rotating: Selection of items or setting of values is performed during the various settings. Pressing: Operations that are the same as [MENU/ SET] button, such as determine settings, etc.

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, are performed during the various settings. - 14 - VQT5B87 Preparations Attaching the Lens Cap/Shoulder Strap Attaching the Lens Cap When you turn the camera off or carry the camera, attach the lens cap to protect the surface of the lens. Pass the string through the hole on the camera Shoulder strap eyelet Pass the same string through the hole on the lens cap ••Pass the lens cap through the loop of the string and tighten it. Attach the lens cap Pinch here to attach or detach the cap. Do □□ not hang or swing around this unit. Make sure to detach the lens cap when turning this unit on.

□□ Be □□ careful not to lose the lens cap. Be □□ careful that the lens cap string does not become entangled with the shoulder strap. - 15 - VQT5B87 Preparations Attaching the Lens Cap/Shoulder Strap Attaching the Shoulder Strap We recommend attaching the shoulder strap when using the camera to prevent it from dropping. Pass the shoulder strap through the hole at the shoulder strap eyelet ••Attach the shoulder strap so that the "LUMIX" Logo is on the outside. Pass the shoulder strap through the stopper and fasten the shoulder strap ••Attach the shoulder strap to the other side of the camera being careful not to twist it. Pull the shoulder strap 2 cm (0.066 feet) or more. Make sure that the shoulder strap does not come loose. □□ - 16 - VQT5B87 Preparations Charging battery Always charge before first use! (battery shipped uncharged) □□ About batteries that you can use with this unit It has been found that counterfeit battery packs which look very similar to the genuine products are made available to purchase in some markets. Some of these battery packs are not adequately provided 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. ••Use the dedicated charger and battery. Position the battery contacts to meet the charger, then insert the battery into the charger Plug the charger into the AC power Plug-in type □□ Battery Inlet □□ type Charging light ([CHARGE]) On: Charging in progress Off: Charging complete •• The AC mains lead does not fit entirely into the AC input terminal.
A gap will remain. Charger (model-specific) We □□ recommend charging in a location where the ambient temperature is between 10 °C and 30 °C (50 °F to 86 °F). If light is flashing: ••Charging may take longer than normal if battery temperature is too high or too low (charging may not be completed). ••Battery/charger connector is dirty. Clean with a dry cloth.
Detach the battery after charging is completed The □□ battery charger is in the standby condition when the AC power is supplied. The primary circuit is always "live" as long as the battery charger is connected to an electrical outlet. - 17 - VQT5B87 Preparations Charging battery □□ Notes on charging time Charging time Approx. 155 min ••The charging time indicated above is the time required for charging in case when the battery is completely used up. The time required for charging differs depending on conditions of battery usage. Charging takes longer in cases when temperatures are either high or low and when the battery has not been used for a long period of time. Always use genuine Panasonic batteries. □□ If □□ you use other batteries, we cannot guarantee the quality of this product. Remove battery from camera after use. □□ To □□ remove the battery, turn the camera off and wait until the LUMIX indicator on the •• Keep the battery in a plastic bag, making sure that it is kept away from metallic objects (such as clips) when carrying or storing the battery.

LCD monitor goes off. (Failure to wait may cause the camera to malfunction and may damage the card or recorded data.) You □□ cannot charge the battery of this unit using a USB connection cable. Remaining battery When using the camera, the remaining battery capacity is displayed. Remaining battery (flashes red) If the battery mark flashes red, recharge or replace battery. (The power lamp also blinks) - 18 - VQT5B87 Preparations Charging battery Guidelines for number of recordable pictures and operating time 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 [Monitor Luminance]. ••When operations such as flash and zoom are used repeatedly.
□□ Recording still pictures (When using LCD monitor) Number of recordable pictures Recording time Approx. 400 pictures Approx. 200 min By CIPA standard Recording conditions by CIPA standard □□ CIPA is an abbreviation of "Camera & Imaging Products Association". ••[Program AE] Mode ••Temperature: 23 °C (73.4 °F)/Humidity: 50%RH when LCD monitor is on.
••Using a Panasonic SDHC Memory Card. ••Using the supplied battery. ••Starting recording 30 seconds after the camera is turned on. (When [Stabilizer] is set to [ON]) ••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. Number reduced if intervals are longer (e.g. to approx. one quarter for 2-minute intervals under the above conditions). - 19 - VQT5B87 Preparations Charging battery □□ Recording motion pictures (When using LCD monitor) [Rec Format] [Rec Quality] Available recording time Actual available recording time stopping recording and using zoom. [FSH] Approx. 160 min Approx. 80 min [AVCHD] [SH] Approx. 180 min Approx.*

*90 min [MP4] [FHD] Approx. 160 min Approx. 80 min * □ he time you can actually record when repeatedly turning the camera on and off, starting and T Recording conditions □□ ••Temperature 23 °C (73.4 °F), humidity 50%RH You □□ can continuously record a motion picture in [MP4] for up to 29 minutes 59 seconds or approx. 4 GB. (Since recording in [MP4] with [FHD] creates larger files, the recording time for such motion pictures will be shorter than 29 minutes 59 seconds.) You □□ can continuously record [AVCHD] motion pictures for up to 29 minutes 59 seconds. □□ Viewing pictures (When using LCD monitor) Playback time Approx.*

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330 min If □□ available battery power is significantly reduced, battery is reaching end of lifespan. Please purchase a new battery. - 20 - VQT5B87 Preparations Inserting and Removing the Card (optional)/ the Battery ••Turn this unit off and confirm that the lens barrel is retracted. ••We recommend using a Panasonic card. Slide the release lever to the [OPEN] position and open the card/battery door Battery: Being careful about the battery orientation, insert all the way and then check that it is locked by lever. ••Pull the lever in the direction of the arrow to remove the battery. Do not touch the terminals on the back of the card. 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. Lever Close the card/battery door and slide the release lever to the [LOCK] position - 21 - VQT5B87 Preparations Inserting and Removing the Card (optional)/the Battery Remove the battery after use. (The battery will be exhausted if left for a long period of □□ Keep the Memory Card out of reach of children to prevent swallowing. □□ Remove the card or battery after turning this unit off, with the power lamp completely □□ time after being charged.) turned 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) and DC coupler (optional) instead of the battery, □□ refer to (→207). - 22 - VQT5B87 Preparations 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 (access indication) When using the card (access indication*) * □ he access indication is displayed in red when pictures are T being recorded on the built-in memory (or the card). □□ Built-in memory (approx. 200 MB) Pictures may be copied between cards and the built-in memory. (→182) □□ The □□ access time for the built-in memory may be longer than the access time for a □□ Compatible memory cards (optional) Type of Card SD Memory Cards SDHC Memory Cards SDXC Memory Cards Capacity 8 MB – 2 GB 4 GB – 32 GB 48 GB, 64 GB card. The following SD standard-based cards (Panasonic brand recommended) can be used.*

Notes •• Can be used with devices compatible with the respective formats. •• Before using SDXC Memory Cards, check that your computer and other devices support this type of card. http://panasonic.net/avc/sdcard/information/SDXC.html •• Use a card of SD Speed "Class 4" or higher for recording motion pictures. •• Only the cards listed on the left with the given capacities are supported. * □ D speed class refers to a specification for sustained write speeds. Confirm the SD speed by S checking the card label or other card related materials. (Example) ••Latest information: http://panasonic.jp/support/global/cs/dsc/ (This site is available in English only.) - 23 - VQT5B87 Preparations About the Built-in Memory/the Card picture writing, reading, deletion, or formatting), do not turn off the camera or remove the battery, card, AC adaptor (optional) or DC coupler (optional). Do not subject the camera to vibrations, 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. Please reformat the card with this camera if it has already been □□ formatted with a computer or another device. (→73) If □□ the write-protect switch is set to "LOCK", the card cannot be used to record or delete pictures, and it cannot be formatted. It □□ is recommended that you copy important pictures to your computer (as electromagnetic waves, static electricity, or faults may cause data Switch to be damaged). Make sure that there are no foreign materials such as dust or water □□ on the terminals on the back of the card. Do not touch the terminals with your hand. Doing so may cause this unit to malfunction. While the camera is accessing the card or built-in memory (for an operation such as □□ Recording capacity guidelines (pictures/recording time) □□ About the display of the number of recordable pictures and available recording time •• Switching between the display of number of recordable pictures and available recording time can be performed in the [Remaining Disp.] (→66) in the [Setup] menu. •• The number of recordable pictures and the available recording time are an approximation. (These vary depending on the recording conditions and the type of card.) Number of recordable pictures Available recording time □□ Recording picture capacity (still pictures) [Picture Size] 16M 5M 0.3M Built-in memory 33 74 1140 2 GB 300 650 10050 32 GB 4910 10620 162960 64 GB 9880 21490 247150 ••When the number of recordable pictures exceeds 99,999, "+99999" is displayed. - 24 - VQT5B87 Preparations About the Built-in Memory/the Card □□ Recording time capacity (motion pictures) When [Rec Format] is [AVCHD] [Rec Quality] [FSH] [SH] 2 GB 15m00s ([h], [m] and [s] indicate "hour", "minute" and "second".) 32 GB 4h10m00s 64 GB 8h27m00s When [Rec Format] is [MP4] [Rec Quality] [FHD] [HD] [VGA] Built-in memory — — 5m00s 2 GB 12m00s 23m00s 52m00s 32 GB 3h23m00s 6h28m00s 14h14m00s 64 GB 6h51m00s 13h05m00s 28h48m00s ••The time displayed in the table is the total time. ••You can continuously record a motion picture in [MP4] for up to 29 minutes 59 seconds or approx. 4 GB.*

(Since recording in [MP4] with [FHD] creates larger files, the recording time for such motion pictures will be shorter than 29 minutes 59 seconds.) ••You can continuously record [AVCHD] motion pictures for up to 29 minutes 59 seconds. - 25 - VQT5B87 Preparations Setting the clock The clock is not set when the camera is shipped. ••Before using the camera, remove the lens cap. Turn the camera on ••The power lamp lights when you turn this unit on. ••If the language select screen is not displayed, proceed to step . Press [MENU/SET] Press to select the language, and press [MENU/SET] ••The [Please set the clock] message appears. Press [MENU/SET] Press to select the items (year, month, day, hour, minute, display order or time display format), and press to set : Time at the home area : Time at the travel destination ••To cancel → Press [(Q.MENU)] button. : : Press [MENU/SET] to set Press [MENU/SET] - 26 - VQT5B87 Preparations Setting the clock 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].

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If □□ the clock is set, the correct date can be printed even if the date is not displayed on the screen of the camera. To change time setting When resetting date and time, select [Clock Set] from the [Setup] menu or [Rec] menu. ••Clock settings will be saved for approx. 3 months even after the battery is removed, provided a fully charged battery was installed in the camera for 24 hours beforehand. Select [Clock Set] from the [Setup] menu or [Rec] menu ••For details about how to set the menu (→57) Set the date and time (Perform steps - .
(→26)) - 27 - VQT5B87 Preparations 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, microphone, speaker or lens etc. ••Be careful not to cover the speaker with your finger. Doing so may make sound difficult to hear. (→11) ••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. AF Assist Lamp Stereo microphone Holding the camera vertically □□ Direction Detection Function ([Rotate Disp.]) Pictures recorded with the camera held vertically are played back vertically (rotated). (Only when [Rotate Disp.] (→72) 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 cannot be displayed in portrait orientation. ••You cannot record 3D pictures in vertical orientation. Preventing jitter (camera shake) When the Jitter alert [ ] appears, use [Stabilizer] (→150), a tripod or the Self-timer (→86).

••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]) - When the shutter speed is slowed in [Min. Shtr Speed] - 28 - VQT5B87 Basics Sequence of operations Turn the camera on ••The power lamp lights when you turn this unit on. 1 Set to the desired recording mode Rotate the mode dial slowly to select the → desired mode. □□Basic [Program AE] Mode [Intelligent Auto] Mode Take pictures with automatic shutter speed and aperture value settings. (→32) Take pictures with automatic settings. (→36) 2 □□Advanced [Aperture-Priority] Mode Determine aperture, then record pictures. (→108) [Shutter-Priority] Mode [Manual Exposure] Mode [Creative Video Mode] [Custom] Mode [Panorama Shot] Mode [Scene Mode] [Creative Control] Mode Determine shutter speed, then record pictures.
(→109) Determine aperture and shutter speed, then record pictures. (→110) Record motion picture with manual settings. (→132) Record pictures using pre-registered settings. (→134) Record panorama pictures. (→121) Take pictures using Scene modes.
(→124) Take pictures by selecting your preferred picture effect. (→112) (Continued on the next page) - 29 - VQT5B87 Basics Sequence of operations Use the zoom lever to adjust the range of the picture to be taken (→75) 3 Capture a wider area (wide-angle) Enlarge the subject (telephoto) Aim the camera and shoot □□ Taking still pictures Focus display ress the shutter button halfway to focus P □ Press the shutter button fully to take the picture 4 Press halfway (press lightly to focus) Press fully (press the button all the way to record) □□ Recording motion pictures □ ress the motion picture button to start recording P □ ress the motion picture button again to finish P recording (Continued on the next page) - 30 - VQT5B87 Basics Sequence of operations Play back pictures □ ress the Playback button P 5 □ ress P to select a picture to be displayed □□ Viewing motion pictures Turn the camera off Select a picture with the motion picture icon, and press . 6 - 31 - VQT5B87 Basics Taking pictures with your own settings [Program AE] Mode Take pictures with automatic shutter speed and aperture value settings. Using the [Rec] menu to change settings and set up your own recording environment. Set to [ ] ([Program AE] Mode) Take a picture Press halfway (press lightly to focus) Press fully (press the button all the way to record) □□ Adjusting the focus and checking the exposure Aperture value Shutter speed ISO sensitivity Focus display (□ hen focus is aligned: illuminated W When focus is not aligned: flashing) AF area ••Aim the AF area at the point you want to focus on.
••The shortest recording distance varies depending on the zoom ratio. Check the focus range display on the screen. (→101) ••Aperture value and shutter speed are displayed in red when correct exposure is not achieved. (Except when using a flash) ••If aperture and shutter speed are shown in red, you do not have appropriate exposure. You should either use the flash, change [Sensitivity] settings or set [Min. Shtr Speed] to a slower speed. - 32 - VQT5B87 Basics Taking pictures with your own settings [Program AE] Mode Programme Shift The function for maintaining the same exposure (brightness) while changing the shutter speed and aperture value combination is called "Programme Shift". You can use "Programme Shift" to take pictures by adjusting the shutter speed and aperture value even in [Program AE] Mode. Press the shutter button halfway ••The shutter speed and aperture value are displayed on the screen. Rotate the rear dial while the values are displayed (approximately 10 seconds) to select a combination of shutter speed and aperture value Exposure meter Shutter speed (Automatic adjustment) Aperture value (Automatic adjustment) [ ] is displayed during Programme Shift (while the combination of a shutter speed and aperture value is being changed).

••To cancel Programme Shift → □ otate the rear dial until the Programme Shift indicator goes off ([ ]). R When the camera is turned off, Programme Shift is cancelled. □□ Programme Shift is cancelled if more than 10 seconds pass after Programme Shift is □□ Depending on the brightness of the subject, Programme Shift may not be activated. □□ Programme Shift is available in all [Sensitivity] settings except [ ]. □□ activated. However, the Programme Shift setting is memorised. - 33 - VQT5B87 Basics Taking pictures with your own settings [Program AE] Mode □□ Example of Programme Shift 1 (Aperture value) 2.0 2.8 4.0 5.
6 8.

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0 1/1 1/4 1/15 1/60 2 3 4 5 6 7 8 9 10 11 12 13 14 (Ev) 15 16 17 18 19 20 1/2 1/8 1/30 1/250 1/1000 1/4000 (Shutter speed) 1/125 1/500 1/2000 Programme Shift amount Programme Shift diagram Programme Shift limit * □ V is an abbreviation of [Exposure Value], a unit indicating the amount of exposure. The EV E changes with the aperture value or the shutter speed. - 34 - VQT5B87 Basics How to adjust focus When [AF Mode] is set to [ ] (1-area-focusing), focus on the AF area in the centre of the picture. If a subject you want to record is not in the centre, follow the steps below.*

First adjust focus according to subject Align the AF area with the subject Focus display (□ hen focus is aligned: illuminated W When focus is not aligned: flashing) AF area (□ hen focus is aligned: green W When focus is not aligned: red) Hold down halfway Return to desired composition Press fully AF area □□ Subjects and environments that make focusing difficult Subjects/environments which may make focusing difficult: ••Fast-moving or extremely bright objects, or objects with no colour contrast. ••Taking pictures through glass or near objects emitting light. ••In the dark, or with significant jitter. ••When too close to object or when taking pictures of both distant and close objects together in the same picture. (→101) The focus display flashes and beep sounds when focus is not aligned.

Focus display Use the focus range displayed in red as a reference. Even if the focus display is lit, the camera may be unable to bring the subject into focus if it is out of range. The □□ AF area display may be larger depending on recording conditions such as dark locations or zoom ratio. - 35 - VQT5B87 Basics Taking pictures with automatic settings [Intelligent Auto] Mode This mode is recommended for those who want to point and shoot or beginners as the camera optimises settings to match the subject and recording environment. Set to [ ] ([Intelligent Auto] Mode) Take a picture Press halfway (press lightly to focus) Press fully (press the button all the way to record) Focus display (□ hen focus is aligned: illuminated W When focus is not aligned: flashing) AF area ••The AF area 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 (→42). The □□ following functions are activated automatically. ••Scene Detection/Backlight Compensation/Intelligent ISO sensitivity control/ Auto White Balance/Face Detection/[AFS]/[Quick AF]/[i.

*Dynamic]/[i.Resolution]/ [i.ZOOM]/[Stabilizer]/[AF Assist Lamp]/[Red-Eye Removal]/[Continuous AF] Image quality is fixed to [ ]. □□ - 36 - VQT5B87 Basics Taking pictures with automatic settings [Intelligent Auto] Mode Automatic Scene Detection Camera reads scene when pointed at subject, and makes optimum settings automatically. When taking pictures [i-Portrait] [i-Baby]*1 [i-Scenery] [i-Sunset] [i-Night Portrait]*2 (Only when the flash is opened) [i-Night Scenery]*2 [i-Macro] [iHandheld Nite Shot]*3 When scene does not correspond to any of the above The icon of scene detected When recording motion pictures (→45) [i-Portrait] [i-Scenery] [i-Low Light] [i-Macro] When scene does not correspond to any of the above *1 □ hen children (that are registered in the camera with Face Recognition) under 3 years old are W *2 We recommend using a tripod and the self-timer. *3 When [iHandheld Nite Shot] is [ON]. Depending on recording conditions, different scene types may be determined for the □□ If □□ desired scene type is not selected, we recommend manually selecting the When [□□ same subject. appropriate scene mode.], [ ] or [ ] is detected, Face Detection is activated, and the focus and exposure are adjusted for the recognised faces. If □□ a tripod is used, for instance, and the camera has judged that camera shake is minimal when 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 [ ]. recognised. □□ About Backlight Compensation Backlight compensation is automatically activated in [Intelligent Auto] mode.

Backlight is a condition where a light shines from behind a subject. 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. When the camera detects backlight, [ ] is displayed on the LCD monitor. (Depending on the backlighting conditions, backlighting may not be detected correctly.) - 37 - VQT5B87 Basics Taking pictures with automatic settings [Intelligent Auto] Mode Defocusing the background You can also use [Intelligent Auto] Mode to adjust background defocusing easily, as with in [Aperture-Priority] mode.

Press the rear dial ••The adjustment screen is displayed. Rotate the rear dial to adjust the background defocusing condition ••[AUTO] is displayed in the icon during automatic adjustment. ••You can also make adjustments with . ••To return to automatic adjustment → Press [(Q.MENU)] button Defocus background condition Defocus the background Focus the background Press the rear dial to finalise the setting ••You can also press [MENU/SET] to finalise the setting. When you record motion pictures, the camera performs aperture control within the □□ appropriate exposure range, and the background defocusing may not change for some subject brightness. You □□ can use [Intelligent Auto Plus] Mode to adjust brightness and colouring. (→43) When you turn off the unit or change the recording mode, the background defocusing □□ condition setting will return to [AUTO]. The □□ adjustment range of the background defocusing condition will change according to the zoom position. - 38 - VQT5B87 Basics Taking pictures with automatic settings [Intelligent Auto] Mode About flash Open the flash to use the built-in flash.

(→78) Set □□ to [When [□□], [ ], [ ] or [ ] depending on the subject and brightness.] or [ ] is displayed, the [Red-Eye Removal] function is activated to automatically detect red-eye and correct the picture data. When [ ] or [ ] is selected, the shutter speed is reduced. □□ About [Intelligent Auto] setting items Following menus can be set. ••For the setting procedures of the menu.

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(→57) Menu [Intelligent Auto] [Intelligent Auto] [Intelligent Auto Plus] [Rec] [Motion Picture] [Setup] Item [Picture Size] [Color Mode] [Motion Deblur] [iHandheld Nite Shot] [iHDR] [Face Recog.] [Rec Format] [Rec Quality] [Clock Set] [World Time] [Beep]* [Language] [Stabilizer Demo.] •• Menu items other than those listed above are not displayed, but you can set them in other recording modes. * Available settings may be different from other recording modes. [Color Mode] When you change the [Color Mode] setting in the [Rec] menu, you can change the colour of still pictures and motion pictures to be recorded.*

••For the setting procedures of the menu. (→57) □□Settings [STANDARD] [Happy] [B&W] [SEPIA] Records pictures with colours close to the actual colours. Records pictures with sharp and vivid colours. Records pictures in black and white monotones. Records pictures with sepia tones.

- 39 - VQT5B87 Basics Taking pictures with automatic settings [Intelligent Auto] Mode [Motion Deblur] [Motion Deblur] automatically sets the optimum shutter speed in accordance with the movements of the subject to minimise the blur of the subject. It is preset to [ON] with this unit. ••For the setting procedures of the menu. (→57) When [Motion Deblur] is set to [ON], and the shutter button is pressed halfway, [□□] appears on the screen. The □□ subject may be recorded in a picture size smaller than the number of pixels that has been set.

[iHandheld Nite Shot] If a night scene is detected automatically while the unit is being handheld, [iHandheld Nite Shot] can record a still picture with less jitter and less noise without using a tripod by combining a burst of pictures. It is preset to [ON] with this unit. ••For the setting procedures of the menu. (→57) When the camera is fixed in place on a tripod or by other means, [iHandheld Nite □□ Shot] will not be identified. - 40 - VQT5B87 Basics Taking pictures with automatic settings [Intelligent Auto] Mode [iHDR] When there is, for example, strong contrast between the background and the subject, [iHDR] records multiple still pictures with differing exposures and combines them to create a single still picture rich in gradation. It is preset to [ON] with this unit. ••For the setting procedures of the menu. (→57) This □□ function is automatically activated only when [ ] (→37) is displayed on the LCD monitor. 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, afterimages may appear if the subject was moving. The □□ camera does not combine pictures in the following cases: ••When the zoom ratio exceeds the maximum optical zoom ratio ••[Burst] mode ••When the flash fires. - 41 - VQT5B87 Basics Taking pictures with automatic settings [Intelligent Auto] Mode AF Tracking In [Intelligent Auto] Mode, you can select [AF Tracking] in [AF Mode] in a single operation. When [AF Tracking] mode is used, the camera can continuously focus on a subject and adjust the exposure of the subject even when the subject is moving. Press [FOCUS] to set [AF Tracking] ••To cancel AF Tracking → Press [FOCUS] again. Align the AF Tracking frame with the subject Press [AF/AE LOCK (Fn1)] button to lock ••To cancel AF Lock → Press [FOCUS]. AF Tracking frame AF Lock successful: Yellow AF Lock failed: Red The □□ optimal scene for the AF locked subject is automatically identified. You □□ cannot use AF Tracking Function when [Color Mode] is set to [B&W] or [SEPIA]. Face □□ Recognition will be inactive while using AF Tracking. Under certain recording conditions, such as when the subject is small or when it is □□ dark, [AF Tracking] may not operate correctly.

- 42 - VQT5B87 Basics Taking pictures with automatic settings [Intelligent Auto] Mode [Intelligent Auto Plus] Mode When [Intelligent Auto Plus] (iA+) mode is selected, you can easily adjust the brightness and colouring, in addition to the background defocusing, without compromising the userfriendly operation of the [Intelligent Auto] Mode. Use the [Intelligent Auto] menu to switch the mode. □□ Switching to [Intelligent Auto Plus] Mode Press [MENU/SET] Press to select [ ] and press [MENU/SET] : [Intelligent Auto] Mode : [Intelligent Auto Plus] Mode - 43 - VQT5B87 Basics Taking pictures with automatic settings [Intelligent Auto] Mode □□ Adjusting brightness, colouring, and background defocusing Press the rear dial ••The adjustment screen is displayed. Press to select an item to adjust Adjusts brightness. Adjusts background defocusing.

Adjusts colouring. ••[AUTO] is displayed in the icon during automatic adjustment. Press Brightness to make adjustments Underexposure (dark) Defocus the background Warm colours Overexposure (bright) Focus the background Cool colours Defocus background condition Colouring ••You can also rotate the rear dial to make adjustments. ••To return to automatic adjustment → Press [(Q.MENU)] button.

Press [MENU/SET] ••You can also press the rear dial to finalise the setting. When you record motion pictures, the camera performs aperture control within the □□ appropriate exposure range, and the background defocusing may not change for some subject brightness levels. When you turn off the unit or change the recording mode, all settings are returned to □□ [AUTO]. The □□ adjustment range of the background defocusing condition will change according to the zoom position. - 44 - VQT5B87 Basics Recording motion pictures You can record motion pictures with audio (stereo). Press the motion picture button to start recording Do not block the microphone when recording motion pictures. Recording state indicator [Rec Format] (→157)/ [Rec Quality] (→158) It □□ is recommended that you close the flash when Immediately release the motion picture button after □□ You □□ can also use zoom while recording motion Focus can be achieved during recording by pressing □□ Still □□ pictures can be taken during motion picture recording. (→48) [FOCUS]. pictures. pressing it.

recording motion pictures. Elapsed recording time Remaining recording time (approx.) Press the motion picture button again to end recording - 45 - VQT5B87 Basics Recording motion pictures □□ 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.

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It is suitable for viewing motion pictures on a high-resolution TV or for saving them to a disc. MP4: This is a simpler video format best used when extensive editing is needed, or when uploading videos to WEB services. ••You can record a motion picture to the built-in memory only in [MP4] using the [VGA] setting. ☐☐ 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.

The ☐☐ available recording time displayed on the screen may not decrease regularly. If ☐☐ data is repeatedly recorded and deleted, the total available recording time on the SD card may be reduced. To restore the original capacity, use the camera to format the SD card. Be sure to save all important data to your computer or other media before formatting, as all data saved to the card will be erased. 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. ISO ☐☐ sensitivity will operate as [AUTO] in Motion Picture Recording other than Creative Video. Also, [ISO Limit Set] will not function. There is a risk that the sound of zoom and button operations and the rubbing of the ☐☐ lens cap string will be recorded, and so care is necessary. Depending on the environment when recording motion pictures, the screen may ☐☐ turn black for an instant or noise may be recorded because of static electricity, electromagnetic waves, etc.

The ☐☐ recording range may become narrower in motion pictures compared to still pictures. Also, if the aspect ratio is different for still pictures and motion pictures, the angle of view will change when starting to record a motion picture. The recordable area is displayed by setting [Video Rec Area] (→66) to [ON]. If ☐☐ Extra optical zoom is used before pressing the motion picture button, these settings will be cleared, and the recordable area will be changed significantly. When using zoom while recording motion pictures, it may take some time to focus. ☐☐ - 46 - VQT5B87 Basics Recording motion pictures We ☐☐ recommend using a tripod and self-timer when you record motion pictures using It ☐☐ is recommended to use a fully charged battery or AC adaptor (optional) when If ☐☐ while recording motion pictures using the AC adaptor and the power supply is cut recording motion pictures. off due to a power outage or if the AC adaptor is disconnected etc., the motion picture being recorded will not be recorded. Motion pictures cannot be recorded in the following cases. ☐☐ ••[3D Photo Mode] ([Scene Mode]) ••[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 •• [Program AE] Mode •• [Aperture-Priority] Mode •• [Shutter-Priority] Mode •• [Manual Exposure] Mode •• [Sports]/[HDR]/[Pet] ([Scene Mode]) [Baby] ([Scene Mode]) [Night Portrait]/[Night Scenery]/[Handheld Night Shot]/[Starry Sky] ([Scene Mode]) Recording mode while recording motion picture Normal motion picture Portrait Mode Low Light Mode high zoom magnification. - 47 - VQT5B87 Basics Recording motion pictures Recording still pictures while a motion picture is being recorded Still pictures can be recorded even while a motion picture is being recorded. Press the shutter button fully during the motion picture recording Still pictures can be taken while a motion picture is being recorded. [Aspect Ratio] 16:9 [Still Picture Size] 3.5M Number of recordable pictures 1 ••The picture quality may be different to [3.5M] (16:9) of standard pictures. ••When still pictures are recorded during zooming, the zooming may stop. ••Using [Miniature Effect] in [Creative Control] Mode, a still picture may be taken with a slight delay from the time when the shutter button is pressed fully. When you press the shutter button halfway during motion picture recording, the ☐☐ camera will automatically refocus on a subject.

This refocus movement is recorded even during motion picture recording. When priority is to be given to the motion picture videos, press the shutter button fully, and record the still pictures. Still pictures can also be created after motion picture recording. (→54) When the shutter button is pressed halfway, the picture size and the number of ☐☐ recordable pictures are displayed. Still ☐☐ pictures cannot be recorded in the following cases: ••When [Rec Quality] is set to [VGA] ••[Creative Video Mode] The ☐☐ flash is set to [ ].

Since the electronic shutter is used for recording, the pictures recorded may be ☐☐ distorted. When [Quality] is set to [ ], [ ] or [ ], still pictures are recorded with the [ ] ☐☐ setting in JPEG file format. - 48 - VQT5B87 Basics Viewing your pictures Press the Playback button ([Normal Play]) When a card is in the camera, pictures are played back from the card, and without a card, pictures are played back from the built-in memory. Press to select a picture to be displayed ••When you press and hold the button, the pictures are displayed one after another. ••You can also rotate the rear dial to select a picture.

View pictures Folder/File number Picture number/Total pictures ☐☐ Ending Playback Press the Playback button or the motion picture button again, or press the shutter button halfway. a computer. It ☐☐ may not be possible to view pictures on this camera that were previously edited on When the camera is switched to playback mode, the lens barrel will be retracted after ☐☐ This ☐☐ camera is compliant with the unified DCF (Design rule for Camera File system) approx. 15 seconds. standard formulated by the Japan Electronics and Information Technology Industries Association (JEITA), and with Exif (Exchangeable image file format). Files that are not DCF-compliant cannot be played back. - 49 - VQT5B87 Basics Viewing your pictures ([Normal Play]) Zooming in and viewing "Playback Zoom" Move the zoom lever toward T side Current zoom position ••Each time you move the zoom lever toward the T side, the magnification increases through four levels: 2x, 4x, 8x, and 16x. (The picture quality displayed becomes successively lower.) ••To reduce zoom → Move the zoom lever toward W side ••Move zoom position → Press Playback zoom cannot be used during motion picture playback or panorama picture ☐☐ playback.

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□□ Switching the displayed picture without changing the zoom ratio and position of Playback zoom Rotate the rear dial 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]) Press [FOCUS] when playing back still pictures. Focus point may not be the centre of enlargement when it is at the edge of the still □□ picture. It □□ will return to the original enlargement if [FOCUS] is pressed again. Following still pictures cannot be enlarged because there is no focus point: □□ ••Still pictures that was taken without focusing ••Still pictures that was taken with Manual Focus ••Still pictures that was taken with a different camera □□ Enlarging the focus point - 50 - VQT5B87 Basics Viewing your pictures ([Normal Play]) Viewing a list of pictures "Multi Playback" Move the zoom lever toward W side Picture no./Total no. ••Move the zoom lever toward the W side and you can switch the display methods in the following order: 1-picture screen (full-screen) → 12-picture screen → 30-picture screen → Calendar screen. (Move the lever to the T side to return.) ••When you select a picture using and press [MENU/SET] on a 12-picture or 30-picture screen, the selected picture is displayed on a 1-picture screen (fullscreen).

Pictures displayed with [!] cannot be played back. □□ - 51 - VQT5B87 Basics Viewing your pictures ([Normal Play]) Viewing pictures by their recording date [Calendar] Move the zoom lever toward W side several times ••If there were no pictures recorded during a month, that month is not displayed. Press ••Press [(to select recording date and press [MENU/SET] Q.MENU)] button to return to the calendar screen. The □□ recording date of the picture selected in the playback screen becomes the date If □□ there is more than one picture recorded on the same date, the first picture taken on You □□ can display the calendar between January 2000 to December 2099.

Only □□ months when pictures were taken are shown on the calendar screen. Pictures Pictures taken with destination settings made in [World Time] are displayed in the □□ calendar screen using the appropriate date for the destination's time zone. taken without clock settings are displayed with the date 1st January, 2013. that date will be selected. selected when the calendar screen is first displayed.

*- 52 - VQT5B87 Basics Viewing motion pictures This unit was designed to play motion pictures using the AVCHD, MP4 and QuickTime Motion JPEG formats. Select a picture with the motion picture icon, and press Playback now starts. (After playback starts, the elapsed playback time is displayed on the screen.) Motion picture recording time Example) 10 minutes 30 seconds: 10m30s Motion picture icon (differs depending on [Rec Format] and [Rec Quality] setting) □□ Operations during motion picture playback * The fast forward or rewind speed increases if you press ••Volume can be adjusted with the zoom lever. : Pause/play : Stop : □ ast rewind (2 steps*)/Single-frame rewind (while paused) F : □ ast forward (2 steps*)/Single-frame forward (while paused) F again. It □□ may not be possible to properly play back the motion pictures recorded using other Some information will not be displayed for motion pictures recorded in [AVCHD]. □□ Motion pictures can be viewed on your computer using "PHOTOfunSTUDIO" on the □□ Motion pictures recorded with [Miniature Effect] in [Creative Control] Mode play back □□ When using a high capacity card, it is possible that fast rewinding may be slower than □□ usual. at approximately 8 times speed. supplied CD-ROM. cameras.*

- 53 - VQT5B87 Basics Viewing motion pictures Capturing still pictures from motion pictures Save a scene from a motion picture as a still picture. Display the picture that you want to capture as a still picture by pausing a motion picture during playback Press [MENU/SET] ••A confirmation screen is displayed. If you select [Yes], the operation is executed. ••Still pictures are saved with [Aspect Ratio] setting of 16:9 and [Picture Size] at 2M. * In the following cases, saved pictures become 4:3, 0.3M. •• MP4 motion pictures with [Rec Quality] of [VGA] Still □□ pictures created from a motion picture may be coarser than with normal picture It □□ may not be possible to capture still pictures from motion pictures that were recorded with a different camera. quality. - 54 - VQT5B87 Basics Deleting pictures Pictures will be deleted from the card if the card is inserted, or from the built-in memory if the card is not inserted. (Deleted pictures cannot be recovered.*

) However, pictures will not be deleted in the following cases. ••Protected pictures ••Card switch is in "LOCK" position. ••Pictures not of DCF standard (→49) Press [(Q.MENU)] button to delete displayed picture ••A confirmation screen is displayed. When you select [Yes], the selected picture is deleted. Do □□ not turn off the camera during deletion. Use □□ a sufficiently charged battery or an AC adaptor (optional) and DC coupler (optional). - 55 - VQT5B87 Basics Deleting pictures To delete multiple (up to 50)/To delete all pictures Press [(Q.MENU)] button while viewing a picture Use to select [Delete Multi]/[Delete All] and press [MENU/SET] [Delete Multi] □□ Press to select picture and press [DISP.] button Picture selected ••To cancel → Press [DISP.

] button again. ••To execute → Press [MENU/SET]. ••You can select [All Delete Except Favorite] in [Delete All] if there are pictures that have been set as [Favorite] (→178). ••A confirmation screen is displayed. When you select [Yes], the selected picture is deleted. ••May take time depending on number of pictures deleted. - 56 - VQT5B87 Basics 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. There are also 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.

□□ Menu type [Rec] (→142) [Motion Picture] (→157) [Setup] (→61) [Playback Mode] (→162) [Playback] (→170) You can perform settings such as Aspect Ratio and Picture Size and other settings. You can select the recording format and picture quality and other settings. You can perform settings for convenience of use such as the clock setting and changing of the beep sounds.

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