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You can read the recommendations in the user guide, the technical guide or the installation guide for PANASONIC DMC-TZ35. You'll find the answers to all your questions on the PANASONIC DMC-TZ35 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-TZ35
User guide PANASONIC DMC-TZ35
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Panasonic®

**Operating Instructions
for advanced features**
Digital Camera

Model No. DMC-TZ35

LUMIX

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

SD XC   3D

NANO
SURFACE
COATING

VQT4P25
M1212KZ0

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Manual abstract:

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Before use Names and Functions of Main Parts Mode dial Use this to select the recording mode.
Flash (→59) Self-timer indicator (→63) / AF Assist Lamp (→104) Lens barrel Lens Microphone (→22) Zoom lever (→56) Operate this when zooming in on a distant subject to record it larger. Record motion pictures. Motion picture button (→31) Camera [ON/OFF] button Speaker Shutter button (→23) Use this to turn the camera on and off. Use this to focus and record still pictures. Tripod mount Do not attach to a tripod with a 5.5 mm (0.22 inch) or longer screw. Doing so may damage this unit. Card/Battery door (→11, 16) Release lever (→11, 16) DC coupler cover The □□ illustrations and scmarks (to) and insert the plug. Charging lamp USB connection cable (supplied) •• Always check the direction of the pins and hold the plug straight to insert or remove it.

(If the cable is inserted in the wrong direction, the pins could become deformed and cause faulty operation.) Computer Getting ready: Turn on the computer. □□ Charging the battery by connecting the camera to the electrical outlet Connect the AC adaptor (supplied) and the camera using the USB connection cable (supplied), and plug the AC adaptor (supplied) into the electrical outlet. □□ Charging the battery through the computer Connect the camera to a computer using the USB connection cable (supplied). It □□ may not be possible to charge the battery from some computers depending on the If □□ the computer enters sleep mode during charging, charging may be stopped. If □□ a notebook computer that is not connected to an electrical outlet is connected to computer

specifications. the camera, the battery of the notebook computer will be depleted. Do not leave the camera and notebook connected for a long period of time. Always connect the USB connection cable to the USB connector on your computer. □□ Do not connect the USB connection cable to the USB connector of the monitor, keyboard, printer, or USB hub.

- 12 - VQT4P25 Preparations Charging battery □□ Charging lamp indications On: Charging in progress Off: □ harging stops (After charging stops, disconnect the camera from the electrical C outlet or your computer.) □□ Notes on charging time Charging time When using the AC adaptor (supplied) Approx. 210 min ••The charging time indicated above is the time required for charging in the 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.

••The time required for charging through the computer varies depending on the specifications of the computer. Do □□ not use any other USB connection cables except the supplied one or a genuine Panasonic USB connection cable (optional). Using cables other than the above may cause a malfunction. Do □□ not use any other AC adaptors except the supplied one. Doing so may cause malfunction of the camera.

Do □□ not use a USB extension cable. The □□ AC adaptor (supplied) and the USB connection cable (supplied) are dedicated accessories of this camera. Do not use them for other devices. If □□ there is any trouble related to the electrical outlet (i.e. power failure), charging may not complete properly. Disconnect the USB connection cable (supplied) and reconnect it to the camera. If □□ the charging lamp does not light or flashes even when the camera is properly connected to the AC adaptor (supplied) or your computer, charging has been put in pause status because the temperature is not in the appropriate range for charging. This is not a malfunction. Reconnect the USB connection cable (supplied) and retry charging in a place where ambient temperature is 10 °C to 30 °C (50 °F to 86 °F) (temperature conditions also apply to the battery itself).

- 13 - VQT4P25 Preparations Charging battery Remaining battery When using the camera, the remaining battery capacity is displayed. Remaining battery (only when using battery) (flashes red) If the battery mark flashes red, recharge or replace battery. Guidelines for number of recordable pictures and operating time The number of recordable pictures or available operating time may vary according to surrounding environment and usage conditions. Figures may be reduced if flash, zoom, or other functions are used frequently, or in colder climates. □□Recording still pictures Number of recordable pictures Recording time Approx. 260 pictures Approx. 130 min By CIPA standard Recording conditions by CIPA standard □□ •• [Program AE] Mode ••Temperature: 23 °C (73.4 °F)/Humidity: 50%RH when LCD monitor is on. •• Using a Panasonic SD Memory Card (32 MB). •• Using the supplied battery.

CIPA is an abbreviation of [Camera & Imaging Products Association]. Number reduced if intervals are longer (e.g. to approx. one quarter for 2-minute intervals under the above conditions).

•• Starting recording 30 seconds after the camera is turned on (when the Optical Image Stabiliser function is set to [ON]). •• Recording once every 30 seconds 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. - 14 - VQT4P25 Preparations Charging battery □□Recording motion pictures [Rec Format] ([Rec Quality]) Available recording time Actual available recording time [AVCHD] ([FHD/50i]) Approx.

85 min Approx. 40 min [MP4] ([FHD/25p]) Approx. 85 min Approx. 40 min Recording conditions □□ ••Temperature 23 °C (73.4 °F), humidity 50%RH ••The time you can actually record when repeatedly turning the camera on and off, starting and stopping recording and using zoom. Remaining time for continuous recording is displayed on the screen □□ ••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/25p] 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 Playback time Approx.

200 min The □□ number of recordable pictures or available operating time may vary according to If □□ available battery power is significantly reduced, battery is reaching end of lifespan. Please purchase a new battery. surrounding environment and usage conditions. - 15 - VQT4P25 Preparations Inserting and removing the card (optional) ••Make sure that the camera is turned off. Slide to the [OPEN] position and open the card/battery door Release lever Insert the card all the way ••Check orientation: terminals face LCD ••Push in until it clicks. [OPEN] [LOCK] Close the card/battery door ••Slide to the [LOCK] position. Do not touch the terminals on the back of the card. □□ remove card To Press the centre of the card Press Pull out Keep the Memory Card out of reach of children to prevent swallowing. □□ To □□ remove the card, turn the camera off and wait until the LUMIX indicator on the LCD monitor goes off. (Failure to wait may cause the camera to malfunction and may damage the card or recorded data.

) - 16 - VQT4P25 Preparations Inserting and removing the card (optional) Saving your pictures (cards and built-in memory) Pictures will be saved to a card if one is inserted, or to the built-in memory if not. □□Built-in memory (approx. 90 MB) card. Pictures may be copied between cards and the built-in memory. (→129) □□ 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 The following SD standard-based cards (Panasonic brand recommended) 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: □ ttp://panasonic.jp/support/global/cs/dsc/ h (This site is available in English only.) While the camera is accessing the card or built-in memory (for an operation such □□ as picture writing, reading, deleting, or formatting), do not turn off the camera or remove the battery, card, AC adaptor (supplied), 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. (→53) 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 to be damaged). Switch - 17 - VQT4P25 Preparations Inserting and removing the card (optional) Recording capacity guidelines (pictures/recording time) The number of pictures you can take and the recording time vary in proportion to card capacity (and depending on recording conditions and type of card). Estimated remaining pictures or recording time capacity (press [DISP.] button to switch display) Displayed when no card is inserted (pictures will be saved to built-in memory) ☐☐Recording picture capacity (still pictures) [Picture Size] 16M 5M 0.3M Built-in memory 14 32 510 2 GB 300 660 10240 32 GB 4910 10620 162960 64 GB 9880 21490 247150 ••When the number of recordable pictures exceeds 99,999, "+99999" is displayed. ☐☐Recording time capacity (motion pictures) When [Rec Format] is [AVCHD] [Rec Quality] [FHD/50i] / [HD/50p] [Rec Quality] [FHD/25p] [HD/25p] [VGA/25p] Built-in memory – ([h], [m] and [s] indicate "hour", "minute" and "second".) 2 GB 14m00s 32 GB 4h10m00s 64 GB 8h27m00s When [Rec Format] is [MP4] Built-in memory – – 2m23s 2 GB 12m21s 23m36s 51m57s 32 GB 3h23m17s 6h28m06s 14h14m08s 64 GB 6h51m17s 13h05m11s 28h48m04s ••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/25p] 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. - 18 - VQT4P25 Preparations Setting the clock The clock is not set when the camera is shipped. ••Disconnect the unit from the AC adaptor (supplied). Press the Camera [ON/OFF] button The camera is turned on. If the language select screen is not displayed, proceed to step .
Press [MENU/SET] while the message is displayed 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 ••To cancel → Press [/] button. Press [MENU/SET] to set Press [MENU/SET] ••To return to the previous screen, press [/] button. - 19 - VQT4P25 Preparations Setting the clock Changing time settings Select [Clock Set] from the [Setup] menu to change the current time settings. ••Clock settings will be kept for approx.
3 months even if the battery is removed. (Only if a fully charged battery was inserted for 24 hours beforehand.) Select [Clock Set] from the [Setup] menu or [Rec] menu ••For the setting procedures of the menu. (→42) Set the date and time (Perform steps - . (→19)) 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]. If ☐☐ the clock is set, the correct date can be printed even if the date is not displayed on the screen of the camera. - 20 - VQT4P25 Basics Sequence of operations 1 Press the Camera [ON/OFF] button to turn on the camera Set to the desired recording mode Align the mode dial correctly to → the mode that you want to use. [Intelligent Auto] Mode Take pictures with automatic settings. (→25) Take pictures with automatic shutter speed and aperture value settings. (→23) Determine aperture, then record pictures.

(→66) Determine shutter speed, then record pictures. (→67) Determine aperture and shutter speed, then record pictures. (→68) Record pictures using pre-registered settings. (→86) Record panorama pictures. (→75) Take pictures according to scene. (→78) Take pictures while confirming the picture effect. (→69) 2 [Program AE] Mode [Aperture-Priority] Mode [Shutter-Priority] Mode [Manual Exposure] Mode [Custom] Mode [Panorama Shot] Mode [Scene Mode] [Creative Control] Mode (Continued on the next page) - 21 - VQT4P25 Basics Sequence of operations Aim the camera and shoot ☐☐ Taking still pictures ☐☐ Recording motion pictures ress the shutter button halfway to focus P ☐ Press and hold the shutter button to take the picture ☐ Press the motion picture button to start recording ☐ Press the motion picture button again to finish recording Motion picture button Microphone Shutter button 3 ☐☐ Holding the camera ••To avoid camera shake, hold it with both hands keeping your arms close to your body while Flash standing with your feet slightly apart. ••Do not touch the lens. Hand ••Do not block the microphone when recording strap motion pictures. ••Do not block the flash or the lamp.
Do not look at it from close range. ••Make sure that the camera does not move at the moment the shutter button is pressed. We recommend using the supplied hand strap to avoid dropping the camera. ☐☐ AF Assist Lamp Playback button Play back pictures ☐ ress the playback button P ☐ iew pictures V During motion picture/panorama picture playback Pause/play Previous Stop Next 4 To ☐☐ switch to Recording Mode, press the playback button again or press the shutter button halfway during playback. 5 Press the Camera [ON/OFF] button to turn off the camera - 22 - VQT4P25 Basics Taking pictures with your own settings [Program AE] Mode The aperture value and shutter speed are automatically set for recording.
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) If ☐☐ a warning is displayed about jitter, use [Stabilizer], If ☐☐ aperture and shutter speed are shown in red, you a tripod, or [Self Timer]. do not have appropriate exposure. You should either use the flash, change [Sensitivity] settings or set [Min. Shtr Speed] to a slower speed.
Jitter alert display Aperture value Shutter speed - 23 - VQT4P25 Basics Adjusting 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. 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 Subjects/environments which may ☐☐ Press fully AF area 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 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. The ▢▢ focus display flashes and beep sounds when focus is not aligned. 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.

Focus display Focus range - 24 - VQT4P25 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 optimizes settings to match the subject and recording environment. Set to ([Intelligent Auto] Mode) Take a picture Focus display (▢hen focus is aligned: illuminated W When focus is not aligned: flashing) Press halfway (press lightly to focus) Press fully (press the button all the way to record) Using flash Press When ▢▢ to select or . is selected, the optimum flash (, , ,) is selected automatically depending on conditions. When or is selected, the red-eye reduction function is activated. ▢▢ When or is selected, the shutter speed is reduced. ▢▢ - 25 - VQT4P25 Basics Taking pictures with automatic settings [Intelligent Auto] Mode Automatic Scene Detection Camera reads scene when pointed at subject, and makes optimum settings automatically. Recognises people Recognises babies*1 Recognises landscapes Recognises night scenes and people in them is selected)*2 (Only when Recognises night scenes*2 Recognises night scenes without a tripod*3 Recognises close-ups Recognises sunsets Reads subject movement to avoid blurring when scene does not correspond to any of the above The icon of scene detected *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. 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). Happy colour setting When [Color Mode] (→104) is set to [Happy], pictures are recorded with vivid colouring. ▢▢Settings ress [MENU/SET] P ▢ Press to select [Rec] menu and press [MENU/SET] ress P to select [Color Mode] and press [MENU/SET] ress P to select [Happy] and press [MENU/SET] - 26 - VQT4P25 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. ▢▢Settings ress [MENU/SET] P ▢ Press to select [Rec] menu and press [MENU/SET] ress P to select [Motion Deblur] and press [MENU/SET] ress P to select either [ON] or [OFF] and press [MENU/SET] When [Motion Deblur] is set to [ON], 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 camera is handheld, [iHandheld Nite Shot] can record a still picture with less jitter and less noise by combining a burst of pictures. It is preset to [ON] with this unit. ▢▢Settings ress [MENU/SET] P ▢ Press to select [Rec] menu and press [MENU/SET] ▢ Press to select [iHandheld Nite Shot] and press [MENU/SET] ▢ Press to select either [ON] or [OFF] and press [MENU/SET] When the camera is fixed in place on a tripod or by other means, [iHandheld Nite ▢▢ Shot] will not be identified. - 27 - VQT4P25 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. ▢▢Settings ress [MENU/SET] P ▢ Press to select [Rec] menu and press [MENU/SET] ▢ Press to select [iHDR] and press [MENU/SET] ▢ Press to select either [ON] or [OFF] and press [MENU/SET] This ▢▢ function is automatically activated only when 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. The ▢▢ camera does not combine pictures in the following cases: ••When the zoom ratio exceeds 20x ••[Burst] mode ••When the flash fires In ▢▢ the case of composition from a burst, afterimages may appear if the subject was moving.

- 28 - VQT4P25 Basics Taking pictures with automatic settings [Intelligent Auto] Mode AF Tracking This function enables the camera to continue to focus on the subject and adjust the exposure of the subject even when the subject is moving. Press to set [AF Mode] to AF Tracking again. ••To cancel AF Tracking → Press Align the AF Tracking frame with the subject, and then press to lock ••To cancel AF Lock → Press . AF Tracking frame AF Lock successful: Yellow AF Lock failed: Red The ▢▢ optimal scene for the AF locked subject is automatically identified. 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. - 29 - VQT4P25 Basics Taking pictures with automatic settings [Intelligent Auto] Mode [Intelligent Auto] Mode restrictions Only the menu items which are displayed in the [Intelligent Auto] Mode can be set. The settings selected in the [Program AE] or other modes will reflect on the menu items in the [Setup] menu that are not displayed. The ▢▢ settings for the following items are different from other recording modes: [Picture Size], [Burst] and [Color Mode] on the [Rec] menu, [Beep] on the [Setup] menu The ▢▢ settings for the following functions are fixed: [Setup] menu ••[Auto Power Off]: [5MIN.

] ••[Auto Review]: [2SEC] ••[Guide Line]: [Rec] menu ••[Quality]: [Fine] ••[White Balance]: [AWB] ••[Quick AF]: [ON] ••[i. Exposure]: [ON] ••[AF Assist Lamp]: [ON] ••[Stabilizer]: [ON] ••[Sensitivity]: ••[AF Mode]: [Face Detection]□ ••[Metering Mode]: [Multi Metering] ••[i.Resolution]: [i.ZOOM] ••[Red-Eye Removal]: [ON] □ (23-area-focusing) when face cannot be recognised [Motion Picture] menu ••[Continuous AF]: [ON] ••[Wind Cut]: [OFF] The □□ following functions cannot be used: [Histogram], [Exposure], [Auto Bracket], [WB Adjust.], [Min. Shtr Speed], [Digital Zoom] - 30 - VQT4P25 Basics Recording motion pictures You can record motion pictures with audio (monaural).

Press the motion picture button to start recording [Rec Format] (→107)/ [Rec Quality] (→107) Do □□ not block the microphone when recording motion Immediately release the motion picture button after □□ pictures. pressing it. You □□ can also use zoom while recording motion pictures. ••The zoom speed will be slower than normal. ••When using zoom while recording motion pictures, it may take some time to focus.

••The operating sounds of the zoom lever may be recorded in some cases. Still □□ pictures can be taken during motion picture recording. (→34) Elapsed recording time Remaining recording time (approx.) Press the motion picture button again to end recording - 31 - VQT4P25 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. 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. ••You can record a motion picture to the built-in memory only in [MP4] using the [VGA/25p] 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. ••For details on MP4 compatible devices, refer to the support site below. http://panasonic.jp/support/global/cs/dsc/ (This site is available in English only.) - 32 - VQT4P25 Basics Recording motion pictures □□ Recording motion pictures in □□ Recording motion pictures in W □ hen scene does not correspond to any on the right. Records a motion picture at your preferred settings. ••Aperture and shutter speed are automatically set. The camera automatically detects the scene to record motion pictures with optimal settings. ••In mode, focus and exposure will be set according to the face detected. •• will be selected for nightscapes and other dark scenes.

••If the camera does not select your desired Scene Mode, choosing an appropriate mode manually is recommended. ••The following menu options in the [Motion Picture] menu can be set: •• [Rec Format] • [Rec Quality] □□ Motion picture recording in other recording modes For details, refer to the pages relating to the respective recording modes. 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. The □□ Optical Image Stabiliser functions regardless of the settings before a motion picture is recorded. The □□ following functions are not available: Extra optical zoom, flash, [Face Recog.], [Rotate Disp.] for pictures taken vertically.

For □□ certain memory cards, recording may end while in progress. 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] (→48) to [ON]. 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. 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. 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. Motion pictures cannot be recorded in the following cases: □□ ••Scene Mode ([3D Photo Mode]) ••[Creative Control] Mode ([Soft Focus] [Star Filter]) - 33 - VQT4P25 Basics Recording motion pictures Taking 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 are recorded with aspect ratio setting of and [Picture Size] setting of 3.

5M. (Max. 2 pictures) ••Motion picture recording continues unchanged. ••The clicking sound made when the shutter button is operated may be recorded. ••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. (→37) 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 case: ••When [Rec Quality] is set to [VGA/25p] in [MP4] The □□ flash is set to [Forced Flash Off]. Since the electronic shutter is used for recording, the pictures recorded may be □□ distorted. - 34 - VQT4P25 Basics Viewing your pictures 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 the playback button ••By holding down the playback button while the camera is off, you can turn the camera on in Playback Mode.
Use the play back cursor button to select a picture that you want to ••Hold down to quickly scroll forwards/backwards. View pictures Folder/File number
Picture number/Total pictures ••To switch to Recording Mode, press the playback button again or press the shutter button halfway during playback. 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. a computer. - 35 - VQT4P25 Basics Viewing your pictures Viewing motion pictures This unit was
designed to play motion pictures using the AVCHD, MP4 and QuickTime Motion JPEG formats. Press the playback button Select a picture with the motion
picture icon, and press Playback now starts. Motion picture recording time Motion picture icon (differs by [Rec Format] and [Rec Quality]) ••If the pictures
played back are narrowed down with [Slide Show] (→110) or [Filtering Play] (→113), a selection screen will appear. Use cursor button to select [Play
Video] and press [MENU/SET]. □□ Operations during motion picture playback : Pause/play : Stop : □ ast rewind (2 steps) F Single-frame rewind (while*
paused) : □ ast forward (2 steps) F Single-frame forward (while paused) * The fast forward or rewind speed increases if you press again. ••If is pressed*
during fast forward or rewind, it will return to normal playback speed. ••Volume can be adjusted with the zoom lever. 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 □□ at approximately 8x speed. supplied CD-ROM. cameras. - 36 - VQT4P25 Basics Viewing your 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. Select [Yes] with cursor button and then press [MENU/SET]. [Rec Format]
[AVCHD] [Rec Quality] [FHD/50i] [HD/50p] [FHD/25p] [MP4] [HD/25p] [VGA/25p] 0.3M 4:3 2M 16:9 [Picture Size] [Aspect Ratio] The □□ picture
quality becomes slightly lower because of the [Rec Quality] setting of the It □□ may not be possible to capture still pictures from motion pictures that were
recorded with a different camera. original motion picture. - 37 - VQT4P25 Basics Viewing your pictures Zooming in and viewing "Playback Zoom" Move to 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 lever towards W side ••Move zoom position → Press Playback zoom
cannot be used during motion picture playback. □□ Viewing a list of pictures "Multi Playback" Picture no./Total no. Panorama pictures Move to W side
Motion pictures ••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 search.
(Move the lever to the T side to return.) ••When you select a picture using the cursor button and press [MENU/SET] on the 12-picture or 30-picture screen,
the selected picture is displayed on the 1-picture screen (full-screen). Pictures displayed with [!] cannot be played back. □□ - 38 - VQT4P25 Basics Viewing
your pictures Searching pictures by the recording date (Calendar search) Selected date Move to the W side several times ••Use cursor button to select the
recording date, then press [MENU/SET] to select the pictures for the selected recording date. (→114) - 39 - VQT4P25 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.) Press [/] button to delete displayed picture ••A confirmation screen is displayed. Select [Yes] with cursor button and
then press [MENU/SET]. Do □□ not turn off the camera during deletion. Pictures cannot be deleted in the following cases: □□ ••Protected pictures ••Card
switch is in "LOCK" position. ••Pictures not of DCF standard (→35) - 40 - VQT4P25 Basics Deleting pictures To delete multiple (up to 50)/To delete all
pictures Press [/] button while viewing a picture Use to select [Delete Multi]/[Delete All] and press [MENU/SET] [Delete Multi] □□ Use cursor button to
select picture and press [DISP.] button ••To cancel → Press [DISP.] button again. ••To execute → Press [MENU/SET]. Picture selected ••You can select [All
Delete Except Favorite] in [Delete All] if there are pictures that have been set as [Favorite] (→125).

••A confirmation screen is displayed. Select [Yes] with cursor button and then press [MENU/SET]. ••May take time depending on number of pictures deleted.
- 41 - VQT4P25 Basics Setting the menu Refer to the procedure below for an example on how to operate the menus. Example: □ hanging [AF Mode] in the
[Rec] menu in [Program AE] Mode C Press [MENU/SET] Press to select [Rec] menu and press [MENU/SET] Press to select [AF Mode] and press
[MENU/SET] : □ ages P (The pages can also be selected with the zoom lever.) : Menu description : Menu items : Operation guide Press to select a setting,
and then press [MENU/SET] The selected setting is set. ••To cancel → Press [/] button. : Settings : Selected setting Press [/] button several times The menu
closes and the monitor returns to the previous screen. The □□ operation screen examples in this manual may differ from the actual screen The □□ menu types
and items that are displayed vary according to the mode. The □□ setting methods vary depending on the menu item.
In □□ Recording Mode, the menu can also be closed by pressing the shutter button halfway. (Goes into Recording Mode.) display or some parts of the screen
display are omitted.

- 42 - VQT4P25 Basics Setting the menu Menu type In ☐☐ recording mode In ☐☐ playback mode [Rec] menu You can perform settings such as Tones, Sensitivity, Aspect Ratio, and Picture Size. [Motion Picture] You can adjust settings such as recording method and picture menu quality. [Setup] menu You can adjust settings to make operating the camera easier, such as setting the clock and changing the beep sounds. [Playback Mode] You can adjust settings for playback methods such as [Slide Show] menu and [Filtering Play]. [Playback] menu You can adjust settings for recorded pictures, such as picture protection and cropping and print settings. The ☐☐ following menus are also displayed depending on the recording mode. ••In the Scene Mode: [Scene Mode] menu (→78) ••In the [Custom] mode: [Custom] menu (→87) ••In the [Creative Control] mode: [Creative Control] menu (→69) - 43 - VQT4P25 Basics Setting the menu Using Quick menu During recording, you can easily call some of the menu items and set them. Press [Q.MENU] button Press Press to select a menu item to select the settings Press [MENU/SET] The ☐☐ menu items and setting items that are displayed differ depending on the recording mode. - 44 - VQT4P25 Basics Using the [Setup] menu [Clock Set], [Economy] and [Auto Review] are important for clock setting and battery life. Please check these before use. ••For the setting procedures of the menu. (→42) In ☐☐ [Intelligent Auto] Mode, only [Clock Set], [World Time], [Beep] and [Stabilizer Demo.] are set. [Clock Set] Set time, date, and display format. (→19) [World Time] Set the local time at travel destination. (→94) ☐☐Settings Destination]: Set the local time at travel destination.

[[Home]: Set date and time at home area. [Travel Date] Record the number of days elapsed in your travels. (→93) ☐☐Settings [Travel Setup] [SET] (Register departure and return dates) / [OFF] [Location] [SET] (Input name of location) / [OFF] [Beep] Change or mute the beep/shutter sounds. ☐☐Settings [Beep Level] / / : Low / High / Mute [Beep Tone] / / : Change beep tone. [Shutter Vol.] / / : Low / High / Mute [Shutter Tone] / / : Change shutter tone. - 45 - VQT4P25 Basics Using the [Setup] menu ••For the setting procedures of the menu. (→42) [Speaker Volume] Adjust volume of sound from speakers (7 levels). ☐☐Settings: [0] / [1] / [2] / [3] / [4] / [5] / [6] Cannot be used to adjust TV speaker volume when connected to TV. ☐☐ [Cust. Set Mem.] Register settings on current camera (→86). [Monitor Display] Adjust brightness and colour of the LCD monitor. It is suggested to use the default settings. These are intended to provide a preview of the actual picture, as accurately as possible.

☐ ress P to select the setting item and press ☐ ress [MENU/SET] P picture will not be affected. [Monitor Luminance]. to make adjustments Some subjects may look different from their actual appearance, but the recorded ☐☐ Cannot be used to set brightness and contrast when [High Angle] is selected under ☐☐ - 46 - VQT4P25 Basics Using the [Setup] menu ••For the setting procedures of the menu. (→42) [Monitor Luminance] Make LCD monitor easier to see. ☐☐Settings [Auto Power Monitor]: The brightness is adjusted automatically depending on how bright it is around the camera. [Power Monitor]: Makes screen brighter than normal (for outdoor use). [High Angle]: Makes the LCD monitor screen easier to see when the camera is held above eye level. [OFF] Cannot select [Auto Power Monitor] and [High Angle] in playback mode. ☐☐ [Power Monitor] returns to ordinary brightness if there is no operation for 30 seconds ☐☐ [High ☐☐ Angle] will be cancelled if the camera is turned off. Because the picture shown on the LCD monitor screen emphasises brightness, some ☐☐ subjects may look different than their actual appearance, but this will not affect the recorded picture. Setting [Monitor Luminance] reduces the operating time. ☐☐ when recording. (Press any button to make the screen brighter again.) [Guide Line] Select recording information display and types of guidelines. ☐☐Settings [Rec.

Info.] [ON] (Display recording information with guidelines.) [OFF] [Pattern] / : Change the patterns of guidelines. When [Intelligent Auto] Mode has been selected, only ☐☐ is displayed. Also, recording information and guidelines cannot be displayed simultaneously. Cannot be used in the following case: ☐☐ ••[Panorama Shot] Mode - 47 - VQT4P25 Basics Using the [Setup] menu ••For the setting procedures of the menu. (→42) [Histogram] Displays distribution of brightness in picture – e.g. if the graph peaks at the right, this means there are several bright areas in the picture (Guide). A peak in the centre represents correct brightness (correct exposure). This can be used as a reference for exposure correction, etc. (Example) Dark ← OK → Bright ☐☐Settings: [ON] / [OFF] When the histogram is not the same as that of the recorded picture under the ☐☐ following conditions, histogram will be displayed in orange. ••When manual exposure assist indicates settings other than 0 EV in [Manual Exposure] mode or during Exposure Compensation ••When the flash fires ••Dark locations The ☐☐ histogram displayed during recording is only a reference. The ☐☐ histogram displayed during recording and that displayed during playback may be different. The ☐☐ histogram is different from those displayed using the image editing software of a computer. The ☐☐ histogram will not be displayed in the following cases. ••[Intelligent Auto] Mode ••Playback Zoom ••During motion picture recording ••Multi Playback ••When the HDMI mini cable is connected [Video Rec Area] Enables verification of the recordable area for a motion picture before recording. ☐☐Settings: [ON] / [OFF] Recordable area displayed for motion pictures should be interpreted as a Guideline. ☐☐ When using Extra optical zoom, the recordable area may not always be displayed for ☐☐ This ☐☐ setting is not displayed with [Intelligent Auto] Mode. certain zoom ratios. [Zoom Resume] Remember the zoom position when turning the camera off. ☐☐Settings: [ON] / [OFF] - 48 - VQT4P25 Basics Using the [Setup] menu ••For the setting procedures of the menu. (→42) [Economy] Turn off the camera or make the LCD monitor go dark while not using the camera to minimise battery consumption. [Auto Power Off] Automatically shut off the camera while not in use. ☐☐Settings: [2MIN.] / [5MIN.] / [10MIN.] / [OFF] To ☐☐ restore → ☐Turn on the camera again. Cannot be used in the following cases: ☐☐ When using the AC adaptor (supplied), when connected to computer/printer, during motion picture recording/playback, during Slide Shows Settings fixed to [5MIN.

] in [Intelligent Auto] Mode.

□□ [Monitor Power Save] The LCD monitor goes dark to minimise power consumption. □□Settings: [ON] / [OFF] Reduces the picture quality of the LCD monitor display during recording to minimise □□ battery consumption (except for the Digital Zoom area). Note, however, that there is no effect on the recorded picture. The □□ setting in [Monitor Mode] is prioritised over the setting in [Monitor Power Save] for the brightness of the LCD monitor. [Auto Review] Automatically display still pictures immediately after taking them. □□Settings The □□ following cases are fixed to the settings indicated below. ••[Intelligent Auto] Mode: [2SEC] Bracket] and [Burst], regardless of the [Auto Review] setting. [1SEC] / [2SEC]: □ isplays the playback screen for a preset time and then automatically D returns to the recording screen [HOLD]: □ uto review screen remains until a button (other than the [DISP.] button) is A pressed [OFF] Automatically displays still pictures immediately after they are taken with [Auto □□ Motion pictures cannot be automatically reviewed. □□ - 49 - VQT4P25 Basics Using the [Setup] menu ••For the setting procedures of the menu.

(→42) [No.Reset] Reset picture file numbers. The □□ folder number is updated and the file number starts from 0001. A □□ folder number between 100 and 999 can be assigned. Numbers cannot be reset once folder number reaches 999.

In this case, save all necessary pictures to your computer, and format the built-in memory/card (→53). To □□ reset folder number to 100: First, format the built-in memory or card, and reset the file numbers using [No.Reset]. Then, select [Yes] on the folder number reset screen. [Reset] Reset to the default settings.

[Reset Rec. settings?] [Reset setup parameters?] Information registered in [Face Recog.] is reset if recording settings are reset. □□ Resetting the setup parameters will also reset the following. □□ Folder numbers and clock settings will not be reset. □□ Camera movement may be audible as the lens function is reset. This is not a fault. □□ Age in years/months and name settings in [Baby] and [Pet] Scene Modes. [USB Mode] Select communication method for when connecting camera to a computer or printer with USB connection cable (supplied). □□Settings [Select on connection]: Select [PC] or [PictBridge(PTP)] each time you connect to □ a computer or PictBridge-compatible printer.

[PictBridge(PTP)]: □ elect when connecting to a PictBridge-compatible printer. S [PC]: Select when connecting to a computer. - 50 - VQT4P25 Basics Using the [Setup] menu ••For the setting procedures of the menu. (→42) [Output] Change the settings to be used when the camera is connected to a TV or other device. □□Settings [Video Out] [TV Aspect] □ This setting performs when an AV cable (optional) is connected.) (/ [NTSC] / [PAL] [VIERA Link] Enable automatic linking with other VIERA Link-compatible devices, and operability with a VIERA remote control when connecting via an HDMI mini cable (optional) (→132). □□Settings [ON]: □ perations may be performed via the remote control of the VIERA LinkO compatible device. (Not all operations will be available.) Operability of the camera's own buttons will be limited. [OFF]: □ perations must be performed via the camera's own buttons. O [3D Playback] Set how 3D still picture is output. □□Settings: [3D] / [2D] If □□ you want to play back a picture in 2D (conventional picture) on a 3D television, set This □□ item of the menu functions when an HDMI mini cable (optional) is connected. For □□ the procedure for playing back a 3D still picture (→134). to [2D]. - 51 - VQT4P25 Basics Using the [Setup] menu ••For the setting procedures of the menu.

(→42) [Rotate Disp.] Automatically rotate portrait still pictures. □□Settings : □ otate and display pictures displayed on a TV screen as well as those R displayed on the LCD monitor of the camera in portrait orientation. : □ otate and display only pictures displayed on a TV screen in portrait orientation. R [Rotate Disp.

] cannot be used with motion pictures. □□ Still □□ pictures taken with the lens surface facing up or down, or still pictures taken on Pictures cannot be rotated during Multi Playback. □□ Will □□ only be displayed rotated on computer if in Exif-compatible (→35) environment (OS, software). other cameras may not rotate. [OFF] [Version Disp.] Check the camera firmware version or display software information. When you press [MENU/SET] while the version is displayed, software information □□ such as the licence is displayed. - 52 - VQT4P25 Basics Using the [Setup] menu ••For the setting procedures of the menu. (→42) [Format] Use when [Built-In Memory Error] or [Memory Card Error] appears, or when formatting the built-in memory or card. When a card/built-in memory is formatted, the data cannot be restored.

Check the content of the card/built-in memory carefully before formatting. When formatting the built-in memory, remove the cards. □□ (Only inserted card will be formatted if present; built-in memory will be formatted if no card is inserted.) Always format cards with this camera. □□ All □□ protected pictures and other picture data will be deleted. Do □□ not turn off the camera or perform other operations during formatting. Formatting the built-in memory may take several minutes. □□ If □□ you cannot format, contact the dealer or your nearest Service Centre. [Language] Change display language. Set the language displayed on the screen.

- 53 - VQT4P25 Basics Using the [Setup] menu ••For the setting procedures of the menu. (→42) [Stabilizer Demo.] Extent of jitter is shown on graph (estimate). Extent of jitter Extent of jitter after correction During demo screen display, the Optical Image Stabiliser switches ON and OFF every □□ time [MENU/SET] is pressed. - 54 - VQT4P25 Application (Record) Changing recording information display Press [DISP.

] button to change display In □□ Recording Mode Recording information□1 Motion picture recording (Number of recordable information□1, □2 (Available recording time) No display pictures) Guide lines□1, □3 In □□ Playback Mode Picture information (recording date and time, etc.) Recording information□1 ([Flash], [Sensitivity] etc.) No display □1 □ et [Histogram] to display a histogram. (→48) S □2 □ eturn to the "Recording information" display by pressing the shutter button halfway. R □3 □About [Guide Line] (→47) During Playback Zoom, Motion Picture Playback, Slide Show: □□ During menu display, Multi Playback or Calendar Playback: □□ Display cannot be changed.

You can only turn the display on or off. - 55 - VQT4P25 Application (Record) Using Zoom You can adjust the area of a picture to be taken using zoom.

Zoom In/Out Capture a wider area (wide-angle) Enlarge the subject (telephoto) When Extra optical zoom is set Focus range Zoom ratio Optical Zoom range Zoom bar Digital Zoom range i.Zoom range The ⬜⬜ zoom speed can be set to one of 2 levels using the angle at which the zoom lever Adjust the focus after adjusting the zoom. ⬜⬜ Do ⬜⬜ not touch the lens barrel during zooming. The ⬜⬜ zoom ratio and the zoom bar displayed on the screen are estimates. The ⬜⬜ camera may make a rattling noise and vibrate when the zoom lever is operated this is not a fault. is moved. - 56 - VQT4P25 Application (Record) Using Zoom Zoom types and use ⬜⬜ Optical Zoom The zoom ratio changes when the picture size is changed. Zooming in up to 20x is possible if pictures without Size] on the [Rec] menu.

(→96) ••[Macro Zoom] ••Scene Mode ([3D Photo Mode]) have been selected by [Picture Optical Zoom cannot be used in the following cases: ⬜⬜ ⬜⬜ Extra optical zoom Zooming in up to 45x is possible when pictures with have been selected by [Picture Size] on the [Rec] menu (→96). EZ is short for "Extra optical zoom". ••[Macro Zoom] ••Motion picture ••When the [Burst] setting is set to or ••Scene Modes ([HDR] [High Sens.] [3D Photo Mode]) ••[Creative Control] Mode ([Toy Effect]) Extra optical zoom cannot be used in the following cases: ⬜⬜ - 57 - VQT4P25 Application (Record) Using Zoom To increase the zoom ratio further, the following zoom can be used in combination. ⬜⬜ [i.ZOOM] You can use the camera's Intelligent Resolution technology to increase the zoom ratio up to 2x higher than the original zoom ratio with limited deterioration of picture quality. Set the [i.Resolution] in the [Rec] menu to [i.ZOOM]. (→103) the picture.
When [i.Resolution] is set to [i.ZOOM], Intelligent Resolution technology is applied to ⬜⬜ [i.ZOOM] does not function in the following cases. ⬜⬜ ••Scene Modes ([Handheld Night Shot] [HDR] [High Sens.
] [3D Photo Mode]) ••When the [Burst] setting is set to or ••[Creative Control] Mode ([Toy Effect]) ••[Macro Zoom] ⬜⬜ [Digital Zoom] Zoom 4x further than Optical/Extra optical zoom. Note that, with Digital Zoom, enlarging will decrease picture quality. Set the [Digital Zoom] in the [Rec] menu to [ON]. (→103) Digital Zoom cannot be used in the following modes: ⬜⬜ ••[Intelligent Auto] Mode ••When the [Burst] setting is set to or ••Scene Modes ([Handheld Night Shot] [HDR] [High Sens.] [3D Photo Mode]) ••[Creative Control] Mode ([Toy Effect] [Miniature Effect]) This ⬜⬜ is fixed to [ON] when [Macro Zoom] is set.
When [Digital Zoom] is used simultaneously with [i.ZOOM], you can only increase the ⬜⬜ zoom ratio up to 2x. - 58 - VQT4P25 Application (Record) Taking pictures with flash Press to display [Flash] Use cursor button to select the desired type and press [MENU/SET] Type, operations Uses Normal use ⬜1 [Auto] •• Automatically judges when to use flash [Auto/Red-Eye]⬜2 Taking pictures of subjects in dark •• Automatically judges when to use flash (reduces places red-eye) Taking pictures with backlight or [Forced Flash On] •• Always uses flash under bright lighting (e.g. fluorescent) 2 [Slow Sync./Red-Eye]⬜ •• Automatically judges when to use flash (reduces Taking pictures of subjects against a red-eye; slow shutter speed to take brighter nightscape (tripod recommended) pictures) [Forced Flash Off] Places where flash use is prohibited •• Never uses flash 1 Only in the ⬜ mode ⬜2 ⬜ wo flashes will be emitted. Do not move until after the second flash. Interval between flashes T varies according to brightness of subject.]/[ ], redWhen [Red-Eye Removal] in the [Rec] menu is set to [ON], the icon changes to [(Face eye is automatically detected and the picture data is corrected. (Only when [AF Mode] is Detection)) ⬜⬜ available flash range when [Sensitivity] setting is [AUTO] The Max.

W Max. T Approx. 0.6 m-6.4 m (2.0 - 21 feet) Approx. 1.0 m-3.3 m (3.3 - 11 feet) - 59 - VQT4P25 Application (Record) Taking pictures with flash ⬜⬜ Available types in each mode (○: Available, –: Not available, [Scene Mode] ○ ○⬜1 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ : Default setting) – – – ○ – ○ – – – ○ ○ ○ ○ ○ ○ ○ ○ – ○ – ○ – ○ – ○ – ○ – ○ – ○ – ○ – ○ – ○ ⬜ ⬜1 Set to , , or depending on the subject and brightness.
••The flash cannot be used when recording motion pictures or in the , , and Scene Modes. , , , , ⬜⬜ Shutter speeds for each flash mode 1/60⬜2 - 1/2000th 1⬜3 - 1/2000th ⬜2 Varies according to [Min. Shtr Speed] setting. ⬜ ⬜3 When [Min. Shtr Speed] is set to [AUTO], and a jitter is detected when [Stabilizer] is turned to [ON], the maximum speed is 1/4 second.
Also varies according to [Intelligent Auto] Mode and Scene Modes, etc. Do ⬜⬜ not put your hands over the light-emitting area of the flash (→8) or look at it from close range. Do not use the flash at close distances to other subjects (heat/light may damage subject). Edges of picture may become slightly dark if using flash at short distances without ⬜⬜ using zoom (close to max. W).
This may be remedied by using a little zoom. The ⬜⬜ effect of red-eye reduction varies depending on the subject and is affected by factors such as distance to the subject, whether the subject is looking at the camera during preliminary flash, and so on. In some cases, the effect of red-eye reduction may be negligible. Flash settings may be changed when changing recording mode. ⬜⬜ Scene Mode flash settings are restored to default when Scene Mode is changed. ⬜⬜ No ⬜⬜ pictures may be taken if these marks (e.g.) are flashing (flash is charging). If ⬜⬜ light from the flash on a subject is insufficient, neither the proper exposure nor White Balance is achieved. The ⬜⬜ flash effect may not be sufficient in the following cases: ••Slow shutter speed •• is set Flash charging may take time if battery is low or if using flash repeatedly.

⬜⬜ - 60 - VQT4P25 Application (Record) Taking close-up pictures When you want to enlarge the subject, setting to [AF Macro] ( ) enables you to take pictures at an even closer distance than the normal focus range (up to 3 cm (0.098 feet) for max. W). Press to display [Macro Mode]) and press "Tele macro" function) Use cursor button to select [AF Macro] ([MENU/SET] close to subject (⬜⬜ Taking close-up pictures without standing display "Tele macro" operates automatically when you increase the zoom ratio to 12 times or higher while [AF Macro] is set, enabling the camera to focus on a subject as close as 1 m (3.