Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for PANASONIC LUMIX DMC-TZ60. You'll find the answers to all your questions on the PANASONIC LUMIX DMC-TZ60 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PANASONIC LUMIX DMC-TZ60
User guide PANASONIC LUMIX DMC-TZ60
Operating instructions PANASONIC LUMIX DMC-TZ60
Instructions for use PANASONIC LUMIX DMC-TZ60
Instruction manual PANASONIC LUMIX DMC-TZ60

Panasonic

Operating Instructions
for advanced features

Digital Camera

Model No. DMC-TZ60
DMC-TZ61

LUMIX

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

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Manual abstract:

.....
.....
.....
..... @@12 Viewfinder (LVF). ....

.....
.....
.....
.....

.....15 . @@..
.....
.....
..... 30 .

. Using the control ring/control dial. .... 33 Taking pictures with automatic settings [Intelligent Auto] Mode. ...
.....
.....
.....

35 . Using Quick menu. .....
.....
.....
.....

.....
34 . Charging battery. ...
.....
.....

.....
.....
@@24 Saving your pictures (cards and built-in memory).....
.....

. 25 Setting the clock. .....
.....
.....
.....

..... 28 . Inserting the battery....
.....
.....
.....

.....
...18 Charging the battery..
.....
.....

.....
.....
....19 .
Remaining battery.....

.....
.....
.....
.....

22 Guidelines for number of recordable pictures and operating time. .....
.....
.....
.....22 . Taking pictures with your own settings [Program AE] Mode....

.....
.....
.....
..... 44 Adjusting focus....

.....
.....
.....
.....

.. 47 . Recording motion pictures. .....
.....
.....
48 Programme Shift.....

.....
.....
.....
.....

..45 Using flash.....
.....
.....
.....

.....
.....
.....
...35 . Automatic Scene Detection. .....

.....
.....
....36 Defocusing the background.
.....

.....
....37 [Motion Deblur].
.....
.....

.....
.....
.....
.....38 . [iHandheld Night Shot].

.....
.....
.....
.....

..39 [iHDR].....
.....
.....
.....

.....
.....
.....
.....

39 . AF Tracking.....
.....
.....
.....

.....
.....

.....
.40 [Intelligent Auto Plus] Mode.....

.....
.....
.41 . About [Intelligent Auto] setting items ...
.....43 Recording capacity guidelines (pictures/recording time)..

.....
.....
.....
.....26 Changing time settings..

.....
.....
.....
.....

29 . Viewing your pictures.....
.....
.....
..... 52 Taking still pictures while a motion . picture is being recorded. .

.....
.....
.....
.....51 Viewing motion pictures...

.....
.....
.... 56 Deleting pictures.
.....

.....
.....
.....
... 58 Setting the menu.....

.....
.....
.....
..... 60 Zooming in and viewing “Playback Zoom”...

.....
.....
.....
.....

.....53 Viewing a list of pictures “Multi Playback”.
.....
.....
.....

.....
.....
.....
..54 . Searching and viewing pictures by their recording date [Calendar].....

.....
.....
.....
.55 . Capturing still pictures from motion pictures.....

.....
.....
.....
.....

.....
.....
...57 . To delete multiple (up to 100)/ To delete all pictures.
.....

.....
.....
.....
.....59 Menu type.....

.....
.....
.....
.....

.....
.....
..61 -2- VQT5E85 Contents Using the [Setup] menu...
.....

.....
62 Entering Text. ....
.....
.....

.....
.....
.....
75 . [Clock Set]. .....

.....
.....
.....
.....

.....
..62 . [Auto Clock Set]..
.....
.....

.....
.....
.....
.....62 [World Time]....

.....
.....
.....
.....

.....
.....
62 [Travel Date]. ....
.....

.....
.....
.....
.....

...62 . [Airplane Mode].....
.....
.....
.....

.....

.....
...62 [Beep]. .
.....

.....
.....
.....
.....

.....
.....
.63 . [Cust.Set Mem.].
.....

.....
.....
.....
.....

..64 [Fn Button Set].....
.....
.....
.....

.....
.....
..64 . [Zoom Lever Set]..
.....

.....
.....
.....
.....64 [Ring/Dial Set].

.....
.....
.....
.....

.....
.....
64 [Live View Mode].....
.....

.....
.....
.....
.....65 [Monitor Display] / [Viewfinder]...

.....
.....
..65 . [Monitor Luminance]..
.....

.....
.....
.....
....66 . [Composition Guide].....

.....
.....
.....
.....

.66 . [Guide Line]. .....
.....
.....

.....
.....
.....
.....
.66 . [Histogram]. .....
.....
.....
.....
.....
.....
..67 . [Video Rec Area]..
.....
.....
.....
.....
.....
.....67 [Remaining Disp.]. ...
.....
.....
.....
.....
.....
.....68 . [Lens Resume]...
.....
.....
.....
.....
.....
..68 [MF Assist].....
.....
.....
.....
.....
.....
...68 . [Peaking].
.....
.....
.....
.....
.....
.....68 [Economy]..
.....
.....
.....
.....
.....
.....
69 [Auto Review].....
.....
.....
.....

.....
.....
..70 [Exposure Comp. Reset]..
.....

.....
.....
...70 [Self Timer Auto Off]..
.....

.....
.....
.....
.....70 [No.Reset]....

.....
.....
.....
.....

.....
.....
...71 [Reset]. .
.....

.....
.....
.....
.....

.....
.....
71 . [Reset Wi-Fi Settings]....
.....

.....
.....
.....
71 [USB Mode]. .....

.....
.....
.....
.....

.....72 .
[TV Connection].....
.....
.....

.....
.....
.....
...72 [Rotate Disp.].....

.....
.....
.....
.....

.....
.73 [Version Disp.]...
.....
.....

.....
.....

.....
.....74 . [Format].

.....
.....
.....
.....

.....
.....
.....
....74 [Language].....

.....
.....
.....
.....

.....
.....
74 Application (Record) Switching the display of recording information, etc.....
.....

.....
.....
.....
. 76 . Taking pictures with the composition determined [Composition Guide].....

.....
.....
.....
77 Using the level gauge.....

.....
.....
. 79 Using Zoom. ...
.....

.....
.....
.....
..... 80 . Taking pictures with flash.

.....
.....
... 85 . Taking pictures with Auto Focus.
..... 88 Taking front-on pictures of people (Face Detection)...

.....
.....
.....
.....

.....89 .
Automatically locking the focus on a moving subject (AF Tracking).....
.....
.....

..90 . Subject not centred in picture (23-area-focusing). .....
.....
.....
.....

.....
..91 . Determined position for focus (1-area-focusing). .
.....
.....

.....
.....
.....
....91 . Zoom types and use.....

.....
.....
.....
.....

.81 . [Step Zoom].....
.....
.....
.....

.....
.....
.....
.83 . Taking close-up pictures (Macro recording).....

.....
.....
.....
..... 93 Taking pictures with Manual Focus.... 96 Taking pictures by locking the focus and/or exposure [AF/AE Lock].

.....
.....
.....
.....

.....
99 Taking pictures with Exposure Compensation.....
.....
.....

.....
.....
. 100 . Burst function...
.....

.....
.....
.....
.... 102 Taking pictures with self-timer. .....

... 105 . Taking pictures by setting the aperture value [Aperture-Priority] Mode.....
.....
.....
.... 106 Taking pictures by setting the shutter speed [Shutter-Priority] Mode.....

.....
.....
. 107 Taking pictures by setting the aperture value and shutter speed [Manual Exposure] Mode....
.....

..... 108 Focus range.....
.....
.....
.....

.....
.....
.....
....94 [Macro Zoom].....

.....

.....
.....
.....

.....
.95 Recording while exposure is changed automatically ([Auto Bracket])....
.....
.....

.101 -3- VQT5E85 Contents Taking Pictures with different picture effects [Creative Control] Mode. .....
.....
.....
. 110 . Recording panorama pictures [Panorama Shot] Mode.....

.....
.... 119 Taking pictures according to the scene [Scene Mode].
.....
.....

.....
.....
.....
.. 123 [Expressive].....

.....
.....
.....
.....

..... 112 .
[Retro].....
.....
.....

.....
.....
.....
.....

..... 112 [Old Days]....
.....
.....
.....

.....
.....
.....
..... 112 [High Key]....

.....
.....
.....
.....

.....
.....
. 113 . [Low Key]...
.....

.....
.....
.....
.....

..... 113 [Sepia]..
.....
.....

.....

.....
.....
.....
.....

.... 113 [Dynamic Monochrome].....
.....
.....
.....

... 114 [Impressive Art].....
.....
.....
.....

.....
.....
114 [High Dynamic]. ....
.....

.....
.....
.....
..... 114 . [Cross Process]. .

.....
.....
.....
.....

..... 115 .
[Toy Effect].....
.....
.....

.....
.....
.....
..... 115 [Miniature Effect].

.....
.....
.....
.....

..... 116 [Soft Focus].
.....
.....
.....

.....
.....
.....
..... 117 [Star Filter]...

.....
.....
.....
.....

.....
.....
. 117 . [One Point Color]...
.....

.....
.....
.....
..... 118 . Changing the settings assigned to . the control ring/control dial. .

.....
.. 134 Recording with the Face Recognition function [Face Recog.]..
.....
.....

.....
.....
.....
. 135 Registering face pictures .....

.....
.....
..136 Editing or deleting information about registered persons ...
.....

.....
.....
.....
...137 Useful features for travel.....

.....
.. 138 Using the [Rec] menu...
.....
.....

..... 140 . [Travel Date]. ..
.....
.....
.....

.....
.....
.....
...138 . [World Time] .....

.....
.....
.....
.....

.....
139 Registering your own settings and recording [Custom] Mode.....
.....
.....

.....
.....
131 Registering preferred functions to the [Fn] button.....
.....

.....
.....
.....
. 133 [Cust.Set Mem.].....

.....
.....
.....
.....

....131 [Custom]. .....
.....

.....
.....

.....
.....
.....
.....132 . [Portrait]...

.....
.....
.....
.....

.....
.....
.....
124 . [Soft Skin]. .....

.....
.....
.....
.....

.....
.124 . [Scenery]...
.....
.....

.....
.....
.....
.....

....124 [Sports]. .....
.....
.....
.....

.....
.....
.....
.....125 . [Night Portrait].

.....
.....
.....
.....

.....
...125 [Night Scenery]..
.....
.....

.....
.....
.....
.....125 . [Handheld Night Shot]....

.....
.....
.....
.....126 [HDR]..

.....
.....
.....
.....

.....
.....
.....
.....126 [Food].....

.....
.....
.....
.....

.....
.....
.....
..126 [Baby].....

.....
.....
.....
.....

.....
.....
....127 [Pet].
.....

.....
.....
.....
.....

.....
.....
...127 . [Sunset].
.....

.....
.....
.....
.....

.....
...127 [High Sens.].
.....
.....

.....
.....
.....
.....

.128 . [Starry Sky].....
.....
.....
.....

.....
.....
.....
128 . [Glass Through].....

.....
.....
.....
.....

..128 . [High Speed Video].....

.....
.....
.....

.....129 [3D Photo Mode].
.....
.....
.....

.....
.....
....130 Using the [Motion Picture] menu.
..... 152 [Aspect Ratio]. ....

.....
.....
.....
.....

.....140 .
[Picture Size].....
.....
.....

.....
.....
.....
.....140 [Quality]....

.....
.....
.....
.....

.....
.....
.....
141 [Sensitivity].....

.....
.....
.....
.....

.....142 [ISO Limit Set].
.....
.....
.....

.....
.....
.....
...143 [Extended ISO]. .....

.....
.....
.....
.....

.....143 . [White Balance]....
.....
.....
.....

.....
.....
...144 . [AF Mode].

.....

.....
.....
.....
.....

.....146 .
[Quick AF].....
.....
.....

.....
.....
.....
.....

146 [Face Recog.]. .....
.....
.....
.....

.....
.....
146 . [AF/AE Lock]....
.....

.....
.....
.....
.....

..146 [Metering Mode].....
.....
.....
.....

.....
...147 [i.Exposure].
.....
.....

.....
.....
.....
.....

..147 [Min. Shtr Speed].....
.....
.....
.....

.....
..148 [i.Resolution]..
.....
.....

.....
.....
.....
.....148 [i.

Zoom].....
.....
.....
.....

.....
.....
.....
....148 [Digital Zoom].....

.....
.....
.....
.....

.....148 [AF Assist Lamp].
.....
.....
.....

.....
.....
....149 [Red-Eye Removal].
.....

.....
.....
.....
.....149 [Motion Deblur]. ....

.....
.....
.....
.....

.....150 . [iHandheld Night Shot]..
.....
.....
.....

.....150 .
[iHDR].....
.....
.....

.....
.....
.....
.....

.....150 [Stabilizer]....
.....
.....
.....

.....
.....
.....
.....150 [Date Stamp]....

.....
.....
.....
.....

.....
..151 [Rec Format]...
.....
.....

.....
.....

.....
.....152 [Rec Quality]..

.....
.....
.....
.....

.....
....152 .
[Still Picture Size].....
.....

.....
.....
.....
....153 [Continuous AF].....

.....
.....
.....
.....

.....154 . [Level Shot]....
.....
.....
.....

.....
.....
.....
....154 [Wind Cut].....

.....
.....
.....
.....

.....
....155 [Zoom Mic].
.....
.....

.....
.....
.....
.....

...155 -4- VQT5E85 Contents Application (View) Changing the picture information display, etc.....
.....
.....
.....

.....
.....
156 Playing back still pictures recorded using the burst function.....
.....

..... 157 Different playback met.....
.....
200 Sending location information to the camera from a smartphone/tablet.....
.....201 Operating the camera to send pictures to a smartphone or tablet.

.....
.....
.....
.....202 About connections....

.....
.....
.....
..... 245 [Wi-Fi Setup] menu. ....

.....
.....
.....
... 255 . [Via Network] Connecting via a wireless access point.....246 [Direct] Connecting directly.

.....
.....
.....
...249 Connecting quickly with the same settings as used previously ([History Connection]/ [Favorite Connection]). .....

.....
.....
.....
....250 . Settings for sending pictures. ....

.....
.....
.253 . When sending images to WEB service...
...222 When sending images to [Cloud Sync. Service]. .....

.....
.....
.....
.....227 . -6- VQT5E85 Contents GPS Using the GPS function to record the location of a picture...

.....
.....
... 257 Connecting with other devices Viewing on TV screen..
.....

.....
.. 277 Storing recorded still pictures and motion pictures in the recorder...
.....
283 VIERA Link (HDMI) (HDAVI Control™).....279 Viewing 3D still pictures....

.....
.....
.....
.....281 Adjusting the time using GPS.....

..... 265 Reducing the time required for positioning....
.....
.....
.....

.....
.....
... 266 [GPS Setting]..
.....

.....
.....
.....
.....

...258 [Repositioning].....
.....
.....
.....

.....

.....
.261 [GPS Area Select]....
.....

.....
.....
.....
....263 [Area Info. Set].....

.....
.....
.....
.....

.....264 [Airplane Mode]..
.....
.....
.....

.....
.....
.....
264 Registering my landmark.....

..... 272 Using the GPS log..
.....
.....
.....

..... 273 Using the “GPS Assist Tool”..
.....
.....
.....

.266 Using the Wi-Fi function to update.....
....270 Checking the expiration date of the GPS assist data.
.....
.....

.....
.....
.....
.....271 Storing recorded still pictures and motion pictures on your PC.....

..... 284 Copying by inserting the card into the recorder.
.....
.....
.....

.....
.....
.....
.....

..283 . Dubbing playback pictures via AV cables (optional).....
.....
.....
.....

.....
.....
.....
.....283 Recording the GPS log.....

.....
.....
.....

.....273 . Outputting the GPS log file....

.....
.....
.....
275 . Deleting the GPS log.....

.....
.....
.....
....276 Printing.....

.....
.....
.....
.....

.....
.. 291 About supplied software. ..
.....
.....

.....
285 . Installing supplied software....
.....
.....

.....286 Downloading SILKYPIX Developer Studio SE.....
.....
.....
.....

.....
.....
.....
.....287 Copying still pictures and motion pictures....

.....
.....
.....
.....

.....
.....
.....
288 . Printing multiple pictures.....

.....
.....
....293 Printing with date and text.
.....

.....
....293 .
Making print settings on the camera.....
.....294 Others List of LCD monitor/Viewfinder displays.....

.....
.....
.....
.....

.....
.. 295 Message displays...
.....
.....

.....
... 300 Q&A Troubleshooting..
.....
.....

..... 304 Usage cautions and notes....
.....
.....
... 316 In recording.....

.....
.....
.....
.....

.....
.295 In playback....
.....
.....

.....
.....
.....
.....

298 User Licence Agreement for Location Name Data.....
.....
.....
.....320 -7- VQT5E85 Preparations Before use □□ Camera handling Keep the camera away from excessive vibration, force, or pressure.

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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 ••Sitting down with the camera in your pants pocket or forcing it into a full bag ••Adding accessories to the camera strap ••Pushing with excessive force on the lens or LCD monitor 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.
-8- VQT5E85 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. We cannot compensate for missed shots if technical problems with the camera or card prevent recording. Unauthorised use of recordings that 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" (→316) 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.
*Recording mode icons □□ In Recording Modes that show icons in black, you can select and execute indicated menus and functions. * □] and [ ] will differ depending on the Recording Modes registered under custom settings. [-9- VQT5E85 Preparations Before use About GPS □□About the camera's location name information □□About the GPS function Before using the camera, read "User Licence Agreement for Location Name Data". (→320) ••Information measured with this unit is simply a rough estimate. Please do not use for professional applications.*
••When [GPS Setting] is [ON], the GPS function works even if the camera is turned off. - Electromagnetic waves from the camera can affect instruments and meters. In □ airplane cabins (during takeoff and landing) or in other restricted areas, set [Airplane Mode] to [ON], and then turn off the camera. (→62) - When [GPS Setting] is [ON] and [Airplane Mode] is [OFF], power will drain from the □ battery even if the camera is turned off. ••The names of recording locations and landmarks (such as buildings) are current as of October 2012. These will not be updated. ••Depending on the country or area, limited location name and landmark information may be available. ••Positioning will take time in environments where it is difficult to receive the signals from the GPS satellites. (→257) ••Even if GPS reception is good, it will take approx. 2 to 3 minutes to successfully execute positioning under the following conditions: when positioning is executed for the first time, or when positioning is executed after the camera is turned off with the [GPS Setting] set to [OFF] or [Airplane Mode] set to [ON], and then turned on again.

Positioning can be executed faster using GPS assist data. (→266) ••Because the positions of the GPS satellites are constantly changing, depending on the recording location and conditions, it may not be possible to position such satellites accurately, or positioning discrepancy may occur. ••The GPS function may not work in China or in the border regions of countries neighbouring China. (Current as of January 2014) ••Some countries or regions may regulate the use of GPS or related technology. Because this camera has a GPS function, before taking it into another country, check with the embassy or your travel agency whether there are any restrictions on bringing cameras with a GPS function. □□Recording location information □□Positioning □□When using in another country - 10 - VQT5E85 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. Battery Pack is indicated as battery pack or battery in the text. □□ SD □□ Memory Card, SDHC Memory Card and SDXC Memory Card are indicated as card in the text.
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. (→25) - 11 - VQT5E85 Preparations Names and Functions of Main Parts 1 2 3 4 5 1 Flash (→31, 85) 2 Self-timer indicator (→105) / AF Assist Lamp (→149) Illuminates when the self-timer is set or when the Auto Focus is operated in dark locations.
Allows you to zoom and adjust settings when recording. 3 Control ring (→33) 4 Lens barrel 5 Lens 6 Speaker (Top) 6 7 8 9 10 11 12 7 Microphones (→31, 48) 8 Mode dial (→30) 9 Shutter button 10 Zoom lever (→80) Use the lever to zoom in and enlarge a distant subject. Record motion pictures. Use this to select the Recording Mode. 11 Motion picture button (→48) 12 Camera [ON/OFF] button Use this to turn the camera on and off.
(Bottom) 13 14 15 13 Tripod mount (→318) Do not attach to a tripod with a 5.5 mm (0.22 inch) or longer screw. Doing so may damage this unit. It may not be possible to attach certain types of tripods properly. Open this door to insert and remove a card or battery. 14 Card/Battery door (→18, 24) 15 Release lever (→18, 24) - 12 - VQT5E85 Preparations Names and Functions of Main Parts 16 17 18 19 20 21 22 23 16 Viewfinder (LVF) (→15) In this manual, "viewfinder" is used to indicate the LVF.

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Turn the dial to adjust the focus in the viewfinder. Use this to switch display between viewfinder and LCD monitor. 17 Diopter adjustment dial (→15) 18 [LVF] button (→15) 19 LCD monitor (→65, 66, 295) 20 Charging lamp (Red) (→20) Wi-Fi® connection lamp (Blue) (→186) GPS status indicator (Green) (→258) 21 Strap eyelet (→16) 22 [HDMI] socket (→277, 279) Do not connect any other cables except the HDMI micro cable.

Doing so may cause malfunction. This socket is also used when charging the battery. (→19) The colour of the lamp differs depending on the function. 23 [AV OUT/DIGITAL] socket (→277, 283, 288, 291) - 13 - VQT5E85 Preparations Names and Functions of Main Parts 21 24 25 27 31 28 26 30 32 29 21 Strap eyelet (→16) 24 [Wi-Fi] antenna 25 GPS antenna (→258) 26 NFC antenna (→194) 27 [Wi-Fi] button (→186) 28 Playback button Use this to select the Recording Mode or Playback Mode. You can display the Quick Menu (→34) and erase pictures (→58). You can also use this button to return to the previous screen while a menu is displayed (→60). Use this to change display. 29 [Q.MENU/] / [ ] button 30 [DISP.] button (→76, 156) 31 [Fn] button (→133) Use this to use registered functions.

32 [MENU/SET] button / Cursor button / Control dial (→16) The illustrations and screens in this manual may differ from the actual product. - 14 - VQT5E85 Preparations Names and Functions of Main Parts Viewfinder (LVF) When you use the viewfinder, you can check the view of the subject even if you are in a bright area. Switching between the LCD monitor and viewfinder Press [LVF] button ••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).

About diopter adjustment Adjust the diopter to suit your vision so that you can see the Viewfinder clearly. Turn the diopter adjustment dial to adjust until you are able to clearly see the characters displayed in the viewfinder. Diopter adjustment dial When doing diopter adjustment, align the centre of the viewfinder with your eye. - 15 - VQT5E85 Preparations Names and Functions of Main Parts [MENU/SET] button / Cursor button / Control dial [MENU/SET] button Cursor button •• Use this button to display the menus, enter the settings, etc. (→60) This button is used to move the cursor on the menu screens and for other functions.

(→60) You can perform the following operations while recording. [ ] button ( ) [ ] button ( ) [Flash (→85) Exposure Compensation (→100) [ ] button ( ) Control dial Burst (→102), Auto Bracket (→101), Self-timer (→105) Macro recording (→93, 95), Manual Focus (→96)] button ( ) Turn the dial to select setting items and change setting values. (→33, 52, 60) In this manual, the button that is to be used is indicated by . Putting on the hand strap We recommend using the supplied hand strap to avoid dropping the camera. Strap eyelet - 16 - VQT5E85 Preparations Charging battery Always use the dedicated AC adaptor (supplied), USB connection cable (supplied), and battery for this camera. ••Always charge before first use! (battery shipped uncharged) ••Charge the battery while it is in the camera. Camera status Turn off Turn on Charge Yes No 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. Power supply By using the AC adaptor (supplied) when the battery is in the unit and turning on the unit, the unit can be powered from an electrical outlet through the USB connection cable (supplied). ••The battery may become drained during recording. If the battery is drained, the unit will turn off. ••The unit can be powered only if the battery is in it. ••Turn off the unit before inserting or removing the AC adaptor (supplied). - 17 - VQT5E85 Preparations Charging battery Inserting the battery To charge the battery, insert it into the camera. Slide the release lever to the [OPEN] position and open the card/battery door [OPEN] [LOCK] Release lever Insert the battery all the way ••Insert the battery all the way firmly and check that it is locked by lever. Close the card/battery door and then slide the release lever to the [LOCK] position Lever Make sure to insert the battery in the correct orientation. remove battery To Move the lever in the card/battery compartment in the direction of the arrow.

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 •• Keep the battery in a plastic bag, making sure that it is kept away from metallic objects (such as clips) when carrying or storing it. the screen goes off.

(Failure to wait may cause the camera to malfunction and may damage the card or recorded data.) - 18 - VQT5E85 Preparations Charging battery Charging the battery We recommend charging in a location where the ambient temperature is between 10 °C and 30 °C (50 °F to 86 °F) (same for the battery temperature). Make sure that the camera is turned off. AC adaptor (supplied) USB connection cable (supplied) Computer Getting ready: Turn on the computer. When charging the camera, connect the USB connection cable (supplied) to the [AV OUT/DIGITAL] socket (gold terminal).

[AV OUT/DIGITAL] socket •• Place the camera in an upright position, and find the gold terminal at the bottom. Insert the USB connection cable so that its [ ] mark will face the [ ] mark side of the camera. •• 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.) Also, do not insert into the wrong socket. Doing so may cause damage to this unit. Charging the battery by connecting the camera to the electrical outlet Charging the battery through the computer Connect the AC adaptor (supplied) and the camera using the USB connection cable (supplied), and plug the AC adaptor into the electrical outlet.

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••Be sure to only use the AC adaptor (supplied) indoors. Connect the camera to the USB connector of a computer using the USB connection cable (supplied). - 19 - VQT5E85 Preparations Charging battery 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 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. □□ Charging lamp indications Charging lamp (Red) On: Charging in progress Off: □ harging stops C (After charging stops, disconnect the camera from the electrical outlet or your computer.) Flashing: □ harging error C (For instructions on correcting the problem, refer to (→304).) □□ Notes on charging time Charging time When using the AC adaptor (supplied) Approx. 170 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.

••The time required for charging through the computer varies depending on the power supply capacity of the computer. - 20 - VQT5E85 Preparations Charging battery Panasonic USB connection cable (optional). Doing so may cause malfunction of the camera. Do □□ not use any other AC adaptors except the supplied one. 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 even when the camera is connected to the AC adaptor (supplied) or a computer, check to make sure it is properly connected. (→19) If □□ you try to recharge the battery when it is already fully charged, the charging lamp will light for approximately 15 seconds. Do □□ not use any other USB connection cables except the supplied one or a genuine - 21 - VQT5E85 Preparations Charging battery 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. 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.

••When the GPS function is operating. □□ Recording still pictures (When using LCD monitor) Number of recordable pictures Recording time Approx. 300 pictures Approx. 150 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. ••[GPS Setting] is set to [OFF] ••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). - 22 - VQT5E85 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. [FHD/50p] Approx. 75 min Approx. 30 min [AVCHD] [FHD/50i] Approx.*

*80 min Approx. 35 min [MP4] [FHD/25p] Approx. 90 min Approx. 40 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 ••[GPS Setting] is set to [OFF] ••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. Remaining time for continuous recording is displayed on the screen □□ □□ Viewing pictures (When using LCD monitor) Playback time Approx. 210 min If □□ available battery power is significantly reduced, battery is reaching end of lifespan.*

Please purchase a new battery. - 23 - VQT5E85 Preparations Inserting and removing the card (optional) ••Make sure that the camera is turned off. Slide the release lever to the [OPEN] position and open the card/ battery door [OPEN] [LOCK] Release lever Insert the card all the way ••Push in until it clicks. Close the card/battery door and then slide the release lever to the [LOCK] position □□ remove card To Card (Check orientation) Do not touch the terminals on the back of the card. 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 screen goes off. (Failure to wait may cause the camera to malfunction and may damage the card or recorded data.) - 24 - VQT5E85 Preparations 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. 12 MB) You □□ can store only still pictures.

Pictures may be copied between cards and the built-in memory. (→184) □□ 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.

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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.) 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). 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. (→74) 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).*

- 25 - VQT5E85 Preparations Saving your pictures (cards and built-in memory) 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 (switch with [Remaining Disp.] (→68)) Displayed when no card is inserted (pictures will be saved to built-in memory) □□ Recording picture capacity (still pictures) When [Aspect Ratio] is set to [[Picture Size] 18M 5M 0.3M 1 3 69 Built-in memory 2 GB 270 650 10050] and [Quality] is set to [ ] 32 GB 4420 10620 162960 64 GB 8820 21490 247150 ••When the number of recordable pictures exceeds 99,999, "+99999" is displayed. - 26 - VQT5E85 Preparations Saving your pictures (cards and built-in memory) □□ Recording time capacity (motion pictures) When [Rec Format] is [AVCHD] [Rec Quality] [FHD/50p] [FHD/50i] / [HD/50p] 2 GB 8m00s 14m00s ([h], [m] and [s] indicate "hour", "minute" and "second".) 32 GB 2h31m00s 4h10m00s 64 GB 5h07m00s 8h26m00s When [Rec Format] is [MP4] [Rec Quality] [FHD/25p] [HD/25p] [VGA/25p] 2 GB 12m00s 22m00s 50m00s 32 GB 3h22m00s 6h27m00s 14h12m00s 64 GB 6h50m00s 13h04m00s 28h46m00s ••The time displayed in the table is the total time. 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.

- 27 - VQT5E85 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 [Q.MENU/] button. Press [MENU/SET] to set Press [MENU/SET] ••To return to the previous screen, press [Q.MENU/] button. (Continued on the next page) - 28 - VQT5E85 Preparations Setting the clock Press to select [Yes] and press [MENU/SET] if automatically correcting time of day using the GPS function ••[GPS Setting] (→258) is set to [ON].

••To manually set date and time → Select [No], and press [MENU/SET]. When [Please set the home area] is displayed, press [MENU/SET] Press to set your home area and press [MENU/SET] Current time City or area name Difference from GMT (Greenwich Mean Time) ••If the time zone of your current location is different from that of [Home], [World Time] (→139) is set to [Destination]. ([ ] will be displayed next to the time and date on the screen) 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. Changing time settings Select [Clock Set] from the [Setup] menu to change the current time settings. ••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 ••For details about how to set the menu (→60) Set the date and time (Perform steps - . (→28)) - 29 - VQT5E85 Basics Sequence of operations Press the Camera [ON/OFF] button to turn on the camera 1 Set to the desired Recording Mode Align the mode dial correctly to → the mode that you want to use. [Intelligent Auto] Mode [Program AE] Mode Take pictures with automatic settings.

(→35) Take pictures with automatic shutter speed and aperture value settings. (→44) Determine aperture, then record pictures. (→106) Determine shutter speed, then record pictures. (→107) Determine aperture and shutter speed, then record pictures. (→108) Record pictures using pre-registered settings. (→131) Record panorama pictures. (→119) This allows you to take pictures that match the scene being recorded. (→123) Take pictures by selecting your preferred picture effect. (→110) 2 [Aperture-Priority] Mode [Shutter-Priority] Mode [Manual Exposure] Mode [Custom] Mode [Panorama Shot] Mode [Scene Mode] [Creative Control] Mode (Continued on the next page) - 30 - VQT5E85 Basics Sequence of operations Aim the camera and shoot □□ Taking still pictures ress the shutter button halfway to focus P □ Press the shutter button fully to take the picture Press halfway (press lightly to focus) Press fully (press the button all the way to record) □□ Recording motion pictures □ Press the motion picture button to start recording □ Press the motion picture button again to finish recording 3 □□ Holding the camera Flash/AF Assist Lamp Microphones Do not block the flash or the lamp.

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Do not look at it from close range.

Hand strap We □□ recommend using the supplied hand strap to avoid dropping the camera. ••To avoid camera shake, hold it with both hands keeping your arms close to your body while standing with your feet slightly apart. ••Do not touch the lens. ••Do not block the microphone when recording motion pictures. ••Make sure that the camera does not move at the moment the shutter button is pressed.

(Continued on the next page) - 31 - VQT5E85 Basics Sequence of operations Play back pictures □ ress the Playback button P 4 □ ress P or turn the control dial to select the picture to be displayed □□ Viewing motion pictures Select a picture with the motion picture icon, and press . Press the Camera [ON/OFF] button to turn off the camera 5 - 32 - VQT5E85 Basics Using the control ring/control dial The "Control Ring/Control Dial" is an easy and convenient way to adjust several settings, depending on the camera mode selected. You can use the control ring ( )/control dial ( ) to change the settings of the unit. (In [Intelligent Auto] Mode) Setting indication Items that can be set by the control ring/control dial vary depending on Recording Modes. Following are the pre-assigned settings.

*Recording mode [Intelligent Auto] Mode [Program AE] Mode [Aperture-Priority] Mode [Shutter-Priority] Mode [Manual Exposure] Mode [Panorama Shot] Mode [Scene Mode] [Creative Control] Mode 1 When Control ring*1 Step Zoom (→83) Programme Shift (→45) Aperture adjustment (→106) Shutter speed adjustment (→107) Aperture adjustment (→108) Scene change (→123) Picture effects change (→110) Control dial Shutter speed adjustment*2 (→108) Picture effects change (→119) * Manual Focus is set, the control ring is assigned to focus adjustment. (→96) *2 Press to switch between aperture adjustment and shutter speed adjustment. ••The control ring/control dial can be used to change to your preferred settings. (→134) - 33 - VQT5E85 Basics Using the control ring/control dial Using Quick menu During recording, you can easily call some of the menu items and set them. Press [Q.MENU/] button Press to select menu items ••The menu items and setting items that are displayed differ depending on the Recording Mode. Turn the control ring or control dial to change the setting Press [MENU/SET] - 34 - VQT5E85 Basics Taking pictures with automatic settings [Intelligent Auto] Mode □□Recording 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 mode dial 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 Using flash Press to select [ ] or [ ]. When [□□] is selected, the setting switches to [ ], [ ], [ ], or [ ] according to the subject and brightness. When [ ] 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. □□ - 35 - VQT5E85 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-Night Portrait]*2 (Only when [ ] is selected) [i-Baby]*1 [i-Scenery] [i-Night Scenery]*2 [i-Sunset] [i-Handheld Night Shot]*3 [i-Food] [i-Macro] The icon of scene detected When scene does not correspond to any of the above When recording motion pictures (→48) [i-Portrait] [i-Low Light]*4 [i-Scenery] [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 □ e recommend using a tripod and the self-timer. W *3 □ hen [iHandheld Night Shot] is [ON]. W *4 □i-Low Light] will be selected for nightscapes and other dark scenes. [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 screen (depending on the backlighting conditions, backlighting may not be detected correctly). - 36 - VQT5E85 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 Turn the control ring or control dial to adjust background defocusing Defocus background condition Defocus the background Focus the background ••[AUTO] is displayed in the icon during automatic adjustment.

••You can also make adjustments with . ••To return to automatic adjustment → Press [Q.MENU/] button. Press [MENU/SET] - 37 - VQT5E85 Basics Taking pictures with automatic settings [Intelligent Auto] Mode 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.

(→41) If □□ the camera is turned off or the Recording Mode is changed, the background defocusing setting returns to [AUTO]. When you record motion pictures, the camera performs aperture control within the □□ [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.

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- 38 - VQT5E85 Basics Taking pictures with automatic settings [Intelligent Auto] Mode [iHandheld Night Shot] If a night scene is detected automatically while the unit is being handheld, [iHandheld Night 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. □□Settings ress [MENU/SET] P □ Press to select [Rec] menu and press [MENU/SET] □ Press to select [iHandheld Night 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 □□ The □□ angle of view becomes narrow slightly. means, [iHandheld Night Shot] will not be identified. The portions displayed in grey are not recorded.

[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 screen. 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 the maximum optical zoom ratio ••[Burst] mode ••When the flash fires In □□ the case of composition from a burst, afterimages may appear if the subject was moving. - 39 - VQT5E85 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 ••To cancel AF Tracking → Press . Align the AF Tracking frame with the subject and press the shutter button halfway to lock ••To cancel AF Lock → Press [MENU/SET]. AF Tracking frame (□ F Lock successful: Yellow A 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. - 40 - VQT5E85 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 [iA MODE] menu to switch the mode. □□ Switching to [Intelligent Auto Plus] Mode Press [MENU/SET] Use to select [iA MODE] menu and press [MENU/SET] Use to select [Intelligent Auto Plus] and press [MENU/SET] - 41 - VQT5E85 Basics Taking pictures with automatic settings [Intelligent Auto] Mode □□ Adjusting brightness, colouring, and background defocusing Press Press to select an item to adjust Adjusts brightness.
Adjusts background defocusing. Adjusts colouring. ••[AUTO] is displayed in the icon during automatic adjustment. Turn the control ring or control dial to adjust Brightness Defocus background condition Colouring Underexposure (dark) Defocus the background Warm colours Overexposure (bright) Focus the background Cool colours ••You can also make adjustments with . ••To return to automatic adjustment → Press [Q.
MENU/] button. Press [MENU/SET] 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. If □□ the camera is turned off or the Recording Mode is changed, the background defocusing and colouring settings return to [AUTO]. When you set [Exposure Comp. Reset] to [ON] in the [Setup] menu, the brightness □□ setting returns to [AUTO] if you turn off the camera or change the Recording Mode. (→70) - 42 - VQT5E85 Basics Taking pictures with automatic settings [Intelligent Auto] Mode About [Intelligent Auto] setting items 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] on the [Rec] menu ••[Beep] on the [Setup] menu ([Beep Level] and [Shutter Vol.] only) The □□ settings for the following functions are fixed: [Setup] menu ••[Fn Button Set]: [Composition Guide] ••[Auto Power Off]: [5MIN.] ••[Auto Review]: [2SEC] [Rec] menu ••[Quality]: [ ] ([Fine]) ••[White Balance]: [AWB] ••[Quick AF]: [ON] ••[i.

Exposure]: [ON] ••[AF Assist Lamp]: [ON] ••[Stabilizer]: [ON] ••[Sensitivity]: [ ] ••[AF Mode]: [ ] ([Face Detection]) □ [ ] (23-area-focusing) when face cannot be recognised ••[Metering Mode]: [ ] ([Multi Metering]) ••[i.Resolution]: [ON] ••[i.Zoom]: [ON] ••[Red-Eye Removal]: [ON] [Motion Picture] menu ••[Continuous AF]: [ON] ••[Wind Cut]: [AUTO] The □□ following functions cannot be used: [Histogram], [Video Rec Area], [Exposure Comp.], [Auto Bracket], [WB Adjust.], [Min. Shtr Speed], [Digital Zoom] - 43 - VQT5E85 Basics Taking pictures with your own settings [Program AE] Mode □□Recording 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 mode dial 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 If □□ aperture and shutter speed are shown in red, [Stabilizer], a tripod, or [Self Timer]. you 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 - 44 - VQT5E85 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”.

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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 in yellow on the screen. While the numeric values are being displayed in yellow (approximately 10 seconds), turn the control ring or control dial to select the 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 → □ urn the control ring or control dial until [ ] (Programme Shift indication) T disappears. - 45 - VQT5E85 Basics Taking pictures with your own settings [Program AE] Mode 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 cannot be used in the following cases: □□ ••When recording motion pictures ••When [Sensitivity] is set to [ ] activated. However, the Programme Shift setting is memorised.

□□ Example of Programme Shift 1 (Aperture value) 2.0 2.8 4.0 5.6 8.0 11 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. - 46 - VQT5E85 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 Press fully AF area 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. Focus display 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. The □□ quality of the picture display may be lower during Auto Focus. Focus range - 47 - VQT5E85 Basics Recording motion pictures □□Recording mode: You can record motion pictures with audio (stereo). ••Motion pictures cannot be recorded in the built-in memory.

Press the motion picture button to start recording Microphones [Rec Format] (→152)/ [Rec Quality] (→152) Do □□ not block the microphones when recording motion Immediately release the motion picture button after □□ You □□ can record motion pictures fitting each Recording You □□ can also use zoom while recording motion Mode. pictures. ••The zoom speed will be slower than normal. ••The operating sounds of the zoom lever or control ring/control dial may be recorded in some cases. Still □□ pictures can be taken during motion picture recording.

(→51) pressing it. pictures. Elapsed recording time Remaining recording time (approx.) Press the motion picture button again to end recording - 48 - VQT5E85 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 motion pictures on a high-resolution TV or for saving them to a disc. AVCHD Progressive: The [50p] in [FHD] is a mode that allows motion pictures to be recorded at 1920 x 1080/50p, the highest quality that complies with the AVCHD standard. Recorded motion pictures can be saved and played back using this unit or “PHOTOfunSTUDIO”. * This means the highest quality for this unit. MP4: This is a simpler video format best used when extensive editing is needed, or when uploading videos to WEB services. □□ 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. ••Motion pictures recorded with [50p] in [FHD] can be played back on equipment that is compatible with AVCHD Progressive. ••AVCHD motion pictures recorded with the picture quality that has the [ ] icon may not play back even on compatible equipment.*

Record without the [ ] motion picture quality setting to prioritise playback on other equipment. - 49 - VQT5E85 Basics Recording motion pictures If □□ the surrounding temperature is high, or a motion picture is recorded continuously, [ ] is displayed and recording may be stopped halfway through to protect the camera. When using zoom while recording motion pictures, it may take some time to focus. □□ 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 □□ 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 card may be reduced. To restore the original capacity, use the camera to format the 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. [Stabilizer] 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.

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The recordable area is displayed by setting [Video Rec Area] (→67) 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. [Sensitivity] is set automatically while a motion picture is being recorded. Also [ISO Limit Set] is disabled. Motion pictures cannot be recorded in the following cases: •[3D Photo Mode] Scene Mode •[Creative Control] Mode ([Soft Focus], [Star Filter]) 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 • Scene Modes ([Sports], [HDR], [Pet]) [Baby] Scene Mode Scene Modes ([Night Portrait], [Night Scenery], [Handheld Night Shot], [Starry Sky]) Recording Mode while recording motion picture Normal motion picture Portrait Mode Low Light Mode - 50 - VQT5E85 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 can be taken while a motion picture is being recorded. [Still Picture Size] (→153) 13.5M 6M 2M Maximum number of pictures 10 pictures •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. Burst function When the burst function has been set in advance, a burst of still pictures can be recorded during motion picture recording. •When the burst setting is set to [ ], [ ] or [ ], still pictures are automatically recorded using the [ ] setting. •Even at the [ ] or [ ] setting, the focus is fixed at the first picture.

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. (→57) 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/25p] •When recording [High Speed Video] The flash is set to [ ] ([Forced Flash Off]). Since the electronic shutter is used for recording, the pictures recorded may be distorted. Compared to normal still picture recording, the picture quality may be coarser. When [Quality] is set to [ ], [ ] or [ ], still pictures are recorded with the [ ] setting in JPEG file format. - 51 - VQT5E85 Basics Viewing your pictures When a card is in the camera, pictures are played back from the card.

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. Press or turn the control dial to select the picture to be displayed •When you press and hold , the pictures are displayed one after another. View pictures Picture number/Total pictures Location name information and latitude & longitude information are provided (→170, 260) Folder/File number Ending Playback Press the Playback button or the Motion picture button again, or press the shutter button halfway. 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. - 52 - VQT5E85 Basics Viewing your pictures 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, automatic scrolling playback of panorama pictures or burst playback. - 53 - VQT5E85 Basics Viewing your pictures Viewing a list of pictures "Multi Playback" Move the zoom lever toward W side Picture no./Total no. Motion pictures Panorama 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 screen. (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 can also be selected with the control dial.

Pictures displayed with [!] cannot be played back. - 54 - VQT5E85 Basics Viewing your pictures Searching and viewing pictures by their recording date [Calendar] Move the zoom lever toward W side several times Use to select recording date and press [MENU/SET] •Pictures are displayed in Multi Playback (30-picture screen). The cursor will appear on the first picture taken on the selected date. •You can also select the date with the control dial. 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, 2014. - 55 - VQT5E85 Basics Viewing motion pictures This unit was designed to play motion pictures using the AVCHD, MP4 and QuickTime Motion JPEG formats.

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