



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OLYMPUS E-M5. You'll find the answers to all your questions on the OLYMPUS E-M5 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual OLYMPUS E-M5
User guide OLYMPUS E-M5
Operating instructions OLYMPUS E-M5
Instructions for use OLYMPUS E-M5
Instruction manual OLYMPUS E-M5

OLYMPUS

DIGITAL CAMERA
E-M5
Instruction Manual



Basic guide

Quick task index

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■ Thank you for purchasing an Olympus digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Keep this manual in a safe place for future reference.

■ We recommend that you take test shots to get accustomed to your camera before taking important photographs.

■ The screen and camera illustrations shown in this manual were produced during the development stages and may differ from the actual product.

■ The contents in this manual are based on firmware version 1.0 for this camera. If there are additions and/or modifications of functions due to firmware update for the camera, the contents will differ. For the latest information, please visit the Olympus website.



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Manual abstract:

5. 6. 7. 8. 9. 10. 11. @@@@Keep this manual in a safe place for future reference. We recommend that you take test shots to get accustomed to your camera before taking important photographs. The screen and camera illustrations shown in this manual were produced during the development stages and may differ from the actual product.

The contents in this manual are based on firmware version 1.0 for this camera. If there are additions and/or modifications of functions due to firmware update for the camera, the contents will differ. @@@@Do not leave flash unattended while in use. @@@@Let flash cool completely before putting away.

· To reduce the risk of electric shock, do not immerse this flash in water or other liquids. · To reduce the risk of electric shock, do not disassemble this flash, but take it to qualified service personnel when service or repair work is required. Incorrect reassembly can cause electric shock when the flash is used subsequently. · The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons. SAVE THESE INSTRUCTIONS Indications used in this manual The following symbols are used throughout this manual.

\$ % g 2 EN Cautions Notes Tips Important information on factors which may lead to a malfunction or operational problems. Also warns of operations that should be absolutely avoided. Points to note when using the camera. Useful information and hints that will help you get the most out of your camera.

Reference pages describing details or related information. Unpack the box contents The following items are included with the camera. If anything is missing or damaged, contact the dealer from whom you purchased the camera. Camera · Flash case · Computer software CD-ROM · Instruction manual · Warranty card Body cap Strap USB cable CB-USB6 AV cable (Monaural) CB-AVC3 Flash FL-LM2 Lithium ion battery BLN-1 Lithium ion charger BCN-1 Attaching the strap 1 Thread the strap in the direction of the arrows. 1 2 3 2 Lastly, pull the strap tight making sure that it is fastened securely. 4 · Attach the other end of the strap to the other eyelet in the same way.

EN 3 Charging and inserting the battery Basic guide Preparations for shooting 4 EN 1 Charging the battery. Lithium ion battery (BLN-1) Lithium ion charger (BCN-1) Charging indicator Charging in progress Charging complete Charging error Lights orange Off Blinks orange (Charging time: Up to approximately 4 hours) 3 Charging Direction indicator indicating mark 1 AC wall outlet 2 AC cable # Cautions · Unplug the charger when charging is complete. 2 Loading the battery. Battery compartment cover Direction indicating mark 2 3 1 Battery compartment lock 3 Closing the battery compartment cover. Removing the battery Turn off the camera before opening or closing the battery compartment cover. To remove the battery, first push the battery lock knob in the direction of the arrow and then remove. # Cautions · Contact an authorized distributor or service center if you are unable to remove the battery. Do not use force. \$ Notes · It is recommended to set aside a backup battery for prolonged shooting in case the battery in use drains. Inserting and removing cards Basic guide 1 Loading the card.

· Open the card slot cover. · Slide the card in until it is locked into place. g "Card basics" (P. 103) Card slot # Cautions · Turn off the camera before loading or removing the card. 1 Preparations for shooting 2 3 2 Closing the card slot cover.

· Close the cover until you hear a click. # Cautions · Be sure the card slot cover is closed before using the camera. Removing the card Press the inserted card lightly and it will be ejected. Pull out the card. # Cautions · Do not remove the battery or card while the card write indicator (P.

31) is displayed. Eye-Fi Cards · Use the Eye-Fi card in compliance with the laws and regulations of the country where the camera is used. · Remove the Eye-Fi card from the camera or select [Off] for [Eye-Fi] (P. 93) in airplanes and other locations in which use is prohibited. · Eye-Fi cards may become hot during use. · The drain on the battery may increase when Eye-Fi cards are used. · Camera response may slow when Eye-Fi cards are used. EN 5 Attaching a lens to the camera Basic guide Preparations for shooting 6 EN 1 Attach a lens to the camera. 1 1 2 Rear cap 2 · Align the lens attachment mark (red) on the camera with the alignment mark (red) on the lens, then insert the lens into the camera's body. · Rotate the lens in the direction indicated by the arrow until you hear it click.

Cautions · Make sure the camera is turned off. · Do not press the lens release button. · Do not touch internal portions of the camera. 2 Remove the lens cap. 1 1 2 Using lenses with an UNLOCK switch Retractable lenses with an UNLOCK switch can not be used while retracted. Turn the zoom ring in the direction of arrow (1) to extend the lens (2). To store, turn the zoom ring in the direction of arrow (4) while sliding the UNLOCK switch (3). 4 1 3 2 Removing the lens from the camera While pressing the lens release button, rotate the lens in the direction of the arrow. g "Interchangeable lenses" (P. 104) Lens release button 2 1 Attaching the flash unit Basic guide 1 Remove the terminal cover from the flash unit and attach the flash to the camera.

· Slide the flash unit all the way in, stopping when it contacts the back of the shoe and is securely in place. UNLOCK switch Preparations for shooting 2 1 2 To use the flash, raise the flash head. · Lower the flash head when the flash is not in use. Removing the Flash Unit Press the UNLOCK switch while removing the flash unit. UNLOCK switch 2 1 EN 7 Power on Basic guide Preparations for shooting 8 EN 1 2 Rotate the ON/OFF switch to the ON position to turn the camera on.

· When the camera is turned on, the monitor will turn on. · To turn the camera off, rotate the ON/OFF switch to OFF. Set the mode dial to A. Viewfinder (P. 30) The viewfinder turns on and the monitor turns off automatically when you put your eye to the viewfinder.

250 F5.6 e ISO-A 200 1023 01:02:03 Monitor The super control panel (P. 22) will be displayed. 2012.05.01 12:30 ISO AUTO AUTO 4:3 WB AUTO NORM i Normal AEL / AFL 01:02:03 250 F5.6 1023 Adjusting Viewfinder Focus Look through the viewfinder and rotate the dial until the display is in sharp focus. Using the Monitor 1 You can adjust the angle of the monitor. 2 Setting the date/time Basic guide Date and time information is recorded on the card together with the images.



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The file name is also included with the date and time information.

Be sure to set the correct date and time before using the camera. 1 Display the menus. · Press the MENU button to display the menus. Shooting Menu 1 1 2 MENU button Card Setup Reset/Myset Picture Mode D Image Aspect Digital Tele-converter j Preparations for shooting 4:3 Off Set Back 2 Select [X] in the [d] (setup) tab. · Use FG to select [d] and press I. · Select [X] and press I. [d] tab Back 1 2 Setup Menu X W Rec View c/# Menu Display Firmware --.-- --:--English j±0 k±0 5sec Set X 3 Set the date and time. · Use HI to select items. · Use FG to change the selected item. · Use FG to select the date format. Y 2012 M D Time Y/M/D Cancel The time is displayed using a 24-hour clock. 4 Save settings and exit. · Press Q to set the camera clock and exit to the main menu. · Press the MENU button to exit the menus. EN 9 Names of parts Basic guide Names of parts and functions 1 2 3 4 5 6 7 8 9 0 a b c Camera 1 2 3 4 5 6 7 9 0 a b c 5 d e f g h i 8 j o k Remove when using the HLD-6 battery holder. n l m d e f g h i j k l m n o * Main dial* (o) ...

.....P. 16, 57 59 Shutter button ...

.....P. 13, 14, 44, 96 R (Movie) button....P. 13, 15, 67, 69, 93 Fn2 button ..

....P. 25, 69, 93 Strap eyelet.....

....P. 3 Sub dial* (r).....

.....P. 16, 57 59 Lens attachment mark ...

6 Mount (Remove the body cap before attaching the lens.) Stereo microphone

P. 68, 73 Hot shoe cover Diopter adjustment dial

..P. 8 Mode dial

8, 12 Self-timer lamp/ AF illuminator

56 Connector cover Speaker Lens release button

.P. 6 Lens lock pin Multi-connector ...

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P. 5 In this manual, the o and r icons represent operations performed using the main and sub dials. 10 EN Basic guide 6 1 2 3 4 5 7 8 9 0 a b c d e Names of parts and functions 1 2 3 4 5 6 7 8 Accessory port

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.....P. 26 a INFO (Information display) button ..

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.P. 39 41, 69 b Q button

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P. 23, 24, 26 c Arrow pad (FGHI) d ON/OFF switch

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...P. 8 e D (Erase) button

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P. 17, 69 EN 11 Camera controls Basic guide Basic operations n Mode dial Use the mode dial to select the shooting mode. After choosing the shooting mode, use the shutter button to take photographs and the R button to shoot movies. Mode icon Indicator Advanced shooting modes P A S M Program shooting (P. 57) Aperture priority shooting (P. 57) Shutter priority shooting (P. 58) Manual shooting (P. 58) · The settings made in the advanced shooting modes are retained even if the camera is turned off. Photo zone Easy shooting modes Movie zone A iAUTO (P. 21) ART Art filter (P. 18) Scene (P. 19) SCN Movie mode Movie (P. 67) · When rotating the mode dial or turning off the power in the easy shooting modes, functions with changes made to their settings are restored to the factory default settings. % Tips Resetting camera settings.

g "Restoring default or custom settings" (P. 42) 12 EN Basic guide The Shutter and R Buttons Use the shutter button to take photographs and the R button record movies. Shutter button R button Basic operations Mode P A S M A ART SCN n Photos: shutter button Aperture and shutter speed are automatically adjusted for optimal results. You control aperture. You control shutter speed. You control aperture and shutter speed. Movies: R button The camerring live bulb photography # Cautions · If the camera is used for extended periods, the temperature of the image pickup device will rise and noise and colored fog may appear in images recorded at high ISO sensitivities. Choose a lower ISO sensitivity or turn the camera off for a short period. % Tips Changing the delay before the camera enters sleep mode. g [Sleep] (P.

88)/ Choosing a viewfinder display style. g [Built-in EVF Style] (P. 92) EN 15 Playback/Erasing Basic guide Basic operations 16 EN Viewing Images Single-frame playback · Press the Key DIS Mode Macro r Q R T s (g f w m T Nature Macro Candle Sunset Documents Panorama (P. 60) Fireworks Beach & Snow n Fisheye Effect n Wide-angle n Macro 3D Photo (P. 61) Basic operations 2 Shoot.

· To choose a different setting, press Q to display the scene menu. # Cautions · In [e-Portrait] mode, two images are recorded: an unmodified image and a second image to which [e-Portrait] effects have been applied. The unmodified image is recorded using the option currently selected for image quality, the modified copy at an image quality of JPEG (X-quality (2560 × 1920)). · [n Fisheye Effect], [n Wide-angle], and [n Macro] are for use with optional converter lenses. · Movies can not be recorded in [e-Portrait], [Panorama], or [3D Photo] mode.

EN 19 Using Movie Mode (n) Basic guide Basic operations 20 EN Movie mode (n) can be used to film movies with special effects. 1 Rotate the mode dial to n. 2 Press G or I. Multi Echo One Shot Echo Apply an after-image effect. After-images will appear behind moving objects. An after-image will appear for a short time after you press the button. The after-image will disappear automatically after a while. G I · Movie effects will be displayed in the monitor. · Pressing the button again when [Multi Echo] is selected cancels the effect. If [One Shot Echo] is selected, the effect is updated each time the button is pressed.

3 Press the shutter button to start recording. · Press G or I to enable or disable movie effects during recording. # Cautions · The frame rate will drop slightly during recording. · The 2 effects can not be applied simultaneously. · Use a memory card with an SD speed class of 6 or better. Movie recording may end unexpectedly if a slower card is used. · Taking a photograph during movie recording cancels the effect; the effect does not appear in the photograph. Shooting Options Basic guide Using live guides Live guides are available in iAUTO (A) mode. While iAUTO is a full auto mode, live guides make it easy to access a variety of advanced photographic techniques. Guide item Change Color Saturation Level bar/selection Clear & Vivid Q Cancel Basic operations 0 Flat & Muted Cancel Set 1 2 3 Set the mode dial to A.

After pressing Q to display the live guide, use the FG buttons on the arrow pad to highlight an item and press Q to select. Use FG on the arrow pad to choose the level. · If [Shooting Tips] is selected, highlight an item and press Q to view a description. · Press the shutter button halfway to select.



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· The effect of the selected level is visible in the display.

If [Blur Background] or [Express Motions] is selected, the display will return to normal, but the selected effect will be visible in the final photograph. 4 Shoot.

· Press the shutter button to shoot. · To clear the live guide from the display, press the MENU button. # Cautions · If [RAW] is currently selected for image quality, image quality will automatically be set to [YN+RAW].

· Live guide settings are not applied to the RAW copy. · Pictures may appear grainy at some live guide setting levels. · Changes to live guide setting levels may not be visible in the monitor. · Frame rates drop when [Blurred Motion] is selected. · The flash can not be used with the live guide. · Changes to live guide options cancel previous changes. · Choosing live guide settings that exceed the limits of the camera exposure meters may result in pictures that are over- or under-exposed. EN 21 Basic guide Basic operations 22 EN Using the super control panel The super control panel lists shooting options and their status. The LV super control panel is displayed when the monitor is used to frame pictures. Super control panel ISO ISO AUTO AUTO 4:3 mall Super Fine +RAW 1 2 3 4 5 6 WB AUTO 7 NORM Off 8 9 AEL / AFL 38 P f 250 F5.

6 +2.0 e d c ba 0 Settings that can be modified using super control panel Currently selected option ISO sensitivity

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.P. 49 9 0 a b c d e f # Cautions · Not displayed in movie record mode. Basic guide Framing pictures in the viewfinder When the viewfinder is used to frame photographs, the super control panel will be displayed in the monitor. The panel can be hidden or displayed by pressing the INFO button. 1 2 Press Q. Highlight items with FGHI or the main dial and use the sub dial to choose an option. Cursor ISO ISO AUTO AUTO 4:3 WB AUTO NORM i Normal AEL / AFL 01:02:03 Basic operations 250 F5.6 1023 · To choose an option from a menu, highlight the item and press Q. Framing pictures in the monitor When pictures are framed in the monitor, settings can be adjusted using the live control (P.

24) or LV super control panel. Before using the LV super control panel, select [On] for [KControl Settings] (P. 87) > [Live SCP]. 1 Press Q. · The live control will be displayed. IS OFF j WB WB AUTO AUTO 4:3 LF WB Auto HD P AUTO AUTO 2 Press the INFO button to display the LV super control panel. WB ISO AUTO AUTO 4:3 WB AUTO NORM i Normal AEL / AFL 01:02:03 250 F5.6 +2.0 1023 3 Use FGHI to highlight the desired item and use the dial to choose an option. · To choose an option from a menu, highlight the item and press Q.

ISO Cursor ISO AUTO AUTO WB AUTO NORM i 4:3 Normal AEL / AFL 01:02:03 250 F5.6 +2.0 1023 EN 23 Basic guide Basic operations 24 EN Using live control The live control is used to adjust settings when pictures are framed in the monitor. The effects can be viewed in the monitor. In modes other than P/S/A/M/n, you will need to adjust settings in the custom menu (P.

86) before using the live control. IS OFF j WB WB AUTO AUTO Functions 4:3 LF WB Auto HD P AUTO AUTO Settings Available settings Image stabilizer

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.....P. 67 1 2 Press Q to display the live control. To hide the live control, press Q again. Highlight items with FG, then use HI or the sub dial to highlight an option and press Q.

The selected settings take effect automatically if no operations are performed for about 8 seconds. Displays the selected function name Cursor IS OFF j WB WB AUTO AUTO 4:3 Arrow pad LF WB Auto HD Cursor P AUTO AUTO Arrow pad # Cautions Some items are not available in some shooting modes. % Tips For information on displaying or hiding the live control. g [KControl Settings] (P. 87) Basic guide Using the Multi-Function Button When framing pictures in the viewfinder, you can adjust settings quickly using the multi-function button.

At default settings, the Fn2 button is assigned the role of the multi-function button. Choosing a function 1 2 Press and hold the Fn2 button and rotate the dial. The menus are displayed. Keep rotating the dial to select the desired function. Release the button when the desired function is selected.

Basic operations Using multifunction options Press the Fn2 button. An option selection dialog will be displayed. [a] assigned to Fn2 button Fn2 Fn2 Press and hold Q/Fn2 250 F5.6 e ISO-A 200 1023 01:02:03 250 F5.6 e ISO-A 200 1023 01:02:03 250 F5.6 e ISO-A 200 1023 01:02:03 Shooting display Zoom frame AF Zoom AF Fn2 Other option assigned to Fn2 button HI LIGHT SHADOW WB Auto 4:3 P 250 F5.6 AUTO AUTO P e ISO-A 200 1023 01:02:03 Highlight and shadow control options White balance options Aspect ratio options Function Highlight and shadow control (P. 47) White balance a (Zoom frame AF/zoom AF) (P. 45) Aspect ratio selection (P. 55) Main dial (o) Decrease Sub dial (r) Increase Select an option Zoom frame AF: Exposure compensation Zoom AF: Zoom in or out Select an option EN 25 Using the menus Basic guide Basic operations 26 EN 1 Press the MENU button to display the menus.

Menus W Preliminary and basic shooting options X Advanced shooting options q Playback and retouch options c Custom menu # Accessory port menu* d Camera setup (e.g., date and language) * Not displayed at default settings. 1 Shooting Menu 1 Card Setup Reset/Myset Picture Mode D Image Aspect Digital Tele-converter Tab 2 j 4:3 Off Set Operation guide Back Press the MENU button to go back one screen Press Q to confirm the setting 2 3 Use FG to select a tab and press Q. Select an item using FG and press Q to display options for the selected item. Function 1 2 The current setting is displayed Shooting Menu 2 o Off Off 0.0 Off Set Shooting Menu 2 j/Y Image Stabilizer Bracketing Multiple Exposure w # RC Mode Q 1 2 j/Y Image Stabilizer Bracketing Multiple Exposure w # RC Mode o T Off S Y12s Off Y2s 0.



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0 Off Set Back Back 4 Use FG to highlight an option and press Q to select. · Press the MENU button repeatedly to exit the menu. \$ Notes · For details on the functions that can be set with the menu, refer to "Menu directory" (P.

111). · A guide is displayed for about 2 seconds after you select an option. Press the INFO button to view or hide guides. % Tips · Camera settings can be customized to your shooting style: Use the custom menus to customize camera settings to your own goals or taste. g "Customizing camera settings" (P. 86) · Using accessory port devices: Settings for the EVF and OLYMPUS PENPAL accessories are accessed from the accessory port menu. This menu is not displayed by default, and you will need to display it before proceeding. g "Customizing camera settings" (P. 86) Using the Touch screen Basic guide Use the touch screen during playback or when framing pictures in the monitor. You can also use the touch screen to adjust settings in the super control and LV super control panels.

Live Guides The touch screen can be used with live guides. Tab 1 2 Touch the tab and swipe your finger to the left to display live guides. · Tap to select items. ISO-A Basic operations 200 Use your finger to position the sliders. · Press the MENU button to exit the live guide display. 250 F5.6 LN HD 01:02:03 38 Shooting Mode You can focus and shoot by tapping the monitor. Tap to cycle through touch screen settings. Touch screen operations disabled. Tap a subject to focus and automatically release the shutter.

Tap to display a focus frame and focus on the subject in the selected area. You can use the touch screen to choose the position and size of the focus frame. Photographs can be taken by pressing the shutter button. 200 ISO LN HD P 250 F5.6 0.0 01:02:03 30 Previewing Your Subject () 14 ISO 1 Tap the subject in the display. · An AF frame will be displayed. · Use the slider to choose the size of the frame. 10 7 5x 200 P 250 F5.6 0.

0 2 Next, tap E to zoom in on the subject in the focus frame. · Use your finger to scroll the display. 1x EN 27 Basic guide Basic operations 28 EN Playback Mode Use the touch screen to page through images or zoom in and out. Full-Frame Playback Viewing Additional Images · Slide your finger to the left to view later frames, right to scroll view earlier frames. · Keep your finger on the edges of the display to scroll continuously backward or forward through pictures.

Playback Zoom · Slide the bar up or down to zoom in or out. · Use your finger to scroll the display when the picture is zoomed in. · Tap F to display Index playback. For calendar playback, tap F until the calendar is displayed. Index/Calendar Playback Page Ahead/Page Back · Slide your finger up to view the next page, down to view the previous page.

· Use t or u to choose the number of images displayed. · For single-frame playback, tap u until the current image is displayed full frame. Viewing Images · Tap an image to view it full frame. 2012.05.01 12:30 Adjusting Settings Settings can be adjusted in the super control and LV super control panels. 1 Display the super control panel. · Press Q to display the cursor. ISO ISO AUTO AUTO 4:3 WB AUTO NORM i Normal AEL / AFL 01:02:03 250 F5.6 +2.

0 1023 Basic guide 2 Tap the desired item. · The item will be highlighted. WB ISO AUTO AUTO 4:3 WB AUTO NORM i Normal AEL / AFL 01:02:03 250 F5.6 +2.0 1023 3 Rotate the dial to choose an option. Basic operations # Cautions · The situations in which touch screen operations are not available include the following. Movie recording/panorama/3D/e-portrait/multiple exposure/during bulb or time photography/one-touch white balance dialog/when buttons or dials are in use · In self-timer mode, the timer can be started by tapping the display. Tap again to stop the timer. · Do not touch the display with your fingernails or other sharp objects. · Gloves or monitor covers may interfere with touch screen operation.

% Tips Disabling the touch screen. g [Touch Screen Settings] (P. 93) EN 29 Information displayed in the monitor Basic guide Information displayed in the monitor 30 EN Shooting Framing pictures in the viewfinder PBH MY1 AEL 250 F5.6 +2.0 Hi +7 Sh -3 e ISO-A 200 1023 01:02:03 1 2 3 4 PBH MY1 AEL 250 F5.

6 +2.0 Hi +7 Sh -3 e ISO-A 200 7 6 1023 5 01:02:03 fe d c b a 0 9 8 1 Battery check 7 Lit up: Ready for use 8 Lit up: Battery is running low 9 Blinks (red) : Charging required 2 Shooting mode....

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P. 65 (blinks: charging in progress) f PBH (displayed when camera is receiving power from power battery holder)....

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.....P. 92 You can switch the monitor display using the INFO button. g "Choosing the Information displayed in the monitor" (P. 39) Choose the viewfinder display style.

g [Built-in EVF Style] (P. 92) Basic guide Framing pictures in the monitor 1 2345 67 890 B A z y x w v u t AEL -3 +7 a bc 45 mm IS 1 FP RC BKT FPS R j S- AF 400 ISO +2.0 4:3 LN HD P 250 F5.6 +2.0 sr q p o n 01:02:03 1023 d l e j f g h 3 i N j C k l Information displayed in the monitor m 1 2 3 4 5 6 7 8 9 0 a b c d e f g h i j k Card write indicator

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.. 118 Table of Contents 38 EN System chart Index 126 128 1 Basic photography/frequently-used options Use the INFO button to display photo info or control panels for choosing shooting options. Choosing the Information displayed in the monitor Press the INFO button to choose the information displayed when shooting. Framing pictures in the viewfinder 2012.

05.01 12:30 ISO AUTO AUTO 4:3 1 Basic photography/frequently-used options INFO INFO NORM i 200 ISO INFO WB AUTO Normal AEL / AFL 01:02:03 250 F5.6 1023 P 250 F5.6 0.0 Super control panel Level gauge display Indicators hidden Framing pictures in the monitor INFO 200 ISO INFO 200 ISO 200 ISO LN HD LN HD LN HD P 250 F5.

6 0.0 01:02:03 38 P 250 F5.6 0.0 01:02:03 38 P 250 F5.6 0.0 01:02:03 38 Information display on Histogram display INFO Highlight & Shadow display* INFO 200 ISO INFO P 250 F5.6 0.0 Level gauge display Image only * You can display a framing grid or choose the type of grid displayed using [G/Info Settings] > [LV-Info]. (P. 87) Choosing a control panel for live view Shooting options can be displayed by pressing Q.

You can choose the types of display available using the [KControl Settings] option in the custom menus (P. 87). Art filter menu*1 ART 1 1 Pop Art INFO Portrait IS OFF INFO j SCN 1 WB WB AUTO AUTO Metering ISO AUTO AUTO 4:3 mall Super Fine +RAW INFO WB AUTO NORM Off 7 4:3 Exit Set LF

WB Auto HD AEL / AFL 36 Exit Set P AUTO AUTO P 250 F5.6 Scene menu*1 Live control*2 Super control panel*2 *1 ART or SCN *2 Displayed if [On] is selected in the [KControl Settings] menu (P. 87). EN 39 Displaying information during playback The INFO button can be used to choose the information displayed during playback. ×10 ×10 INFO INFO P 250 +2.0 F5.6 45mm ±0.0 G±10 Adobe Natural 1/8 15 WB AUTO A±10 ISO 400 4032×3024 1 INFO 4:3 L N 100-0015 15 2012.

05.01 12:30 4:3 L N 100-0015 2012.05.01 12:30 Image only INFO Simplified display (P. 32) INFO Overall display (P. 32) ×10 INFO Basic photography/frequently-used options 40 EN 15 16 Shadow Highlight 15 2012.05.01 12:30 15 Light box display* Highlight & Shadow display* Histogram display* * Displayed when [On] is selected for [G/Info Settings] > [q Info]. (P. 87) Histogram display Display a histogram showing the distribution of brightness in the image.

The horizontal axis gives the brightness, the vertical axis the number of pixels of each brightness in the image. Areas above the upper limit at shooting are displayed in red, those below the lower limit in blue, and the area metered using spot metering in green. Highlight & Shadow display Areas above the upper limit of brightness for the image are shown in red, those below the lower limit in blue. [Histogram Settings] (P. 88) Light box display Compare two images side-by-side. Press Q to select the image on the opposite side of the display. The base image is displayed on the right. Use HI or sub dial to highlight an image and press Q to move it to the left. The image to be compared to the image on the left can be selected on the right. To choose a different base image, highlight the right frame and press Q.

· Press Fn1 to zoom the images in. Rotate the main dial to choose a zoom ratio. When images are zoomed in, use FGHI to scroll and the sub dial to select the image. Fn1 Fn1 Fn1 2x 2x 2x 53 54 Other uses for the INFO button One-touch white balance Select [P] or [Q] for one-touch white balance. Color temperature Select [CWB] to choose the color temperature. (P. 50) Playback zoom Press the INFO button to choose the zoom ratio for the zoom frame display. 1 Basic photography/frequently-used options 2x Highlight and shadow control Highlights and shadows can be adjusted from the exposure compensation dialog. (P. 47) Focal length Select IS mode and choose a focal length for image stabilization.

(P. 49) Help Help is displayed automatically about two seconds after an item is selected. To disable help, press the INFO button.



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Press the INFO button again to re-enable help. Shooting Menu 1 1 2 Card Setup Reset/Myset pictures in the Delete all Picture Modecard or format j memory D the memory card.

4:3 Image Aspect Digital Tele-converter Off Set Back Manual flash compensation Flash output can be selected from flash mode manual flash level options. (P. 65) Manual exposure compensation for the zoom display Press the INFO button to preview how the selected shutter speed and aperture affect exposure when you have zoomed in on your subject in mode M (BULB/TIME excluded). Settings can be adjusted using the arrow pad or dial. (P.

45) Face priority AF/AF target mode Press the INFO button in the AF target selection display to use the direction keys to select face-priority or AF target mode. (P. 44) EN 41 Restoring default or custom settings Camera settings can be easily restored to one of three presets. Reset: Myset: Restore default settings. Restore preselected settings for P, A, S, or M mode. The shooting mode does not change. Up to four sets of preselected settings can be stored. Stored settings take effect while the Fn1 or R button is pressed. Shooting mode is adjusted to the preset settings. 1 Basic photography/frequently-used options 42 EN Quick Myset: Using reset settings 1 2 Select [Reset/Myset] in shooting menu W (P.

111). Select [Reset] and press Q. · Highlight [Reset] and press I to choose the reset type. To reset all settings except the time and date, highlight [Full] and press Q. g "Menu directory" (P. 111) Reset/Myset Reset Myset1 Myset2 Myset3 Myset4 Basic Set Set Set Set Back Set 3 1 2 3 4 1 2 3 Select [Yes] and press Q. Saving Myset Adjust settings in order to save. Select [Reset/Myset] in shooting menu W (P. 111). Select the desired destination ([Myset1][Myset4]) and press I.

[Set] appears next to destinations ([Myset1][Myset4]) to which settings have already been saved. Selecting [Set] again overwrites the registered setting. · To cancel the registration, select [Reset]. Select [Set] and press Q. g "Menu directory" (P.

111) Using Myset Select [Reset/Myset] in shooting menu W (P. 111). Select the desired settings ([Myset1][Myset4]) and press Q. Select [Set] and press Q. Reset/Myset Reset Myset1 Myset2 Myset3 Myset4 Basic Set Set Set Set Back Set Choosing a focus mode (AF mode) Select a focusing method (focus mode). 1 2 Display the super control panel or live control and select the AF mode item. Use the sub dial to choose a setting. · The selected AF mode is displayed on the monitor. AF Mode ISO AUTO AUTO 4:3 WB AUTO NORM i Normal AEL / AFL 01:01:07 1 Basic photography/frequently-used options 250 F5.6 4080 S-AF (single AF) The camera focuses once when the shutter button is pressed halfway. When the focus is locked, a beep sounds, and the AF confirmation mark and the AF target mark light up. This mode is suitable for taking pictures of still subjects or subjects with limited movement. The camera repeats focusing while the shutter button remains pressed halfway. When the subject is in focus, the AF confirmation mark lights up on the monitor and the beep sounds when the focus is locked at the first and second time. Even if the subject moves or you change the composition of the picture, the camera continues trying to focus.

· Four Thirds system lenses focus using [S-AF]. This function allows you to manually focus on any subject. [MF Assist] (P. 86): The focus ring can be used for zoom display. [Focus Ring] (P. 86): Choose the () (close up) direction. () Near C-AF (continuous AF) MF (manual focus) Focus ring S-AF+MF After pressing the shutter button halfway to focus in [S-AF] (simultaneous use of mode, you can turn the focus ring to fine-adjust focus manually. S-AF mode and MF mode) Press the shutter button halfway to focus; the camera then tracks and maintains focus on the current subject while the shutter button is held in this position. · The AF target is displayed in red if the camera can no longer track the subject. Release the shutter button and then frame the subject again and press the shutter button halfway.

· Four Thirds system lenses focus using [S-AF]. C-AF+TR (AF tracking) % Tips · The [RIs Priority S] (P. 87) and [RIs Priority C] (P. 87) options can be used to choose whether the shutter can be released when the camera is unable to focus. \$ Notes · "Subjects that are difficult to focus on" (P.

98) EN 43 Choosing a focus target (AF target) Use FGHI to select AF targets. · "All targets" mode is restored if you move the cursor off the screen. · You can choose from the following three target types. Press the INFO button and use FG. 1 Basic photography/frequently-used options 44 EN All Targets Single Target Group Target The camera automatically chooses from the full set of focus targets.

Select the focus target manually. The camera automatically chooses from the targets in the selected group. Focus lock If the camera is unable to focus on your chosen subject, select single target mode and use focus lock to focus on another subject at about the same distance. 1 2 In [S-AF] mode, position the AF target over the subject and press the shutter button halfway. · Make sure that the AF confirmation mark is lighting up. · Focus locks while the shutter button is pressed halfway. Keeping the shutter button pressed halfway, recompose the photograph and then press the shutter button the rest of the way down. · Do not change the distance between the camera and the subject while pressing the shutter button halfway. Quick AF target selection You can save the selected AF target for quick recall using the Fn1/Fn2 or R buttons. · Select the AF target using [P Set Home] (P.

86). · Assign [P Home] to the button using the [Button Function] option (P. 86). Toggling quickly between AF and MF The Fn1/Fn2 or R button can be used to toggle [MF]. · Assign the [MF] function to the button using the [Button Function] option (P. 86). Zoom frame AF/zoom AF You can also zoom in on an area of the image in the monitor and adjust focus. Choosing a high zoom ratio allows you to use autofocus to focus on a smaller area than is normally covered by the AF target. You can also position the focus target more precisely. Q/a 200 ISO (Press and hold) 1 Basic photography/frequently-used options a LN HD a 200 ISO LN HD 250 F5.

6 0.0 01:02:03 30 250 F5.6 0.0 01:02:03 30 Shooting display Zoom frame AF a Zoom AF 1 2 Before proceeding, use [Button Function] (P. 86) to assign [a] to a button.

Press the a button to display the zoom frame. · If the camera was focused using autofocus just before the button was pressed, the zoom frame will be displayed at the current focus position. · Use FGHI to position the zoom frame.



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· Press the INFO button and use FG to choose the zoom ratio. Comparison of AF and zoom frames 5x 7x 10x 14x 3 4 Press the U button again to zoom in on the zoom frame.

· Use FGHI to position the zoom frame. · Rotate the dial to choose the zoom ratio. Press the shutter button halfway to initiate autofocus. · The zoom is cancelled. · If [mode2] is selected for [LV Close Up Mode] (P. 88), pressing the shutter button will not cancel zoom and the camera will focus continuously while the shutter button is pressed halfway. # Cautions · Zoom is visible only in the monitor and has no effect on the resulting photographs. EN 45 Face priority AF/pupil detection AF The camera detects faces and adjusts focus and digital ESP. Taking pictures using face priority 1 Basic photography/frequently-used options 46 EN 1 2 Display the super control panel or live control and select the face priority item. Use the sub dial to choose a setting.

1 Face Priority ISO AUTO AUTO 4:3 WB AUTO NORM Normal AEL / AFL 01:01:07 250 F5.6 4080 J I K L M Face Priority Off Face Priority On Face & Eye Priority On Face & R. Eye Priority On Face & L. Eye Priority On Face priority off. Face priority on. The autofocus system selects the pupil of the eye closest to the camera for face-priority AF. The autofocus system selects the pupil of the eye on the right for face-priority AF. The autofocus system selects the pupil of the eye on the left for face-priority AF. i 3 Point the camera at your subject. · If a face is detected, it will be indicated by a white border.

200 ISO LN HD P 250 F5.6 0.0 01:02:03 1023 4 Press the shutter button halfway to focus. · When the camera focuses on the face in the white border, the border will turn green. · If the camera is able to detect the subject's eyes, it will display a green frame over the selected eye.

(pupil detection AF) 200 ISO i LN HD P 250 F5.6 0.0 01:02:03 1023 5 Press the shutter button the rest of the way down to shoot. # Cautions · Face priority applies only to the first shot in each sequence taken during sequential shooting. · Depending on the subject, the camera may not be able to correctly detect the face.

· In metering modes other than [p (Digital ESP metering)], the camera will meter exposure for the selected position. \$ Notes · Face priority is also available in [MF]. Faces detected by the camera are indicated by white frames. Controlling exposure (exposure compensation) Rotate the sub dial to choose exposure compensation. Choose positive ("+") values to make pictures brighter, negative ("-") values to make pictures darker. Exposure can be adjusted by ± 3 EV. 1 Basic photography/frequently-used options Negative () No compensation (0) Positive (+) % Tips To change the exposure adjustment interval. g [EV Step] (P. 88)/ Changing the direction of the dial. g [Dial Direction] (P.

87)/ If [Button Function] (P. 86) is used to assign [F] (exposure compensation) to a button, exposure compensation can be adjusted after [F] is pressed. # Cautions · Exposure compensation is not available in A, M, or SCN modes. Changing the brightness of highlights and shadows Before shooting begins, use [Button Function] (P. 86) to assign [F] (exposure compensation) to a button. Press F and then the INFO button to display exposure compensation options. Use HI to adjust exposure compensation. Adjust exposure downward to make shadows darker, upward to make highlights brighter. INFO INFO INFO +1 IS 1 j 200 ISO LN 0 HD P 250 F5.6 +2.

0 01:02:03 1234 0 Exposure compensation 0 EN 47 Choosing how the camera measures brightness (metering) Choose how the camera meters subject brightness. 1 1 Basic photography/frequently-used options 48 EN Display the super control panel or live control and select the metering item. Use the sub dial to choose a setting. Metering ISO AUTO AUTO 4:3 WB AUTO 2 NORM i Normal AEL / AFL 01:01:07 250 F5.6 4080 p Digital ESP metering The camera meters exposure in 324 areas of the frame and optimizes exposure for the current scene or (if an option other than [OFF] is selected for [I Face Priority]) portrait subject.

This mode is recommended for general use. This metering mode provides the average metering between the subject and the background lighting, placing more weight on the subject at the center. Choose this option to meter a small area (about 2% of the frame) with the camera pointed at the object you wish to meter.

Exposure will be adjusted according to the brightness at the metered point. Increases spot metering exposure.

Ensures bright subjects appear bright. Lowers spot metering exposure. Ensures dark subjects appear dark. H Center weighted averaging metering I Spot metering IHI ISH Spot metering highlight control Spot metering shadow control 3 Press the shutter button halfway. · Normally, the camera will start metering when the shutter button is pressed halfway and lock exposure while the shutter button is held in this position. Exposure lock (AE lock) Press Fn1 to lock only exposure. Exposure lock can be used when you want to set focus and exposure separately while recomposing photographs, or if you want to take a series of photographs at the same exposure. · [Button Function] can be used to assign exposure and focus lock to other buttons. 400 ISO LN AEL HD P 250 F5.6 0.

0 01:02:03 38 AE lock Exposure locks and a B icon is displayed when the button is pressed once. Press the shutter button to take a picture. · Press the button again to cancel AE lock. % Tips To activate AE lock with a set metering mode. g [AEL Metering] (P. 88) Reducing camera shake (the image stabilizer) You can reduce the amount of camera shake that can occur when shooting in low light situations or shooting with high magnification. 1 Display the super control panel or live control and select the image stabilizer item. Image Stabilizer ISO AUTO AUTO 4:3 WB AUTO NORM i 1 Basic photography/frequently-used options Normal AEL / AFL 01:01:07 2 Use the sub dial to choose a setting. J e f g IS Off Auto Vertical IS Horizontal IS Image stabilizer is off. Image stabilizer is on.

250 F5.6 4080 Image stabilization applies only to vertical (Y) camera shake. Use when panning the camera horizontally. Image stabilization applies only to horizontal (Z) camera shake. Use when panning the camera horizontally with the camera held in portrait orientation.

Choosing a focal length (Micro Four Thirds/Four Thirds System lenses excluded) Use focal length information to reduce camera shake when shooting with lenses that are not Micro Four Thirds or Four Thirds system lenses. 1 2 Select the image stabilizer item in the super control panel or live control and press the INFO button.



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Use HI to choose a focal length and press Q. · Choose a focal length between 8 mm and 1000 mm. · Choose the value that most closely matches to the one that is printed on the lens.

Auto j WB AUTO 4:3 LF HD P 50 mm # Cautions · The image stabilizer cannot correct excessive camera shake or camera shake that occurs when the shutter speed is set to the slowest speed. In these cases, it is recommended that you use a tripod. · When using a tripod, set [Image Stabilizer] to [OFF]. · When using a lens with an image stabilization function, turn off the image stabilizer function of either the lens or the camera. · You may notice an operating sound or vibration when the image stabilizer is activated. % Tips Pressing the shutter button halfway activates image stabilization. g [Half Way Rls With IS] (P. 87) EN 49 Adjusting color (white balance) White balance (WB) ensures that white objects in images recorded by the camera appear white. [AUTO] is suitable in most circumstances, but other values can be selected according to the light source when [AUTO] fails to produce the desired results or you wish to introduce a deliberate color cast into your images. 1 Basic photography/frequently-used options 50 EN 1 Display the super control panel or live control and select the white balance item.

WB ISO AUTO AUTO 4:3 WB AUTO NORM i Normal AEL / AFL 01:01:07 250 F5.6 4080 2 Use the sub dial to choose a setting. WB mode Auto white balance WB AUTO 5 N Preset white balance O 1 > U n One-touch white balance P/Q (P. 51) Custom white balance CWB Color temperature k 5300K 7500K 6000K 3000K 4000K k 5500K Color temperature set by one-touch WB. 2000K 14000K Light conditions Use this mode for general use. For shooting outdoors on a clear day, or to capture the reds in a sunset or the colors in a fireworks display For shooting outdoors in the shadows on a clear day For shooting outdoors on a cloudy day For shooting under a tungsten light For subjects lit by fluorescent lights For underwater photography For flash shooting When color temperature selection is difficult After pressing the INFO button, use HI buttons to select a color temperature and then press Q. White balance compensation This function lets you make fine changes to the auto WB and preset WB settings. 1 2 3 Select [WB] in c Custom Menu (P. 86) tab X. Select the option to be modified and press I.

Select a slider with HI and use FG to choose the amount. Adjusting the white balance in the A direction (Amber-Blue) Higher values produce "warmer" (redder) tints, lower values "cooler" (bluer) tints. Adjusting the white balance in the G direction (Green-Magenta) Higher values produce greener tints, lower values tints that are more purple. WB Preview Back Auto A G +2 -5 Set 1 Basic photography/frequently-used options 4 Press Q to save settings and exit. % Tips · To display a test photograph taken at the selected white balance value, press the R button.

· Adjusting all WB mode settings at once. g [All >] (P. 89) One-touch white balance Measure white balance by framing a piece of paper or other white object under the lighting that will be used in the final photograph. This is useful when shooting a subject under natural light, as well as under various light sources with different color temperatures. 1 2 3 Select [P] or [Q] (one-touch white balance 1 or 2) and press the INFO button.

Photograph a piece of colorless (white or gray) paper. · Frame the object so that it fills the display and no shadows fall it. · The one-touch white balance screen appears. Select [Yes] and press Q. · The new value is saved as a preset white balance option. · The new value is stored until one-touch white balance is measured again. Turning the power off does not erase the data. % Tips If the subject is too bright or too dark or visibly tinted, the message "WB NG Retry" will be displayed and no value will be recorded. Correct the problem and repeat the process from Step 1. EN 51 Processing options (picture mode) Select a picture mode and make individual adjustments to contrast, sharpness, and other parameters.

Changes to each picture mode are stored separately. 1 1 Basic photography/frequently-used options 52 EN Select [Picture Mode] in shooting menu W (P. 111). Select an option with FG and press Q. Shooting Menu 1 1 2 2 Card Setup Reset/Myset Picture Mode D Image Aspect Digital Tele-converter j 4:3 Off Set Back Picture modes h i j Z a i-Enhance Vivid Natural Muted Portrait Produces more impressive-looking results suited to the scene. Produces vivid colors. Produces natural colors. Produces flat tones. Produces beautiful skin tones. Produces black and white tone.

Select one picture mode, set the parameters, and register the setting. Monotone Custom j Pop Art k Soft Focus l Pale&Light Color m Light Tone n Grainy Film o Pin Hole s Diorama t Cross Process u Gentle Sepia v Dramatic Tone Y Key Line Choose an art filter and select the desired effect. 3 Press I to display settings for the selected option. h Contrast Sharpness Saturation Gradation Distinction between light and dark Sharpness of the image Vividness of the color Adjust tone (gradation). Divides the image into detailed regions and adjusts the brightness separately for each region.

This is effective for images with areas of large contrast in which the whites appear too bright or the blacks appear too dark. Use [Normal] mode for general uses. Gradation for a bright subject. Gradation for a dark subject. Sets the extent that the effect will be applied.

Creates a black and white image. The filter color is brightened and the complementary color is darkened. Creates a normal black and white image. Reproduces clearly defined white cloud with natural blue sky. Slightly emphasizes colors in blue skies and sunsets. Strongly emphasizes colors in blue skies and brightness of crimson foliage. Strongly emphasizes colors in red lips and green leaves. Colors the black and white image. Creates a normal black and white image. Sepia Bluish Purplish Greenish k k k k k k k i-a J K 1 Basic photography/frequently-used options Auto Normal High Key Low Key Effect (i-Enhance) B&W Filter (Monotone) N:Neutral Ye:Yellow Or:Orange R:Red G:Green Pict.

Tone (Monotone) N:Neutral S:Sepia B:Blue P:Purple G:Green # Cautions · Changes to contrast have no effect at settings other than [Normal]. EN 53 Image quality (record mode) Select an image quality for photographs and movies according their intended use, for example retouching on a computer or display on the web. Choosing a record mode 1 Basic photography/frequently-used options 54 EN 1 2 Display the live control and highlight the current record mode option for photographs or movies. · Photo image quality can also be adjusted from the super control panel.



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