



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OLYMPUS E-PL3. You'll find the answers to all your questions on the OLYMPUS E-PL3 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-PL3
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OLYMPUS

DIGITAL CAMERA
E-PL3
Instruction Manual



Basic guide

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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-LM1 Lithium ion Lithium ion charger battery PS-BLS1 (BLS-1) PS-BCS1 (BCS-1) or BCS-5 or BLS-5 Attaching the strap 1 Thread the strap in the direction of the arrows. 2 Lastly, pull the strap tight making sure that it is fastened securely. 1 2 3 · 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. Charging indicator Charging indicator BCS-1 Charging in progress Charging complete Charging error BCS-5 Lights orange Lights Off blue Blinks orange 3 Direction indicating mark Lithium ion battery (Charging time: Up to approximately 3 hours 30 minutes) 1 AC wall outlet 2 Lithium ion charger AC cable # Cautions · Unplug the charger when charging is complete. · Use only compatible battery chargers to charge rechargeable batteries. BLS-1 batteries must be charged using the BCS-1, BLS-5 batteries using the BCS-5. 2 Loading the battery. Battery/card compartment cover Direction indicating mark 3 2 1 Battery/card compartment lock Removing the battery Turn off the camera before opening or closing the battery/card 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. · Insert the SD/SDHC/SDXC/Eye-Fi card (referred to as "card" in these instructions) until it locks in place. g "Card basics" (P. 99) # Cautions · Turn off the camera before loading or removing the card. Preparations for shooting 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. 24) is displayed. 2 Closing the battery/card compartment cover. · Close the cover and slide the battery/card compartment lock in the direction shown by the arrow.

1 2 # Cautions · Close the battery/card compartment cover when using the camera. EN 5 Attaching a lens to the camera Basic guide Preparations for shooting 6 EN 1 Remove the body cap from the camera and the rear cap from the lens. 1 1 2 2 2 Attach a lens to the camera. # Cautions · Make sure the camera is turned off. · Do not press the lens release button. · Do not touch internal portions of the camera. Lens attachment mark Alignment mark · 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. 3 Remove the lens cap. 1 1 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. 100) 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 1 Preparations for shooting 2 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 Press the ON/OFF button to turn on the camera. · When the camera is turned on, the (blue) power lamp will light and the monitor will turn on. · When the camera is turned on, dust reduction will be performed to remove dust from the surface of the image sensor filter. · To turn off the power, press the ON/OFF button again.

2 Set the mode dial to A. Mode dial ON/OFF button Monitor Battery level 7 (green): Camera ready to shoot. Displayed for about 10 seconds after the camera is turned on. 8 (green): Low battery 9 (blinks red): Charge the battery ISO-A 200 LN HD 250 F5.6 01:02:03 Available recording time Number of storable still pictures 38 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. 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 Card Setup Reset/Myset Picture Mode D Image Aspect j 4:3 Preparations for shooting MENU button Back Set 2 Select [X] in the [d] (setup) tab.



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· Use FG to select [d] and press I. · Select [X] and press I. [d] tab Setup Menu 1 2 X W Rec View c/# Menu Display Firmware --.-- --:--English j±0 k±0
5sec Back Set 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 2011 M D X 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
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...P. 69 10 EN Basic guide 5 1 2 3 4 6 7 8 9 Names of parts and functions 0 a b F (Up) / F (Exposure compensation) button (P. 40) H (Left) / P (AF target)
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P. 23 b Arrow pad Control dial* (j)

P. 16, 50 53 * In this manual, the j icon represent operations performed using the control dial. EN 11 Camera controls Basic guide Names of parts and functions ART SCN 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. Indicator Mode icon Advanced shooting modes P A S M Program shooting (P.

50) Aperture priority shooting (P. 51) Shutter priority shooting (P. 52) Manual shooting (P. 53) Photo zone · For more advanced shooting and greater creative control, you can set the aperture value and shutter speed. · The settings made in the advanced shooting modes are retained even if the camera is turned off. Movie zone Movie mode n Movie (P. 61) Easy shooting modes A iAUTO (P. 20) Art filter (P. 18) Scene (P. 19) · If A is selected, the camera automatically optimizes settings to suit the subject.

· Select ART or SCN options according to your subject or creative intent. The camera optimizes settings automatically. · 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. 35) 12 EN Basic guide Shutter button R button Names of parts and functions 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. A full auto mode in which the camera automatically optimizes settings for the current scene. Select an art filter. Select a scene. Photographs are recorded at the settings selected in [nMode]. Movies: R button The camera automatically adjusts settings and records a moving-frame playback. 2x Index display/Calendar display · To view multiple frames, press G during single-frame playback. To start calendar playback, press the G button repeatedly.

· Press the U button to view the currently selected picture full frame. 2011.5 Sun Mon Tue Wed Thu Fri Sat 25 2 9 16 23 2011.05.01 12:30 21 30 26 3 10 17 24 31 27 4 11 18 25 1 28 5 12 19 26 2 29 6 13 20 27 3 30 7 14 21 28 1 8 15 22 29 Index display Calendar display Movie Movie playback Select a movie and press Q to display the playback menu.

Select [Movie Pl 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 0 Flat & Muted Cancel Set Guide item Change Color Saturation Change Color Image Change Brightness Blur Background Express Motions Level bar/selection Clear & Vivid Warm Bright Blur Blurred Motion* Flat & Muted Cool Dark Sharp Stop Motion Affects Saturation, contrast, gradation, etc. Color temperature, gradation, etc. Exposure compensation, gradation, etc. Aperture, live preview, etc. Shutter speed (1/2 s fastest speed), frame rate, etc. Shooting Tips Tips For Child Photo Tips For Pet Photo Tips For Flower Photo Tips For Cuisine Photo Tips For Framing Tips With Accessory -- * Monitor frame rate slows. Basic guide 1 2 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. Guide item Change Color Saturation Cancel Basic operations 3 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. · 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. Level bar Clear & Vivid 0 Flat & Muted Cancel Set 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. · 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. ·
In P, A, S, and M modes, live guides can be displayed by pressing the Fn button.
Pictures will be taken using live guide settings. [Button Function]: g "Customizing camera settings" (P).



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81) EN 21 Using live control Basic guide Basic operations 22 EN The live control can be used to adjust settings in P, S, A, M, and n modes. Using live control allows you to preview the effects of different settings in the monitor. A custom setting is available that allows the live control to be used in other modes (P.

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. 113 System chart Index 120 122 EN 31 1 1 Basic photography/frequently-used options 32 EN Basic photography/frequently-used options The INFO button can be used to choose the information and type of controls displayed during shooting. Switching the information display Press the INFO button to choose the information displayed when shooting. 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 INFO *1 Histogram display INFO -0.

3 Highlight & Shadow display*2 INFO 0.0 +0.3 +0.7 WB/ Set Image only Multi view display*2 *1 You can display a framing grid or choose the type of grid displayed using [G/Info Settings] > [LV-Info]. g "Customizing camera settings" (P.



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81) *2 Displayed when [On] is selected for [G/Info Settings] > [LV-Info]. g "Customizing camera settings" (P. 81) Choosing shooting controls 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. 81).

ART/SCN Art filter menu ART 1 1 Pop Art INFO Portrait IS OFF INFO Metering ISO AUTO AUTO 4:3 mall Super Fine +RAW INFO WB AUTO j SCN 1 WB WB AUTO AUTO NORM Off 4:3 Exit Set LF WB Auto HD Exit Set P AUTO AUTO WB P 250 F5.6 36 Scene menu Live control* Super control panel* P/A/S/M IS OFF INFO Metering ISO AUTO AUTO 4:3 mall Super Fine +RAW INFO WB AUTO j WB WB AUTO AUTO NORM Off 4:3 LF WB Auto HD P AUTO AUTO WB P 250 F5.6 36 Live control Super control panel* * Can be displayed using [KControl Settings]. 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 4:3 L N 100-0015 15 2011.05.01 12:30 4:3 L N 100-0015 2011.

05.01 12:30 INFO Image only* INFO Simplified display (P. 25) INFO Overall display (P. 25) ×10 1 INFO Basic photography/frequently-used options 15 16 Shadow Highlight 15 2011.05.

01 12:30 15 Light box display* Highlight & Shadow display* Histogram display* * Displayed when [On] is selected for [G/Info Settings] > [q Info]. g "Customizing camera settings" (P. 81) 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]: g "Customizing camera settings" (P. 81) Light box display Compare two images side-by-side. Press Q to select the image on the opposite side of the display. In addition to adjusting settings using [G/Info Settings] in the custom menus, you will also have to select [mode2] for [q Close Up Mode]. g "Customizing camera settings" (P. 81) · The base image is displayed on the right. Use HI to select an image and press Q to move the image 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 U to zoom in on the current image. To view other areas of the picture, press the INFO button and use FG or the control dial. · Use FGHI to view other areas of the picture. The image displayed changes each time U is pressed. U U U 2x 2x 2x 53 54 EN 33 Other uses for the INFO button One-touch white balance To view the one-touch white balance dialog, press the INFO button in the one-touch white balance menu (P. 44). Capture WB IS OFF j 1 4:3 LF HD I Color temperature To view the color temperature dialog, press the INFO button in the custom white balance menu (P. 43). P WB WB 1 2 CWB Basic photography/frequently-used options 34 EN IS OFF j CWB 4:3 Kelvin 5400 K LF HD P WB WB 1 2 CWB Playback zoom To zoom an image in or out, press the U button to initiate playback zoom and then press the INFO button and use FG. 2x Tone control Exposure compensation, aperture, and shutter speed can be adjusted by pressing the F button.

The tone control dialog can be displayed by pressing the INFO button after pressing the F button. You can then use HI to choose the tone level. g "Changing the brightness of highlights and shadows" (P. 40) IS 1 j 200 ISO 0 +1 0 LN HD P 250 F5.6 +2.

0 01:02:03 1234 Focal length To choose the focal length for image stabilization, press the INFO button in the IS mode dialog and use FGHI or the control dial. g "Reducing camera shake (the image stabilizer)" (P. 42) Help Help is displayed automatically about 2 seconds after an item is selected. To disable help, press the INFO button. Press the INFO button again to re-enable help.

j WB AUTO 4:3 Focal Length Auto LF HD P 50 mm Shooting Menu 1 1 2 Card Setup Reset/MysetDelete all pictures in the Picture Mode memory card or format j D the memory card. Image Aspect 4:3 Back Set Restoring default or custom settings Camera settings can be easily restored to one of three presets. Reset: Myset: Quick 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. Preset settings are used only while the Fn or R button is pressed. Shooting mode is adjusted to the preset settings. [Button Function]: g "Customizing camera settings" (P. 81) 1 Basic photography/frequently-used options Using reset settings 1 2 Select [Reset/Myset] in shooting menu W (P.

107). Select [Reset] and press Q. · Highlight [Reset] and press I to choose the reset type. To reset all settings except the time, date, and a few others, highlight [Full] and press Q. g "Menu directory" (P. 107) 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. 107). 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.

107) Using Myset Select [Reset/Myset] in shooting menu W (P. 107). 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 EN 35 Choosing a focus mode (AF mode) Select a focusing method (focus mode).

I Display the live control (P. 22) and select the AF mode item using FG. Select an option with HI and press Q. · The selected AF mode is displayed on the monitor. Single AF 1 Basic photography/frequently-used options 36 EN 2 S-AF S-AF ISO AUTO R C-AF TR P S-AF S-AF C-AF MF S-AF MF 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.



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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.) 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 [Rls Priority S] (P. 83) and [Rls Priority C] (P. 83) options can be used to choose whether the shutter can be released when the camera is unable to focus. · [MF Assist] (P. 82) can be used to enable automatic zoom display when the lens focus ring is rotated. · [Focus Ring] (P. 82) allows you to change the rotational direction of the focus ring. # Cautions · The camera may be unable to focus if the subject is poorly lit, obscured by mist or smoke, or lacks contrast. Choosing a focus target (AF target) Choose which of the 35 autofocus targets will be used for autofocus. 1 2 Press the P button (H) to display the AF target. Use FGHI to select the single target display and position the AF target. · "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. All Targets Single Target Group Target 1 Basic photography/frequently-used options 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 Fn or R buttons. · Select the AF target using [P Set Home] (P. 82). · Use [; Function] or [R Function] to assign this function to the button. [Button Function]: g "Customizing camera settings" (P. 81) Toggling quickly between AF and MF The Fn or R button can be used to toggle [MF]. · Use [; Function] or [R Function] to assign this function to the button. [Button Function]: g "Customizing camera settings" (P. 81) EN 37 Zoom frame AF/zoom AF You can zoom in on a portion of the frame when adjusting 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. 1 200 ISO Q/U U LN HD (Press and hold) U 200 ISO Basic photography/frequently-used options 38 EN 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 U Zoom AF 1 Press the U 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. · Press the INFO button and use FG to choose the zoom ratio. 5× 7× 10× 14× Comparison of AF and zoom frames 2 3 Press the U button again to zoom in on the zoom frame. · Use FGHI to position the zoom frame. · Press the INFO button and use FG to choose the zoom ratio. Press the shutter button halfway to initiate autofocus. \$ Notes · Autofocus is available and pictures can be taken both when the zoom frame is displayed and when the view through the lens is zoomed in. # Cautions · Zoom is visible only in the monitor and has no effect on the resulting photographs. Face priority AF/pupil detection AF The camera detects faces and adjusts focus and digital ESP. Taking pictures using face priority 1 2 Display the live control (P. 22) and select the face priority item using FG. S-AF 1 Basic photography/frequently-used options Use HI to select an option and press Q. Face Priority On ISO AUTO R iL P i iR 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 i 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 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. EN 39 Controlling exposure (exposure compensation) Press the F button (F) and use HI to adjust exposure compensation.



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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 40 EN Negative () No compensation (0) Positive (+) % Tips · To change the exposure adjustment interval. [EV Step]: g "Customizing camera settings" (P. 81) # Cautions · Exposure compensation is not available in A, M, or SCN modes. Previewing the effects of exposure compensation and white balance The effects of exposure compensation and white balance can be previewed in the 4-split screen. 1 2 3 Select [On] for [G/Info Settings] > [Multi View] in the c Custom menu (P. 81).

Press the INFO button repeatedly to display the multi view display. · This function is not available in A, ART, SCN or n mode. -0.3 0.0 +0.3 +0.7 WB/ Set Use HI to select the desired value and press Q. · Use FG to toggle between the exposure compensation and white balance displays. Changing the brightness of highlights and shadows To display the tone control dialog, press the F button (F) and press the INFO button. Use HI to choose a tone level.

Choose "low" to darken shadows or "high" to brighten highlights. INFO INFO IS 1 j 200 ISO LN HD 0 +1 INFO 0 P 250 F5.6 +2.0 01:02:03 1234 0 Exposure compensation Tone level: low Tone level: high Choosing how the camera measures brightness (metering) Choose how the camera meters subject brightness. 1 2 Display the live control (P.

22) and select the metering item using FG. S-AF Select an option with HI and press Q. ESP ISO AUTO OFF 1 Basic photography/frequently-used options R HI SH P 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) To lock exposure without locking focus, press the Fn or R button. 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.

· Assign AEL/AFL to the Fn or R button using [; Function] or [R Function]. g "Customizing camera settings" (P. 81) 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 lock exposure while the button is pressed. [AEL/AFL Memo]: To activate AE lock with a set metering mode. [AEL Metering]: g "Customizing camera settings" (P.

81) EN 41 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 1 Basic photography/frequently-used options 42 EN Display the live control (P. 22) and select the image stabilizer item using FG. Focal Length Auto j WB AUTO 4:3 LF HD P 50 mm 2 Select an option with HI and press Q. J e f g IS Off Auto Vertical IS Horizontal IS Image stabilizer is off.

Image stabilizer is on. 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 live control (P. 22) and press the INFO button. 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. · The image stabilizer will not activate at shutter speeds of over 2 seconds. 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 2 Display the live control (P. 22) and select the white balance item using HI and press Q. WB Auto IS OFF j WB WB AUTO AUTO 1 Basic photography/frequently-used options 4:3 LF HD P AUTO AUTO WB WB mode Auto white balance AUTO Color temperature k Light conditions Used for most light conditions (when there is a white portion framed on the monitor). 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 Choose when a white or gray subject can be used to measure white balance and the subject is under mixed lighting or lit by an unknown type of flash or other light source.

After pressing the INFO button, use HI buttons to select a color temperature and then press Q.



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5 N Preset white balance O I > U n One-touch white balance (P. 44) Custom white balance P/Q 5300K 7500K 6000K 3000K 4000K k 5500K Color temperature set by onetouch WB. 2000K 14000K CWB White balance color temperature As their temperature increases, objects first start to shine red and then to shine blue as the temperature rises further. Color temperature expresses the color of light in this way using absolute temperatures in degrees K (kelvin).

· Fluorescent light sources indicated by white dots in the accompanying figure have colors that differ slightly from those on the color temperature scale; the values shown in the figure have been converted to color temperatures for illustrative purposes. EN 43 % Tips · Removing warm colors from pictures taken using auto white balance under incandescent lighting. [W Keep Warm Color]: Selecting [n] for white balance only when the flash is used. [#+WB]: g "Customizing camera settings" (P. 81) 1 Basic photography/frequently-used options 44 EN 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. 81) 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. WB Preview Auto A G +2 -5 Adjusting the white balance in the G direction (Green-Magenta) Higher values produce greener tints, lower values tints that are more purple. Back Set 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. [All >]: g "Customizing camera settings" (P.

81) 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. 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 Select [Picture Mode] in shooting menu W (P.

107). Shooting Menu 1 1 2 Card Setup Reset/Myset Picture Mode D Image Aspect j 4:3 1 Basic photography/frequently-used options Back Set 2 h i j Z a Select an option with FG and press Q. 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. Picture modes Monotone Custom j Pop Art k Soft Focus l Rainy Film m Pin Hole n Diorama o Dramatic Tone Choose an art filter and select the desired effect. EN 45 3 Press I to display settings for the selected option. h Contrast Sharpness Saturation 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 46 EN Gradation 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]. 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 2 Display the live control (P. 22) and use FG to choose a record mode for movies or photographs. Select an option using HI and press Q. Record modes (still images) 4032x3024 IS OFF j WB AUTO 1 Basic photography/frequently-used options 4:3 HD P RAW L F LN MN SN 38 Record mode Choose from RAW and JPEG (YF, YN, XN, and WN) modes. Choose a RAW+JPEG option to record both a RAW and a JPEG image with each shot. JPEG modes combine image size (Y, X, and W) and compression ratio (SF, F, N, and B). The options available can be selected using the [K Set] option in the custom menus. g "Customizing camera settings" (P. 81) Image size Name Y (Large) Pixel count 4032×3024* 3200×2400 X (Middle) 2560×1920* 1920×1440 1600×1200 1280×960* W (Small) 1024×768 640×480 WSF WF WN* WB For small prints and use on a website XSF XF XN* XB SF (Super Fine) YSF Compression rate F (Fine) YF* N (Normal) YN* B (Basic) YB Select for the print size Application * Default. · The size of [X] and [W] images can be selected using the [Pixel Count] option in the custom menus. g "Customizing camera settings" (P. 81) RAW image data This format (extension ".ORF") stores unprocessed image data for later processing. RAW image data can not be viewed using other cameras or software, and RAW images can not be selected for printing. JPEG copies of RAW images can be created using this camera.

g "Editing still images" (P.



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67) EN 47 Record modes (movies) Record mode Full HD Fine Full HD Normal HD Fine HD Normal HD SD Pixel count 1920×1080 1920×1080 1280×720 1280×720 1280×720 640×480 Frame rate 59.94i *2 59.94i *2 59.94p *2 59.94p *2 File format Application For viewing on AVCHD devices. For computer playback or editing. AVCHD*1 1 Basic photography/frequently-used options 48 EN Approx. 30 fps*3 Motion JPEG*4 · Depending on the type of card used, recording may end before the maximum length is reached. *1 Individual files can be up to 4 GB in size or 29 minutes in length.

*2 Image sensor output about 30 fps. *3 The frame rate may drop when an art filter is used. *4 Files may be up to 2 GB in size. Setting the image aspect You can change the aspect ratio (horizontal-to-vertical ratio) when taking pictures using live view. Depending on your preference, you can set the aspect ratio to [4:3] (standard), [16:9], [3:2], [6:6], or [3:4].

1 2 Display the live control (P. 22) and select the aspect ratio item using FG. Use HI to select an aspect ratio and press Q. # Cautions · JPEG images are cropped to the selected aspect ratio; RAW images, however, are not cropped but are instead saved with information on the selected aspect ratio. · When RAW images are played back, the selected aspect ratio is shown by a frame.

% Tips · For information on cropping existing photographs or changing their aspect ratio, see "Editing still images" (P. 67). ISO sensitivity Increasing ISO sensitivity increases noise (graininess) but allows photographs to be taken when lighting is poor. The setting recommended in most situations is [AUTO], which starts at ISO 200 -- a value that balances noise and dynamic range -- and then adjusts ISO sensitivity according to shooting conditions. 1 2 Display the live control (P. 22) and select the ISO sensitivity item using FG. Select an option using HI and press Q. AUTO 200 12800 The sensitivity is set automatically according to the shooting conditions. Sensitivity is set to the selected value. % Tips · The default value and upper limit for auto ISO sensitivity can be selected using [ISO-Auto Set].

The options available for ISO sensitivity can be selected using [ISO Step]. Auto sensitivity can be enabled in M mode using [ISO-Auto]. g "Customizing camera settings" (P. 81) Sequential shooting/using the self timer The camera will take photos while the shutter button is pressed all the way down. Alternatively, the self-timer can be used for self- or group-portraits or to reduce camera shake when the camera is mounted on a tripod or otherwise fixed in place. 1 Basic photography/frequently-used options 1 2 Press the jY button (G) to display the direct menu. Select an option using HI and press Q. o T Single-frame shooting Sequential H Shoots 1 frame at a time when the shutter button is pressed (normal shooting mode). The camera will take photos at the selected frame rate while the shutter button is pressed all the way down. [j H fps] (P.

83) The camera will take photos at the selected frame rate while the shutter button is pressed all the way down. [j L fps] (P. 83) Press the shutter button halfway to focus, the rest of the way down to start the timer. First, the self-timer lamp lights up for approximately 10 seconds, then it blinks for approximately 2 seconds and the picture is taken. Press the shutter button halfway to focus, the rest of the way down to start the timer.

The self-timer lamp blinks for approximately 2 seconds, and then the picture is taken. S Sequential L Y12s Self-timer 12 SEC Self-timer 2 SEC Y2s \$ Notes · To cancel the activated self-timer, press the jY button. · In [S-AF] and [MF] focus modes, focus and exposure will be fixed at the values for the first frame in each sequence. # Cautions · During sequential shooting, if the battery check blinks due to low battery, the camera stops shooting and starts saving the pictures you have taken on the card. The camera may not save all of the pictures depending on how much battery power remains.

· Fix the camera securely on a tripod for self-timer shooting. · If you stand in front of the camera to press the shutter button halfway when using the selftimer, the photograph may be out of focus. EN 49 2 2 Other shooting options 50 EN Other shooting options "Point-and-shoot" photography (P program mode) In mode P, the camera automatically adjusts shutter speed and aperture in response to subject brightness. 1 Set the mode dial to P. 2 Take pictures. · The shutter speed and aperture selected by the camera are displayed in the monitor. Shooting mode AF confirmation mark 400 ISO LN HD P 250 F5.6 0.0 01:02:03 38 Shutter speed Aperture value Program shift (%) In P and ART modes, you can press the F button (F) and then use FG to choose different combinations of aperture and shutter speed without altering exposure. This is known as "program shift.

"s" appears next to the shooting mode during program shift. To cancel program shift, press and Ps 250 F5.6 hold FG until "s" is no longer displayed or turn the camera off. Program shift 400 ISO LN HD 0.0 01:02:03 38 # Cautions · Program shift is not available when you are using a flash. # Cautions · The shutter speed and aperture displays flash if the camera is unable to achieve optimal exposure. See "Exposure warning display" (P. 103). % Tips · Changing the roles of the control dial. [Dial Function]: g "Customizing camera settings" (P.

81) Choosing aperture (A aperture-priority mode) In mode A, you choose the aperture and let the camera automatically adjust shutter speed for optimal exposure. 1 Rotate the mode dial to A. 2 2 After pressing the F button (F), use FG to choose the aperture. · Exposure compensation can also be adjusted using the control dial. Other shooting options 400 ISO LN HD A 250 F5.

6 +0.0 01:02:03 38 Aperture value 3 Take pictures. · Larger apertures (lower f-numbers) decrease depth of field (the area in front of or behind the focus point that appears to be in focus), softening background details. Smaller apertures (higher f-numbers) increase depth of field. When the aperture value (f-number) is decreased When the aperture value (f-number) is increased Preview function The Fn and R buttons can be used to preview depth of field.

If [Preview] is assigned to any of these buttons using the [; Function] or [R Function] option in the custom menus, you can press and hold the button to stop aperture down to the selected value and preview depth of field (the distance behind and in front of the focus point that appears to be in focus) in the monitor. [Button Function]: g "Customizing camera settings" (P.



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