



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for OLYMPUS E-PL1. You'll find the answers to all your questions on the OLYMPUS E-PL1 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-PL1
User guide OLYMPUS E-PL1
Operating instructions OLYMPUS E-PL1
Instructions for use OLYMPUS E-PL1
Instruction manual OLYMPUS E-PL1

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OLYMPUS

DIGITAL CAMERA

E-PL1

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.

Register your product on www.olympus-consumer.com/register and get additional benefits from Olympus!

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Printed in the Netherlands - OE - 02/2010 - E0462522



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Manual abstract:

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9. 10. 11. Instruction Manual 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. © 2010 Printed in the Netherlands · OE · 02/2010 · E0462522 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. Register your product on www.olympus-consumer.com/register and get additional benefits from Olympus! 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. Body cap Strap USB cable CB-USB6 Camera · Computer software (ib) CD-ROM · Instruction manual · Warranty card AV cable (Monaural) CB-AVC3 PS-BLS1(BLS-1) Lithium ion battery PS-BCS1(BCS-1) Lithium ion charger Attaching the strap 1 Thread the strap in the direction of the arrows. 1 2 2 Lastly, pull the strap tight making sure that it is fastened securely. 3 · Attach the other end of the strap to the other eyelet in the same way. Indications used in this manual The following symbols are used throughout this manual.

Caution \$ Notes % Tips g EN 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. Charging and inserting the battery 1 Basic guide Charging the battery. Charging indicator Direction indicating mark 3 charging indicator Amber light: Charging in progress Blue light: Charging complete (Charging time: Up to approximately 3 hours 30 minutes) Amber blinking: Charging error BLS-1 Lithium ion battery 1 BCS-1 Lithium ion charger AC cable AC wall outlet 2 Preparations for shooting 2 Loading the battery. Battery/card compartment cover Direction indicating mark 2 3 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. \$ Notes · It is recommended to set aside a backup battery for prolonged shooting in case the battery in use drains.

EN Inserting and removing cards Basic guide Preparations for shooting EN 1 Loading the card. · Insert the SD/SDHC card (referred to as "card" in these instructions) until it locks in place. g "Card basics" (P. 95) # Caution · Turn off the camera before loading or removing the card. Removing the card Press the inserted card lightly and it will be ejected.

Pull out the card. # Caution · Do not remove the battery or card while the card write indicator (P. 22) is displayed. 2 Closing the battery/card compartment cover. · Close the cover until you hear a click.

Caution · Close the battery/card compartment cover when using the camera. · Do not remove the battery or card while the card write indicator (P. 22) is displayed. Failure to observe this precaution could result in the loss not only of the images being recorded but also of existing images. Attaching a lens to the camera 1 Basic guide Remove the body cap from the camera and the rear cap from the lens. 1 2 1 2 2 Attach a lens to the camera. · 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. Preparations for shooting Lens attachment mark Alignment mark · Rotate the lens in the direction indicated by the arrow until you hear it click. # Caution · Make sure the camera is turned off. · Do not press the lens release button.

· Do not touch internal portions of the camera. 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. 97) Lens release button 2 1 EN Power on 1 2 Basic guide Preparations for shooting EN · When the camera is turned on, the (blue) power lamp will light and the monitor will turn on. · To turn off the power, press the ON/OFF button again. Press the ON/OFF button to turn on the camera. Set the mode dial to h. Mode dial ON/OFF button · The (blue) power lamp lights when the camera is turned on. Dust reduction function After you turn the camera on, the camera will remove dust from the filter in front of the image pickup device.

LCD monitor · When you turn on the power, the LCD monitor lights up. Battery level 7 (green): Camera ready to shoot 8 (green): Low battery 9 (blinks red): Charge the battery 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. CARD SETUP CUSTOM RESET PICTURE MODE K IMAGE ASPECT BACK MENU button j 4:3 SET '---:--:--' Preparations for shooting 2 Select [X] in the [d] (setup) tab. · Use FG to select [d] and press I.

[d] tab X W s ENG. j±0 k±0 REC VIEW 5SEC c MENU DISPLAY OFF FIRMWARE BACK SET X Y 2010 MD TIME Y/M/D 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. CANCEL The time is displayed using a 24-hour clock. 4 Save settings and exit. · Press i to set the camera clock and exit to the main menu. · Press the MENU button to exit the menus.



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.. P. 11, 13, 56/P. 59, 65 b Speaker c Arrow pad I (Right)/ # (Flash) button (P. 54) EN Names of parts and functions Basic guide Names of parts and functions

10 EN 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 (movie) button to shoot movies. Advanced shooting modes Indicator Mode icon P A S M Program shooting (P. 36) Aperture priority shooting (P. 37) Shutter priority shooting (P. 38) Manual shooting (P. 39) 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 mode Movie zone n Movie (P. 56) Easy shooting modes A iAUTO (P. 57)

38) Manual shooting (P. 39) 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 mode Movie zone n Movie (P. 56) Easy shooting modes A iAUTO (P. 57)

6) ART Art filter (P. 16) SCN Scene (P. 17) · Select according to the shooting scene. The camera sets the appropriate shooting conditions 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 "Resetting the camera settings" (P. 70) Basic guide Shutter button R (movie) button Mode Photos: shutter button Movies: R (movie) button · Aperture and shutter speed P are automatically adjusted for optimal results. A · You control aperture. S · You control shutter speed. · You control aperture and shutter · The camera adjusts aperture and M shutter speed automatically. speed. · A full auto mode in which the A camera automatically optimizes settings for the current scene. ART · Select an art filter. SCN · Select a scene. · Photographs are recorded at the · Shoot movies using art filter or n settings selected for movies.

aperture and shutter speed effects. · To take a photograph during movie recording, press the shutter button. Three files will be recorded to the memory card: the movie footage preceding the photograph, the photograph itself, and the movie footage following the photograph. Press the R (movie) button to end recording. · Only one photograph can be taken at a time during movie recording; the self-timer and flash can not be used. · Pressing the R (movie) button during sequential shooting ends shooting. A movie is not recorded. · Image size and quality for photographs are independent of movie frame size. · The autofocus and metering used in movie mode may differ from that used to take photographs. · Pressing the R (movie) button during any of the following will end shooting wio display the playback menu.

Select [MOVIE PLAY] and press i to begin playback. · To interrupt movie playback, press MENU. MOVIE MOVIE PLAY m BACK SET Basic operations Erasing images Display a image you want to delete and press D. Select [YES] and press i. ERASE D button YES NO BACK SET EN 1 Using art filters 1 Basic guide Basic operations 1 EN Rotate the mode dial to ART.

· A menu of art filters will be displayed. Select a filter using FG. 1 POP ART i ISO AUTO LN SELECT SET 250 F5.6 38 · Press i or press the shutter button halfway to display the view through the lens in the monitor. Press i to return to the art filter menu.

2 Shoot. n Types of art filters j POP ART k SOFT FOCUS l GRAINY FILM m PIN HOLE n DIORAMA o GENTLE SEPIA # Caution · Art filters are not applied to RAW images. · If RAW is selected for the record mode when the camera enters art filter mode, the record mode will automatically be set to YN+RAW. · The grainy appearance of the picture may be emphasized depending on the type of art filter. % Tips · Camera settings can be adjusted using the menus (P. 21) and buttons (P. 9). · You can also configure the camera so that the live control (P. 20) and super control panel (P. 81) can be used.

g "KCONTROL SETTING" (P. 74) Shooting in scene mode 1 Basic guide Rotate the mode dial to SCN. · A menu of scene menu will be displayed. Select a scene using FG. 1 PORTRAIT B e F D C G i ISO AUTO LN SELECT SET 250 F5.6 38 · Press i or press the shutter button halfway to display the view through the lens in the monitor. Press i to return to the scene menu. Basic operations 2 I e L K J G U G H I Shoot. n Types of scene modes PORTRAIT e-PORTRAIT LANDSCAPE LANDSCAPE+PORTRAIT SPORT NIGHT SCENE NIGHT+PORTRAIT CHILDREN HIGH KEY LOW KEY q J r & * @ s (g DIS

MODE MACRO NATURE MACRO CANDLE SUNSET DOCUMENTS PANORAMA (P. 35) FIREWORKS BEACH & SNOW # Caution · [e-PORTRAIT] can not be applied to RAW images.

· When RAW or RAW+JPEG photos are taken using [e-PORTRAIT], two images will be recorded: a RAW image and an X-quality (2560×1920) JPEG to which effects have been applied. · When JPEG is set in [e-PORTRAIT], two images are saved, one from before application of the effect (with set picture quality) and the other from after application of the effect (X (2560×1920)). EN 1 Using the iAUTO mode live guides Basic guide Basic operations 1 EN Although iAUTO (A) mode is a full auto mode, a "live guide" is available to guide you through creative adjustments to settings controlling such elements as vividness, hue, brightness, focus, and motion using simple operations and easy-to-understand instructions displayed over the view through the lens in the monitor. Guide item CHANGE COLOR SATURATION Level bar/selection CLEAR & VIVID i FLAT & MUTED CANCEL Guide item CHANGE COLOR SATURATION*1 CHANGE COLOR IMAGE*1 CHANGE BRIGHTNESS*1 BLUR BACKGROUND*1 EXPRESS MOTIONS*1 Level bar/selection CLEAR & VIVID WARM BRIGHT BLUR BLURRED MOTION FLAT & MUTED COOL DARK SHARP STOP MOTION Affects*2 Saturation, contrast, gradation, etc.



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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 -- *1 Monitor frame rate slows. *2 For reference only.

The items listed do not correspond directly to parameters that can be adjusted in other shooting modes. 1 Basic guide After pressing i to display the live guide, use the FG buttons on the arrow pad to highlight an item and press i to select. Guide item CHANGE COLOR SATURATION Basic operations 2 Position the cursor using the FG buttons on the arrow pad and check the effect or read the description. · Press the shutter button halfway to select. · Although the camera exits from preview to live view when [BLUR BACKGROUND] or [EXPRESS MOTIONS] is selected, the selected effect still applies. Level bar CLEAR & VIVID FLAT & MUTED CANCEL 3 Shoot. · Press the shutter button to shoot. · To clear the live guide from the display, press the MENU button. # Caution ······ Selecting RAW in the live guide sets the record mode 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. EN 1 Using live control Basic guide Basic operations 0 EN Using live control allows you to preview the effects of different settings in the monitor. j WB AUTO IS OFF Functions WB AUTO P LF AUTO 5 2 3 1 w Settings n Settings that can be modified using live control Picture mode*1

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.....P. 41 1 2 Press i to display the live control. · To hide the live control, press i again. Use the FG buttons on the arrow pad to select settings, use HI to change the selected setting, and press i. · The selected settings take effect automatically if no operations are performed for about 8 seconds.

Displays the selected function name Cursor j WB AUTO IS OFF Arrow pad WB AUTO LF Cursor P AUTO 5 2 3 1 w Arrow pad # Caution · Some items are not available in some shooting modes. % Tips · For information on displaying or hiding the live control: g "KCONTROL SETTING" (P. 74) Using the menus I Basic guide Press the MENU button to display the menus. Tab CARD SETUP CUSTOM RESET PICTURE MODE K IMAGE ASPECT j 4:3 SET Operation guide BACK Press the MENU button to go back one screen Press the i button to confirm the setting 2 3 Use FG to select a tab and press i. Select an item using FG and press i to display options for the selected item.

Function j/ Y Basic operations The current setting is displayed o j/ Y j/ Yo IMAGE STABILIZER BRACKETING MULTIPLE EXPOSURE w #RC MODE OFF OFF 0.0 OFF i o IMAGE STABILIZER OFF BRACKETING j W MULTIPLE EXPOSURE w Y 0.0 #RC MODE OFF SET BACK SET BACK 4 Press the i button to confirm the setting. · 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.

108). % Tips · Camera settings can be customized to your shooting style: g "Customizing camera settings" (P. 71) The settings on the Custom Menu are for customizing the camera to suit your personal preferences or needs. They are not suited to frequent changing. The initial menu is more than adequate for setting both simple and advanced shooting functions. Normally, there is no need to display the Custom Menu. EN 1 Information displayed in the monitor Basic guide Information displayed in the monitor EN Shooting You can switch the monitor display using the INFO button. g "Switching the information display" (P. 33) 1 u s r 2 3 4 5 6 7 FP RC HP BKT 89 0 a b c S-AF ISO 400 q p S-AF ISO 400 AEL IS 2 4:3 LN 0 t o +2.0 n m P 250 l d e f g +2.

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..96 EN 1 1 Basic photography and useful functions Sequential shooting/using the self timer The camera will take photos at a rate of about 3 frames per second (fps) 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 and useful functions 0 EN Press the jY button (G) to display the direct menu.

SINGLE P o j Y12s Y2s 2 Select an option using HI and press i. Single-frame shooting Sequential shooting Shoots 1 frame at a time when the shutter button is pressed (normal shooting mode). Shoots at approximately 3 frames/sec. for as long as the shutter button is pressed (S-AF or MF selected for [AF MODE] (P. 44)). Press the shutter button halfway to focus, the rest of the way down to start the timer. First, the selftimer 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. o j Y12s Self-timer 12 SEC Y2s Self-timer 2 SEC \$ Notes · To cancel the activated self-timer, press the jY button.

· During sequential shooting, focus, exposure, and white balance are locked at the first frame (during S-AF, MF). # Caution · 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 self-timer, the photograph may be out of focus. Image quality (record mode) Adjust image quality (record mode). Choose a mode according to how the picture will be used: printed, retouched on a computer, displayed on the web, or used for some other purpose. YN, a flexible JPEG mode, is recommended in most situations. Choosing a record mode 1 2 Display the live control (P. 20) and select the record mode item using FG.

Select an option using HI and press i. · The selected option is displayed in the monitor. 4032x3024 P WB AUTO IS OFF j 1 Basic photography and useful functions LF RAW L F L N M N S N 38 Record mode n Supported record modes Choose from RAW and four JPEG modes. The four JPEG modes (YF, YN, XN, and WN) shown in the table are the options available at camera default settings. Choose a RAW+JPEG option to record both a RAW and a JPEG image with each shot.

n Image size and recording options JPEG modes combine image size (Y, X, and W) and compression ratio (SF, F, N, and B). Image size Y(Large) X(Middle) SF Compression rate (Fine) (Super Fine) F (Normal) N (Basic) B Pixel count 4032×3024 3200×2400 2560×1920 1600×1200 1280×960 1024×768 640×480 Application YSF XSF YF* XF YN* XN* YB XB Select for the print size For small prints and use on a web site W(Small) WSF WF WN* WB * Default. · You can choose the four JPEG modes available. g "KSET" (P. 76) · You can change the dimensions of X and W images.

g "PIXEL COUNT" (P. 77) RAW image data RAW image data are raw data that have yet to be processed to create a photograph. RAW files are generally used when you wish to modify the pictures after shooting or to save the unmodified data for later use. RAW images have the file extension ".ORF" and can not be displayed on cameras made by other manufacturers, viewed in general-purpose software, or selected for printing. The camera can be used to edit RAW data and create JPEG copies. g "Editing still images" (P. 63) EN 1 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], or [6:6]. 1 2 1 Basic photography and useful functions EN Display the live control (P.

20) and select the aspect ratio item using FG. Use HI to select an aspect ratio and press i. P 4:3 WB AUTO IS OFF j 4:3 16:9 3:2 6:6 LF # Caution · 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: g "Editing still images" (P. 63) Using face detection If [ON] is selected, faces detected when [G (Digital ESP metering)] (P. 47) is chosen for metering or [B (ALL TARGETS)] (P. 45) is chosen for AF target selection are indicated by a white frame and used to set exposure and focus.

Turning [g FACE DETECT] on 1 2 Display the live control (P. 20) and select [g FACE DETECT] using FG.

Use HI to select [ON] and press i. FACE DETECT ON P AUTO e S-AF ISO AUTO OFF ON Taking pictures using face detection 1 2 3 Frame your subject in the monitor. Faces detected by the camera are indicated by white borders. Press the shutter button halfway to focus. Press the shutter button the rest of the way down to shoot.

ISO AUTO LN P 250 F5.6 38 # Caution · During sequential shooting, face detection will work only at the first shot. · Depending on the subject, the camera may not be able to correctly detect the face. · If [M (SINGLE TARGET)] is chosen for AF target selection, the camera will focus on the subject in the selected focus target.



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· In metering modes other than [G (Digital ESP metering)], the camera will meter exposure for the selected position.

Switching the information display You can switch the information displayed on the monitor by pressing INFO button repeatedly. 1 Basic photography and useful functions *2 ISO AUTO ISO AUTO LN LN P 250 F5.6 38 P 250 F5.6 38 Image only*3 Information display on*1 Histogram display*3 F -0.3 +0.3 WB/F 0.0 ISO AUTO +0.7 SET P LN 250 F5.6 38 Multi view display*3 Highlight & Shadow display*3 *1 With [G/INFO SETTING] (P. 74), you can also select [w]/[x]/[y]/[X] for the ruled line display.

*2 During multiple exposure shooting (P. 51), the information display then switches to "Multiple exposure display". *3 Can be hidden with [G/INFO SETTING] (P. 74). Histograms Histograms show how pixels of different brightnesses are distributed and are used as a guide to exposure. The horizontal axis shows brightness, the vertical axis the number of pixels of each brightness in the image. Brightnesses that exceed a specified upper limit are shown in red, those under a specified lower limit in blue. The green portion shows the distribution in the spot metering area. EN Display magnification Press U in the shooting display to display the zoom frame. To exit, press i.

ISO AUTO LN P 250 F5.6 30 10x 1 Basic photography and useful functions EN F/G/H/I Position the zoom frame. To return the zoom frame to the default position, press and hold i. Press the shutter button halfway to override the currently selected button halfway focus target and focus on the subject in the zoom frame. U INFO Zoom in.

Press U again to zoom out. Display a menu of zoom ratios. Press FG to select the zoom ratio (7 ×/10 ×/14 ×). Press i or INFO to exit. # Caution · The U button does not zoom the lens in or out.

The U button can be used to zoom in on the image displayed in the monitor and check focus when taking photographs, but not for zoom photography. Press i to return to shooting mode. Panoramas If you have installed the supplied computer software (ib), you can use it to join pictures together to form a panorama. g "Installing the supplied computer software (ib)" (P. 88) Taking pictures for a panorama 1 Rotate the mode dial to SCN. 1 Basic photography and useful functions 2 3 4 5 Select [PANORAMA] and press i. Use FGHI to choose a pan direction. Take a picture, using the guides to frame the shot. 250 F5.6 M 38 · Focus, exposure, and other settings are fixed at the values for the first shot.

Take the remaining images, framing each shot so that the guides overlap with the previous picture. M 250 F5.6 38 [2] EXIT [3] EXIT 6 · A panorama may include up to 10 images. A warning indicator (g) is displayed after the tenth shot. After taking the last shot, press i to end the series. # Caution · During panorama shooting, the image previously taken for position alignment will not be retained. With the frames or other markers for display in the images as a guide, set the composition such that the edges of the overlapping images overlap within the frames. \$ Notes · Pressing the i button before shooting the first frame returns to the scene mode selection menu. Pressing the i button in the midst of shooting ends the sequence of panorama shooting, and allows you to continue with the next one. EN 2 1 Other shooting options and advanced settings "Point-and-shoot" photography (P program mode) In mode P, the camera automatically adjusts shutter speed and aperture in response to subject brightness.

Set the mode dial to P. 2 Other shooting options and advanced settings EN 2 Take pictures. · The optimal shutter speed and aperture are displayed in the monitor. ISO AUTO AF confirmation mark LN Shooting mode P 250 F5.6 38 Shutter speed Aperture value Program shift (%) In mode P, you can choose different combinations of aperture and shutter speed without changing exposure by pressing the F button (F) on the arrow pad.

This is known as "program shift." The shooting mode changes to %. To exit, press FG until the shooting mode changes from % to P or turn the camera off and then on again. ISO AUTO LN # Caution · Program shift is not available when you are using a flash. Ps 250 F5.

6 38 Program shift % Tips · The shutter speed and aperture displays flash if the camera is unable to achieve optimal exposure. See "Exposure warning display" (P. 103). 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 After pressing the F button (F), use FG to choose the aperture. ISO AUTO 2 Other shooting options and advanced settings LNA 250 F5.6 38 3 · 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. Take pictures.

Aperture value When the aperture value (f-number) is decreased When the aperture value (f-number) is increased Preview function If [PREVIEW] (P. 80) is assigned to the < or R (movie) button, pressing the < or R (movie) button stops aperture down to the selected value, allowing you to preview depth of field in the monitor. g "; FUNCTION, R FUNCTION" (P. 80) R (movie) button < button EN Choosing shutter speed (S shutter-priority mode) In mode S, you choose the shutter speed and let the camera automatically adjust aperture for optimal exposure. 1 Rotate the mode dial to S. 2 2 Other shooting options and advanced settings EN After pressing the F button (F), use FG to choose the shutter speed. ISO AUTO LN S 250 F5.6 38 3 · A fast shutter speed can freeze a fast action scene without any blur. A slow shutter speed will blur a fast action scene. This blurring will give the impression of dynamic motion.

Take pictures. Shutter speed Fast shutter speed Slow shutter speed Choosing aperture and shutter speed (M manual mode) In mode M, you choose both the aperture and the shutter speed. At a speed of BULB, the shutter remains open while the shutter button is pressed. 1 2 3 Rotate the mode dial to M. After pressing the F button (F), use HI to choose the aperture and FG to choose the shutter speed.

Take pictures. · The range of aperture values available varies with the lens type. · The shutter speed can be set to 1/2000 60 sec. or [BULB]. 2 Other shooting options and advanced settings Noise in images While shooting at slow shutter speeds, noise may appear on-screen.



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These phenomena are caused when current is generated in those sections of the image pickup device that are not normally exposed to light, resulting in a rise in temperature in the image pickup device or image pickup device drive circuit. This can also occur when shooting with a high ISO setting in a high-temperature environment. To reduce this noise, the camera activates the noise reduction function. g "NOISE REDUCT." (P. 76) # Caution · Exposure compensation is not available in M mode. Choosing when the exposure ends (bulb) You can take a picture with a bulb exposure time in which the shutter stays open as long as you hold down the shutter button. Time the end of the exposure to suit the subject. Use for landscapes and fireworks. In M mode, set the shutter speed to [BULB].

· [BULB] is displayed on the LCD monitor. % Tips · To automatically end bulb shooting after a specified period of time: g "BULB TIMER" (P. 75) · To fix the focus during manual focus shooting: g "BULB FOCUSING" (P. 72) # Caution · For bulb photography, we recommend that you mount the camera on a tripod or rest it on a level, stable surface. · The following functions are not available during bulb shooting: Sequential shooting/self-timer shooting/AE bracket shooting/image stabilizer/flash bracketing EN Controlling exposure (exposure compensation) Press the F button (F) and use HI to adjust exposure compensation. Choose positive ("+") values to make pictures brighter, negative ("-") values to make pictures darker. Exposure can be adjusted by ± 3 EV. Negative (-) No compensation (0) Positive (+) 2 Other shooting options and advanced settings 0 EN % Tips · To change the exposure adjustment interval: g "EV STEP" (P. 75) # Caution · Exposure compensation is not available in A, M, or SCN modes. · Changing the default exposure restricts the range of exposure compensation values available.

Previewing the effects of exposure compensation and white balance You can check the effects of exposure compensation and white balance on a 4-split screen. 1 Press the INFO button repeatedly to display the multi view display. g "Switching the information display" (P. 33) · Use FG to switch between exposure compensation and white balance. F -0.

3 +0.3 WB/F 0.0 +0.7 SET 2 Use HI to select the desired value and press i. · You can take the picture using the set value.

Caution · This function cannot be used in A, ART, SCN, n or M modes. 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. Choose ISO 100 when reducing noise is more important than enhancing dynamic range. 1 2 Display the live control (P. 20) and select the ISO sensitivity item using FG. Select an option using HI and press i. · The selected option is displayed in the monitor. ISO-A 200 AUTO e S-AF 2 Other shooting options and advanced settings RECOMMEND 1000 F8.0 +2.

0 g ISO-A 200 OFF P AUTO 100 125 160 200 250 AUTO 100 3200 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] (P. 75). · The options available for ISO sensitivity can be selected using [ISO STEP] (P. 75). · Auto sensitivity can be enabled in M mode using [ISO-AUTO] (P. 75). 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. 20) and select the white balance item using FG. Select an option using HI and press i. · The selected option is displayed in the monitor. WB AUTO P WB AUTO IS OFF j LF AUTO 5 2 3 1 w EN 1 WB mode Auto white balance AUTO 5 2 Preset white balance 3 1 w x y n One-touch white balance (P.

43) Custom white balance V Color temperature k 5300K 7500K 6000K 3000K 4000K 4500K 6600K 5500K Color temperature set by onetouch WB. 2000K 14000K Light conditions Used for most light conditions (when there is a white portion framed on the LCD 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 shooting under white fluorescent lighting For shooting under a neutral white fluorescent lamp For shooting under a daylight fluorescent lamp 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 i.

2 Other shooting options and advanced settings EN 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 More Red More Blue white dots in the accompanying figure 2000 3000 4000 5000 6000 8000 [K] 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. Candle flame Hot white light bulb White fluorescent Intense white fluorescent Clear day Overcast Shade on clear day Daylight fluorescent 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. 71) 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) Depending on the original WB conditions, the image will become more amber when adjusted toward +, and bluer when adjusted toward -. Adjusting the white balance in the G direction (Green-Magenta) AUTO > +2 5 A G WB PREVIEW BACK SET Depending on the original WB conditions, the image will become greener when adjusted toward +, and magenta when adjusted toward -.

· Choose from values between 7 and +7.



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4 Press *i* to save settings and exit. % Tips · After setting the compensation value, point the camera at the subject to take test shots. When the *R* (movie) button is pressed, sample images that have been taken with the current WB settings are displayed. · Adjusting all WB mode settings at once: g "ALL >" (P. 76) 2 Other shooting options and advanced settings 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 4 After selecting [V (One-touch white balance)] (P. 42), press the INFO button. Frame a white object in the display. · Frame the object so that it fills the display and no shadows fall on it. Press the shutter button all the way down. · The one-touch white balance screen appears. Select [YES] and press the *i* button. · 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. · Paper that is a neutral gray color rather than white can also be used.

EN Choosing a focus mode (AF mode) Select a focusing method (focus mode). 1 2 Display the live control (P. 20) and select the AF mode item using FG. Select an option with HI and press the *i* button. · The selected AF mode is displayed on the LCD monitor. AUTO S-AF e S-AF g SINGLE AF P ISO AUTO OFF S-AF C-AF MF S-AF+MF 2 Other shooting options and advanced settings EN 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 LCD 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. · The AF target does not light up, even when the subject is in focus. · Four Thirds system lenses focus using S-AF. This function allows you to manually focus on any subject.) Focus ring Near C-AF (continuous AF) MF (manual focus) S-AF+MF After pressing the shutter button halfway to focus in S-AF (Simultaneous use of S-AF mode, you can turn the focus ring to fine-adjust focus manually. 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. · Instances in which focus tracking is not available are listed below. S-AF will be used instead.

Four Thirds system lenses C-AF+TR (AF Tracking) % Tips · The [RLS PRIORITY S] (P. 73) and [RLS PRIORITY C] (P. 73) options can be used to choose whether the shutter can be released when the camera is unable to focus. · [MF ASSIST] (P. 72) can be used to enable automatic zoom display when the lens focus ring is rotated. · [FOCUS RING] (P. 72) allows you to change the rotational direction of the focus ring. Choosing a focus target (AF target) This camera has 11 AF targets for focusing on the subject with auto focus. [AF AREA] options allows you to select the AF target according to the subject or the composition. 1 2 Press the P button (H) to display options.

Select an AF target with HI and press the *i* button. If all targets are surrounded by a green frame (B ALL TARGETS) · The camera automatically selects from the 11 focus targets. 2 Other shooting options and advanced settings If one target is surrounded by a green frame (M SINGLE TARGET) · The camera will focus on the subject in the selected focus target. Using a saved AF target 1 2 3 Assign [P HOME] to the < or R (movie) button. g "P HOME" (P. 80) Choose the AF target that will be used as the home position. · The home position is saved when the button is pressed. g "P SET HOME" (P. 72) During shooting, press the < or R (movie) button. · The camera will focus on the subject in the saved AF target.

Caution · The menus can be used to select the AF target but not to store the home position. EN Focus lock Focus lock is suitable when selecting a composition where the subject is outside of the AF targets or when shooting a subject which is difficult to focus on with auto focus. 1 2 3 Position the AF target over your subject and press the shutter button halfway. · Make sure that the AF confirmation mark is lighting up. While pressing the shutter button halfway, change the composition as necessary. · While pressing the shutter button halfway, the focus is locked. · Do not change the distance between the camera and the subject while pressing the shutter button halfway. 2 Other shooting options and advanced settings EN Press the shutter button all the way to take a picture. # Caution · If the contrast of the subject is weak, such as when the lighting is insufficient or the subject cannot be seen clearly because of fog, the focus may not be achieved. Zoom frame AF Pressing the U button displays a zoom frame; to focus on the area shown by the zoom frame, press the shutter button halfway.

1 2 3 Press U. · The zoom frame will be displayed. Use FGHI to position the zoom frame. · Press INFO and use FG to choose the zoom ratio. Press the shutter button halfway to initiate autofocus. Press U again to zoom in on the selected area. · Press U to toggle between the zoom frame and zoom displays. The photograph can be taken at any time. · Press *i* to exit. Measuring subject brightness (metering) Choose how the camera meters subject brightness.

1 2 Display the live control (P. 20) and select the metering item using FG. AUTO e e S-AF g Select an option with HI and press *i*. G ESP P eJ5 55 HI SH ISO AUTO OFF H The camera meters exposure in 324 areas of the frame and optimizes exposure for the current scene or Digital ESP (if face detection is on) portrait subject. This mode is metering recommended for general use. This metering mode provides the average Center weighted metering between the subject and the averaging background lighting, placing more weight on metering the subject at the center.



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2 Other shooting options and advanced settings 3 Choose this option to meter a small area (about 2% of the frame) with the camera pointed at the object you wish to meter. Spot metering I Exposure will be adjusted according to the brightness at the metered point. Spot metering - Increases spot metering exposure. Ensures bright IHI highlight control subjects appear bright.

Spot metering - Lowers spot metering exposure. Ensures dark subjects ISH shadow control appear dark. · 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. Press the shutter button halfway. Exposure lock (AE lock) If AEL/AFL is assigned to the < or R (movie) button, the button in question can be used to lock exposure at the metered value (AE lock). Use when you want to set exposure using a composition different from that which will ISO be used in the final photograph. Normally, the shutter button AUTO LN AEL is pressed halfway to lock both focus (AF) and exposure Ps 250 F5.6 38 (AE); to lock exposure and not focus, press the < or R AE lock button. Pressing the < or R (movie) button locks exposure at the value metered for the current subject. While the button is pressed, exposure will remain locked, and photographs can be taken by pressing the shutter button.

· To end AE lock, release the < or R (movie) button. EN % Tips · To lock the exposure: g "AEL/AFL MEMO" (P. 72) · To activate AE lock with a set metering mode: g "AEL Metering" (P. 75) Varying settings over a series of photographs (bracketing) The camera automatically varies exposure, white balance, flash level, or sensitivity over a series of exposures, "bracketing" the current setting. Bracketing is available in P, A, S, and M modes.

1 2 Other shooting options and advanced settings EN Select [BRACKETING] in shooting menu X (P. 108). j/ Y o IMAGE STABILIZER BRACKETING MULTIPLE EXPOSURE w #RC MODE OFF OFF 0.0 OFF BACK SET BRACKETING 2 Choose a bracketing type. · 0 is displayed in the monitor. AE BKT WB BKT FL BKT ISO BKT BACK -A-G-- --SET AE BKT (AE bracketing) The camera varies exposure by 0.3 EV, 0.7 EV, or 1.0 EV over three shots (no modification on the first shot, negative on the second, and positive on the third). In single-frame shooting, one shot is taken each time the shutter button is pressed; in sequential shooting, all shots are taken while the shutter button is pressed. · The 0 indicator turns green during bracketing. · The camera modifies exposure by varying aperture and shutter speed (mode P), shutter speed (modes A and M), or aperture (mode S). · The camera brackets the value currently selected for exposure compensation. · The size of the bracketing increment changes with the value selected for [EV STEP] (P. 75).

BRACKETING AE BKT AE BKT WB BKT FL BKT ISO BKT BACK OFF -A-3F 0.3EV G-3F 0.7EV -3F 1.0EV -SET WB BKT (WB bracketing) Three images with different white balances (adjusted in specified color directions) are automatically created from one shot, starting with the value currently selected for white balance. · White balance can be varied by 2, 4, or 6 steps on each of the A B (Amber Blue) and G M (Green Magenta) axes. · The camera brackets the value currently selected for white balance compensation. · No pictures will be taken during WB bracketing if there is not enough memory on the card for the selected number of frames. WB BKT A-B 3F 4STEP G-M 3F 4STEP BACK SET FL BKT (FL bracketing) The camera varies flash level over three shots (no modification on the first shot, negative on the second, and positive on the third). In single-frame shooting, one shot is taken each time the shutter button is pressed; in sequential shooting, all shots are taken while the shutter button is pressed. · The 0 indicator turns green during bracketing. · The size of the bracketing increment changes with the value selected for [EV STEP] (P. 75). FL BKT BRACKETING AE BKT WB BKT FL BKT ISO BKT BACK OFF -A-3F 0.3EV G-3F 0.7EV -3F 1.0EV -SET 2

2 Other shooting options and advanced settings ISO BKT (ISO bracketing) The camera varies sensitivity by 0.3 EV, 0.7 EV, or 1.0 EV over three shots (no modification on the first shot, negative on the second, and positive on the third), bracketing the current sensitivity setting (or if auto sensitivity is selected, the optimal sensitivity setting) while keeping shutter speed and aperture fixed. In single-frame shooting, one shot is taken each time the shutter button is pressed; in sequential shooting, all shots are taken while the shutter button is pressed. · The size of the bracketing increment does not change with the value selected for [ISO STEP] (P. 75). · Bracketing is performed regardless of the upper limit set with [ISO-AUTO SET] (P. 75). ISO BKT BRACKETING AE BKT WB BKT FL BKT ISO BKT BACK OFF -A-3F 0.3EV G-3F 0.7EV -3F 1.0EV -SET EN 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 2 2 Other shooting options and advanced settings 0 EN Display the live control (P. 20) and select the image stabilizer item using FG.

FOCAL LENGTH AUTO INFO WB AUTO j LF Select an option with HI and press i. P 50 mm OFF I.S. 1 I.S. 2 I.S. 3 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. n Setting the focal length Use focal length information to reduce camera shake when shooting with lenses that are not Micro Four Thirds or Four Thirds system lenses. WB AUTO j 1 2 Press the INFO button when the image stabilizer is turned on.

AUTO P LF 50 mm Use HI to choose a focus distance and press i. · Choose a focal length between 8 mm and 1000 mm. g "Focal lengths that can be set" (P. 104) · Choose the value that most closely matches to the one that is printed on the lens. # Caution · 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. · If [IMAGE STABILIZER] is set to [I.S. 1], [I.S. 2] or [I.S. 3] and you turn off the camera, the camera will vibrate.

This is due to the camera initializing the image stabilizer mechanism.



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