



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON D810. You'll find the answers to all your questions on the NIKON D810 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON D810
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Nikon

DIGITAL CAMERA
D810
User's Manual



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Manual abstract:

Nikon Manual Viewer 2 can be downloaded free of charge from the App Store and Google Play. Download of the app and any product manuals requires an Internet connection, for which fees may be levied by your phone or Internet service provider. A For Your Safety Before using the camera for the first time, read the safety instructions in “For Your Safety” (0 xiii–xvi). Package Contents Be sure all items listed here were included with your camera. BM-12 monitor cover (0 10) BF-1B body cap (0 15, 436) D810 digital camera (0 1) EN-EL15 rechargeable Li-ion battery with terminal cover (0 13, 14) MH-25a battery charger (comes with either an AC wall adapter or power cable of a type and shape that varies with the country or region of sale; 0 13) USB cable clip (0 258) HDMI cable clip (0 269) UC-E22 USB cable (0 257, 263) AN-DC12 strap (0 12) User’s Manual (this guide) ViewNX 2 installer CD (0 253) Memory cards are sold separately. Cameras purchased in Japan display menus and messages in English and Japanese only; other languages are not supported. We apologize for any inconvenience this may cause. i Table of Contents Package Contents...

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fully discharged. To avoid damage dry cloth.

Continued use could to the product, be sure to remove result in fire. the battery when no charge remains. xv • Do not handle the power cable or A Use appropriate cables go near the charger during When connecting cables to the input thunderstorms. Failure to observe and output jacks, use only the cables this precaution could result in provided or sold by Nikon for the electric shock. purpose to maintain compliance with • Do not damage, modify, or forcibly product regulations.

tug or bend the power cable. Do A CD-ROMs not place it under heavy objects or CD-ROMs containing software or expose it to heat or flame. Should manuals should not be played back the insulation be damaged and the on audio CD equipment. Playing CDwires become exposed, take the ROMs on an audio CD player could power cable to a Nikon-authorized cause hearing loss or damage the service representative for equipment. inspection. Failure to observe this A Follow the directions of airline and precaution could result in fire or hospital personnel electric shock. This camera transmits radio • Do not handle the plug or charger frequencies that could interfere with with wet hands. Failure to observe medical equipment or aircraft this precaution could result in injury navigation. Disable the wireless or product malfunction due to fire or network feature and remove all electric shock. wireless accessories from the camera • Do not use with travel converters or before boarding an aircraft, and turn adapters designed to convert from the camera off during take off and one voltage to another or with DClanding.

In medical facilities, follow to-AC inverters. Failure to observe staff instructions regarding the use of this precaution could damage the wireless devices.



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The following apply only to users in European countries: • This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste. • Separate collection and recycling helps conserve natural resources and prevent negative consequences for human health and the environment that might result from incorrect disposal. • For more information, contact the retailer or the local authorities in charge of waste management. This symbol on the battery indicates that the battery is to be collected separately.

The following apply only to users in European countries: • All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste. • For more information, contact the retailer or the local authorities in charge of waste management. xvii Notices for Customers in the U.S.

A. Power Cable At voltages over AC 125 V (U.S.A. only): The power cable must be rated for the voltage in use, be at least AWG no. 18 gauge, and have SVG insulation or better with a NEMA 6P-15 plug rated for AC 250 V 15 A. Federal Communications Commission (FCC) Radio Frequency Interference Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 D810 of the FCC rules. These limits are designed to provide reasonable CAUTIONS protection against harmful interference Modifications in a residential installation. This The FCC requires the user be notified equipment generates, uses, and can that any changes or modifications radiate radio frequency energy and, if made to this device that are not not installed and used in accordance expressly approved by Nikon with the instructions, may cause harmful Corporation may void the user's interference to radio communications. authority to operate the equipment.

However, there is no guarantee that interference will not occur in a particular Interface Cables Use the interface cables sold or installation. If this equipment does cause harmful interference to radio or provided by Nikon for your equipment. Using other interface television reception, which can be determined by turning the equipment cables may exceed the limits of Class off and on, the user is encouraged to try B Part 15 of the FCC rules. to correct the interference by one or Notice for Customers in the State of California more of the following measures: WARNING: Handling the cord on this • Reorient or relocate the receiving product may expose you to lead, a antenna. chemical known to the State of • Increase the separation between the California to cause birth defects or equipment and receiver. other reproductive harm. Wash hands • Connect the equipment into an after handling. outlet on a circuit different from that to which the receiver is connected. Nikon Inc., 1300 Walt Whitman Road, • Consult the dealer or an experienced Melville, New York 11747-3064, U.

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For more information, see the documentation provided with the optional communication unit. Care should be taken to avoid injury when physically destroying data storage devices.



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Only Nikon brand electronic accessories (including chargers, batteries, AC adapters, and flash accessories) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry. The use of non-Nikon electronic accessories could damage the camera and may void your Nikon warranty. The use of third-party rechargeable Li-ion batteries not bearing the

Nikon holographic seal shown at right could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking. For more information about Nikon brand accessories, contact a local authorized Nikon dealer. xxi D Use Only Nikon Brand Accessories Only Nikon brand accessories certified by Nikon specifically for use with your Nikon digital camera are engineered and proven to operate within its operational and safety requirements.

THE USE OF NON-NIKON ACCESSORIES COULD DAMAGE YOUR CAMERA AND MAY VOID YOUR NIKON WARRANTY. A Before Taking Important Pictures Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction. A Life-Long Learning As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available on-line at the following sites: • For users in the U.S.

A.: <http://www.nikonusa.com/> • For users in Europe and Africa: <http://www.europe-nikon.com/support/> • For users in Asia, Oceania, and the Middle East: <http://www.nikon-asia.com/> Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently-asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the following URL for contact information: <http://imaging.nikon.com/>

nikon.com/ xxii Introduction Getting to Know the Camera Take a few moments to familiarize yourself with camera controls and displays. You may find it helpful to bookmark this section and refer to it as you read through the rest of the manual. Camera Body 1 Release mode dial

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.....109, 111 6 Y button.....

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.....115 7 Accessory shoe (for optional flash unit) ..

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.....435, 436, 479 8 9 10 11 12 13 14 15 16 Sub-command dial

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..... 351 Power switch

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..... 16 Shutter-release button..

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.... 30 E button.....

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.... 130, 206 Movie-record button

... 52 I/Q button..

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116, 366 Control panel.....

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.....5 Main command dial...

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..... 351 Focal plane mark (E)

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.. 190, 196 Audio connector cover.....

..56, 63 USB connector cover ...

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257, 263 HDMI connector cover

.... 269 Lens release button.....

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.....23 AF-mode button ...

.....39, 41, 88, 91 Focus-mode selector 39, 87, 100 Lens mounting mark .

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.....15 Mirror.

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..... 108, 448 Metering coupling lever

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. 477 Headphone connector....

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...56 Connector for external microphone.....

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.....63 16 USB connector ..

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..... 257, 263 17 HDMI connector ...

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.. 269 10 11 12 13 14 15 D The Speaker Do not place the speaker in close proximity to magnetic devices. Failure to observe this precaution could affect the data recorded on the magnetic devices. D Close the Connector Cover Close the connector cover when the connectors are not in use. Foreign matter in the connectors can interfere with data transfer. 2 1 Stereo microphone....

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...49, 62 2 AF-assist illuminator..

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..313 Self-timer lamp.....

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107 Red-eye reduction lamp

.191 3 Pv button

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.... 54, 117, 349, 362 4 Fn button.....

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.. 78, 343, 361 5 Memory card slot cover...

.....14, 21 6 Power connector cover

.....442 7 Battery-chamber cover latch .

.... 14 8 Battery-chamber cover .

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..... 14 9 Contact cover for optional MB-D12 battery pack.

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436 10 11 12 13 14 15 16 17 Tripod socket Lens mount

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.. 15, 101 CPU contacts Ten-pin remote terminal cover...

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... 233, 439 Flash sync terminal cover ..

..... 429 Flash sync terminal ...

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.. 429 Ten-pin remote terminal ...

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.35, 49 13 14 15 16 17 18 19 20 21 22 23 Memory card access lamp...
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.....9, 42, 55, 205, 386 Monitor
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25 W button
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38, 44, 235, 248 L/Z/Q button.....
...25, 171, 250 G button ..
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24, 272 K button

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.31, 235 O/Q button

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..33, 251, 366 4 The Control Panel The control panel shows a variety of camera settings when the camera is on. The items shown here appear the first time the camera is turned on; information on other settings can be found in the relevant sections of this manual. 1 2 3 4 5 14 13 12 11 Exposure mode

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.116 Metering

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114 Shutter speed

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.119, 121 B indicator

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..372 Aperture (f-number)

.120, 121 CompactFlash memory card indicator....

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.. 14 7 SD memory card indicator.....

.. 14 8 Battery indicator

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..... 19 1 2 3 4 5 6 6 7 8 9 10 9 Number of exposures remaining.

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..... 20, 489 10 Focus mode..

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.... 87 11 White balance.....

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.... 148 12 Image quality

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..... 79 13 AF-area mode

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..90, 91 14 Image size (JPEG and TIFF images)

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.... 83 A The B Indicator The camera clock is powered by an independent, rechargeable power source, which is charged as necessary when the main battery is installed or the camera is powered by an optional power connector and AC adapter (0 436).

Two days of charging will power the clock for about three months. If the B icon flashes in the control panel, the clock has been reset and the date and time recorded with any new photographs will not be correct. Set the clock to the correct time and date using the Time zone and date > Date and time option in the setup menu (0 18). 5 The Viewfinder Display 1 Framing grid (displayed when On 6 Metering..

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..... 114 is selected for Custom Setting d7) 7 Autoexposure (AE) lock...

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128
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..... 325 8 Shutter speed lock icon

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.. 126 2 Focus points...

. 17, 30, 94, 310, 311 9 Shutter speed.....

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.. 119, 121 AF-area mode ...

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.....90, 91 Autofocus mode ..

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.....87 3 AF area brackets....

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.....17, 239 10 Aperture lock icon.



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....131 Flash compensation value.....
..196 17 18 19 20 21 22 23 24 25 Flash-ready indicator...

..... 189 FV lock indicator .

.... 199 Flash sync indicator.....

.... 329 Aperture stop indicator.

... 120, 424 Exposure indicator ..

..... 122 Exposure compensation display.

. 131 Low battery warning

19 Exposure/flash bracketing indicator

... 134 WB bracketing indicator ..

..... 139 ADL bracketing indicator..

..... 143 Auto ISO sensitivity indicator ..

. 112 "k" (appears when memory remains for over 1000 exposures)....

... 20 Note: Display shown with all indicators lit for illustrative purposes. D No Battery When the battery is totally exhausted or no battery is inserted, the display in the viewfinder will dim. This is normal and does not indicate a malfunction. The viewfinder display will return to normal when a fully-charged battery is inserted. D The Control Panel and Viewfinder Displays The brightness of the control panel and viewfinder displays varies with temperature, and the response times of the displays may drop at low temperatures. This is normal and does not indicate a malfunction. 7 The R Button Press the R button to view shooting information during viewfinder photography (0 201).

R button 8 The b button Use the b button for quick access to frequently-used settings in playback mode (0 386) and during viewfinder (0 205) and live view photography (0 42) and movie live view (0 55). b button Viewfinder photography Playback Live view photography Movie live view 9 The BM-12 Monitor Cover A clear plastic cover is provided with the camera to keep the monitor clean and protect it when the camera is not in use. To attach the cover, insert the projection on the top of the cover into the matching indentation above the camera monitor (q) and press the bottom of the cover until it clicks into place (w).

To remove the cover, hold the camera firmly and pull the bottom of the cover gently outwards as shown at right. 10 The Multi Selector In this manual, operations using the multi selector are represented by 1, 3, 4, and 2 icons. 1: Press the multi selector up The center of the multi selector 4: Press the multi selector left 2: Press the multi selector right 3: Press the multi selector down 11 First Steps Follow the seven steps below to ready the camera for use. 1 Attach the strap. Attach the strap as shown. Repeat for the second eyelet. D The Battery and Charger Read and follow the warnings and cautions on pages xiii–xvi and 452–457 of this manual.

12 2 Charge the battery. Insert the battery and plug the charger in (depending on the country or region, the charger comes with either an AC wall adapter or a power cable). An exhausted battery will fully charge in about two hours and 35 minutes. • AC wall adapter: Insert the AC wall adapter into the charger AC inlet (q). Slide the AC wall adapter latch as shown (w) and rotate the adapter 90 ° to fix it in place (e).

Insert the battery and plug the charger in. AC wall adapter latch 90 ° • Power cable: After connecting the power cable with the plug in the orientation shown,

insert the battery and plug the cable in. The CHARGE lamp will flash while the battery charges. Battery charging Charging complete 13 3 Insert the battery and a memory card. Before inserting or removing the battery or memory cards, confirm that power switch is in the OFF position.

Insert the battery in the orientation shown, using the battery to keep the orange battery latch pressed to one side. The latch locks the battery in place when the battery is fully inserted. Battery latch Memory cards are inserted as shown below. • SD memory cards: Slide the card in until it clicks into place. • CompactFlash memory cards: Slide the card in, stopping when the eject button pops up. Eject button 14 4 Attach a lens. Be careful to prevent dust from entering the camera when the lens or body cap is removed. The lens generally used in this manual for illustrative purposes is an AF-S NIKKOR 24– 120mm f/4G ED VR. Remove the camera body cap Remove the rear lens cap Mounting mark (camera) Align the mounting marks Mounting mark (lens) Rotate the lens as shown until it clicks into place Be sure to remove the lens cap before taking pictures. 15 5 Turn the camera on.

Turn the camera on. The control panel will light. Power switch Control panel A LCD Illuminators Rotating the power switch toward D activates the standby timer and control panel backlight (LCD illuminator), allowing the display to be read in the dark. After the power switch is released, the illuminators will remain lit for six seconds while the standby timer is active or until the shutter is released or the power switch is rotated toward D again. 16 6 Focus the viewfinder. Lift the diopter adjustment control and rotate it until the viewfinder display, focus points, and AF area brackets are in sharp focus. When operating the control with your eye to the viewfinder, be careful not to put your fingers or fingernails in your eye. Push the diopter adjustment control back in once you have adjusted focus to your satisfaction. Focus point AF area brackets Viewfinder not in focus Viewfinder in focus 17 7 Choose a language and set the camera clock. Use the Language and Time zone and date options in the setup menu to choose a language and set the camera clock (Language is automatically shown highlighted the first time the menus are displayed).

Time zone and date is used to choose a time zone (Time zone), choose a date format (Date format), turn daylight saving time on and off (Daylight saving time), and set the camera clock to the current date and time (Date and time; note that the camera uses a 24-hour clock). For information on using the menus, see “Using Camera Menus” (0 25). G button The camera is now ready for use. Proceed to page 29 for information on taking photographs. 18 □□ Battery Level The battery level is shown in the control panel and viewfinder.

Control panel Viewfinder Control panel L K J I H H (flashes) Viewfinder — — — — d d (flashes) Description Battery fully charged. Battery partially discharged. Low battery. Charge battery or ready spare battery. Shutter release disabled.

Charge or exchange battery. 19 □□ Number of Exposures Remaining The memory cards currently inserted in the camera are indicated as shown (the example at right shows the icons displayed when both an SD and a CompactFlash card are inserted). If the Control panel memory card is full or an error has occurred, the icon for the affected card will flash (0 468).



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The control panel and viewfinder show the number of photographs that can be taken at current settings (values over 1000 are rounded down to the nearest hundred; e.g., values between 1200 and 1299 are shown as 1.2 k). Number of exposures remaining Control panel Viewfinder A Camera Off Display If the camera is turned off with a battery and memory card inserted, the memory card icon and number of exposures remaining will be displayed (some memory cards may in rare cases only display this information when the camera is on). Control panel 20 □□ Removing the Battery and Memory Cards Removing the Battery Turn the camera off and open the battery-chamber cover. Press the battery latch in the direction shown by the arrow to release the battery and then remove the battery by hand.

Removing Memory Cards After confirming that the memory card access lamp is off, turn the camera off and open the memory card slot cover. •SD memory cards: Press the card in and then release it (q). The memory card can then be removed by hand (w). 16GB • CompactFlash memory cards: Press the eject button (q) to partially eject the card (w). The memory card can then be removed by hand. Do not push on the memory card while pressing the eject button. Failure to observe this precaution could damage the camera or memory card. 16GB 21 D Memory Cards • Memory cards may be hot after use. Observe due caution when removing memory cards from the camera. • Turn the power off before inserting or removing memory cards.

Do not remove memory cards from the camera, turn the camera off, or remove or disconnect the power source during formatting or while data are being recorded, deleted, or copied to a computer. Failure to observe these precautions could result in loss of data or in damage to the camera or card. • Do not touch the card terminals with your fingers or metal objects. • Do not bend, drop, or subject to strong physical shocks. • Do not apply force to the card casing. Failure to observe this precaution could damage the card. • Do not expose to water, high levels of humidity, or direct sunlight. • Do not format memory cards in a computer. A The Write Protect Switch SD memory cards are equipped with a write protect switch to prevent accidental loss of data. When this switch is in the "lock" Write-protect switch position, the memory card can not be formatted and photos can not be deleted or recorded (a warning will be displayed in the monitor if you attempt to release the shutter).

To unlock the memory card, slide the switch to the "write" position. A No Memory Card If no memory card is inserted, the control panel and viewfinder will show S. If the camera is turned off with a charged battery and no memory card inserted, S will be displayed in the control panel. 22 □□ Detaching the Lens Be sure the camera is off when removing or exchanging lenses. To remove the lens, press and hold the lens release button (q) while turning the lens clockwise (w). After removing the lens, replace the lens caps and camera body cap. D CPU Lenses with Aperture Rings In the case of CPU lenses equipped with an aperture ring (0 422), lock aperture at the minimum setting (highest f-number). A Diopter-Adjustment Viewfinder Lenses Corrective lenses (available separately; 0 438) can be used to further adjust viewfinder diopter. Before attaching a diopter-adjustment viewfinder lens, remove the viewfinder eyepiece by closing the viewfinder shutter to release the eyepiece lock (q) and then unscrewing the eyepiece as shown at right (w). 23 Camera Menus Most shooting, playback, and setup options can be accessed from the camera menus.

To view the menus, press the G button. G button Tabs Choose from the following menus: •D: Playback (0 280) •N: Retouch (0 384) •C: Shooting (0 290) •O/m: MY MENU or RECENT SETTINGS (defaults to MY MENU; 0 414) •A: Custom Settings (0 300) •B: Setup (0 365) Slider shows position in current menu. Current settings are shown by icons. Menu options Options in current menu. Help icon (0 25) 24 Using Camera Menus □□ Menu Controls The multi selector and J button are used to navigate the menus. Multi selector Move cursor up Select highlighted item Cancel and return to previous menu Select highlighted item or display submenu Move cursor down J button Select highlighted item A The d (Help) Icon If a d icon is displayed at the bottom left corner of the monitor, help can be displayed by pressing the L (Z/Q) button. A description of the currently selected option or menu will be displayed while the button is pressed. Press 1 or 3 to scroll through the display. L (Z/Q) button 25 □□ Navigating the Menus Follow the steps below to navigate the menus. 1 Display the menus.

Press the G button to display the menus. G button 2 Highlight the icon for the current menu. Press 4 to highlight the icon for the current menu. 3 Select a menu. Press 1 or 3 to select the desired menu.

26 4 Position the cursor in the selected menu. Press 2 to position the cursor in the selected menu. 5 Highlight a menu item. Press 1 or 3 to highlight a menu item. 6 Display options.

Press 2 to display options for the selected menu item. 7 Highlight an option. Press 1 or 3 to highlight an option. 27 8 Select the highlighted item. Press J to select the highlighted item. To exit without making a selection, press the G button. J button Note the following points: • Menu items that are displayed in gray are not currently available. • While pressing 2 or the center of the multi selector generally has the same effect as pressing J, there are some cases in which selection can only be made by pressing J. • To exit the menus and return to shooting mode, press the shutter-release button halfway. 28 Basic Photography and Playback "Point-and-Shoot" Photography 1 Ready the Camera.

When framing photographs in the viewfinder, hold the handgrip in your right hand and cradle the camera body or lens with your left. When framing photographs in portrait (tall) orientation, hold the camera as shown at right. 2 Frame the photograph. At default settings, the camera will focus on the subject in the center focus point. Frame a photograph in the viewfinder with the main subject in the center focus point. Focus point 29 3 Press the shutter-release button halfway. Press the shutter-release button halfway to focus (if the subject is poorly lit, the AF-assist illuminator Focus indicator may light). The in-focus indicator (I) will appear in the viewfinder when the focus operation is complete. Viewfinder display I F H F H (flashes) Description Subject in focus. Focus point is between camera and subject.

Focus point is behind subject. Camera unable to focus on subject in focus point using autofocus. See page 99. 4 Shoot. Smoothly press the shutter-release-button the rest of the way down to take the photograph.

The memory card access lamp Memory card access will light and the lamp photograph will be displayed in the monitor for a few seconds.



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Do not eject the memory card or remove or disconnect the power source until the lamp has gone out and recording is complete. 30 Basic Playback 1 Press the K button. A photograph will be displayed in the monitor. The memory card containing the picture currently displayed is shown by an icon. K button 2 View additional pictures. Additional pictures can be displayed by pressing 4 or 2. To view additional information on the current photograph, press 1 and 3 (0 238). To end playback and return to shooting mode, press the shutter-release button halfway. 31 When On is selected for Image review in the playback menu (0 287), photographs are automatically displayed in the monitor for a few seconds after shooting. A Image Review A See Also See page 237 for information on choosing a memory card slot. 32 Deleting Unwanted Photographs To delete the photograph currently displayed in the monitor, press the O (Q) button. Note that photographs can not be recovered once deleted. 1 Display the photograph. Display the photograph you wish to delete as described on the preceding page.

The location of the current image is shown by an icon at the bottom left corner of the display. 2 Delete the photograph. Press the O (Q) button. A confirmation dialog will be displayed; press the O (Q) button again to delete the image and return to playback. To exit without deleting O (Q) button the picture, press K. A Delete To delete multiple images or to select the memory card from which images will be deleted, use the Delete option in the playback menu (0 252). 33 A The Standby Timer (Viewfinder Photography) The viewfinder indicator display and control panel shutter speed and aperture display will turn off if no operations are performed for about six seconds, reducing the drain on the battery. Press the shutter-release button halfway to reactivate the display. The length of time before the standby timer expires automatically can be selected using Custom Setting c2 (Standby timer, 0 319). Exposure meters off Exposure meters on 34 Live View Photography Follow the steps below to take photographs in live view.

1 Rotate the live view selector to C (live view photography). Live view selector 2 Press the a button. The mirror will be raised and the view through the lens will be displayed in the camera monitor. The subject will no longer be visible in the viewfinder. a button 3 Position the focus point. Position the focus point over your subject as described on page 40. 35 4 Focus. Press the shutter-release button halfway to focus. The focus point will flash green while A AE-L/AF-L button the camera focuses. If the camera is able to focus, the focus point will be displayed in green; if the camera is unable to focus, the focus point will flash red (note that pictures can be taken even when the focus point flashes red; check focus in the monitor before shooting). Exposure can be locked by pressing the A AE-L/AF-L button (0 128); focus locks while the shutter-release button is pressed halfway. A Exposure Preview During live view photography, you can press J to preview the effects of shutter speed, aperture, and ISO sensitivity on exposure. Exposure can be adjusted by ± 5 EV (0 130), although only values between -3 and $+3$ EV are reflected in the preview display. Note that the preview may not accurately reflect the final results when flash lighting is used, Active D-Lighting (0 182), High Dynamic Range (HDR; 0 184), or bracketing is in effect, A (auto) is selected for the Picture Control Contrast parameter (0 174), or a value other than 0 is selected for Clarity (0 174), or p is selected for shutter speed. If the subject is very bright or very dark, the exposure indicators will flash to warn that the preview may not accurately reflect exposure. Exposure preview is not available when A or & is selected for shutter speed. 36 D Using Autofocus in Live View Photography and Movie Live View Use an AF-S lens. The desired results may not be achieved with other lenses or teleconverters. Note that in live view, autofocus is slower and the monitor may brighten or darken while the camera focuses. The focus point may sometimes be displayed in green when the camera is unable to focus.

The camera may be unable to focus in the following situations: • The subject contains lines parallel to the long edge of the frame • The subject lacks contrast • The subject in the focus point contains areas of sharply contrasting brightness, or includes spot lighting or a neon sign or other light source that changes in brightness • Flicker or banding appears under fluorescent, mercury-vapor, sodium-vapor, or similar lighting • A cross (star) filter or other special filter is used • The subject appears smaller than the focus point • The subject is dominated by regular geometric patterns (e.g., blinds or a row of windows in a skyscraper) • The subject is moving A The Standby Timer Regardless of the setting selected for Custom Setting c2 (Standby timer, 0 319), the standby timer will not expire during live view photography. 5 Take the picture. Press the shutter-release button the rest of the way down to shoot. The monitor will turn off. 37 6 Exit live view mode. Press the a button to exit live view mode. A Live View Zoom Preview Press the X button to magnify the view in the monitor up to a maximum of about 23x. A navigation window will appear in a gray frame at the bottom right corner of the display.

Use the multi selector to scroll to areas of the frame not visible in the monitor, or press W to zoom out. X button Navigation window 38 Focus To focus using autofocus, rotate the focus-mode selector to AF and follow the steps below to choose autofocus and AF-area modes. For information on focusing manually, see page 41. Focus-mode selector $\square\square$ Choosing a Focus Mode The following autofocus modes are available during live view photography and movie live view: Mode Description Single-servo AF: For stationary subjects. Focus locks when shutter/AF-S release button is pressed halfway.

Full-time servo AF: For moving subjects. Camera focuses AF-F continuously until shutter-release button is pressed. Focus locks when shutter-release button is pressed halfway. To choose an autofocus mode, press the AF-mode button and rotate the main command dial until the desired mode is displayed in the monitor. AF-mode button Main command dial Monitor 39 $\square\square$ Choosing an AF-Area Mode The following AF-area modes can be selected during live view photography and movie live view: Mode Description Face-priority AF: Use for portraits.

The camera automatically detects and focuses on portrait subjects; the selected subject is indicated by a double yellow border (if multiple faces, up to a maximum of 35, are detected, the camera will focus on the closest subject; to choose a different subject, use the multi selector). If the camera can no longer detect the subject (because, for example, the subject has turned to face away from the camera), the border will no longer be displayed.



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Wide-area AF: Use for hand-held shots of landscapes and other non-portrait subjects. Use the multi selector to move the focus point anywhere in the frame, or press the center of the multi selector to position the focus point in the center of the frame. Normal-area AF: Use for pin-point focus on a selected spot in the frame. Use the multi selector to move the focus point anywhere in the frame, or press the center of the multi selector to position the focus point in the center of the frame. A tripod is recommended. Subject-tracking AF: Use the multi selector to position the focus point over your subject and press the center of the multi selector to start tracking. The focus point will track the selected subject as it moves through the frame. To end tracking, press the center of the multi selector again.

Note that the camera may be unable to track subjects if they move quickly, leave the frame or are obscured by other objects, change visibly in size, color, or brightness, or are too small, too large, too bright, too dark, or similar in color or brightness to the background. ! 5 6 & 40 To choose an AF-area mode, press the AF-mode button and rotate the sub-command dial until the desired mode is displayed in the monitor. AF-mode button Sub-command dial Monitor Manual

Focus To focus in manual focus mode (0 100), rotate the lens focus ring until the subject is in focus. To magnify the view in the monitor for precise focus, press the X button (0 38). X button A Previewing Focus During Live View Photography To temporarily select maximum aperture for an improved focus preview during live view photography, press the Pv button. To return aperture to its original value, press the button again or focus using autofocus. If the shutter-release button is pressed all the way down to take a picture during focus preview, aperture will return to the original value before the photo is taken.

41 Using the b Button The options listed below can be accessed by pressing the b button during live view photography. Highlight items using the multi selector and press 2 to view options for the highlighted item. After choosing the desired setting, press J to return to the b-button menu.

b button Press the b button again to exit to the shooting display. Description Choose an image area for live view photography (0 74). Active D-Lighting Adjust Active D-Lighting (0 182). Electronic front- Enable or disable the electronic front-curtain shutter curtain shutter for mirror-up photography (0 323). Press 1 or 3 to adjust monitor brightness for live view photography (note that this affects live view only and has no effect on photographs or movies or Monitor on the brightness of the brightness monitor for menus or playback; to adjust the brightness of the monitor for menus and playback without affecting live view photography or movie live view, use the Monitor brightness option in the setup menu as described on page 367).

Image area Option 42 Option Photo live view display WB Split-screen display zoom Description During live view photography, the white balance (hue) of the monitor can be set to a value different from that used for photographs (0 148). This can be effective if the lighting under which shots are framed is different from that used when the photographs are taken, as is sometimes the case when a flash or preset manual white balance is used. Adjusting the photo live view display white balance to produce a similar effect to that used for the actual photographs makes it easier to picture the results. To use the same white balance for both the view in the monitor and the photograph, select None. View two separate areas of the frame side-by-side (0 44).

This option can be used, for example, to align buildings with the horizon. 43 Selecting Split-screen display zoom in the live view photography b button menu splits the display into two boxes showing separate areas of the frame side-by-side at a high zoom ratio. The positions of the magnified areas are shown in the navigation window. □□ Split-Screen Display Zoom Navigation window Use the X and W buttons to zoom in and out, or use the L (Z/Q) button to select a box and press 4 or 2 to scroll the selected area left or right. Pressing 1 or 3 scrolls both areas up or down simultaneously. To focus on the subject at the center of the selected area, press Area in focus the shutter-release button halfway. To exit the split-screen display, press the b button. 44 The Live View Display: Live View Photography Item q Time remaining Photo live view w display white balance indicator e Autofocus mode r AF-area mode t Focus point Description The amount of time remaining before live view ends automatically. Displayed if shooting will end in 30 s or less. Monitor hue (photo live view display white balance).

The current autofocus mode. The current AF-area mode. The current focus point. The display varies with the option selected for AF-area mode. 0 48 — 39 40

40 45 The Information Display: Live View Photography To hide or display indicators in the monitor during live view photography, press the R button. Information on Information off Framing guides Virtual horizon (0 379) Histogram (exposure preview only; 0 36) 46 D Shooting in Live View Mode To prevent light entering via the viewfinder from interfering with photographs or exposure, close the viewfinder eyepiece shutter. Although they will not appear in the final picture, jagged edges, color fringing, moiré, and bright spots may appear in the monitor, while bright bands may appear in some areas with flashing signs and other intermittent light sources or if the subject is briefly illuminated by a strobe or other bright, momentary light source. In addition, distortion may occur if the camera is panned horizontally or an object moves at high speed through the frame. Flicker and banding visible in the monitor under fluorescent, mercury vapor, or sodium lamps can be reduced using Flicker reduction (0 371), although they may still be visible in the final photograph at some shutter speeds. When shooting in live view mode, avoid pointing the camera at the sun or other strong light sources.

Failure to observe this precaution could result in damage to the camera's internal circuitry. Movie recording is not available during live view photography and pressing the movie-record button has no effect. Select movie live view (0 49) to shoot movies. 47 D The Count Down Display A count down will be displayed 30 s before live view ends automatically (the timer turns red if live view is about to end to protect the internal circuits or, if an option other than No limit is selected for Custom Setting c4—Monitor off delay > Live view; 0 320—5 s before the monitor is due to turn off automatically). Depending on shooting conditions, the timer may appear immediately when live view is selected.

A HDMI If the camera is attached to an HDMI video device during live view photography, the camera monitor will remain on and the video device will display the view through the lens.



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A See Also For information on choosing the role played by the center of the multi selector, and by the movie-record button and command dials, see Custom Settings f2 (Multi selector center button, 0 341) and f13 (Assign movie record button, 0 355). For information on preventing unintended operation of the a button, see Custom Setting f14 (Live view button options, 0 356). 48 Movie Live View Movies can be recorded in live view. 1 Rotate the live view selector to 1 (movie live view).

Live view selector 2 Press the a button. The mirror will be raised and the view through the lens will be displayed in the camera monitor as it would appear in the actual movie, modified for the effects of exposure. The subject will no longer be visible in the viewfinder. D The 0 Icon A 0 icon (0 57) indicates that movies can not be recorded. a button A Audio The camera can record both video and sound; do not cover the microphone on the front of the camera during movie recording. Note that the built-in microphone may record sounds made by the camera or lens during autofocus, vibration reduction, or changes to aperture. 49 3 Choose a focus mode (0 39). 4 Choose an AF-area mode (0 40). 5 Focus. Frame the opening shot and press the B button to focus.

Note that the number of subjects that can be detected in face-priority AF drops during movie recording. A Focusing in Movie Live View B button Focus can also be adjusted by pressing the shutter-release button halfway before beginning recording. 50 A Exposure Mode The following settings can be adjusted in movie live view: Aperture e, f g h — □ □ Shutter speed — — □ ISO Exposure sensitivity compensation (0 64) — □ — □ □ — Metering □ □ □ In exposure mode h, shutter speed can be set to values between 1/25 s and 1/8000 s (the slowest available shutter speed varies with the frame rate; 0 62). In other exposure modes, shutter speed is adjusted automatically. If the subject is over- or under-exposed in mode e or f, end live view and start movie live view again or select exposure g and adjust aperture. Spot metering is not available during movie live view. A White Balance White balance can be set at any time by pressing the U button and rotating the main command dial (0 149). 51 6 Start recording. Press the movie-record button to start recording. A recording indicator and the time available are displayed in the monitor.

Exposure can be locked by pressing the A AE-L/ Movie-record button AF-L button (0 128) or altered by up to ±3 EV using exposure Recording indicator compensation (0 130). In autofocus mode, the camera can be refocused by pressing the B button. Time remaining 7 End recording. Press the movie-record button again to end recording. Recording will end automatically when the maximum length is reached, or the memory card is full.

A Maximum Length The maximum length for individual movie files is 4 GB (for maximum recording times, see page 62); note that depending on memory card write speed, shooting may end before this length is reached (0 487). 52 8 Exit movie live view. Press the a button to exit movie live view. D The Count-Down Display A count down will be displayed 30 s before movie recording ends automatically (0 462). Depending on shooting conditions, the timer may appear immediately when movie recording begins.

Note that regardless of the amount of recording time available, live view will still end automatically when the timer expires. Wait for the internal circuits to cool before resuming movie recording. 53 If Index marking is selected as the “press” option for Custom Setting g1 (Assign Fn button; 0 361), g2 (Assign preview button; 0 362), or g3 (Assign AE-L/AF-L button; 0 363), you can press the selected button during Pv button recording to add indices that can be used to locate frames during editing and playback (0 66). Up to 20 indices can be added to each movie. Indices Index A See Also Frame size, frame rate, microphone sensitivity, card slot, and ISO sensitivity options are available in the Movie settings menu (0 62). Focus can be adjusted manually as described on page 41. The roles played by the center of the multi selector, the Fn, Pv, and A AE-L/AF-L buttons can be chosen using Custom Settings f2 (Multi selector center button; 0 341), g1 (Assign Fn button; 0 361), g2 (Assign preview button; 0 362), and g3 (Assign AE-L/AF-L button, 0 363; this option also allows exposure to be locked without keeping the A AE-L/AF-L button pressed), respectively. Custom Setting g4 (Assign shutter button; 0 364) controls whether the shutter-release button can be used to start movie live view or to start and end movie recording. For information on preventing unintended operation of the a button, see Custom Setting f14 (Live view button options; 0 356). 54 Using the b Button The options listed below can be accessed by pressing the b button in movie live view.

Highlight items using the multi selector and press 2 to view options for the highlighted item. After choosing the desired setting, press J to return to the b-button menu. Press the b button b button again to exit to the shooting display. Option Image area Frame size/frame rate Movie quality Description Choose image area for movie live view (0 59). Select a frame size and rate (0 62). Choose movie quality (0 62). Press 1 or 3 to adjust microphone sensitivity (0 62). Both the built-in and optional stereo microphones are affected. Control the frequency response of the built-in microphone or optional stereo microphones (0 63). Enable or disable wind noise reduction using the built-in microphone’s low-cut filter (0 63).

When two memory cards are inserted, you can choose the card to which movies are recorded (0 63). Microphone sensitivity Frequency response Wind noise reduction Destination 55 Description Press 1 or 3 to adjust monitor brightness for movie live view (note that this affects live view only Monitor and has no effect on brightness photographs or movies or on the brightness of the monitor for menus or playback; 0 42). Choose whether the brightest areas of the frame (highlights) are shown by slanting lines in Highlight display the display during movie live view. Press 1 or 3 to adjust headphone volume. Headphone volume Option Highlights A Headphones Third-party headphones can be used.

Note that high sound levels may result in high volume; particular care should be taken when headphones are used. 56 The Live View Display: Movie Live View Item q “No movie” icon w Headphone volume e Microphone sensitivity Description Indicates that movies can not be recorded. Volume of audio output to headphones. Displayed when third-party headphones are connected. Microphone sensitivity.

0 49 56 62 62 63 63 52 62 56 Sound level for audio recording. Displayed in red if level is too high; adjust microphone sensitivity accordingly. t Frequency response The current frequency response. Displayed when wind noise reduction is y Wind noise reduction on.



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