




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON D4S. You'll find the answers to all your questions on the NIKON D4S in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON D4S
User guide NIKON D4S
Operating instructions NIKON D4S
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Instruction manual NIKON D4S

Nikon

DIGITAL CAMERA
D4s
User's Manual

 Nikon Manual Viewer 2
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En



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Manual abstract:

This icon marks references to other pages in this manual. Menu items, options, and messages displayed in the camera monitor are shown in bold. Camera Settings The explanations in this manual assume that default settings are used. Nikon Manual Viewer 2 Install the Nikon Manual Viewer 2 app on your smartphone or tablet to view Nikon digital camera manuals, anytime, anywhere. 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 xii–xv). Package Contents Be sure all items listed here were included with your camera. •D4S digital camera (0 1) •BF-1B body cap (0 27, 411) •BS-2 accessory shoe cover (0 16, 195) •MH-26a battery charger with •EN-EL18a rechargeable Li-ion power cable and two contact battery with terminal cover (0 21, protectors (shape of power cable 24) depends on country of sale; 0 21, 459) •USB cable clip (0 273) •HDMI cable clip (0 287) •UF-2 connector cover for stereo mini plug cable (0 413) •UC-E15 USB cable (0 272, 280) •ViewNX 2 installer CD (0 269) •User’s Manual (this guide) •AN-DC11 strap (0 21) •Network Guide 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 For Your Safety

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...476 xi For Your Safety To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them.

The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol: A This icon marks warnings. To prevent possible injury, read all warnings before using this Nikon product. □□ WARNINGS A Keep the sun out of the frame Keep the sun well out of the frame when shooting backlit subjects. Sunlight focused into the camera when the sun is in or close to the frame could cause a fire. A Turn off immediately in the event of malfunction Should you notice smoke or an unusual smell coming from the equipment or AC adapter (available separately), unplug the AC adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing the battery, take the equipment to a Nikonauthorized service center for inspection. A Do not look at the sun through the viewfinder Viewing the sun or other strong light source through the viewfinder could cause permanent visual impairment. A Using the viewfinder diopter adjustment control When operating the viewfinder diopter adjustment control with your eye to the viewfinder, care should be taken not to put your finger in your eye accidentally. A Do not disassemble Touching the product's internal parts could result in injury.

In the event of malfunction, the product should be repaired only by a qualified technician. Should the product break open as the result of a fall or other accident, remove the battery and/or AC adapter and then take the product to a Nikon-authorized service center for inspection. xii A Do not use in the presence of flammable A Observe proper precautions when gas Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire. handling batteries Batteries may leak or explode if improperly handled. Observe the following precautions when handling batteries for use in this product: Use only batteries approved for use in this equipment. Use only CR1616 lithium batteries to replace the clock battery. Using another type of battery could cause an explosion. Dispose of used batteries as directed. Do not short or disassemble the battery. Be sure the product is off before replacing the battery.

If you are using an AC adapter, be sure it is unplugged. Do not attempt to insert the battery upside down or backwards. Do not expose the battery to flame or to excessive heat. Do not immerse in or expose to water. Replace the terminal cover when transporting the battery.

Do not transport or store the battery with metal objects such as necklaces or hairpins. Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains. When the battery is not in use, attach the terminal cover and store in a cool, dry place.

A Keep out of reach of children Failure to observe this precaution could result in injury.

In addition, note that small parts constitute a choking hazard. Should a child swallow any part of this equipment, consult a physician immediately. ••A Do not place the strap around the neck of an infant or child Placing the camera strap around the neck of an infant or child could result in strangulation. ••A Do not remain in contact with the camera, battery, or charger for extended periods while the devices are on or in use Parts of the device become hot. Leaving the device in direct contact with the skin for extended periods may result in lowtemperature burns. ••••A Do not leave the product where it will be exposed to extremely high temperatures, such as in an enclosed automobile or in direct sunlight Failure to observe this precaution could cause damage or fire. ••xiii • The battery may be hot immediately after use or when the product has been used on battery power for an extended period. Before removing the battery turn the camera off and allow the battery to cool. •Discontinue use immediately should you notice any changes in the battery, such as discoloration or deformation. A Observe proper precautions when handling the charger •Keep dry.

Failure to observe this A Use appropriate cables When connecting cables to the precaution could result in injury input and output jacks, use only or product malfunction due to fire the cables provided or sold by or electric shock. Nikon for the purpose to maintain •Dust on or near the metal parts of compliance with product the plug should be removed with regulations. a dry cloth. Continued use could result in fire. A CD-ROMs •Do not handle the power cable or CD-ROMs containing software or go near the charger during manuals should not be played thunderstorms. Failure to observe back on audio CD equipment. this precaution could result in Playing CD-ROMs on an audio CD electric shock. player could cause hearing loss or •Do not damage, modify, or damage the equipment. forcibly tug or bend the power A Do not aim a flash at the operator of a cable. Do not place it under motor vehicle heavy objects or expose it to

heat Failure to observe this precaution or flame.

Should the insulation be could result in accidents. damaged and the wires become exposed, take the power cable to a Nikon-authorized service representative for inspection. Failure to observe this precaution could result in fire or electric shock. • Do not handle the plug or charger with wet hands. Failure to observe this precaution could result in injury or product malfunction due to fire or electric shock.

• Do not use with travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire. xiv A Observe caution when using the flash A Do not carry tripods with a lens or • Using optional flash units in close camera attached contact with the skin or other You could trip or accidentally objects could cause burns.



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strike others, resulting in injury. • Using optional flash units close to A Follow the instructions of airline and the subject's eyes could cause hospital personnel temporary visual impairment.

The This camera transmits radio flash should be no less than one frequencies that could interfere meter (3 ft 4 in.) from the subject. with medical equipment or Particular care should be aircraft navigation. Disable the observed when photographing wireless network feature and infants. remove all wireless accessories A Avoid contact with liquid crystal from the camera before boarding Should the monitor break, care an aircraft, and turn the camera should be taken to avoid injury off during take off and landing. In due to broken glass and to medical facilities, follow staff prevent the liquid crystal from the instructions regarding the use of monitor touching the skin or wireless devices. entering the eyes or mouth. xv Notices • No part of the manuals included with • Nikon will not be held liable for any damages resulting from the use of this this product may be reproduced, product. transmitted, transcribed, stored in a retrieval system, or translated into any • While every effort has been made to ensure that the information in these language in any form, by any means, manuals is accurate and complete, we without Nikon's prior written would appreciate it were you to bring permission. any errors or omissions to the attention • Nikon reserves the right to change the of the Nikon representative in your specifications of the hardware and area (address provided separately).

software described in these manuals at any time and without prior notice. Notices for Customers in Canada CAN ICES-3 B / NMB-3 B Notices for Customers in Europe CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS. This symbol indicates that electrical and electronic equipment is to be collected separately. This symbol on the battery indicates that the battery is to be collected separately. The following apply only to The following apply only to users in European countries: users in European countries: • All batteries, whether marked with this • This product is designated for separate symbol or not, are designated for collection at an appropriate collection separate collection at an appropriate point. Do not dispose of as household collection point. Do not dispose of as waste. household waste. • Separate collection and recycling • For more information, contact the helps conserve natural resources and retailer or the local authorities in prevent negative consequences for charge of waste management.

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. xvi Notices for Customers in the U.S.A.

The Battery Charger IMPORTANT SAFETY INSTRUCTIONS—SAVE THESE INSTRUCTIONS DANGER—TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet if needed. This power unit is intended to be correctly oriented in a vertical or floor mount position. 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 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This CAUTIONS equipment generates, uses, and can radiate Modifications radio frequency energy and, if not installed The FCC requires the user be notified that any changes or modifications made to this and used in accordance with the device that are not expressly approved by instructions, may cause harmful Nikon 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 The accessory power cord must be used installation. If this equipment does cause For USA only: Over AC 125 V harmful interference to radio or television Use a power cord over AWG 18 in size reception, which can be determined by suited to the voltage in use with plugs turning the equipment off and on, the user rated for AC 250 V 15 A (NEMA 6P-15) is encouraged to try to correct the and a minimum of SVT type cord for interference by one or more of the insulation. following measures: Power Supply Cord • Reorient or relocate the receiving Use a UL Listed, 1.8 to 3 m (6 to 10 ft), antenna. SPT-2, AWG no. 18 power supply cord • Increase the separation between the rated for 125 V 7 A, with a non-polarized equipment and receiver.

• Connect the equipment into an outlet NEMA 1-15P plug rated for 125 V 15 A. on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/television technician for help. xvii Notice for Customers in the State of California WARNING: Handling the cord on this product Nikon Inc., 1300 Walt Whitman Road, may expose you to lead, a chemical known Melville, New York 11747-3064, U.S.A. to the State of California to cause birth Tel.: 631-547-4200 defects or other reproductive harm. Wash hands after handling.

Disposing of Data Storage Devices Please note that deleting images or formatting memory cards or other data storage devices does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility. Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for preset manual (0 172).

Care should be taken to avoid injury when physically destroying data storage devices. Before discarding the camera or transferring ownership to another person, you should also use the Network > Network settings option in the camera setup menu to delete any personal network information. For more information on deleting network profiles, see the supplied network guide. AVC Patent Portfolio License THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NON-COMMERCIAL USE OF A CONSUMER TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD ("AVC VIDEO") AND/OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO.



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xix 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.** Servicing the Camera and Accessories The camera is a precision device and requires regular servicing. Nikon recommends that the camera be inspected by the original retailer or a Nikon-authorized service representative once every one to two years, and that it be serviced once every three to five years (note that fees apply to these services). Frequent inspection and servicing are particularly recommended if the camera is used professionally.

Any accessories regularly used with the camera, such as lenses or optional flash units, should be included when the camera is inspected or serviced. 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. Life-Long Learning As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available online 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/ D A A xx X 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 X 1 D button 2 3 4 5 6 7 8 9 Bracketing.....

....142, 146, 150, 344 Release mode dial lock release.

....111 Eyelet for camera strap.

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21 M button Flash mode

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.204 Flash compensation

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.....206 Y button Metering....

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..124 Release mode dial..

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..... 109 Diopter adjustment control ..	
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.272, 280 14 Headphone connector.....

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..... 75, 261 16 HDMI connector ..

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..276 18 Lens release button ...

28 19 AF-mode button.....

..52, 54, 98, 101 20 Battery-chamber cover latch...

.... 24 21 Battery-chamber cover

. 24 22 Focus-mode selector

. 52, 97, 108 23 Meter coupling lever

.....453 24 Body cap.....

..... 27, 411 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. D 2 X 1 Pv button 6 Vertical shooting shutter-release Using the Pv button button lock...

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... 54, 66, 126, 342, 355 7 Fn button (vertical) 2 Sub-command dial..

..... 345 Using the Fn button (vertical)... 343 3 Fn button 8 CPU contacts Using the Fn button 9 Lens mounting mark..

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89, 208, 337, 353 10 Lens mount

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.....28, 109 4 Sub-command dial for 11 Tripod socket vertical shooting.

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..... 345 5 Shutter-release button for vertical shooting 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.



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194 Multiple exposure (series) indicator

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.... 142 WB bracketing indicator

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146 ADL bracketing indicator.....

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.... 142 WB bracketing .

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146 ADL bracketing.....

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150 PC connection indicator.....

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....90 7 Small image size indicator (NEF/RAW images) .

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...95 4 5 X 1 "Remaining" indicator ..

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... 176 5 "k" (appears when memory remains 12 Secondary slot function.....
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...96 for over 1000 exposures).....

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. 41 Image quality...
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90 Color temperature indicator163 Note: Display shown with all indicators lit for illustrative purposes.

8 LCD Illuminators Rotating the power switch toward D Power switch activates the standby timer, control panel backlights (LCD illuminators), and button backlights (0 330), making it easier to use the camera in the dark. After the power switch is released, the backlights 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. A 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. X 9 The Viewfinder Display 1 2 3 4 5 X 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 5 Exposure indicator

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.....131 Exposure compensation display ...

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.....138 Bracketing progress indicator: Exposure and flash bracketing

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.....142 Pitch indicator 2 .

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.....340 6 Exposure compensation indicator ...

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.....138 Flash compensation indicator..

..206 1 Framing grid (displayed when On is selected for Custom Setting d6) ...

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329 2 12-mm reference circle for centerweighted metering.....

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..123 3 AF area brackets

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. 38 4 Focus points.....

. 43, 103, 315, 316 Spot metering targets....

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.....123 AF-area mode indicator..

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..101 Roll indicator 1 ...

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..340 10 7 Bracketing indicator: Exposure and flash bracketing ...
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140 WB bracketing

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.. 146 ADL bracketing....
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..... 150 8 Focus indicator....
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.....43, 109 9 Metering .
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..... 123 10 Autoexposure (AE) lock.
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... 136 11 Exposure mode

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..... 125 12 Shutter speed lock icon.....

..... 134 13 Shutter speed

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..... 128, 130 Autofocus mode ...

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.. 135 15 Aperture (f-number) ...
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..... 411 20 "k" (appears when memory remains for over 1000 exposures) ...

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... 209 23 Flash sync indicator..

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.... 331 24 Aperture stop indicator..... 129, 405 25 Low battery warning .

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40 X 1 Functions as a pitch indicator when camera is rotated to take pictures in "tall" (portrait) orientation.



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2 Functions as a roll indicator when camera is rotated to take pictures in "tall" (portrait) orientation. 3 Displayed when an optional flash unit is attached (0 196). The flash-ready indicator lights when the flash is charged. Note: Display shown with all indicators lit for illustrative purposes. 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 fullycharged battery is inserted. D 11 The Information Display Shooting information, including shutter speed, aperture, frame count, number of exposures remaining, and AF-area mode, is displayed in the monitor when the R button is pressed. R button 12 3 4 5 6 7 8 9 10 11 X 21 20 19 18 17 16 1 2 3 4 15 14 13 12 Exposure mode.

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 ..125 Flexible program indicator ...

127 Shutter-speed lock icon

.....
 .134 Shutter speed

.....128, 130 Exposure compensation value ...
 ..138 Flash compensation value...

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206 Number of shots in exposure and flash bracketing sequence.....

.....142 Number of shots in WB bracketing sequence..

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 ..146 Number of exposures (multiple exposure)

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.....216 Focal length (non-CPU lenses)
 237 5 Multiple exposure indicator

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 215 6 Aperture (f-number)

... 129, 130 Aperture (number of stops)... 129, 405 Bracketing increment ..

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143, 147 Number of shots in ADL bracketing sequence

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... 150 Maximum aperture (non-CPU lenses)

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.. 237 7 Exposure indicator

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..... 131 Exposure compensation display..

... 138 Bracketing progress indicator: Exposure and flash bracketing ... 142 WB bracketing

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..... 146 ADL bracketing...
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.....151 “k” (appears when memory remains for over 1000 exposures) ...
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..... 45 Manual lens number .
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.....237 Sub-selector center assignment
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41, 464 10 18 Exposure and flash bracketing indicator.....
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..... 142 WB bracketing indicator .

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..... 146 ADL bracketing indicator.....

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150 19 Focus points indicator

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103 AF-area mode indicator 100, 101 20 Flash mode..

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... 203 21 Flash sync indicator..

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... 331 11 12 13 14 15 X Note: Display shown with all indicators lit for illustrative purposes. A Turning the Monitor Off To clear shooting information from the monitor, press the R button twice more or press the shutter-release button halfway.

The monitor will turn off automatically if no operations are performed for about 10 seconds. A See Also For information on choosing how long the monitor stays on, see Custom Setting c4 (Monitor off delay, 0 325). For information on changing the color of the lettering in the information display, see Custom Setting d9 (Information display, 0 330). 13 The Information Display (Continued) 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 42 41 40 39 38 47 46 45 44

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.... 343 Fn button assignment
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.... 337 D button assignment.....
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. 344 Long exposure noise reduction indicator....
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..... 308 Custom settings bank....

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.. 311 Autofocus mode indicator...
.....97, 98 Vignette control indicator

..... 306 Exposure delay mode .
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327 Image area indicator.....
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.....85 Metering

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123 Note: Display shown with all indicators lit for illustrative purposes. 14 □□ Changing Settings in the Information Display To change settings for the items listed below, press the R button in the information display. Highlight items using the multi selector and press J to view options for the highlighted item. R button X 1 2 3 4 5 Shooting menu bank..

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. 300 6 High ISO noise reduction.....
.. 308 7 Active D-Lighting...

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..... 188 8 Pv button assignment ...

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... 342 9 Sub-selector center assignment.....

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..... 342 10 Fn button (vert.

) assignment 343 Fn button assignment.....

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. 337 D button assignment.....

.... 344 Long exposure noise reduction

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311 A Tool Tips A tool tip giving the name of the selected item appears in the information display. Tool tips can be turned off using Custom Setting d8 (Screen tips; 0 329). 15 The BS-2 Accessory Shoe Cover The supplied BS-2 accessory shoe cover can be used to protect the accessory shoe or to prevent light reflected from the metal parts of the shoe from appearing in photographs. The BS-2 attaches to the camera accessory shoe as shown at right. To remove the accessory shoe cover, hold it down with your thumb and slide it off as shown at right while keeping a firm grip on the camera. X 16 s Tutorial 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 s Tabs Choose from the following menus: •D: Playback (0 289) •C: Shooting (0 299) •A: Custom Settings (0 309) •B: Setup (0 358) •N: Retouch (0 375) •O/m: MY MENU or RECENT SETTINGS (defaults to MY MENU; 0 396) Slider shows position in current menu. Current settings are shown by icons. Menu options Options in current menu.

d If d icon is displayed, help for current item can be viewed by pressing L (Z/Q) button (0 20). 17 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 Select highlighted item or display sub-menu Cancel and return to previous menu J button Select highlighted item s Move cursor down □□ 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. 18 3 Select a menu. Press 1 or 3 to select the desired menu. 4 Position the cursor in the selected menu.

Press 2 to position the cursor in the selected menu. s 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. 19 8 Select the highlighted item. Press J to select the highlighted item. To exit without making a selection, press the G button.

J button s 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.



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• To exit the menus and return to shooting mode, press the shutter-release button halfway (0 44). Help 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 20 First Steps Attach the Camera Strap Attach the strap securely to the camera eyelets.

Charge the Battery The D4S is powered by an EN-EL18a rechargeable Li-ion battery (supplied). To maximize shooting time, charge the battery in the supplied MH-26a battery charger before use. Batteries take about 2 hours and 35 minutes to fully recharge when no charge remains.

1 Plug the charger in. Insert the AC adapter plug into the battery charger and plug the power cable into an electrical outlet. 2 Remove the terminal cover.

Remove the terminal cover from the battery. Terminal cover A See Also For information on using the MH-26a to charge two batteries, see page 460.

21 3 Remove the contact protector. Remove the contact protector from the charger battery chamber. 4 Charge the battery. Contacts Chamber lamps Charge lamps (green) s Guide Insert the battery (terminals first), aligning the end of the battery with the guide and then sliding the battery in the direction indicated until it clicks into place. The chamber lamp and charge lamps will flash slowly while the battery charges: Charge state Less than 50% of maximum capacity 50–80% of maximum capacity More than 80% but less than 100% of maximum capacity 100% of maximum capacity Charge lamps Chamber 50% 80% 100%

lamp H (flashes H (flashes I (off) I (off) slowly) slowly) H (flashes H (flashes K (glows) I (off) slowly) slowly) H (flashes H (flashes K (glows) K (glows) slowly) slowly) K (glows) I (off) I (off) I (off) Charging is complete when the chamber lamp stops flashing and the charge lamps turn off.

About 2 hours and 35 minutes are required to fully charge an exhausted battery; note that the battery will not charge if its temperature is below 0 °C (32 °F) or above 60 °C (140 °F). 22 5 Remove the battery when charging is complete. Remove the battery and unplug the charger. s D Calibration See page 459 for more information on calibration. 23 Insert the Battery 1 Turn the camera off. D Inserting and Removing Batteries Always turn the camera off before inserting or removing batteries. 2 s Remove the battery-chamber cover. Lift the battery-chamber cover latch, turn it to the open (A) position (q) and remove the BL-6 battery-chamber cover (w). 3 Attach the cover to the battery. If the battery release is positioned so that the arrow (4) is visible, slide the battery release to cover the arrow.

cover the arrow.

Insert the two projections on the battery into the matching slots in the cover and slide the battery release to completely reveal the arrow. The BL-6 Battery-Chamber Cover The battery can be charged with the BL-6 attached. To prevent dust from accumulating inside the battery chamber when the battery is not inserted, slide the battery release in the direction indicated by the arrow (4), remove the BL-6 from the battery, and replace it on the camera. Other battery covers can not be used with this camera. D 24 4 Insert the battery. Insert the battery as shown at right. 5 Latch the cover. To prevent the battery from becoming dislodged during operation, rotate the latch to the closed position and fold it down as shown at right. Be sure the cover is securely latched. s

Removing the Battery Before removing the battery, turn the camera off, lift the battery-chamber cover latch, and turn it to the open (A) position.

Note that the battery may be hot after use; observe due caution when removing the battery. To prevent short-circuits, replace the terminal cover when the battery is not in use. A D EN-EL18a Rechargeable Li-ion Batteries The supplied EN-EL18a shares information with compatible devices, enabling the camera to show battery charge state in six levels (0 40). The Battery info option in the setup menu details battery charge, battery life, and the number of pictures taken since the battery was last charged (0 365). The battery can be recalibrated as necessary to ensure that battery level continues to be reported accurately (0 459).

25 D The Battery and Charger Read and follow the warnings and cautions on pages xii–xv and 426–429 of this manual. Do not use the battery at ambient temperatures below 0 °C (32 °F) or above 40 °C (104 °F); failure to observe this precaution could damage the battery or impair its performance. Capacity may be reduced and charging times increase at battery temperatures from 0 °C (32 °F) to 15 °C (59 °F) and from 45 °C (113 °F) to 60 °C (140 °F). s Do not short the charger terminals; failure to observe this precaution could result in overheating and damage to the charger. Charge indoors at ambient temperatures of 5 °C (41 °F) to 35 °C (95 °F).

Battery capacity may temporarily drop if the battery is charged at low temperatures or used at a temperature below the temperature at which it was charged. If the battery is charged at a temperature below 5 °C (41 °F), the battery life indicator in the Battery info (0 365) display may show a temporary decrease. Use the charger with compatible batteries only. Unplug when not in use. A marked drop in the time a fully charged battery retains its charge when used at room temperature indicates that it requires replacement. Purchase a new EN-EL18a battery. 26 Attach a Lens Care should be taken to prevent dust from entering the camera when the lens is removed. The lens generally used in this manual for illustrative purposes is an AF-S NIKKOR 50mm f/1.4G. Lens cap Lens mounting mark CPU contacts (0 403) s Focus-mode switch (0 28) Focus ring (0 108) 1 2 Turn the camera off.

Remove the rear lens cap and the camera body cap. 27 3 Attach the lens. s A Keeping the mounting mark on the lens aligned with the mounting mark on the camera body, position the lens in the camera's bayonet mount (q). Being careful not to press the lens-release button, rotate the lens counter-clockwise until it clicks into place (w). 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. A Lens Focus Mode If the lens is equipped with a focus mode switch, select autofocus mode (A, M/A, or A/M). D A CPU Lenses with Aperture Rings In the case of CPU lenses equipped with an aperture ring (0 403), lock aperture at the minimum setting (highest f-number). Image Area The DX format image area is automatically selected when a DX lens is attached (0 86).

Image area 28 Basic Setup The language option in the setup menu is automatically highlighted the first time menus are displayed.



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Choose a language and set the camera clock. 1 Turn the camera on. Power switch 2 Select Language in the setup menu. Press the G button to display the camera menus, then select Language in the setup menu.

For information on using menus, see "Using Camera Menus" (0 18). G button s 3 Select a language. Press 1 or 3 to highlight the desired language and press J. J button 29 4 Select Time zone and date. Select Time zone and date and press 2.

5 Set time zone. Select Time zone and press 2. Press 4 or 2 to highlight the local time zone (the UTC field shows the difference between the selected time zone and Coordinated Universal Time, or UTC, in hours) and press J. s 6 Turn daylight saving time on or off. Select Daylight saving time and press 2. Daylight saving time is off by default; if daylight saving time is in effect in the local time zone, press 1 to highlight On and press J. 7 Set the date and time. Select Date and time and press 2. Press 4 or 2 to select an item, 1 or 3 to change. Press J when the clock is set to the current date and time (note that the camera uses a 24-hour clock).

30 8 Set date format. Select Date format and press 2. Press 1 or 3 to choose the order in which the year, month, and day will be displayed and press J. 9 Exit to shooting mode. Press the shutter-release button halfway to exit to shooting mode. s The Clock Battery The camera clock is powered by a separate, non-rechargeable CR1616 lithium battery with a life of about two years. When this battery is low, a B icon will be displayed in the top control panel while the standby timer is on. For information on replacing the clock battery, see page 424. The Camera Clock The camera clock is less accurate than most watches and household clocks. Check the clock regularly against more accurate time pieces and reset as necessary.

A A A GPS Units (0 238) If a GPS unit (0 412) is connected, the camera clock will be set to the time and date provided by the GPS unit (0 240). 31 Insert a Memory Card Pictures are stored on memory cards (available separately; 0 462). The camera is equipped with two card slots, one for XQD and the other for Type I CompactFlash cards. Type II cards and microdrives can not be used. 1 Turn the camera off.

Power switch s D Inserting and Removing Memory Cards Always turn the camera off before inserting or removing memory cards. 2 Open the card slot cover. Open the door protecting the card-slot cover release button (q) and press the release button (w) to open the card slot (e). 32 3 Insert the memory card. XQD memory cards: Holding the card with the rear label toward the monitor, slide it into the XQD card slot until it clicks into place.

The green memory card access lamp will light briefly. Memory card access lamp CompactFlash memory cards: Insert the card Eject button into the CompactFlash card slot with the rear label toward the monitor (q). When the memory card is fully inserted, the eject button will pop up (w) and the green memory card access lamp will light briefly. Inserting Memory Cards After confirming that you are inserting the card into the correct slot, insert the memory card terminals first. Inserting the card into the wrong slot or inserting it upside down or backwards could damage the camera or the card. Check to be sure that the card is in the correct orientation. XQD card Direction of insertion for left (XQD) card slot Rear label CompactFlash card Direction of insertion for right (CompactFlash) card slot s D Rear label 4GB 33 4 Close the card slot cover. If this is the first time the memory card will be used after being used or formatted in another device, format the card as described on page 35. A s Memory Card Icons The memory cards currently inserted in the camera are indicated as shown (the example at right shows the icons displayed when both an XQD and a CompactFlash card are inserted). If the memory card is full or an error has occurred, the icon for the affected card will flash (0 446).

Top control panel A Using Two Memory Cards When two memory cards are inserted, you can choose either of the two to serve as the primary card (0 41) and select the role played by the remaining card (0 96). Removing Memory Cards After confirming that the memory card access lamp is off, turn the camera off and open the memory card slot cover. A XQD memory cards: Press the card in to eject it (q). The memory card can then be removed by hand. 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. 34 Format the Memory Card Memory cards must be formatted before first use or after being used or formatted in other devices. D Formatting Memory Cards Formatting memory cards permanently deletes any data they may contain.

Be sure to copy any photographs and other data you wish to keep to a computer before proceeding (0 272). 1 2 Turn the camera on. Press the I (Q) and O (Q) buttons. O (Q) button I (Q) button s Hold the I (Q) and O (Q) buttons down simultaneously until a flashing C appears in the shutter-speed displays in the top control panel and viewfinder. If two memory cards are inserted, the card to be formatted is shown by a flashing icon.

By default, the primary card slot (0 96) will be selected; you can choose the secondary slot by rotating the main command dial. To exit without formatting the memory card, wait until C stops flashing (about six seconds) or press any button other than the I (Q) and O (Q) buttons. 35 3 Press the I (Q) and O (Q) buttons again. Press the I (Q) and O (Q) buttons together a second time while C is flashing to format the memory card. Do not remove the memory card or remove or disconnect the power source during formatting.

When formatting is complete, the top control panel will show the number of photographs that can be recorded at current settings and the frame-count displays will show B. s 36 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. D s A No Memory Card If no memory card is inserted, the top 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 top control panel.



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See Also See page 359 for information on formatting memory cards using the Format memory card option in the setup menu. A 37 Adjust Viewfinder Focus The camera is equipped with diopter adjustment to accommodate individual differences in vision. Check that the display in the viewfinder is in focus before shooting. 1 2 s Turn the camera on. Remove the lens cap and turn the camera on. Lift the diopter adjustment control (q).

3 Focus the viewfinder. Rotate the diopter adjustment control (w) 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 AF area brackets to put your fingers or fingernails in your eye. Focus point 38 4 Replace the diopter adjustment control. Push the diopter adjustment control back in (e).

s Adjusting Viewfinder Focus If you are unable to focus the viewfinder as described above, select single-servo AF (AF-S; 0 97), single-point AF (0 100), and the center focus point (0 103), and then frame a high-contrast subject in the center focus point and press the shutter-release button halfway to focus the camera. With the camera in focus, use the diopter adjustment control to bring the subject into clear focus in the viewfinder. If necessary, viewfinder focus can be further adjusted using optional corrective lenses (0 410). A A Diopter-Adjustment Viewfinder Lenses Corrective lenses (available separately; 0 410) can be used to further adjust viewfinder diopter. Before attaching a diopter-adjustment viewfinder lens, remove the DK-17 viewfinder eyepiece by closing the viewfinder shutter to release the eyepiece lock (q) and then unscrewing the eyepiece as shown at right (w).

39 Basic Photography and Playback Turn the Camera On Before taking photographs, turn the camera on and check the battery level and number of exposures remaining as described below. 1 s Turn the camera on. Turn the camera on. The control panels will turn on and the display in the viewfinder will light. Power switch 2 Check the battery level. Check the battery level in the top control panel or viewfinder. Icon Control panel Viewfinder Description L — Battery fully charged. K — J — Battery partially discharged. I — Low battery. Charge battery or ready H d spare battery.

H d Shutter release disabled. Charge or (flashes) (flashes) exchange battery. 40 3 Check the number of exposures remaining. The top control panel shows 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 2900 and 2999 are shown as 2.9 k). If two memory cards are inserted, the displays show the space available on the card in the primary slot. When this number reaches zero, A will flash in the exposure-count displays while the shutter-speed displays will show a flashing n or j and the icon for the affected card will flash. Insert another memory card or delete some photos.

s Choosing the Primary Card Slot The Primary slot selection option is used to choose which of the two card slots serves as the primary slot. Primary slot selection can be accessed from the shooting menu (0 96) or in viewfinder photography by keeping the J button pressed and pressing 1. Highlight J button the desired slot and press J to select. A 41 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. Keep your elbows propped lightly against your torso for support and place one foot half a pace ahead of the other to keep your upper body stable.

When framing photographs in portrait (tall) orientation, hold the camera as shown in the bottom of the three illustrations at right. s D Framing Photos in Portrait (Tall) Orientation The camera is equipped with controls for use in portrait (tall) orientation, including a vertical shutter-release, Fn, and B buttons, main and subcommand dials, and multi selector (0 104, 318, 343, 348). Rotate the Vertical shooting shuttervertical shooting shutter-release release button lock button lock to L to avoid accidentally operating these controls when the camera is in landscape (wide) orientation. 42 Focus and Shoot 1 Press the shutterrelease button halfway (0 44). At default settings, the camera will focus on the subject in the center focus point.

Frame a photo in the viewfinder with the main subject positioned in the center focus point and press the shutter-release button halfway. Focus point Focus indicator Buffer capacity s 2 Check indicators in the viewfinder. When the focus operation is complete, the in-focus indicator (I) will appear in the viewfinder. Viewfinder display I 2 4 2 4 (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. While the shutter-release button is pressed halfway, focus will lock and the number of exposures that can be stored in the memory buffer (“i”; 0 113) will be shown in the viewfinder display. For information on what to do if the camera is unable to focus using autofocus, see “Getting Good Results with Autofocus” (0 107). 43 3 Shoot.

Smoothly press the shutterrelease-button the rest of the way down to release the shutter and record the photograph. While the photograph is being Memory card access recorded to the memory card, lamp the memory card access lamp will light. Do not eject the memory card or remove or disconnect the power source until the lamp has gone out and recording is complete. s A The Shutter-Release Button The camera has a two-stage shutter-release button. The camera focuses when the shutter-release button is pressed halfway. To take the photograph, press the shutter-release button the rest of the way down. Focus Take photograph The Standby Timer The shutter speed and aperture displays in the top control panel and viewfinder 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 in the viewfinder. A Exposure meters on Exposure meters off Exposure meters on The length of time before the standby timer expires automatically can be adjusted using Custom Setting c2 (Standby timer, 0 324). 44 A The Multi Selector The multi selector can be used to select the focus point while the exposure meters are on (0 103).

Multi selector A Camera Off Display If the camera is turned off with a battery and memory card inserted, the memory card icon, frame count, and number of exposures remaining will be displayed (some memory cards may in rare cases only display this information when the camera is on). Top control panel s 45 Viewing Photographs 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 s View additional pictures. Additional pictures can be displayed by pressing 4 or 2.



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