

Manual abstract:

@@@If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna Increase the separation between the equipment and receiver Connect the equipment into an outlet on a circuit different from that to which the receiver is connected Consult the dealer or an experienced radio/TV technician for help Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules. Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment. EN-1 TRADEMARK INFORMATION Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation. Pentium® is a registered trademark of Intel Corporation. Macintosh is a trademark of Apple Computer, Inc. SDTM is a trademark. Other names and products may be trademarks or registered trademarks of their respective owners.

READ THIS FIRST Notice: 1. Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product. 2.

The product and accessories that come with your camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences.

Products very often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.

3. The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your camera. 4. The manufacturer assumes no liability for any errors or discrepancies in this user manual. EN-2 Safety Instructions Read and understand all Warnings and Cautions before using this product. WARNING If foreign objects or water have entered the camera, turn the power OFF and remove the battery and the AC power adapter. Continued use in this state might cause fire or electric shock. Consult the store of purchase. If the camera has fallen or its case has been damaged, turn the power OFF and remove the battery and the AC power adapter. Continued use in this state might cause fire or electric shock.

Consult the store of purchase. Do not disassemble, change or repair the camera. This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase. Use the specified AC power adapter only with the indicated power supply voltage. Use with any other power supply voltage might cause fire or electric shock. Do not use the camera in areas near water. This might cause fire or electric shock. Take special care during rain, snow, on the beach, or near the shore. Do not place the camera on inclined or unstable surfaces.

This might cause the camera to fall or tilt over, causing injury. Keep the battery out of the reach of children. Swallowing battery might cause poisoning. If the battery is accidentally swallowed, immediately consult a physician. Do not use the camera while you are walking, driving or riding a vehicle.

This might cause you to fall over or result in traffic accident. EN-3 CAUTION Insert the battery paying careful attention to the polarity (+ or -) of the terminals. Inserting the battery with its polarities inverted might cause fire and injury, or damage to the surrounding areas due to the battery rupturing or leaking. Do not fire the flash close to anyone's eyes. This might cause damage to the person's eyesight.

Do not subject the LCD monitor to impact. This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water. If the internal fluid has entered your eyes, consult a physician to receive treatment. A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera. This might cause damage to the camera. Do not use the camera in humid, steamy, smoky, or dusty places. This might cause fire or electric shock. Do not remove the battery immediately after long period of continuous use.

The battery becomes hot during use. Touching a hot battery might cause burns. Do not wrap the camera or place it in cloth or blankets. This might cause heat to build up and deform the case, resulting in fire. Use the camera in a wellventilated place. Do not leave the camera in places where the temperature may rise significantly, such as inside a car. This might adversely affect the case or the parts inside, resulting in fire. Before you move the camera, disconnect cords and cables. Failure to do this might damage cords and cables, resulting in fire and electric shock. EN-4 Notes on Battery Usage When you use the battery, carefully read and strictly observe the Safety Instructions and the notes described below: Use only the specified battery (3.

7V). Avoid using the battery in extremely cold environments as low temperatures can shorten the battery life and reduce camera performance. When you are using the new rechargeable battery or rechargeable battery that has not been used for an extended period of time (the battery that passed the expiry date is an exception) might affect the number of images that can be captured. Therefore, to maximize its performance and lifetime, we recommend that you fully charge the battery and discharge it for at least one complete cycle before use. The battery may feel warm after long period of continuous use of the camera or the flash.

This is normal and not a malfunction. The camera may feel warm after long period of continuous use. This is normal and not a malfunction. If the battery is not to be used for a long period of time, remove it from the camera to prevent leakage or corrosion. If the battery is not to be used for a long period of time, store it after no battery power left.

If the battery is stored for a long time in a fully charged state, its performance may be impaired. Always keep the battery terminals clean. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions. We recommend the battery should be charged for 8 hours at its first use. EN-5 CONTENT 8 INTRODUCTION 8 Overview 10 Package Contents 11 GETTING TO KNOW THE CAMERA 11 12 15 16 20 20 21 22 22 23 24 25 26 27 Front View Rear View Status LED Indicator LCD Monitor Icons Attaching the Camera Strap Inserting and Removing the Battery Charging the Battery Inserting and Removing an SD Memory Card (Optional Accessory) Using an AC Power Adapter Turning the Power On/Off Setting the Date and Time Choosing the Display Language Formatting an SD Memory Card or Internal Memory Setting Image Resolution and Quality 32 33 34 37 38 39 Using the Optical Zoom Using the Digital Zoom Setting the Flash Setting the Self-timer Exposure Compensation/Backlight Correction [SCN] Scene Mode 20 GETTING STARTED 41 [P] Program (Automatic Exposure) Photography Mode 42 [Tv] Shutter Speed Priority Photography Mode 43 [Av] Aperture Priority Mode 44 [M] Manual Mode 45 [] User Setting Mode 45 [46 [46 [] Video Mode] Panorama Mode] Anti-Shake Mode 47 Recording a Subject onto an Existing Background Image (Pre-Shot) 49 Combining Shots of Two People into a Single Image (Coupling Shot) 50 [50 51 52 53 54 55] PLAYBACK MODE Playing Back Still Images Playing Back Video Clips Playing Back Still Images/Video Clips on a TV Attaching Voice Memos Thumbnail Display Zoom Playback 30 PHOTOGRAPHY MODE 30 [] Auto Mode 31 Recording Voice Memos EN-6 56 57 59 61 Slideshow Display Protecting Images DPOF Settings Copying Files from Internal Memory to a Memory Card 62 Changing the Camera Start Logo Image 63 [66 69 71 73 74 75] Deleting Images 66 MENU OPTIONS Photography Menu (Capture tab) Photography Menu (Function tab) Photography Menu (AE/AWB tab) Playback Menu Setup1 Menu Setup2 Menu 76 TRANSFERRING RECORDED IMAGES AND VIDEOS TO YOUR COMPUTER 77 Connecting the Camera to Your Computer 78 Downloading Images and Video Files 79 CONNECTING TO A PICTBRIDGE COMPLIANT PRINTER 81 EDITING SOFTWARE INSTALLATION 81 Installing Photo Explorer 82



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Capturing high-quality digital images is fast and easy with this state-of-the-art smart camera. Equipped with an 10.1 Mega pixel CCD, this camera is capable of capturing images with a resolution of up to 3648 x 2736 pixels. Other cool features provided by the camera include the following: LCD monitor 2.

8" full color TFT LCD monitor (230K pixels) makes it easy to frame your subject when capturing images. It also displays the images you have captured. Recording media 32 MB internal memory (26 MB available for image storage). External memory supports SD memory cards up to 2 GB. Optical zoom The 6x optical lens allows you to capture telephoto and wide-angle images. Digital zoom 10.4x digital zoom in conjunction with the 6x optical zoom permit zoom photography of up to 62.4x. Captured images may be reviewed and a selected portion of an image may be enlarged up to 8x. Flexible flash settings You may adjust the flash setting according to your lighting environment.

Focus mode Images can be captured with the distance to the subject set by normal auto focus, macro auto focus, infinity or manual focus. Self-timer mode The self-timer may set to 10 seconds, 2 seconds or 10+2 seconds. Video mode In addition to still-images, you may capture video clips with audio (voice). Voice memo You may annotate your images with a 30 second voice memo. Images may be voice-annotated at the time of capture, or during playback.

EN-8 Thumbnail display TV and PC connection DPOF support Photography mode - Scene mode - Display your images in sets of nine on the LCD monitor for quick selection of an particular image. You may view your images on a television monitor or a computer using the USB or A/V cables. You may print your images on a DPOF compatible printer by simply inserting the memory card with embedded printing information. The camera has 10 different photography modes such as Auto, Scene, Program, Shutter Speed Priority, Aperture Priority, Manual, User Setting, Video, Panorama and Anti-Shake. By setting the mode dial, the camera controls the exposure focus and white balance depending on the selected mode.

You may select a previously set scene mode for the following situations: Sport, Portrait, Night Portrait, Night, Candlelight, Fireworks, Landscape, Natural Green, Sunrise, Sunset, Text, Black & White, Sepia, Splash Water, Flowing Water and Pets. EN-9 Package Contents Carefully unpack your kit box and ensure that you have the following items: Digital Camera A/V cable USB cable User's manual Software CD-ROM Camera strap Camera pouch Optional Accessories: SD memory card AC power adapter Rechargeable lithium-ion battery Battery charger Accessories may vary by retailer. EN-10 GETTING TO

KNOW THE CAMERA Front View # Name 1. Mode dial 2. Shutter button 3. Power indicator 4. POWER (Power) button Mode switch Photography mode 5. Playback mode 6. Flash 7. Microphone Self-timer LED 8.

(AF auxiliary LED) 9. USB or A/V OUT terminal 10. DC IN 5V terminal 11. Lens Description Sets the camera mode. Focuses and locks both focus & exposur. connected, but a battery Accessing files in (SD memory card is inserted.) is not in a camera. progress. Battery charging error. When the image is not in focus.

Flash charging in progress. SD memory card is not Hardware malfunction. inserted. During power off Green EN-15 LCD Monitor Icons For Photography modes: [1. 2.

3. Mode icon Date and time Flash mode [Blank] Automatic [] Red-eye Reduction [] Forced Flash [] Flash Off Battery condition [] Full battery power [] Medium battery power [] Low battery power [] No battery power Storage media [] Internal memory (no card) [] SD memory card [], [SCN] [] Continuous [AEB] Auto Exposure Bracketing [] Burst [] Pre-Shot [] Coupling Shot [* In [SCN] mode, Night Portrait and Fireworks can use single capture only. 1 2 3 4 17 16 15 01/08/2008 12:38 10S AEB 14 4. 5. 6.

7. 8. 9. Voice memo Self-timer icon [10s] 10 sec. [2s] 2 sec. [10+2s] 10+2 sec. Main focus area Capture mode icon [Blank] Single 10. Image quality [] Fine [] Standard [] Economy 11. Image size resolution [10M] 3648 x 2736 [6M] 2816 x 2112 [3M] 2048 x 1536 [0.3M] 640 x 480 12.

Available number of shots 13. Zoom status 14. Backlight correction 15. Slow shutter warning * Poor lighting conditions. 3M 00004 13 12 5 6 7 8 9 10 11 Images will be vulnerable to vibration. 16. Focus setting [Blank] Normal Auto Focus [] Macro Auto Focus [s] Super Macro Auto Focus [] Infinity [MF] Manual Focus * Adjust focus distance with the / buttons. Anti Shake 17. Pressing the button changes the LCD display in the sequence of: display with icons, display without icons. To prevent a blur image we recommend that you use a tripod for capturing images when slow shutter warning icon appears.

EN-16 For Photography modes: [P], [Tv], [Av], [M], [], [] 1. 2. 3. 4. 5.
6. 7. 8. 9. 10.

11. 12. 13. 14. Mode icon Date and time Flash mode Battery condition Storage media Voice memo Histogram Main focus area Capture mode icon Image quality Image resolution Available number of shots Zoom status Shutter speed / Aperture * In [P], [] and [] modes, Shutter speed / Aperture icon appears at half shutter (S1) condition. 15. [] Exposure compensation [] Backlight correction 16. ISO 17. Metering [] Multi [] Spot Pressing the 1 2 01/08/2008 12:38 3 4 20 19 18 17 16 15 Tv 10S 1 ISO 100 AEB 3M 00004 13 12 0.0 F2.

8 1/200 5 6 7 8 9 10 11 14 [] Average 18. White balance [Blank] Auto [] Incandescent] Fluorescent 1 [[2] Fluorescent 2 [] Day Light [] Cloudy [] Manual 19. Focus setting 20. Self-timer icon 1 button changes the LCD display in the sequence of: display with icons, display with icons and histogram, display without icons. EN-17 For Photography mode: [Mode icon Image to be captured indicator Flash mode Battery condition Storage media White balance Metering Main focus area Image quality Image resolution Available number of shots Zoom status [] Exposure compensation [] Backlight correction 14.

Slow shutter warning 15. Focus setting Pressing the without icons.] 1 2 1. 2. 3.
4. 5. 6. 7. 8.

9. 10. 11. 12. 13.

3 4 1 15 14 13 1 5 6 7 8 9 10 0.0 3M 00004 12 11 button changes the LCD display in the sequence of: display with icons, display EN-18 For Video mode [1. 2. 3. 4. 5. 6. 7. 8. 9.

10. 11.] 1 2 Mode icon Date and time Battery condition Storage media Self-timer icon Video quality Video resolution Available recording time/Elapsed time Zoom status White balance icon Focus setting 3 11 10 01/08/2008 12:38 10S 4 5 1 10M 0:18 9 8 6 7 Playback mode [1. 2. 3. 4. 5. 6. 7. Mode icon File number Folder number Protect icon Voice memo DPOF icon Storage media] -Still image playback 6 7 6 1 1 100-0023 Playback mode [1. 2. 3. 4. 5. 6.

7.]-Video playback 10 Video status bar Elapsed time Mode icon Protect icon File number Folder number Sound off icon (When the during video playback.



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) 8. Play mode 9. Storage media 10.

Total recorded time Total 0:10 Play 0:06 2 9 3 button is pressed 8 4 7 6 5 EN-19 GETTING STARTED Attaching the Camera Strap Attach the camera strap as shown in the illustration. Inserting and Removing the Battery We highly recommend using specified rechargeable lithium-ion battery (3.7V) to realize the full capability of your camera. Charge the battery fully before using the camera. Make sure that the power of the camera is off before inserting or removing the battery. Inserting the Battery 1. Open the battery / SD memory card cover in the direction of the [OPEN] arrow. 2. Insert the battery in the correct orientation shown. Tilt the battery lock lever, and then insert the battery in the direction of the arrow.

3. Close the battery / SD memory card cover. Removing the Battery Open the battery / SD memory card cover and then release the battery lock lever. When the battery has come out a little, slowly pull it out the rest of the way. EN-20 Charging the Battery Using the optional AC power adapter may charge the battery or operate the camera as power supply. Make sure that the power of the camera is off and then insert the battery before starting. 1. Insert one end of the AC power adapter into the DC IN 5V terminal of the camera. 2. Insert the other end of the AC power adapter into a wall outlet.

The status LED flashes green when charging is started and lights green when charging is completed. The LED lights red when a charging error has occurred. It is recommended to fully discharge the battery before recharging. Charging time varies according to the ambient temperature and the status of battery. This camera must be used with specified AC power adapter.

Damage caused by the use of an incorrect adapter is not covered under the warranty. Always make sure that the camera is off before removing the battery. The battery may feel warm after it has been charged or immediately after being used. This is normal and not a malfunction. When using the camera in cold conditions, keep the camera and battery warm by storing it in a warm place such as an interior pocket between shots.

If you open the battery cover without removing the battery, the battery power will not be disconnected. If you remove the battery, you have to insert the battery within 2 hours in order to make sure that the date and time will not be reset. EN-21 Using an AC Power Adapter Using an AC power adapter prevents the camera from automatically powered off while transferring files to your computer. Perform the steps in the preceding section "Charging the Battery". Make sure to use only the AC power adapter specified for the digital camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.

Inserting and Removing an SD Memory Card (Optional Accessory) The digital camera comes with approx. 32 MB of internal memory (26 MB available for image storage), allowing you to store captured still images or video clips in the digital camera. However, you can also expand the memory capacity by using an optional SD memory card so that you can store more files. Inserting an SD memory card 1.

Open the battery / SD memory card cover. 2. Insert the SD memory card in the correct orientation shown. Hold the SD memory card with its front side (printed arrow) facing the rear side of the camera, and then insert the card as far as it can go. 3. Close the battery / SD memory card cover. Removing an SD memory card Open the battery / SD memory card cover, press lightly on the edge of the SD memory card and it will eject. To prevent valuable data from being accidentally erased from an SD memory card you can slide the write-protected tab (on the side of the SD memory card) to "LOCK". However, to save, edit or erase data on an SD memory card, you must unlock the card. Be sure to format an SD memory card with this digital camera before using it.

Refer to section in this manual titled "Formatting an SD Memory Card or Internal Memory" for further details. To prevent the damage of an SD memory card, please turn off the power when inserting or removing the SD memory card. If inserting or removing the SD memory card with power on, the camera turns off automatically. EN-22 Turning the Power On/Off 1. Load the battery or connect the AC power adapter to your camera.

2. Press the POWER button to turn on your camera. The status LED lights green and the camera is initiated. The power indicator lights on when the camera power is turned on. When the power is turned on, the camera will start in the mode that is currently selected.

3. To turn off your camera, press the POWER button again. The power is turned off automatically when the camera has not been operated for a defined period of time. To resume the operation condition, turn the power on again. Refer to section in this manual titled "Auto OFF" in the Setup1 Menu for further details. When the power is turned on, it may take several seconds to charge the flash. While the flash is being charged, the status LED lights orange. The camera is not ready until the flash has charged. The camera is ready when the status LED is off. EN-23 Setting the Date and Time The date/time needs to be set if/when: Camera is turned on for the first time.

Camera is turned on after leaving the camera without the battery for an extended period of time. When the date and time information is not displayed on the LCD monitor, follow these steps to set the correct date and time. 1. Slide the mode switch to [], and press the MENU button. 2. Select [Setup2] with the button. 3. Select [Date/Time] with the / buttons, and press the SET button. The Date/Time setting screen will be displayed:[Setup] [Format], [On/Off]. 4. Select [Setup] with / buttons, and press the SET button. Select the item's field with the / buttons and adjust the value for the date and time with the / buttons. The date and time is displayed as the format you set. The time is displayed in 24-hour format. After confirming all settings are correct, press the SET button. The setting will be stored and the screen will return to the Setup2 menu. EN-24 5. Select [Format] with / buttons, and press the SET button. Select the date display format you want with / buttons. Setup 2 2006 01 05 01 47 6.

Select [On/Off] with / buttons, and press the SET button. If your choice is Off, there is no date/time information displayed on the LCD monitor. MENU:Exit SET:Enter Format MENU:Exit SET: Adj. 7. To exit from the Setup2 menu, press the MENU button. Choosing the Display Language Choose an On-Screen Display (OSD) language for information to be displayed on the LCD monitor. 1. Slide the mode switch to [], and press the MENU button. 2. Select [Setup2] with the button.

3. Select [Language] with the / buttons, and press the SET button. The language setting screen will be displayed. 4. Select the displayed language with the / buttons and press the SET button.



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The setting will be stored. 5. To exit from the Setup2 menu, press the MENU button. EN-25 Formatting an SD Memory Card or Internal Memory This function formats the internal memory (or memory card) and deletes all stored still images / video clips and data. 1. Slide the mode switch to [], and press the MENU button. 2. Select [Setup1] with the button. 3. Select [Format] with the / buttons, and press the SET button. 4. Select [Execute] with the / buttons, and press the SET button. To cancel formatting, select [Cancel]. 5. To exit from the Setup1 menu, press the MENU button.

2 To format the internal memory, do not insert an SD memory card into the camera. Otherwise, you will format the SD memory card. Formatting the SD memory card also erases the protected images. All data other than images are also erased. Before formatting the card, make sure that all the images are unnecessary. Formatting is an irreversible action and data cannot be recovered at a later time. An SD memory card having any problem cannot be properly formatted. EN-26 Setting Image Resolution and Quality Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored. As you get to know the camera, it is recommended that you try each quality and resolution setting to get an appreciation for the effects that these settings will have on your images.

Higher resolution and higher quality images offer the best photographic results, but produce large file sizes. Therefore, few images will take up a lot of memory space. High resolution and quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/quality images take up less memory space and may be quite suitable for sharing images via e-mail, in a report, or on a web page. To change image resolution or image quality, perform these steps below: 1. Slide the mode switch to [] and set the mode dial to one of the photography modes. 2. Press the MENU button. [Capture] of the photography menu is displayed. 3.

Select [Size] with the / buttons, and press the SET button. 4. Select the desired setting with the / buttons, and press the SET button. 5. Select [Quality] with the / buttons, and press the SET button.

6. Select the desired setting with the / buttons, and press the SET button. 7. To exit from the photography menu, press the MENU button. EN-27 Possible number of shots (still image) The following table shows the approximate shots that you can capture at each setting based on the capacity of the internal memory and an optional SD memory card.

Size	Quality	Fine	Internal Memory	32MB	64MB	128MB	256MB	4	7	11	6	11	17	9	17	26	65	113	154	4	8	12	6	12	19	10	19	30	72	126	172	9	17	25	14	25	39	22																				
40	61	149	258	352	19	35	52	28	51	80	45	80	124	301	522	712	38	71	104	57	103	160	89	164	247	600	1040	1418	SD memory card capacity																													
76	144	209	115	208	324	180	330	499	1209	2096	2858	147	277	403	221	400	623	347	636	959	2325	4030	5496	299	564	819	448	808	1254	706	1280	1921	4728	7684	10246	10M	3648x	2736	Standard	Economy	Fine	6M	2816	x	2112	Standard	Economy	Fine	3M	2048x	1536	Standard	Economy	0.3M	640	x	480	Fine

Standard Economy * The numbers would be different depending on the subjects to be captured. EN-28 Possible recording time / sec (video clip) Size 0.3M 640 x 480 Quality Fine Standard Internal Memory 0:28 0:39 SD memory card capacity 32MB 0:31 0:43 64MB 1:04 1:29 128MB 2:11 3:00 256MB 4:21 6:00 512MB 8:46 12:05 1GB 16:52 23:15 2GB 34:19 47:17 * * Frame rate of video recording would be different depending on the SD memory card access speed. If using a low access speed SD memory card, it influences the frame rate and recording time. If the access speed of your memory card is not high enough (over 2MB/Sec for random write), the video clip will automatic stop or some unexpected situation may occur while recording. In this case, change into a high-speed memory card or select standard quality. EN-29 PHOTOGRAPHY MODE [] Auto Mode Auto photography mode is the most commonly used photography mode. Images can be captured simply because the exposure (the combination of shutter speed and aperture setting) is determined automatically to suit the photographic conditions. Your camera is equipped with a 2.

8" TFT color LCD monitor to help you compose images, playback recorded images/movie clips or adjust menu settings. 1. Press the POWER button to turn on the camera.] and set the mode dial to []. 2. Slide the mode switch to []. 3. Compose your image in the LCD monitor. 4. Press the shutter button down halfway. Pressing the shutter button down halfway automatically focuses and adjusts the exposure.

The focus-area frame turns blue and the status LED lights green when the camera is focused and exposure is determined. When the focus or exposure is not suitable, the frame of the focus area turns yellow and the status LED flashes red. 5. Press the shutter button down fully to capture the image. If the photographic preview is set to "On", images (the captured image) will be displayed while the image is being recorded 1 Press down halfway onto the memory. When the [Dub] is set to "On", [VOICE RECORDING] will be displayed on the screen immediately after the image is captured and voice memo recording will start. Press the shutter button one more time during recording, or wait for 30 seconds, [VOICE RECORD END] will be displayed and the recording will end. A [] icon is displayed with images that have been recorded with a voice memo. 2 Press down fully EN-30 Recording Voice Memos A voice memo can be recorded once for 30 seconds at still image mode immediately following a still image capture. 1.

Slide the mode switch to [] and set the mode dial to one of the photography modes, except for [] and [] modes. 2. Press the MENU button, and select the [Function] menu with the button. [Function] menu is displayed. 3. Select [Dub] with the / buttons, and press the SET button. 4. Select [On] with the / buttons, and press the SET button. 5. Press the MENU button to exit from the menu.

[] icon is displayed on the screen. 6. Compose the image, press the shutter button down halfway, then press it down fully. [VOICE RECORDING] is displayed on the screen immediately, and the voice memo recording starts. 7. Press the shutter button one more time during recording, or wait for 30 seconds [VOICE RECORD END] will be displayed and the recording will end. A [] icon is displayed with images that have been recorded with a voice memo. Dub is only available in [Single] capture mode. Dub is automatically fixed at [Off] in [Continuous] or [AEB] capture mode. EN-31 Using the Optical Zoom Zoom photography allows you to capture images magnified up to 6 times or wide-angle photography depending on the distance up to the subject.

You can also enlarge the center of the screen and capture images in the digital zoom mode.



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EN-37 Exposure Compensation/Backlight Correction Images can be captured with the overall scene intentionally made brighter or darker. These settings are used when a suitable brightness (exposure) cannot otherwise be obtained in circumstances where the difference in brightness between the subject and the background (the contrast) is large, or when the subject that you wish to capture is very small within the scene.

Exposure can be set in 1/3 EV units.] and set the mode dial to [P], [Tv], 1. Slide the mode switch to [[Av], [], [] or [] and press the button. Each press of the button displays the setting in the order of [] Backlight Correction and [] Exposure Compensation. 2. Set the exposure value with the / buttons. Press the button to increase the value. Press the button to decrease the value. The setting range of the exposure compensation is as follows:-2.0, -1.

7, -1.3, -1.0, -0.7, -0.3, 0, +0.3, +0.7, +1.0, +1.3, +1.7, +2.

0. Press the button to confirm the setting. The larger the value, the brighter the image. The smaller the value, the darker the image. The set value is displayed on the screen.

Effective Subjects and Set Values + (positive) compensation * Printed matter comprising black text on whitish paper * Backlighting * Bright scenes or strong reflected light such as ski slopes * When the sky accounts for a large area on the screen - (negative) compensation * People illuminated by a spotlight, in particular, against dark background EN-38 * Printed matter comprising white text on blackish paper * Weak reflecting bodies such as evergreen trees or darkish leaves Backlight correction (+1.3 EV, fixed) * When the background is bright and the subject is dark. * When subjects (people) have a light source such as the sun to their backs. For [] mode, only backlight correction can be set. [SCN] Scene Mode By simply selecting one of the following 16 modes, you can capture the image with most appropriate settings.

1. Slide the mode switch to [] and set the mode dial to [SCN]. a. Press the MENU button. b. Select [Scene Mode] with the / button, and press the SET button. c. Select the desired scene mode with the / buttons, and press the SET button. 2. Compose the image, press the shutter button down halfway, and then press it down fully.

EN-39 The table below will help you choose the appropriate scene mode: Scene mode Description [] Sport Select this mode when you want to capture fast-moving subjects. Select this mode when you want to capture an image that makes the person [] Portrait stand out against a defocused (blurred) background. Select this mode when you want to capture people with an evening or night [] Night Portrait scene background. [] Night Select this mode when you want to capture dark scenes such as night views. Select this mode when you want to capture photos of candlelit scene, without [] Candlelight spoiling the atmosphere. Select this mode when you want to capture fireworks clearly with optimal exposure. [] Fireworks The shutter speed becomes slower, so using a tripod is recommended. [] Landscape Select this mode when you want to capture landscape photos with bright color. Select this when you want to capture the green scenery background such as [] Natural Green [forest. Select this mode when you want to capture photos of a scene at sunrise.

This [] Sunrise mode helps keep the deep hues in the scene. Select this mode when you want to capture photos of a scene at sunset. This [] Sunset mode helps keep the deep hues in the scene. Select this mode when you want to capture an image that contains black [] Text and white subjects like printed documents. [] Black & White Select this mode when you want to capture a black & white image.

[] Sepia Select this mode when you want to capture a sepia image. [] Splash Water Select this mode when you want to capture photos of splashing water. Select this mode when you want to capture the soft flowing water. Shutter speed is automatically slowed down while maintaining proper exposure, which produces [] Flowing Water an image with the water blurred into smooth flowing lines along with a sharply focused background. Select this mode when you want to capture your pets.

Shoot from the eye level [] Pets of your pets. EN-40 [P] Program (Automatic Exposure) Photography Mode The camera automatically sets the shutter speed and the aperture to suit the brightness of the subject. This allows you to capture image with ease just like when the [] mode is selected. 1. Slide the mode switch to [] and set the mode dial to [P]. 2. Compose the image, press the shutter button down halfway, then press it down fully. Exposure compensation and backlight correction can be set. EN-41 [Tv] Shutter Speed Priority Photography Mode In this mode, images are captured with the priority given to shutter speed. The aperture is automatically set according to the shutter speed.

If you set a fast shutter speed, you can capture images of moving subjects that look as if they are still. If you set a slow shutter speed, you can capture images that give the impression that the subject is in motion.] and set the mode dial to [Tv]. 1. Slide the mode switch to [2. Adjust the shutter speed with the / buttons. Press the button to select faster shutter speeds. Press the button to select slower shutter speeds. The setting range of the shutter speed is as follows: 1/1500, 1/1250, 1/1000, 1/820, 1/650, 1/500, 1/400, 1/320, 1/250, 1/200, 1/160, 1/125, 1/100, 1/80, 1/64, 1/50, 1/40, 1/32, 1/25, 1/20, 1/16, 1/13, 1/10, 0.13s, 0.16s, 0.2s, 0.25s, 0.3s, 0.4s, 0.

5s, 0.6s, 0.8s, 1.0s. The shutter speed and corresponding aperture value ardisplayed on the screen.

If an appropriate combination cannot be set, the aperture value is displayed in red, but images can be captured regardless. 3. Compose the image, press the shutter button down halfway, and then press it down fully. In the flash photography mode, when [second.] and [] are set, the fastest shutter speed is 1/500

EN-42 [Av] Aperture Priority Mode In this mode, images are captured with the priority given to aperture. The shutter speed is automatically set according to the aperture. The aperture will affect the depth-of-field of the camera. If you set a small aperture (higher F value), both close objects and distant objects will be in focus, for example when capturing landscape images. Alternatively, if you set a large aperture (lower F value), you can capture portrait images with an out-of-focus background.] and set the mode dial to [Av].

1. Slide the mode switch to [2. Adjust the aperture with the / buttons. Press the button to increase the value. Press the button to decrease the value. The setting range of the aperture value is as follows: F6.7, F5.6, F4.8, F4.0, F3.

5, F2.8 (Wide). F4.8, F5.6, F6.

7, F8.0, F9.5, F11.0 (Tele). The aperture value and corresponding shutter speed are displayed on the screen.

If an appropriate combination cannot be set, the shutter speed is displayed in red, but images can be captured regardless. 3. Compose the image, press the shutter button down halfway, and then press it down fully.



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The aperture value varies depending on the position of the zoom lens. EN-43 [M] Manual Mode In manual mode, the aperture value and the shutter speed can be varied individually. 1. 2. 3. 4.] and set the mode dial to [M].

Slide the mode switch to [Toggle the button to select the shutter speed or aperture. Adjust the shutter speed or aperture with the / buttons. Compose the image, press the shutter button down halfway, and then press it down fully. In the flash photography mode, when [second.] and [] are set, the fastest shutter speed is 1/500 EN-44 [] User Setting Mode This mode allows you manually set the setting parameters and all these settings will be memorized.] and set the mode dial to []. 1. Slide the mode switch to [2. Compose the image, press the shutter button down halfway, then press it down fully. [] Video Mode This mode allows you to record video clips at a resolution of 640 x 480 pixels.

Voice can also be recorded. 1. Slide the mode switch to [] and set the mode dial to []. 2. Compose the scene with the zoom button. Optical and digital zoom can be used while composing the scene. 3. Fully press down the shutter button. The recording of the video clip will start. Pressing the shutter button again will end the recording.

The recording time depends on the storage size and the subject of the image to be recorded. Zoom function cannot be used during video recording. When recording video clips, the flash cannot be used. If the access speed of your SD memory card is not enough for recording video clips in the] will appear, and then the movie recording will stop. currently selected quality, a warning icon [In this case, select a video quality lower than the current one. EN-45 [] Panorama Mode This mode is designed to make it easier to take a series of shots then stitch them together with software to make a single photo. You can capture a photographic subject that won't fit into a single frame, such as a landscape, and stitch it together later with a program such as Cool 360 or Photoshop application. 1. Slide the mode switch to [] and set the mode dial to []. 2.

Shoot the first image. The next image appears beside the previous image. 3. Orient the camera so that the second frame overlaps a small portion of the photographic subject of the first image and press the shutter button to capture the next image. 4. Follow the same steps to capture subsequent images in the sequence. 5. Finish the sequence by pressing the SET button after the last image has been recorded. [] Anti-Shake Mode The anti-shake function works according to the luminance of the target object. This function uses special image data processing for getting high sensitivity of CCD.

High sensitivity can use higher shutter speed compared with normal mode, so it reduces influence of hand shaking. From the resolution point of view, it becomes worse than normal mode. Maximum size of image becomes 6 mega pixels (2816 x 2112). 1. Slide the mode switch to [] and set the mode dial to [].

2. @@ Basically, Pre-Shot is a two-step process. 1. @@2. @@ The camera stores the image produced by step 2 only.

@@ Freeze the background on the monitor screen. @@ Only the second image is recorded. EN-47 1. @@ a. Press the MENU button. b. Select [Function] with the button. c. Select [Capture Mode] with the / button, and press the SET button. d.

Select [Pre-Shot] with the / button, and press the SET button. 2. @@@@3. @@@4. @@@@Slide the mode switch to [], [] and []. a. Press the MENU button. b. Select [Function] with the button. c.

Select [Capture Mode] with the / button, and press the SET button. d. Select [Coupling Shot] with the / button, and press the SET button. 2. @@3.

Press the shutter button to record the left side of the image. 4. @@5. @@@@1. Slide the mode switch to [].

The last image appears on the screen. 2. The images can be displayed in reverse or forward with the buttons. To view the previous image, press . @@@@A press of the button opposite to the direction in which the image was rotated will return the image to the normal display. A [] icon is displayed with the video data. Video clips cannot be rotated. A [] icon is displayed with images which have an audio memo recorded. Press the SET button to play back voice memos. Press it again to stop voice memo playback.

EN-50 Playing Back Video Clips You can play back recorded video clips on the LCD monitor. You can also play back voice. 1. Slide the mode switch to []. The last image appears on the screen. 2. Select the desired video clip with the / buttons. A [] icon is displayed with the video data. 3. Press the SET button to play back a video clip.

Pressing the / buttons during playback initiates fast forward/fast reverse. Button Operations During Playback During a Pause (Forward play) Pressing the button will sequentially 1-frame feed invoke 2x fast-forward, 4x fast-forward, regular play. (Reverse play) Pressing the button will sequentially Reverse 1-frame invoke 2x fast-reverse, 4x fast-feed reverse, regular play. Sound On/Off Stop (The display returns to the 1st frame playback). Pause Cancel pause Regular forward play During a Stop The next image is displayed.

button button The previous image is displayed. button button SET button Video clips cannot be displayed rotated or enlarged. EN-51 Playing Back Still Images/Video Clips on a TV You can also play back your images on a TV screen. Before connecting to any video devices, make sure to select NTSC/PAL to match the broadcast standard of the video equipment you are going to connect to the camera. Using the AC power adapter is recommended when transferring the recorded images and video files.

1. Slide the mode switch to []. 2. Connect one end of the A/V cable to the A/V OUT terminal of the camera. 3. Connect the other end to the A/V input socket of the TV set. 4. Turn the TV and camera on. 5. Play back the still images/video clips.

The method of operation is the same as playing back still images and video clips on the camera. Refer to the section in this manual titled "Video Output" in the Setup2 Menu for further details. EN-52 Attaching Voice Memo A maximum of 30 seconds of audio can be recorded like a memo annotation for each still image. The voice memo can be recorded only once. 1. Slide the mode switch to []. The last image appears on the screen. 2. Select the image where you want to attach the voice memo with the / buttons. 3.

Press the shutter button. [VOICE RECORDING] is displayed on the screen and recording starts. 4. To stop recording voice memo during recording, press the shutter button again. [VOICE RECORD END] will be displayed and the recording will end.

A [] is displayed with images that have been recorded with a voice memo. Playing back voice memo Pressing the SET button displays [VOICE PLAYBACK] and plays back the voice memo. Pressing it again stops voice memo playback. Voice memo is only available for still images. EN-53 Thumbnail Display This function allows you to view 9 thumbnail images on the LCD monitor at the same time which can help to quickly search for the image that you want.



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1. Slide the mode switch to []. The last image appears on the screen. button. 2. Press the The images are displayed in the thumbnail display. Images that have been selected with the /// buttons will be indicated by a green frame. When there are ten or more images, scroll the screen with the / buttons. 3. Press the /// buttons to select the image to be displayed at regular size.
4. Press the SET button. The selected image is displayed at its regular size. Page Jump Function This function allows you to select the image to be displayed immediately from a lot of recorded images. 1. Slide the mode switch to []. 2. Press the button to enter thumbnail display. 3. Press the button to enter page jump function and the image is indicated by a red frame.
4. For page selection, follow the steps below: Pressing the button jumps to the first image. Pressing the button jumps to the last image. Pressing the button jumps to the previous thumbnail page. Pressing the button jumps to the next thumbnail page. button to resume normal thumbnail display. 5. Press the To select the image to be displayed at regular size, follow the steps 3-4 in the above section. A [EN-54], [], [], [] icon will be displayed in a thumbnail display. Zoom Playback This mode also allows you to enlarge your image on the selected portion of the image to check for small details.
 1. Slide the mode switch to [2. Press the / buttons to select the image you want to enlarge. You can also select the image you want to enlarge from the thumbnail display. 3. Adjust the zoom ratio with the / buttons. Pressing the button enlarges the image. To return to normal magnification, press the button. 103-0006 The magnification factor is displayed on the LCD monitor.

The image is displayed enlarged, and a white frame and green frame are displayed on the LCD monitor. The white frame indicates the entire image, while the green frame shows the location of the currently enlarged area. 4. Press the /// buttons to select the area to enlarge. 5. To return to regular display, toggle the button until the regular display appears on the screen. Pressing the Pressing the button magnifies the image from 1x -->2x--> 4x-->8x. button reduces the image from 8x-->4x -->2x--> 1x. EN-55 Slideshow Display The slideshow function enables you to play back your still images automatically in sequential order as a slideshow. This is very useful and entertaining feature for reviewing captured images and for presentations.

1. Slide the mode switch to []. 2. Press the MENU button. The playback menu is displayed.
3. Select [Slide Show] with the / buttons, and press the SET button. The slideshow starts. 4. To stop the slide show during playback, press the SET button. The image is displayed on screen when you press the SET button. Play The Auto OFF function does not operate during slide show. All still images in the folder are automatically played back. EN-56 Protecting Images Set the data to read-only to prevent images from being erased by mistake. Protecting Images
 1. Slide the mode switch to []. 2. Select the image that you want to protect with the / buttons. 3. Press the MENU button.

The playback menu is displayed. 4. Select [Protect] with the / buttons, and press the SET button. 5. Select [Single] or [All] with the / buttons, and press the SET button. 6. Select [Set] with the / buttons, and press the SET button. Protection is applied to the image and the camera returns to the playback mode. The protect icon [] is displayed with protected images. When [All] has been selected, [] is displayed with all the images.

- 2 2 EN-57 Canceling the Protection To cancel protection, display the image that you want to remove the image protection. 1. Select [Protect] with the / buttons from the playback menu, and press the SET button. 2. Select [Single] or [All] with the / buttons, and press the SET button.
3. Select [Cancel Protect] with the / buttons, and press the SET button. The removal of image protection is executed and the camera returns to the playback mode. Protecting multiple images simultaneously 1. Select [Protect] with the / buttons from the playback menu, and press the SET button.
2. Select [Select] with the / buttons, and press the SET button. The images are displayed in the thumbnail display. 3. Select the image you want to protect with the /// buttons, and press the button. The protect icon [] is displayed with protected images. Selecting a protected image and button again will cancel the protection. This procedure is repeated to select pressing the multiple images. 4. Press the SET button.

Protection and cancellation the protection are executed and the camera returns to playback mode. Formatting an SD memory card (or internal memory) overrides protection, and erases all images regardless of their protected status. EN-58 DPOF Settings DPOF is the abbreviation for Digital Print Order Format, which allows you to embed printing information on your memory card. You can select the images to be printed and how many prints to make with the DPOF menu in the camera and insert the memory card to the card compatible printer. When the printer starts printing, it will read the embedded information on the memory card and print the specified images. 1. Set the mode dial to [2. Select the image that you want to set DPOF with the 3. Press the MENU button.

- The playback menu is displayed. / buttons. 4. Select [DPOF] with the / buttons, and press the SET button. The DPOF setting screen is displayed.
5. Select [Single] or [All] with the / buttons, and press the SET button. Single: Sets DPOF for each individual image. All: Sets DPOF for all images at once. 2 6.

Select [Print Num.] with the / buttons, and press the SET button. This displays the number of prints setting screen. 7. Set the number of prints with the / buttons, and press the SET button. You can set up to 9 prints for each image. 8. Select [Date] with the / buttons, and press the SET button. The date setting screen appears. 2 EN-59 9.

Select date to [On] or [Off] with the / buttons, and press the SET button. On: The date of the photograph will also be printed. Off: The date of the photograph will not be printed. 10. Select [Print Enable] with the / buttons, and press the SET button. 11. Select [Execute] with the / buttons, and press the SET button.

This creates a file containing the DPOF information, and when the operation is finished, the screen returns to the playback mode. The DPOF icon [] is displayed on each image that have set up DPOF settings. The date that is printed on the photo is the date set on the camera.

To print the correct date on the photo, set the date on the camera before you photograph the image. Refer to section in this manual titled "Setting the Date and Time" for further details. For DPOF settings on images stored in the internal memory, be sure to copy those files to an SD memory card first. Refer to section in this manual titled "Copying Files from Internal Memory to a Memory Card" for further details. EN-60 Copying Files from Internal Memory to a Memory Card This function allows you to copy your files from the digital still camera's internal memory to a memory card.



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Of course, you can only do this if you have a memory card installed and some files in internal memory.] 1. Set the mode dial to [2. Select the image that you want to copy to a memory card with the / buttons.

3. Press the MENU button. The playback menu is displayed. 4. Select [Copy] with the / buttons, and press the SET button. 5. Select [Execute] with the / buttons, and press the SET button. To not copy, select [Cancel] with the / buttons, and press the SET button. EN-61 Changing the Camera Start Logo Image You can specify the start logo image for your camera. You can select the new start logo image among the captured still images.

1. Slide the mode switch to []. 2. Select the image that you want to protect with the / buttons. 3. Press the MENU button. The playback menu is displayed. 4. Select [Setup1] with the button. 5.

Select [Start Logo] with the / buttons, and press the SET button. 6. Select [User Image] with the / buttons, and press the SET button. 7. Select [Execute] with the / buttons, and press the SET button.

This new start logo image will be activated on the next time you turn on the camera. User selected image is saved in the special area of the internal memory.

In case of formatting the internal memory, the user selected start logo image will not be lost. "NO IMAGE" message is displayed when "User Image" is selected and no images are stored in the SD memory card or internal memory. If the image recorded voice memo is selected to be the start logo image, the voice memo function will fail.

The capacity for saving user image is only one. The previous start logo image will not be recovered if you select another one as a new start logo image.

EN-62 [] Deleting Images Immediate Erasure (Quick Delete Function) The quick delete function enables you to delete the last-captured image during capture.] and set the mode dial to one of 1. Slide the mode switch to [the photography modes. 2. Press the button. The last image and quick delete menu appear on the screen. button to delete image. 3.

Select [Execute], and press the SET or You may also press the SET button to confirm the deletion. To not delete, select [Cancel], and press the SET button. SET: Enter EN-63 Deleting in Playback Mode Deleting a single image/Deleting all images 1. Slide the mode switch to []. The last image will be displayed on the screen. 2. Select the image you want to erase with the / buttons. 3. Press the button. The deletion menu will be displayed.

4. Select [Single] or [All] with the / buttons, and press the SET button. Single: Erases the selected image or the last image. All: Erases all of the images except for the protected images. Select: Erases a number of selected images.

5. Select [Execute] with the / buttons, and press the SET button. To not erase, select [Cancel], and press the SET button. Deleting an image will not affect sequential image numbering. For example, if you delete image number 240, the next captured image will be numbered 241 even though 240 no longer exists.

In other words, an image-number is retired when an image is deleted and will not be reused or reassigned to another subsequently captured image. EN-64 Deleting selected images This deletes a number of selected images. 1. Slide the mode switch to []. 2. Press the button. The deletion menu will be displayed. 3. Select [Select] with the / buttons, and press the SET button. The images are displayed in the thumbnail display.

4. Select the image you want to erase with the /// buttons, and press the button. The [] icon will be displayed. One more press of the button will cancel the operation. Repeat this procedure and select all the images that you want to erase. 5. Press the SET button. 100-0010 EN-65 MENU OPTIONS Photography Menu (Capture tab) This menu is for basic settings used when capturing images in the photography modes. These settings are retained even if the camera is turned off or the Auto OFF function is activated. Available menu options in each photography mode: Auto Capture Function Size Capture Mode Quality Dub Sharpness LCD Bright.

Contrast Digital Zoom Color Preview Date Print Beep Scene Capture Mode Size Quality Anti Shake Function Capture Mode Dub LCD Bright. Digital Zoom Preview Date Print Beep Program / Tv / Av / M / User Setting Capture Function AE/AWB Size Capture Mode White Balance Quality Dub Manual WB Sharpness LCD Bright. ISO Contrast Digital Zoom Metering Color Preview Focus Area Date Print Flash Offset Beep Video Capture Quality Contrast Color Panorama Capture Size Quality Sharpness Contrast Color Function LCD Bright. Digital Zoom Beep Function LCD Bright. Beep AE/AWB White Balance Manual WB AE/AWB White Balance Manual WB ISO Metering Flash Offset EN-66 Anti-Shake Capture Size Quality Sharpness Contrast Color Function Capture Mode Dub LCD Bright.

Digital Zoom Preview Date Print Beep AE/AWB White Balance Manual WB Metering Focus Area Flash Offset 1. Slide the mode switch to [] and set the mode dial to one of the photography modes. 2. Press the MENU button. [Capture] menu is displayed.

3. Select the desired [Capture] option item with the / buttons, and press the SET button to enter its respective menu. 4. Select the desired setting with the / buttons, and press the SET button. 5. To exit from the menu, press the MENU button. EN-67 Size (resolution) This sets the resolution of the still-image that will be captured. * [10M] 3648 x 2736 0 * [6M] 2816 x 2112 6 * [3M] 2048 x 1536 * [0.3M] 640 x 480 0 Quality This sets the quality (compression rate) at which the image is captured. * Fine / Standard / Economy [Economy] setting is not available for [] mode.

Sharpness The camera can automatically emphasize the borders between light and dark areas of the image. This will make the image's edges look sharper. In some scenes you may prefer sharper edge detail. In other scenes you may prefer softer edge detail. This sets the sharpness of the image that will be captured. * Hard / Normal / Soft Contrast This sets the difference between the bright and dark portions of the images that will be captured. * Hard / Normal / Soft Color This sets the color of the image that will be photographed. * Standard / Vivid / Sepia / Monochrome / Red / Green / Blue / Yellow / Purple EN-68 Photography Menu (Function tab) 1. Slide the mode switch to [] and set the mode dial to one of the photography modes. 2.

Press the MENU button, and select the [Function] menu with the button. The [Function] tab of the photography menu is displayed. 3. Select the desired [Function] option item with the / buttons, and press the SET button to enter its respective menu. 4.

Select the desired setting with the / buttons, and press the SET button. 5. To exit from the photography menu, press the MENU button. Capture Mode This sets the recording method at the time of capturing images. * [Blank] Single: Capture an image at a time.

* [] Continuous: Permits continuous photography of 3 images max. * [AEB] AEB: Permits 3 consecutive images in the order of standard exposure, underexposure and overexposure compensation.



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