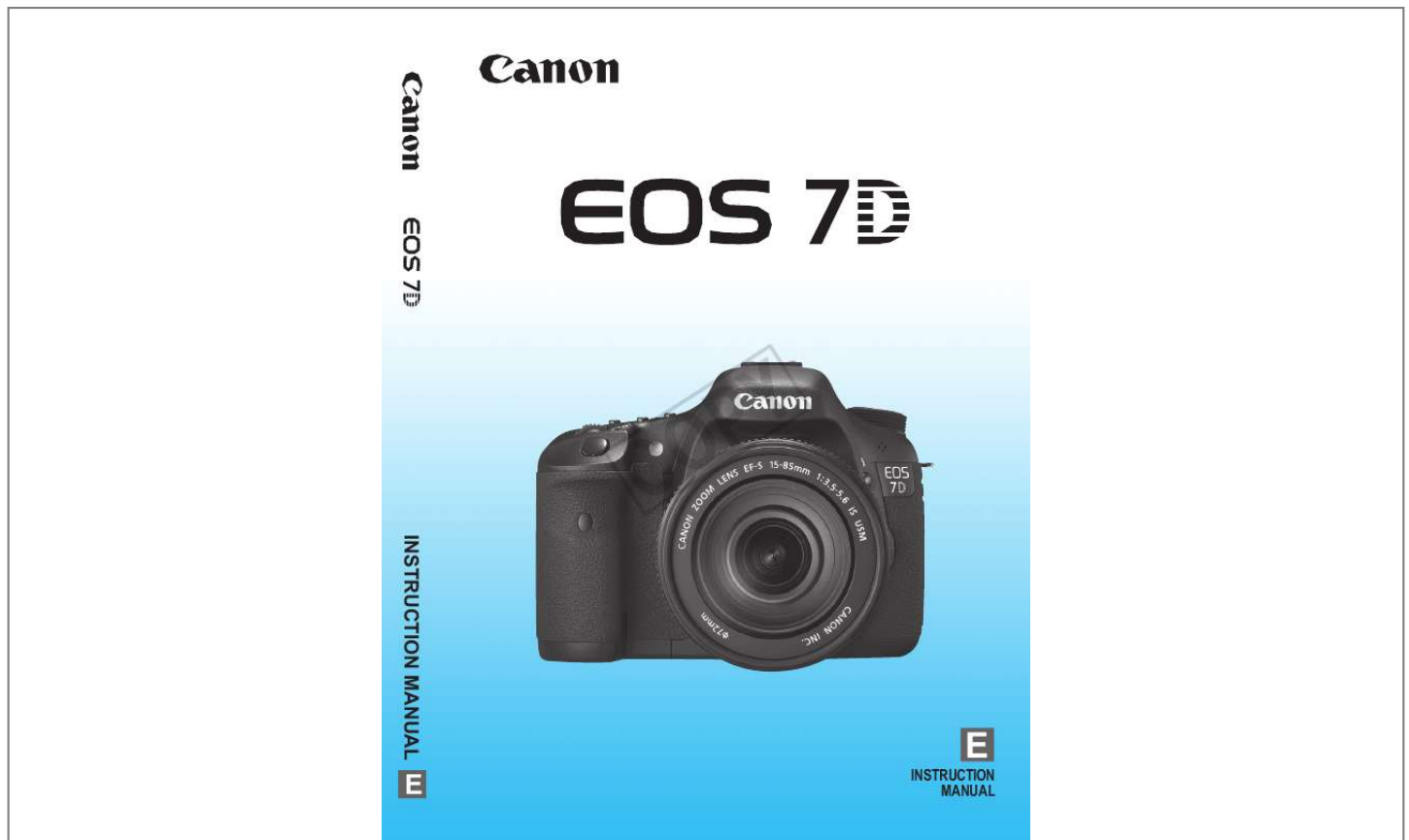




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for CANON EOS 7D. You'll find the answers to all your questions on the CANON EOS 7D in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual CANON EOS 7D  
User guide CANON EOS 7D  
Operating instructions CANON EOS 7D  
Instructions for use CANON EOS 7D  
Instruction manual CANON EOS 7D



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ernal parts. To prevent condensation, first put the camera in a sealed plastic bag and let it adjust to the warmer temperature before taking it out of the bag. If condensation forms on the camera, do not use the camera. This is to avoid damaging the camera. If there is condensation, remove the lens, card and battery from the camera, and wait until the condensation has evaporated before using the camera.

If the camera will not be used for an extended period, remove the battery and store the camera in a cool, dry, well-ventilated location. Even while the camera is in storage, press the shutter button a few times once in a while to check that the camera is still working. Avoid storing the camera where there are corrosive chemicals such as a darkroom or chemical lab. If the camera has not been used for an extended period, test all its functions before using it. If you have not used the camera for some time or if there is an important shoot coming up, have the camera checked by your Canon dealer or check the camera yourself and make sure it is working properly.

*C PY O 12 Handling Precautions LCD Panel and LCD Monitor Although the LCD monitor is manufactured with very high precision technology with over 99.99% effective pixels, there might be a few dead pixels among the remaining 0.01% or less pixels. Dead pixels displaying only black or red, etc., are not a malfunction. They do not affect the images recorded.*



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If the LCD monitor is left on for a prolonged period, screen burn-in may occur where you see remnants of what was displayed. However, this is only temporary and will disappear when the camera is left unused for a few days. In low or high temperatures, the LCD monitor display may seem slow or it might look black. It will return to normal at room temperature.

Cards To protect the card and its recorded data, note the following: Do not drop, bend, or wet the card. Do not subject it to excessive force, physical shock, or vibration. Do not store or use the card near anything having a strong magnetic field such as a TV set, speakers, or magnet. Also avoid places prone to having static electricity. Do not leave the card in direct sunlight or near a heat source. Store the card in a case. Do not store the card in hot, dusty, or humid locations. Lens After detaching the lens from the camera, attach the lens caps or put down the lens with the rear end up to avoid scratching the lens surface and electrical contacts. C PY O Contacts Cautions During Prolonged Use If you use continuous shooting, Live View shooting, or movie shooting for a prolonged period, the camera may become hot. Although this is not a malfunction, holding the hot camera for a long period can cause slight skin burns.

13 Quick Start Guide 1 Insert the battery. (p.26) To charge the battery, see page 24. 2 For EF-S lens For EF lens Attach the lens. (p.31) When attaching an EF-S lens, align it with the white index on the camera. For other lenses, align it with the red index. 3 Set the lens focus mode switch to <AF>. (p.31) C 4 5 PY O Open the slot cover and insert a card. (p.29) Face the label side toward you and insert the end with the small holes into the camera. Set the power switch to <1>. (p.27) 14 Quick Start Guide 6 Set the Mode Dial to <1> (Full Auto). (p.50) All the necessary camera settings will be set automatically. 7 8 C PY O Focus the subject. (p.35) Look through the viewfinder and aim the viewfinder center over the subject.

Press the shutter button halfway, and the camera will focus the subject. If necessary, the built-in flash will popup automatically. Take the picture. (p.35) Press the shutter button completely to take the picture. 9 Review the picture. (p.56) The captured image will be displayed for about 2 sec. on the LCD monitor. To display the image again, press the <x> button (p.

162). To view the images captured so far, see "Image Playback" (p.162). To delete an image, see "Erasing Images" (p.179). 15 Nomenclature For detailed information, reference page numbers are provided in parentheses (p.\*\*). <o> AF mode selection/Drive mode selection button (p.84/93) <m> ISO speed setting/ Flash exposure compensation button (p.62/113) <U> LCD panel illumination button (p.37) <6> Main Dial (p.36) <B> Multi-function button (p.88,114) Shutter button (p.35) Red-eye reduction/ Self-timer lamp (p.112/94) Remote control sensor (p.110) Grip (Battery compartment) DC coupler cord hole (p.234) Mirror (p.109,187) Contacts (p.13) Lens lock pin Lens mount <n> Metering mode selection/White balance selection button (p.103/70) LCD panel (p.

18) EF lens mount index (p.31) Built-in flash/AF-assist beam (p.111/91) EF-S lens mount index (p.31) Flash-sync contacts Hot shoe (p.129) Mode Dial (p.20) C PY O PC terminal (p.130) Strap mount (p.23) Microphone (p.157) <D> Flash button (p.111) Terminal cover Lens release button (p.32) Depth-of-field preview button (p.101) External microphone IN terminal (p.151) Audio/video OUT/Digital terminal (p.176,190) Remote control terminal (p.108) (N3 type) HDMI mini OUT terminal (p.

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37) 17 Nomenclature LCD Panel Shutter speed Busy (buSY) Built-in flash recycling (buSY) Image-recording quality (p.58) 37 38 47 48 67 68 1 a1 61 Large/Fine Large/Normal Medium/Fine Medium/Normal Small/Fine Small/Normal RAW Medium RAW Small RAW Card full warning (FuLL CF) Card error warning (Err CF) No card warning (no CF) Error code (Err) Cleaning image sensor (CLn) Aperture White balance correction (p.73) Shots remaining Shots remaining during WB bracketing Self-timer countdown Bulb exposure time White balance (p.70) Q Auto W Daylight E Shade R Cloudy Y Tungsten light U White fluorescent light I Flash O Custom P Color temperature Exposure level indicator Exposure compensation amount (p.104) AEB range (p.105) Flash exposure compensation amount (p.113) Card writing status Battery check (p.28) z xcm C bn PY O <h> AEB (p.105) AF mode (p.84) X One-Shot AF 9 AI Focus AF Z AI Servo AF Drive mode (p.93) u Single shooting o High-speed continuous shooting i Low-speed continuous shooting Q 10 sec. Self-timer/ Remote control k 2 sec. Self-timer/ Remote control ISO speed (p.62) <A> Highlight tone priority (p.209) Metering mode (p.

103) q Evaluative metering w Partial metering r Spot metering e Center-weighted average metering Flash exposure compensation (p.113) <O> Monochrome shooting (p.65) <g> ISO speed (p.62) The display will show only the settings currently applied. 18 Nomenclature Viewfinder Information Spot metering circle (p.103) Focusing screen Grid (p.47) <S> AF points <O> Spot AF points (p.87) Area AF frame/ Zone AF frame (p.87) < > Battery check <A> AE lock/ AEB in-progress <D> Flash-ready Improper FE lock warning <d> FE lock/ FEB in-progress <e> High-speed sync (FP flash) <y> Flash exposure compensation C PY O <g> ISO speed <u> White balance correction <o> Focus confirmation light Max. burst <O> Monochrome shooting ISO speed <A> Highlight tone priority Exposure level indicator Exposure compensation amount Flash exposure compensation amount AEB range Red-eye reduction lamp-on indicator Card full warning (FuLL CF) Card error warning (Err CF) No card warning (no CF) Shutter speed FE lock (FEL) Busy (buSY) Built-in flash recycling (D buSY) Aperture The display will show only the settings currently applied.



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19 Nomenclature Mode Dial Camera User Settings Most camera settings can be registered under w, x, or y (p.223). F : Bulb (p.107) a : Manual exposure (p.102) f : Aperture-priority AE (p.100) s : Shutter-priority AE (p.98) d : Program AE (p.96) C Fully-Automatic Modes All you do is press the shutter button. Fully-automatic shooting suitable for the subject. 1: Full Auto (p.13) C: Creative Auto (p.53) PY O 20 Nomenclature Lens Lens with a distance scale Hood mount (p.258) Focus mode switch (p.31) Zoom position index (p.32) Distance scale Filter thread (front of lens) (p.258) Zoom ring (p.32) Focusing ring (p.92,145) Image Stabilizer switch (p.33) Lens without a distance scale Hood mount (p.258) C PY O Contacts (p.13) Lens mount index (p.31) Focusing ring (p.92,145) Focus mode switch (p.31) Zoom position index (p.32) Filter thread (front of lens) (p.258) Zoom ring (p.32) Image Stabilizer switch (p.33) Lens mount index (p.31) Contacts (p.13) 21 Nomenclature Battery Charger LC-E6 Charger for Battery Pack LP-E6 (p.24). Power plug Battery pack slot Charge lamp This power unit is intended to be correctly orientated in a vertical or floor mount position. **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. C PY O Battery Charger LC-E6E Charger for Battery Pack LP-E6 (p.24). Power cord Charge lamp Battery pack slot Power cord socket 22 Getting Started This chapter explains preparatory steps before you start shooting and basic camera operations. C Attaching the Strap Pass the end of the strap through the camera's strap mount eyelet from the bottom. Then pass it through the strap's buckle as shown in the illustration. Pull the strap to take up any slack and make sure the strap will not loosen from the buckle. The eyepiece cover is also attached to the strap (p.108). PY O Eyepiece cover 23 Charging the Battery 1 Remove the protective cover. 2 Attach the battery. As shown in the illustration, attach the battery securely. 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For safety reasons, recharging in low temperatures (5°C - 10°C / 41°F - 50°F) will take a longer time (up to 4 hours). 24 Charging the Battery Tips for Using the Battery and Charger Recharge the battery on the day before or on the day it is to be used. Even during non-use or storage, a charged battery will gradually discharge and lose its power. After recharging the battery, detach it and unplug the power cord or prongs from the power outlet. You can attach the cover in a different orientation to indicate whether the battery has been recharged or not. If the battery has been recharged, attach the cover so that the battery-shaped hole < > is aligned over the blue sticker on the battery. If the battery is exhausted, attach the cover in the opposite orientation. When not using the camera, remove the battery. If the battery is left in the camera for a prolonged period, a small amount of power current is released, resulting in excess discharge and shorter battery life. Store the battery with the protective cover attached. Storing the battery after it is fully charged can lower the battery's performance. The battery charger can also be used in foreign countries. The battery charger is compatible with a 100 V AC to 240 V AC 50/60 Hz power source. If necessary, attach a commercially-available plug adapter for the respective country or region. Do not attach any portable voltage transformer to the battery charger. Doing so can damage the battery charger. If the battery becomes exhausted quickly even after being fully charged, the battery has worn out. Check the battery's recharge performance (p.230) and purchase a new battery. If the battery's remaining capacity (p.230) is 94% or higher, the battery will not be recharged. After disconnecting the charger's power plug, do not touch the charger power plug (prongs) for at least 3 sec. C PY O 25 Installing and Removing the Battery Installing the Battery Load a fully charged Battery Pack LP-E6 into the camera. The camera's viewfinder will become bright when a battery is installed, and darken when the battery is removed. 1 Open the battery compartment cover. Slide the lever as shown by the arrow and open the cover. 2 Insert the battery. the battery Insert the end with contacts. Insert the battery until it locks in place. 3 Close the cover. Press the cover to close it. PY O Only the Battery Pack LP-E6 can be used. Removing the Battery Open the cover and remove the battery. Press the battery release lever as shown by the arrow and remove the battery. To prevent short circuiting, be sure to attach the protective cover to the battery. 26 Turning on the Power <1> : The camera turns on. <2> : The camera is turned off and does not operate. Set to this position when not using the camera. About the Automatic Self-Cleaning Sensor Whenever you set the power switch to <1> or <2>, the sensor cleaning will be executed automatically. During the sensor cleaning, the LCD monitor will display <f>. Even during the sensor cleaning, you can still shoot by pressing the shutter button halfway (p.35) to stop the sensor cleaning and take a picture. If you repeatedly turn the power switch <1>/<2> at a short interval, the <f> icon might not be displayed. This is normal and not a problem. About Auto Power Off To save battery power, the camera turns off automatically after about 1 minute of non-operation. To turn on the camera again, just press the shutter button halfway (p.35). You can change the auto power-off time with the menu's [5 Auto power off] setting (p.44). C PY O If you set the power switch to <2> while an image is being recorded to the card, [Recording ...] will be displayed and the power will turn off after the card finishes recording the image. 27 Turning on the Power Checking the Battery Level When the power switch is set to <1>, the battery level will be indicated in one of six levels: A blinking battery icon (b) indicates that the battery will be exhausted soon.



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Icon Level (%) 100 - 70 69 - 50 49 - 20 19 - 10 9-1 0 Battery Life Temperature No Flash 50% Flash Use At 23°C / 73°F Approx. 1000 Approx. 800 At 0°C / 32°F Approx. 900 Approx. 750 The figures above are based on a fully-charged Battery Pack LP-E6, no Live View shooting, and CIPA (Camera & Imaging Products Association) testing standards. Battery Grip BG-E7 approximately doubles the number of possible shots with two LP-E6 batteries installed. With size-AA/LR6 alkaline batteries, the number of possible shots at 23°C / 73°F is approx. 400 shots without flash use and approx. 300 shots with 50% flash use. C PY O The number of possible shots will decrease with any of the following operations: · Pressing the shutter button halfway for a prolonged period. · Often activating only the AF without taking a picture. · Using the LCD monitor often. · Using the lens Image Stabilizer. The lens operation is powered by the camera's battery.

Depending on the lens used, the number of possible shots may be lower. For battery life with Live View shooting, see page 133. See the [7 Battery info.] menu to further check the battery's condition (p.230).

If size-AA/LR6 batteries are used in Battery Grip BG-E7, a four-level indicator will be displayed. ([ / ] will not be displayed.) 28 Installing and Removing the CF Card Although the thickness is different between the two types of CF (CompactFlash) cards, the camera is compatible with both types. It is also compatible with Ultra DMA (UDMA) cards and hard disk-type cards. Installing the Card 1 Label side Open the cover. Slide the cover as shown by the arrow to open it. the card. 2 Insertshown in the illustration, face As Card ejection button C 3 PY O the label side toward you and insert the end with the small holes into the camera. If the card is inserted in the wrong way, it may damage the camera. The card ejection button will stick out.

Close the cover. Close the cover and slide it in the direction shown by the arrow until it snaps shut. When you set the power switch to <1>, the number of remaining shots will be displayed on the LCD panel. Shots remaining The number of shots remaining depends on the remaining capacity of the card, image-recording quality, ISO speed, etc. Setting the [1 Release shutter without card] menu option to [Disable] will prevent you from forgetting to install a card (p.238). 29 Installing and Removing the CF Card Removing the Card 1 Access lamp Open the cover. Set the power switch to <2>. Make sure the access lamp is off, then open the cover. the card.

2 Removethe card ejection button. Press The card will come out. Close the cover. Card ejection button The access lamp lights or blinks while the picture is taken, when data is being transferred to the card and when data is being recorded, read, or erased on the card. While the access lamp is lit or blinking, never do any of the following.

Doing so may damage the image data. It may also damage the card or camera. · Opening the card slot cover. · Removing the battery. · Shaking or banging the camera around.

If the card already contains recorded images, the image number might not start from 0001 (p.80). If a card-related error message is displayed on the LCD monitor, remove and reinstall the card. If the error persists, use a different card. If you can transfer all the images in the card to a computer, transfer all the images and then format the card (p.43). The card may then return to normal. When holding a hard disk-type card, always hold its sides. You may damage the card by holding its flat surfaces. Compared to CF cards, hard disk-type cards are more vulnerable to vibration and physical shock.

If you use such a card, be careful not to subject the camera to vibration or physical shock especially while recording or displaying images. C PY O 30 Attaching and Detaching a Lens Attaching a Lens 1 EF-S lens mount index Remove the caps. Remove the rear lens cap and the body cap by turning them as shown by the arrow. lens. 2 Attach theEF-S lens with the camera's Align the white EF-S lens mount index and turn the lens as shown by the arrow until it clicks in place. When attaching a lens other than an EF-S lens, align the lens with the red EF lens mount index. EF lens mount index C lens, set the focus mode 3 On the to <AF> (autofocus). switch If it is set to <MF> (manual focus), autofocus will not operate. PY O 4 Remove the front lens cap. Minimizing Dust When changing lenses, do it in a place with minimal dust.

When storing the camera without a lens attached, be sure to attach the body cap to the camera. Remove dust on the body cap before attaching it. 31 Attaching and Detaching a Lens About Zooming To zoom, turn the zoom ring on the lens with your fingers. If you want to zoom, do it before focusing. Turning the zoom ring after achieving focus may throw off the focus slightly.

Detaching the Lens While pressing the lens release button, turn the lens as shown by the arrow. Turn the lens until it stops, then detach it. Attach the rear lens cap to the detached lens. To owners of the EF-S18-200mm f/3.5-5.5.

6 IS lens: C You can prevent the lens from extending out while you are carrying it around. Set the zoom ring to the 18mm wide-angle end, then slide the zoom ring lock lever to <LOCK>. The zoom ring can be locked only at the wide-angle end. PY O Do not look at the sun directly through any lens. Doing so may cause loss of vision. If the front part (focusing ring) of the lens rotates during autofocus, do not touch the rotating part. Image Conversion Factor Since the image sensor size is smaller than the 35mm film format, it will look like the lens focal length is increased by 1.6x. Image sensor size (22.3 x 14.

9 mm / 0.88 x 0.59 in.) 35mm image size (36 x 24 mm / 1.42 x 0.94 in.) 32 About the Lens Image Stabilizer When you use the IS lens' built-in Image Stabilizer, camera shake is corrected to obtain a less blurred shot. The procedure explained here is based on the EF-S15-85mm f/3.5-5.6 IS USM lens as an example.

\* IS stands for Image Stabilizer. 1 Set the IS switch to <1>. Set the camera's power switch to <1>. 2 Press the shutter button halfway. The Image Stabilizer will operate. picture. 3 Take thethe picture looks steady in the When The Image Stabilizer is not effective for moving subjects. The Image Stabilizer may not be effective for excessive shaking such as on a rocking boat. With the EF28-135mm f/3.5-5.5.

6 IS USM lens, the Image Stabilizer will not be very effective while you move the camera to take panned shots. The Image Stabilizer can operate with the lens focus mode switch set to either <AF> or <MF>. If the camera is mounted on a tripod, you can save battery power by switching the IS switch to <2>. The Image Stabilizer can operate even when the camera is mounted on a monopod.



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Some IS lenses enable you to switch the IS mode manually to suit the shooting conditions. However, the EF-S15-85mm f/3.5-5.6 IS USM, EF-S18-135mm f/3.5-5.6 IS, and EF-S18-200mm f/3.

5-5.6 IS lenses switch the IS mode automatically. C PY O viewfinder, press the shutter button completely to take the picture. 33 Basic Operation Adjusting the Viewfinder Clarity Turn the diopter adjustment knob. Turn the knob left or right so that the AF points in the viewfinder look sharp. If the knob is difficult to turn, remove the eyecup (p.108). If the camera's diopter adjustment still cannot provide a sharp viewfinder image, using Diopter Adjustment Lens Eg (sold separately) is recommended. Holding the Camera To obtain sharp images, hold the camera still to minimize camera shake. C Horizontal shooting PY O Vertical shooting 1.

Wrap your right hand around the camera grip firmly. 2. Hold the lens bottom with your left hand. 3. Press the shutter button lightly with your right hand's index finger.

4. Press your arms and elbows lightly against the front of your body. 5. Press the camera against your face and look through the viewfinder. 6.

To maintain a stable stance, place one foot in front of the other. For shooting while looking at the LCD monitor, see page 131. 34 Basic Operation Shutter Button The shutter button has two steps. You can press the shutter button halfway. Then you can further press the shutter button completely. Pressing halfway This activates autofocus and automatic exposure metering that sets the shutter speed and aperture. The exposure setting (shutter speed and aperture) is displayed on the LCD panel and in the viewfinder (0). Pressing completely This releases the shutter and takes the picture. Preventing Camera Shake Camera movement during the moment of exposure is called camera shake. Camera shake can cause blurred pictures.

To prevent camera shake, note the following: · Hold and steady the camera as shown on the previous page. · Press the shutter button halfway to autofocus, then press the shutter button completely. C PY O In the d/s/f/a/F modes, pressing the <p> button will execute the same operation as pressing the shutter button halfway. If you press the shutter button completely without pressing it halfway first or if you press the shutter button halfway and then press it completely immediately, the camera will take a moment before it takes the picture. Even during the menu display, image playback, and image recording, you can instantly go back to shooting-ready by pressing the shutter button halfway. 35 Basic Operation 6 Making Selections with the Main Dial (1) After pressing a button, turn the <6> dial. When you press a button, its function remains selected for 6 seconds (9). During this time, you can turn the <6> dial to set the desired setting. When the function turns off or if you press the shutter button halfway, the camera will be ready to shoot. Use this dial to select or set the metering mode, AF mode, ISO speed, AF point, etc.

(2) Turn the <6> dial only. C While looking at the viewfinder or LCD panel, turn the <6> dial to set the desired setting. Use this dial to set the shutter speed, aperture, etc. PY O 9 Operating the Multi-controller The <9> consists of eight direction keys and a button at the center. Use it to select the AF point, correct the white balance, move the AF point or magnifying frame during Live View shooting, scroll the playback image during magnified view, operate the Quick Control screen, etc.

You can also use it to select or set menu options (except [3 Erase images] and [5 Format]). 36 Basic Operation 5 Making Selections with the Quick Control Dial Before using the <5> dial, set the Quick Control Dial switch to <J>. (1) After pressing a button, turn the <5> dial. When you press a button, its function remains selected for 6 seconds (9). During this time, you can turn the <5> dial to set the desired setting.

When the function turns off or if you press the shutter button halfway, the camera will be ready to shoot. Use this dial to select or set the white balance, drive mode, flash exposure compensation, AF point, etc. (2) Turn the <5> dial only. C While looking at the viewfinder or LCD panel, turn the <5> dial to set the desired setting. Use this dial to set the exposure compensation amount, the aperture setting for manual exposures, etc. PY O You can do step (1) even when the Quick Control Dial switch is set to <R>. U LCD Panel Illumination Turn on (9)/off the LCD panel illumination by pressing the <U> button. During a bulb exposure, pressing the shutter button completely will turn off the LCD panel illumination. 37 Q Using the Quick Control Screen The shooting settings are displayed on the LCD monitor where you can directly select and set the functions. This is called the Quick Control screen.

1 Display the Quick Control screen. Press the <Q> button. The Quick Control screen will appear (7). the desired setting. 2 SetUse <9> to select a function. In the <1> (Full Auto) mode, the image-recording quality (p.58) and the drive mode for single shooting or 10-sec. self-timer/remote control (p.93, 110) can be selected. The selected function is displayed on the screen's bottom.

Turn the <5> or <6> dial to change the setting. 1 (Full Auto) C d/s/f/a/F PY O picture. 3 Take the the shutter button completely to Press take the picture. The LCD monitor turns off and the captured image is displayed. Regarding the <C> (Creative Auto) mode, see page 53.

38 Q Using the Quick Control Screen Quick Control Screen Nomenclature Picture Style (p.64) Aperture (p.100) Shutter speed (p.98) Exposure compensation/AEB setting (p.105) ISO speed (p.

62) Highlight tone priority\* (p.209) Metering mode (p.103) Flash exposure compensation (p.113) Auto Lighting Optimizer (p.75) Custom Controls (p.215) Shooting mode\* (p.20) AF area selection mode (p.87) Image-recording quality (p.58) AF mode (p.84) White balance (p.

70) Asterisked functions cannot be set with the Quick Control screen. Function Setting Display C PY O Drive mode (p.93) <0> On the Quick Control screen, select the function and press <0>. The respective setting screen will then appear (except for the shutter speed and aperture). Turn the <5> or <6> dial to change the setting. Press <0> to finalize the setting and return to the Quick Control screen. 39 3 Menu Operations You can set various functions with the menus such as the imagerecording quality, date/time, etc. While looking at the LCD monitor, use the <M> button on the camera back and the <6> <5> dials. <M> button LCD monitor <6> Main Dial <5> Quick Control Dial <0> button Fully-Automatic Modes (1/C) Menu Screen \* Some menu tabs and menu items are not displayed in the fully-automatic modes.



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C PY O d/s/ff/a/F Menu Screen 3 Playback 1 Shooting Tab 5 Set-up 8 Custom Functions 9 My Menu Menu settings Menu items 40 3 Menu Operations Menu Setting Procedure 1 Display the menu.

Press the <M> button to display the menu. 2 Select a tab. dial to select a tab. Turn the <6> dial to select the <5> dial item. the item, Turn the to select then press <0>.

setting. 4 Select the <5> dial to select the Turn the C PY O desired setting. The current setting is indicated in blue. the setting. 5 SetPress desired set it. <0> to menu. 6 Exit the the <M> button to exit the Press menu and return to camera shooting. The explanation of menu functions hereinafter assumes that you have pressed the <M> button to display the menu screen. You can also use <9> to set menu settings. (Except for [3 Erase images] and [5 Format].) A list of menu functions is on page 238. 41 Before You Start 3 Setting the Interface Language 1 Select [LanguageK]. Under the [6] tab, select [LanguageK] (the third item from the top), then press <0>. the desired language. 2 SetTurn the <5> or <6> dial to select the language, then press <0>.

The interface language will change. 3 Setting the Date and Time Check if the camera's date and time are set correctly. If necessary, set the correct date and time. 1 C Select [Date/Time]. Under the [6] tab, select [Date/ Time], then press <0>. PY O the time date display format. 2 SetTurndate,<5> and to select the number. the dial Press <0> so is displayed. Turn the <5> dial to select the desired ). setting, then press <0> (Returns to setting.

3 Exit thethe <5> dial to select [OK], Turn then press <0>. The date/time will be set and the menu will reappear. It is important to set the correct date/time because it will be recorded together with each captured image. 42 Before You Start 3 Formatting the Card If the card is new or was previously formatted by another camera or personal computer, formatting the card with the camera is recommended. When the card is formatted, all images and data in the card will be erased.

Even protected images will be erased, so make sure there is nothing you need to keep. If necessary, transfer the images to a personal computer, etc., before formatting the card. 1 Select [Format]. Under the [5] tab, select [Format], then press <0>.

C 2 Select [OK]. dial to select [OK], Turn the <5> then press <0>. The card will be formatted. When the formatting is completed, the menu will reappear. PY O When the card is formatted or data is erased, only the file management information is changed. The actual data is not completely erased. Be aware of this when selling or discarding the card. When discarding the card, destroy the card physically to prevent personal data from being leaked. The card capacity displayed on the card format screen might be smaller than the capacity indicated on the card. 43 Before You Start 3 Set the Power-off Time/Auto Power Off You can change the auto power-off time for the camera to turn off automatically after a certain period of non-operation.

If you do not want the camera to turn off automatically, set this to [Off]. After the power turns off, you can turn on the camera again by pressing the shutter button or other button. 1 Select [Auto power off]. Under the [5] tab, select [Auto power off], then press <0>. the desired time. 2 SetTurn the <5> dial to select the setting, then press <0>. Even if [Off] has been set, the LCD monitor will turn off automatically after 30 min. to save power. (The camera's power does not turn off.) C PY O 44 Before You Start 3 Reverting the Camera to the Default SettingsN The camera's shooting settings and menu settings can be reverted to the default.

1 Select [Clear all camera settings]. Under the [7] tab, select [Clear all camera settings], then press <0>. 2 Select [OK]. dial to select [OK], Turn the <5> Shooting Settings AF mode AF area selection mode Metering mode ISO speed Drive mode One-Shot AF Auto selection 19-point AF q (Evaluative metering) A (Auto) u (Single shooting) C PY O Quality then press <0>. Setting [Clear all camera settings] will reset the camera to the following default settings: Image-recording Settings 73 1 73 Standard Standard Enable/ Correction data retained sRGB Q (Auto) Canceled Canceled Continuous Enable Erased One-touch RAW+JPEG Picture Style Auto Lighting Optimizer Peripheral illumination correction Color space White balance WB correction WB-BKT File numbering Auto cleaning Dust Delete Data Exposure Canceled compensation/AEB Flash exposure compensation Custom Functions 0 (Zero) Unchanged 45 Before You Start Camera Settings VF grid display Auto power off Beep Release shutter without card Review time Highlight alert AF point display Histogram Disable 1 min.

On Enable 2 sec. Disable Disable Brightness Live View Shooting Settings Live View shooting AF mode Grid display Exposure simulation Metering timer Enable Live mode Off Enable Silent shooting Mode 1 16 sec. Image jump w/6 10 images Auto rotate OnzD LCD brightness Date/Time Language Video system INFO. button display options Camera user setting Copyright information Auto: Standard Unchanged Unchanged Unchanged Movie Shooting Settings AF mode Live mode Off 1920x1080 6 All items selected Unchanged Unchanged C PY O Grid display Movierecording size Metering timer Sound recording On Silent shooting Mode 1 16 sec. My Menu settings Unchanged 46 Displaying the Grid and Electronic Level The grid and electronic level can be displayed to help keep the camera aimed straight.

The grid is displayed in the viewfinder, and the electronic level is displayed on the LCD monitor. Displaying the Grid 1 Select [VF grid display]. Under the [6] tab, select [VF grid display], then press <0>. 2 Select [Enable].dial to select [Enable], Turn the <5> C PY O then press <0>. The grid will be displayed in the viewfinder. The grid can also be displayed during Live View shooting and movie shooting (p.136, 156). 47 Displaying the Grid and Electronic Level Displaying the Electronic Level on the LCD Monitor 1 Press the <B> button. Each time you press the <B> button, the screen display will change.

Display the electronic level. If the electronic level does not appear, set the menu's [7 INFO. button display options] option to display the electronic level (p.228). the camera's roll pitch. 2 Checkhorizontal and verticalandare The tilt Vertical level Horizontal level C displayed in 1° increments. The red line turning green indicates that the tilt is corrected. PY O Even when the tilt is corrected, there is a margin of error of ±1°.



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If the camera is significantly tilted, the electronic level's margin of error will be greater. The electronic level can also be displayed during Live View shooting and movie shooting (p. 134, 152). The electronic level can also be displayed in the viewfinder using the AF point display (p.217, 218, 221).

48 Basic Shooting This chapter explains how to use the fully-automatic modes (1/C) on the Mode Dial for best results. With the fully-automatic modes (1/C), all you do is point and shoot and the camera sets everything automatically (p. 236). Also, to prevent botched pictures due to mistaken operations, major shooting settings cannot be changed in the fully-automatic modes.

C PY O Fullyautomatic modes About the Auto Lighting Optimizer In fully-automatic modes (1/C), the Auto Lighting Optimizer will adjust the image automatically to obtain the optimum brightness and contrast. The Auto Lighting Optimizer is also enabled by default in all shooting modes (p.75).

49 1 Fully Automatic Shooting 1 Area AF frame Set the Mode Dial to <1>. 2 Aim the Area AF frame over the target subject. All the AF points will be used to focus, and generally the closest object will be focused. Aiming the center of the Area AF frame over the subject will make focusing easier. 3 Focus the subject halfway, and Press the shutter button C Focus confirmation light the lens focusing ring will rotate to focus. The AF point(s) which achieve(s) focus will be displayed. At the same time, the beeper will sound and the focus confirmation light <o> in the viewfinder will light. Under low-light conditions, the viewfinder will flash in red to illuminate the AF point. If necessary, the built-in flash will pop up automatically.

PY O picture. 4 Take the shutter button completely to Press take the picture. The captured image will be displayed for about 2 sec. on the LCD monitor. If the built-in flash has popped up, you can push it back down with your fingers. 50 1 Fully Automatic Shooting FAQ The focus confirmation light <o> blinks and focus is not achieved. Aim the center of the Area AF frame over an area having good contrast, then press the shutter button halfway (p.92). If you are too close to the subject, move away and try again. Sometimes multiple AF points light up simultaneously.

All those AF points have achieved focus. As long as the AF point covering the desired subject lights up, you can take the picture. The beeper continues to beep softly. (The focus confirmation light <o> does not light.) It indicates that the camera is focusing continuously on a moving subject.

(The focus confirmation light <o> does not light.) You can shoot a moving subject in focus. Pressing the shutter button halfway does not focus the subject. If the focus mode switch on the lens is set to <MF> (Manual Focus), set it to <AF> (Auto Focus). Although it is daylight, the flash popped up.

For a backlit subject, the flash may pop up to help reduce the subject's dark shadow. C PY O In low light, the built-in flash fired a series of flashes. Pressing the shutter button halfway may trigger the built-in flash to fire a series of flashes to assist autofocus. This is called the AF-assist beam. It is effective up to approx. 4 meters/13.1 feet away. Although flash was used, the picture came out dark. The subject was too far away. The subject should be within 5 meters/16.

4 feet from the camera. When flash was used, the bottom part of the picture came out unnaturally dark. The subject was too close to the camera, and a shadow was created by the lens barrel. The subject should be at least 1 meter/3.3 feet away from the camera. If a hood has been attached to the lens, remove it before taking the flash picture. 51 1 Full Auto Techniques Recomposing the Shot Depending on the scene, position the subject toward the left or right to create a balanced background and good perspective. In the <1> (Full Auto) mode, while you press the shutter button halfway to focus a still subject, the focus will be locked. You can then recompose the shot and press the shutter button completely to take the picture. This is called "focus lock".

Shooting a Moving Subject C PY O In the <1> (Full Auto) mode, if the subject moves (distance to camera changes) during or after you focus, AI Servo AF will take effect to focus the subject continuously. As long as you keep aiming the AF point on the subject while pressing the shutter button halfway, the focusing will be continuous. When you want to take the picture, press the shutter button completely. 52 C Creative Auto Shooting The <1> Full Auto mode takes care of everything, whereas the <C> Creative Auto mode enables you to easily change the picture's brightness, depth of field, color tone (Picture Style), etc. The default settings are the same as the <1> (Full Auto) mode.

\* CA stands for Creative Auto. 1 Set the Mode Dial to <C>. The Creative Auto screen appears on the LCD monitor. <Q> button. 2 Press the use <9> to select a You can function.

(7) For details about each function, see page 54-55. C the desired setting. 3 SetUse <9> to select a function. A brief description of the selected function is displayed on the screen's bottom. Turn the <5> or <6> dial to change the setting. PY O picture. 4 Take the shutter button completely to Press take the picture. If you change the shooting mode or if the power turns off via auto power off (p.44) or by the power switch being set to <2>, the Creative Auto settings will revert to the default. However, the image-recording quality, self-timer and remote control settings will be retained.

53 C Creative Auto Shooting Shutter speed and aperture (1) (2) (3) (4) (6) (5) Possible shots Battery check Maximum burst (1) Flash firing <a> (Auto firing), <D> (Flash on), or <b> (Flash off) can be selected. (2) Blurring/sharpening the background If you move the index mark toward the left, the background will look more blurred. If you move it toward the right, the background will look more in focus. Depending on the lens and shooting conditions, the background might not look so blurred. This setting cannot be set (grayed out) while the built-in flash is popped up. When flash is used, it will not be applied. (3) Adjusting the picture brightness If you move the index mark toward the left, the picture will look darker. If you move it toward the right, the picture will look brighter. C PY O 54 C Creative Auto Shooting (4) Image effects Besides the standard image effect, you can set it for portraits, landscapes, or black-and-white photos. (p. 64: Picture Style) <P> (Standard): Standard image effect applicable to most scenes. <Q> (Smooth skin tones): Effective for close-ups of women or children. <R> (Vivid blues and greens): For impressive landscapes.



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<V> (Monochrome image): Creates black-and-white photos. (5) Single, continuous, and self-timer shooting <i> (Low-speed continuous shooting): Shoot continuously at a maximum of about 3 frames per second (fps).

<Q> (10-sec. self-timer/Remote control): See the "Using the Self-timer" note ( ) on p.94. Remote control shooting is also possible. (p. 110) \* By pressing the <o> button, you can display the [Drive mode] selection screen and set the same settings. (6) Image-recording quality C PY O To set the image-recording quality, see "Setting the Image-recording Quality" on page 58-60. By pressing <0>, you can display the [Quality] selection screen and set the same settings. 55 3 Setting the Image Review Time You can set how long the image is displayed on the LCD monitor immediately after capture. To keep the image displayed, set [Hold]. To not have the image displayed, set [Off]. 1 Select [Review time]. Under the [1] tab, select [Review time], then press <0>. the desired time. 2 SetTurn the <5> dial to select the setting, then press <0>.

C PY O If [Hold] is set, the image will be displayed until the auto power off time elapses. 56 Image Settings This chapter explains image-related function settings: Image-recording quality, ISO speed, Picture Style, white balance, Auto Lighting Optimizer, lens peripheral illumination correction, etc. In fully-automatic modes (I/C), only the imagerecording quality, lens peripheral illumination correction, and file numbering method can be set as explained in this chapter. Folders can also be created and selected. The M icon on the upper right of the page title indicates that the function can be used when the Mode Dial is set to <d/s/f/a/F>. C PY O 57 3 Setting the Image-recording Quality You can select the pixel count and the image quality. Six JPEG recording quality settings are provided: 73/83/74/84/76/86. Three RAW recording quality settings are provided: 1, 41, and 61. RAW images must be processed with the provided software (p.60).

1 Select [Quality]. Under the [1] tab, select [Quality], then press <0>. the 2 Selectselectimage-recording quality. To a RAW setting, turn the <6> dial. To select a JPEG setting, turn the <5> dial.

On the upper right, the "\*\*\*M (megapixels) \*\*\* x \*\*\*" number indicates the recorded pixel count, and [\*\*\*] is the number of possible shots (displayed up to 999). Press <0> to set it. Image-recording Quality Setting Examples 73 only C PY O 1 only 1+73 61+74 \* If [ ] is set for both RAW and JPEG, 73 will be set. 58 3 Setting the Image-recording Quality Guide to Image-recording Quality Settings (Approx.) Quality 73 83 JPEG Pixels (megapixels) Approx. 17.9 (17.9M) Approx. 8.0 (8M) Approx. 4.5 (4.5M) Approx. 17.9 (17.

9M) Approx. 10.1 (10M) Approx. 4.5 (4.5M) Approx. 17.9 Approx. 17.9 Approx. 10.1 Approx. 17.9 Approx. 4.

5 Approx. 17.9 Printing Size A2 or larger Around A3 Around A4 A2 or larger Around A3 Around A4 File Size Possible (MB) Shots 6.6 3.3 3. 5 1.8 2.2 1.1 25.1 17.1 11.4 593 1169 1122 2178 1739 3297 155 229 345 122 164 217 Maximum Burst 94 (126) 469 (1169) 454 (1122) 2178 (2178) 1739 (1739) 3297 (3297) 15 (15) 24 (24) 38 (38) 6 (6) 6 (6) 6 (6) 74 84 76 86 1 RAW 41 61 1 73 A2 or larger 25.1+6.6 A2 or larger Around A3 17.1+6.

6 A2 or larger 11.4+6.6 RAW 41 + 73 JPEG 61 73 Figures for the file size, possible shots, and maximum burst during continuous shooting are based on Canon's testing standards (ISO 100 and Standard Picture Style) using a 4GB card. These figures will vary depending on the subject, card brand, ISO speed, Picture Style, Custom Functions, etc. The maximum burst applies to high-speed continuous shooting. Figures in parentheses apply to an Ultra DMA (UDMA) 4GB card based on Canon's testing standards. C Around A4 A2 or larger PY O If you select both RAW and JPEG, the same image will be recorded simultaneously to the card in both types at the selected image-recording quality. The two images will be saved in the same folder with the same file numbers (file extension .JPG for JPEG and .CR2 for RAW).

The icons are read as follows: 1 (RAW), 41 (Medium RAW), 61 (Small RAW), JPEG, 7 (Fine), 8 (Normal), 3 (Large), 4 (Medium), and 6 (Small). 59 3 Setting the Image-recording Quality About RAW A RAW image is the data output by the image sensor, converted to digital data and recorded on the card as is. You can select from 1, 41, or 61 (Commonly referred as RAW in this manual). With RAW images, you can use the provided software to make various adjustments as desired and then generate a JPEG, TIFF, etc., image.

Commercially-available software might not be able to display RAW images. Using the provided software is recommended. Maximum Burst During Continuous Shooting The maximum burst during continuous shooting indicated on the preceding page is the number of continuous shots that can be taken without stopping, based on a formatted 4GB card. The number is displayed on the bottom right in the viewfinder. If the maximum burst is 99 or higher, "99" will be displayed.

C PY O The maximum burst is displayed even when a card is not inserted in the camera. Make sure that a card is loaded before taking a picture. If [8C.Fn II -2: High ISO speed noise reduction] is set to [2: Strong], the maximum burst will be greatly reduced (p.208). If the viewfinder displays "99" for the maximum burst, it means the maximum burst is 99 or higher. If the maximum burst decreases to 98 or lower and the internal buffer memory becomes full, "buSY" will be displayed in the viewfinder and on the LCD panel and shooting will be disabled temporarily. If you stop the continuous shooting, the maximum burst will increase. After all the captured images are written to the card, the maximum burst will be as listed on page 59. 60 3 Setting the Image-recording Quality One-touch RAW+JPEGN If the current recording quality is JPEG only, you can press the <P> button to also capture a RAW image (1 by default) at the same time.

If the current recording quality is RAW only, press the button to also capture a JPEG image (73 by default). This button will not work if the camera is already set (p.58) to capture RAW and JPEG images at the same time. 1 Select [One-touch RAW+JPEG]. Under the [y] tab, select [Onetouch RAW+JPEG], then press <0>. JPEG. 2 Select RAW or dial and select RAW or Turn the <5> C 3 Select the image-recording quality. Turn the <5> dial to select the imagerecording quality, then press <0>. PY O JPEG, then press <0>. picture.

4 Take thethe <P> button. Press The image-recording quality will blink on the LCD panel. To cancel the setting, press the <P> button again. Press the shutter button completely to take the picture. After the picture is taken, the setting will be canceled.



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This setting can also be combined with white balance bracketing and AEB shooting. You can also cancel the setting by pressing the <Q>, <M>, <A>, or <x> button or operating the Live View shooting/Movie shooting switch or power switch. 61 i: Setting the ISO SpeedN Set the ISO speed (image sensor's sensitivity to light) to suit the ambient light level. In the fully-automatic modes (1/C), the ISO speed is set automatically (p.63).

1 Press the <m> button. (9) the 2 SetWhile ISO speed. LCD panel or looking at the viewfinder, turn the <6> dial. It can be set within ISO 100-6400 in 1/3-stop increments. With "A" selected, the ISO speed will be set automatically (p.63). ISO Speed Guide ISO Speed 100 - 400 400 - 1600 1600 - 6400, H Shooting Situation (No flash) Sunny outdoors C PY O Flash Range Overcast skies or evening time Dark indoors or night The higher the ISO speed, the farther the flash range will be (p.112). If [8C.Fn II -3: Highlight tone priority] is set to [1: Enable], the settable ISO speed range will be ISO 200 - 6400 (p.209).

Using a high ISO speed or shooting in high-temperature conditions may result in more grainy images. Long exposures can also cause irregular colors in the image. When you shoot at high ISO speeds, noise (horizontal banding, dots of light, etc.) may appear. With [8C.Fn I -3: ISO expansion] set to [1: On], "H" (equivalent to ISO 12800) can also be set (p.206). 62 i: Setting the ISO SpeedN About "A" (Auto) ISO Speed If the ISO speed is set to "A", the actual ISO speed to be set will be displayed when you press the shutter button halfway. As indicated below, the ISO speed will be set automatically to suit the shooting mode.

Shooting Mode 1/C/d/s/ff/a F With flash ISO 100 - 3200 Fixed at ISO 400 Fixed at ISO 400\* ISO Speed Setting \* If fill flash results in overexposure, ISO 100 or a higher ISO will be set. \* If the shooting mode is <d> or fully-automatic (1/C) and bounce flash is used with an external Speedlite, the ISO speed will be set automatically within 400 - 1600. C PY O 63 A Selecting a Picture StyleN By selecting a Picture Style, you can obtain image effects matching your photographic expression or the subject. In the <1> (Full Auto) mode, you cannot select the Picture Style. 1 Press the <A> button. When the camera is ready to shoot, press the <A> button. The Picture Style screen will appear. Style. 2 Select a Picture or <5> dial to select Turn the <6> a Picture Style, then press <0>. The Picture Style will take effect and the camera will be ready to shoot.

You can also use the [2 Picture Style] menu to select the Picture Style. Picture Style Effects C PY O P Standard (C: Standard) The image looks vivid, sharp, and crisp. This is a general-purpose Picture Style suitable for most scenes. This is set automatically in the <1> (Full Auto) mode. Q Portrait (C: Smooth skin tones) For nice skin tones. The image looks softer. Effective for close-ups of women or children. By changing the [Color tone] (p.66), you can adjust the skin tone. R Landscape (C: Vivid blues and greens) For vivid blues and greens, and very sharp and crisp images.

Effective for impressive landscapes. 64 A Selecting a Picture StyleN S Neutral This Picture Style is for users who prefer to process images with their computer. For natural colors and subdued images. U Faithful This Picture Style is for users who prefer to process images with their computer. When the subject is captured under a daylight color temperature of 5200K, the color is adjusted colorimetrically to match the subject's color. The image is dull and subdued. V Monochrome (C: Monochrome image) Creates black-and-white images. Black-and-white images shot in JPEG cannot be reverted to color. If you want to later shoot pictures in color, make sure the [Monochrome] setting has been canceled. When [Monochrome] is selected, <0> will appear in the viewfinder and on the LCD panel.

W User Def. 1-3 You can register a basic style such as [Portrait], [Landscape], a Picture Style file, etc., and adjust it as desired (p.68). Any UserDefined Picture Style which has not been set will have the same settings as the Standard Picture Style.

C PY O g h i j k l Sharpness Contrast Saturation Color tone About the Symbols The symbols on the top of the Picture Style selection screen refer to parameters such as [Sharpness] and [Contrast]. The numerals indicate the parameter settings, such as [Sharpness] and [Contrast], for each Picture Style. Symbols Filter effect (Monochrome) Toning effect (Monochrome) 65 A Customizing a Picture StyleN You can customize a Picture Style by adjusting individual parameters like [Sharpness] and [Contrast]. To see the resulting effects, take test shots. To customize [Monochrome], see the next page. 1 Press the <A> button. Style. 2 Select a Picture or <5> dial to select Turn the <6> a Picture Style, then press the <B> button. 3 Select a parameter to select the Turn the <5> dial parameter, then press <0>. the parameter. 4 SetTurn the <5> dial to set the parameter as desired, then press <0>. Press the <M> button to save the adjusted parameter. The Picture Style selection screen will reappear. Any settings different from the default will be displayed in blue.

C PY O Parameter Settings and Effects g Sharpness h Contrast i Saturation j Color tone 0: Less sharp outline -4: Low contrast -4: Low saturation -4: Reddish skin tone +7: Sharp outline +4: High contrast +4: High saturation +4: Yellowish skin tone 66 A Customizing a Picture StyleN By selecting [Default set.] in step 3, you can revert the respective Picture Style to its default parameter settings. To shoot with the Picture Style you modified, follow step 2 on the preceding page to select the modified Picture Style and then shoot. Monochrome Adjustment For Monochrome, you can also set [Filter effect] and [Toning effect] in addition to [Sharpness] and [Contrast] explained on the preceding page. kFilter Effect With a filter effect applied to a monochrome image, you can make white clouds or green trees stand out more. Filter N: None Ye: Yellow Or: Orange R: Red G: Green Normal black-and-white image with no filter effects. The blue sky will look more natural, and the white clouds will look crisper. The blue sky will look slightly darker. The sunset will look more brilliant. The blue sky will look quite dark.

Fall leaves will look crisper and brighter. Skin tones and lips will look fine. Tree leaves will look crisper and brighter. C PY O Sample Effects Increasing the [Contrast] will make the filter effect more pronounced. lToning Effect By applying a toning effect, you can create a monochrome image in that color. It can make the image look more impressive. The following can be selected: [N:None] [S:Sepia] [B:Blue] [P:Purple] [G:Green].



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