

Hey there, I'm kindof puzzled as to what's going on with my 80D. I've started working with manual mode, first for moon shots with a tripod and connected via the canon app using my phone as a remote. Everything works fine, shutter speeds are regarded and I get beautiful, detailed pictures of the moon. However, when I try to use the camera in manual mode, let's say for wildlife photography - without a remote - shutter stays open until I press the shutter stays op Manual Instruction manuals (PDF files) and software can be downloaded from the Canon website (p.4, 513). www.canon.com/icpd ENGLISH... Introduction The EOS 80D (W) is a digital single-lens reflex camera featuring a fine- detail CMOS sensor with approx. 24.2 effective megapixels, DIGIC 6, high-precision and high-speed 45-point AF (Cross-type AF point: Max. 45 points), max. approx. 7.0 fps continuous shooting, Full High-Definition (Full HD) movie shooting, and wireless functions (Wi-Fi/NFC). Be careful not to lose any of the above items. * For items sold separately, see System Map (p.468). When you need Lens Instruction Manuals, download them from the Canon website (p.4). The lens instruction manuals (PDF) are for lenses sold individually. Note that when purchasing the lens kit, some of the accessories included with the lens may not match those listed in the Lens Instruction Manual. (PDF) files). Connect to the Internet and access the following Canon website. www.canon.com/icpd Select your country or region of residence and download the ... Compatible Cards The following cards can be used with the camera regardless of capacity: If the card is new or was previously formatted by another camera or computer, format the card with this camera (p.64). SD/SDHC*/SDXC* memory cards * UHS-I cards supported. Cards that Can Record Movies When shooting movies, use a large-capacity card with a reading/writing speed class at least as high as shown in the following table. Quick Start Guide Insert the battery (p.36) To charge the battery, see page 34. Insert the card (p.37) With the card's label facing toward the back of the camera, insert it into the card slot. Attach the lens (p.47) White index Red index Align the lens's white or red mount index with the camera's mount... Page 7 Quick Start Guide Flip out the LCD monitor (p.40) When the LCD monitor (p.40 subject (p.50) Look through the viewfinder and aim the viewfinder center over the subject. Press the shutter button halfway, and the camera will focus on the subject. Conventions Used in this Manual : Indicates the Main Dial. : Indicates the Multi-controller and the push direction. : Indicates the Setting button. : Indicates that each function remains 0, 9, 7, 8 active for approx. Chapters Introduction Getting Started Basic Shooting With the LCD Monitor (Live View Shooting) Shooting Movies Image Playback Post-Processing Images Sensor 124 AF Sensor120 AF Area Selection Modes..... ..190 s: Shutter-Priority AE194 Depth-of-Field Preview...... ..203 F: Bulb Exposures Page 14 Contents Menu Function on a TV Set.373 K Protecting Images Troubleshooting Guide Index to Features Power LCD Monitor Charging the battery p.34 Brightness adjustment p.386 Battery level p.42 Touch screen p.61 Checking battery level p.42 Touch screen p.64 Checking battery level p.42 Touch screen p.64 Checking battery level p.456 ... Page 18 Index to Features Image Quality Exposure Image-recording quality p.142 Exposure compensation p.200 ISO speed p.148 Exposure compensation with M+ISO Auto p.197 Picture Style p.154 p.201 AEB White balance p.162 AE lock p.203 Auto Lighting Optimizer ... Page 19 Index to Features Image Editing Creative filters for movies p.316 RAW image processing p.390 Video snapshot p.333 Resizing JPEGs p.395 Time-lapse movie p.319 Cropping JPEGs p.397 Movie Servo AF speed p.329 Creative filters ... Make sure to thoroughly understand and follow these precautions, problems, or damage to the product. If you experience any malfunctions, problems, or damage to the product. purchased the product. Follow the warnings below. Otherwise, death or Warnings: serious injuries may result. Page 21 Safety Precautions When the camera or accessories are not in use, make sure to remove the battery, and disconnect the power plug and connecting cables from the equipment before storing. This is to prevent electrical shock, excessive heat, fire, and corrosion. Do not use the equipment where there is flammable gas. Page 22 Safety Precautions Follow the cautions below. Otherwise, physical injury Cautions: or property damage may result. Do not use or store the product in a high-temperature location such as inside a car under the hot sun. The product may become hot and cause burns. Doing so may also cause battery leakage or explosion, which will degrade the performance or shorten the life of the product. The camera into water, promptly consult the nearest Canon Service Center. Wipe off any water droplets with a dry and clean cloth. If the camera has been exposed to salty air, wipe it with a clean, well-wrung wet cloth. Page 24 If you have not used the camera checked by your nearest Canon Service Center or check the camera yourself and make sure it is working properly. Page 25 Handling Precautions Cards To protect the card and its recorded data, note the following: Do not drop, bend, or wet the card. Do not touch the card's electronic contacts with your fingers or anything ... Nomenclature LCD panel (p.28) Drive mode selection button (p.138) AF operation selection button (p.116) ISO speed setting button (p.148) Built-in flash/AF-assist beam emitter (p.228/119) Metering mode selection EF-S lens mount index (p.47) Mode button (p.121) Flash sync contacts... Page 27 Nomenclature AF start button Focal plane mark (p.97) (p.50, 116, 257, 303) Live View shooting/ Movie shooting switch (p.256/294) AE lock/FE lock button/ Start/Stop button (p.203, 232/353, 355) Speaker (p.365) Eyecup (p.220) ... Nomenclature LCD Panel Drive mode (p.138) Highlight tone priority (p.174) u Single shooting ISO speed (p.148) o High-speed continuous shooting ISO speed (p.148) i Low-speed continuous shooting Possible shots B Silent single shooting Self-timer: 10 sec./remote Error number/Error code (Err) Nomenclature Viewfinder Information Single-point AF Zone AF (Manual selection of zone) (Manual selection) (p.120) (p.120) (p.120) AF point (p.120) (p.120) AF point (p.120) AF point automatic Area AF frame selection AF (p.120) (p.120) AF point (p.120) (p.120) AF point (p.120 center (Mode Dial lock-release button). Basic Zone All you do is press the shutter button. The camera sets everything to suit the subject or scene for shooting. A : Scene Intelligent Auto (p.83) C : Creative Auto (p.84) Page 31 Nomenclature Creative Zone These modes give you more control for shooting various subjects as desired. Program AE (p.190) s : Shutter-priority AE (p.192) f : Aperture-priority AE (p.194) a : Manual exposure (p.196) : Bulb (p.204) Custom shooting mode (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (p.445). Page 32 Nomenclature Battery Pack LP-E6N/LP-60 (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (p.445). Page 32 Nomenclature Battery Pack LP-E6N/LP-60 (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (p.445). Page 32 Nomenclature Battery Pack LP-E6N/LP-60 (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (p.445). Page 32 Nomenclature Battery Pack LP-E6N/LP-60 (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (p.445). Page 32 Nomenclature Battery Pack LP-E6N/LP-60 (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (p.445). Page 32 Nomenclature Battery Pack LP-E6N/LP-60 (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (p.445). Page 32 Nomenclature Battery Pack LP-E6N/LP-60 (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (p.445). Page 32 Nomenclature Battery Pack LP-E6N/LP-60 (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (p.445). Page 32 Nomenclature Battery Pack LP-E6N/LP-60 (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (d/s/f/a/F), AF operation, menu settings, etc., to w, x Mode Dial positions (d/s/f/a/F), AF operation, E6 (p.34). Power plug Battery pack slot Charge lamp IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS. For connection to a supply not in the U.S.A., use an attachment plug adapter of the proper configuration for the power outlet, if needed. Getting Started This chapter explains preparatory steps before you start shooting and basic camera operations. Attaching the Strap mount eyelet from the bottom. Then pass it through the strap's buckle as shown in the illustration. Charging the Battery Remove the protective cover. Detach the protective cover provided with the battery. Attach the battery. As shown in the illustration, attach the battery follow the above procedure in reverse. Recharge the battery. Page 35 Charging the Battery Tips for Using the Battery and Charger Upon purchase, the battery is not fully charged. Charge the battery before use. Recharged Battery and Removing the Battery is installed, and darkens when the battery is removed. If the battery is not installed, the picture in the viewfinder becomes blurred and focus cannot be achieved. Installing and Removing the Card You can use an SD, SDHC, or SDXC memory cards with UHS-I can also be used. The captured images are recorded onto the card. Make sure the card's write-protect switch is set upward to enable writing and erasing. Installing and Removing the Card The number of possible shots depends on the remaining capacity of the card, image-recording quality, ISO speed, etc. Setting [z1: Release shutter without card] to [Disable] will prevent you from shooting without a card inserted (p.470). Removing the Card Open the cover. Page 39 Installing and Removing the Card When the access lamp is lit or blinking, it indicates that images are being written to, read from, or erased from the card, or data is being transferred. Do not open the card slot cover during this time. Also, never do any of the following while the access lamp is lit or blinking. Using the LCD Monitor After you flip out the LCD monitor, you can set menu functions, use Live View shooting, shoot movies, or play back images and movies. You can change the direction and angle of the LCD monitor. Flip out the LCD monitor. F date/time/zone setting screen appears, see page 43 to set the date/time/zone. : The camera turns on. : The camera turns on. : The camera turns on the Power z Battery Level Indicator When the power z Battery Level Indicator When the power switch is set to , the battery level will be indicated in one of six levels. A blinking battery icon (b) indicates that the battery will be exhausted soon. Display Level (%) 100 - 70 69 - 50 49 - 20 19 - 10.9 - 1... Setting the Date, Time, and Zone When you turn on the power for the first time or if the date/time/zone have been reset, the date/time/zone setting screen will appear. Follow the steps below to set the time zone first. Set the camera to the time zone in which you currently live so that, when you travel, you can simply change the setting to the correct time zone for your destination, and the camera will automatically adjust the date/time. Page 44 3 Setting the Date, Time, and Zone Select the [Zone] box, then press . If you do not see your time zone, you can also set the time difference with UTC directly. Page 45 3 Setting the Date, Time, and Zone Exit the setting. Press the keys to select [OK], then press. The date/time/zone and daylight saving time will be set and the menu will reappear. The date/time/zone settings may be reset in the following cases. If this happens, set the date/time/zone again. Selecting the Interface Language Display the menu screen. Press the button to display the menu screen. Under the [5] tab. Press the button and select the [5] tab. Press the button to display the menu screen. used with EF-M lenses. Attaching a Lens Remove the caps. Remove the rear lens cap and the body cap by turning them as shown by the arrows. Attaching and Detaching a Lens Zooming 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. Detaching the Lens While pressing the lens release button, turn the lens as shown by the arrow. Basic Operation Adjustment knob. Turn the knob left or right so that the AF points in the viewfinder look the sharpest. If the knob is difficult to turn, remove the eyecup (p.220). If the camera dioptric adjustment still cannot provide a sharp viewfinder image, using E-series Dioptric Adjustment Lenses (sold separately) is recommended. Basic Operation Shutter button halfway. Then you can further press the shutter button halfway This activates autofocusing and the automatic exposure system that sets the shutter speed and aperture. The exposure setting (shutter speed and aperture) is displayed in the viewfinder and on the LCD panel (0). Basic Operation Mode Dial Turn the dial while holding down the lock release button at the center of the dial. Use it to set the shooting mode. Main Dial After pressing a button, turn the dial. When you press a button such as ... Page 52 Basic Operation Quick Control Dial After pressing a button, turn the dial to set the desired setting. Page 53 Basic Operation Multicontroller The Multi-controller has eight keys that tilt in the directions shown by the arrows. Use the eight keys to select the AF point, correct the white balance, move the AF point, correct the white balance, move the AF point or magnifying frame during layback. Basic Operation R Multi Function Lock With [54] Multi function lock] set and the switch set upward, the camera prevents you from changing settings inadvertently by moving the LCD panel ... Basic Operation U LCD Panel Illumination You can illuminate the LCD panel by pressing the button. Turn on (9) or off the LCD panel illumination by pressing the button. During a bulb exposure, pressing the shutter button completely will turn off the LCD panel illumination. Q Quick Control for Shooting Functions You can directly select and set the shooting functions displayed on the LCD monitor. This is called Quick Control. Press the button The Quick Control screen will appear Set the desired function. Press the ... Q Quick Control for Shooting Functions Sample Quick Control Screen Aperture (p.194) Flash exposure compensation (p.230) Shooting mode (p.30) Highlight tone priority (p.174) Exposure ISO speed (p.148) compensation/ AEB setting Wi-Fi function (p.200/201) Custom Controls (p.433) Picture Style (p.154) AF operation (p.116) Image-recording quality... Menu Operations You can set various settings with the menus such as the image- recording quality... Menu Operations You can set various settings with the menus such as the image- recording quality... Menus in Creative Zone Modes : Set-up : Playback... Page 59 3 Menu Operations Menu Setting Procedure Display the menu screen. Press the button, the main tab (group of functions) will switch. Press the keys to select a ... Page 60 3 Menu Operations In step 2, you can also turn the dial to select a menu tab. In step 4, you can also turn the dial to select certain settings. In steps 2 to 5, you can also use the LCD monitor's touch screen (p.61). ... d Using the Touch Screen The LCD monitor's touch screen (p.61). briefly and then remove your finger from) the LCD monitor. By tapping, you can select menus, ... Page 62 d Using the Touch Screen Drag Sample Display (Scale display) Operations possible by dragging your finger on the screen Selecting a menu tab or item after pressing the button ... Page 63 d Using the Touch Screen 3 Touch Control Settings Select [Touch control]. Under the [53] tab, select [Touch control]. Under the [53] tab, select [Touch control], then press . Set the touch control]. formatted by another camera or computer, format the card with this camera. When the card is formatted, all images and data on the card will be erased. Page 65 Before You Start Format the card is new. The card is new. The card was formatted by a different camera or a computer. The card is full of images or data. A card-related error is displayed (p.496). ... Before You Start 3 Disabling the Beeper You can prevent the beeper from sounding when focus is achieved, during self-timer shooting, and for touch screen operations. Select [Beep]. Under the [z1] tab, select [Beep]. Under the [z1] tab, select [Beep]. Time You can set how long the image is displayed on the LCD monitor immediately after shooting. To keep the image displayed, set [Hold]. To not have the image displayed, set [Off]. Select [Image review]. Before You Start 3 Reverting the Camera to the Default SettingsN The camera's shooting function settings can be reverted to their defaults. Select [Clear all camera settings]. Under the [54] tab, select [Clear all camera settings], then press . Select [OK]. Before You Start Image Recording Settings Camera Settings Image quality Auto power off 1 min. Aspect ratio Beep Enable Picture Style Auto Release shutter without card Enable Image review 2 sec. Auto Lighting Standard Optimizer Highlight alert Disable Lens aberration correction AF point display Disable Playback grid... Before You Start Live View Shooting Settings u+Tracking AF operation Minimum: 100 Range for movies Maximum: 12800 Touch shutter Disable Grid display Hide Movie Servo AF Enable AF method Exposure u+Tracking... Displaying the Grid Vou can display]. Under the [52] tab, select [Viewfinder display], then press . Select [Show]. ... Q Displaying the Electronic Level You can display the electronic level on the LCD monitor and in the viewfinder to help you correct the camera tilt. Note that you can check only the horizontal tilt and not the forward/backward tilt. Displaying the Electronic Level on the LCD Monitor Press the ... Q Displaying the Electronic Level 3 Displaying the Electronic Level in the Viewfinder A simple electronic level using a camera icon can be displayed in the viewfinder. Since this indicator is displayed during shooting, you can take the picture while checking the Flicker Detection is displayed by the blinking of the light source. By default, flicker detection is set to [Show]. Select [Viewfinder display]. Under the [52] tab, select ... Feature Guide and Help The Feature Guide and shooting, movie shooting, or Quick Control for playback, and displays a brief description of that mode, function or option. Feature Guide and Help v Help When [zHelp] is displayed at the bottom of the menu screen, pressing the button displays the function's description (Help). If the Help fills more than one screen, a scroll bar will appear on the right edge. Basic Shooting This chapter explains how to use the Basic Zone modes on the Mode Dial for best results. With Basic Zone modes, all you do is point and shoot, and the camera sets everything automatically (p.107, 460). Also, to prevent botched pictures due to misoperations, advanced shooting function settings cannot be changed. A Fully (Scene Intelligent Auto) is a fully automatic mode. The camera analyzes the scene and sets the optimum settings automatically by detecting whether the subject is still or moving (p.81). Set the Mode Dial to . Turn the Mode Dial while holding Intelligent Auto) Take the picture. Press the shutter button completely to take the picture. The captured image will be displayed for approx. 2 sec. on the LCD monitor. After you finish shooting, push down ... A Fully Automatic Shooting (Scene Intelligent Auto) The beeper continues to beep softly. (The focus indicator does not light up.) It indicates that the camera is focusing continuously on a moving subject. (The focus indicator does not light up.) You can take sharp pictures of a moving subject toward the left or right to create a balanced background and good perspective. In the mode, pressing the shutter button halfway to focus on a still subject will lock the focus on that subject. A Full Auto Techniques (Scene Intelligent Auto) A Live View shooting You can shoot while viewing the image on the LCD monitor. This is called "Live View shooting." For details, see page 255. Set the Live View shooting/Movie shooting switch to . Display the Live View image on the LCD monitor. 7 Disabling Flash The camera analyzes the scene and sets the optimum settings automatically. In places where flash Off) mode. Shooting Tips Prevent camera shake if the numeric display (shutter speed) in ... C Creative Auto Shooting In the mode, you can set the following functions for shooting: (1) Ambience-based shots, (2) Background blur, (3) Drive mode, and (4) Built-in flash firing. The default settings are the same as the mode. * CA stands for Creative Auto. Page 85 C Creative Aut recording quality If you set (1) or (2) when the camera is set for Live View shooting, you can see the effect on the screen before you want to convey in your images. Page 86 C Creative Auto Shooting (2) Background blur • If [OFF] is set, the degree of background blur will change depending on the brightness. •... Page 87 C Creative Auto Shooting (3) Drive mode: Use the or dial to make the selection. You can also select it from a list by pressing . Single shooting: Shoot one image at a time. High-speed continuous shooting: While you hold down the shutter button completely, shots will be taken continuously. 8: Special Scene Mode The camera will automatically choose the appropriate settings when you select a shooting mode for your subject or scene. Set the Mode Dial to . Press the button the shutter button completely, shots will be taken continuously. 8: Special Scene Mode The camera will automatically choose the appropriate settings when you select a shooting mode for your subject or scene. Set the Mode Dial to . Press the button the shutter button completely, shots will be taken continuously. 8: Special Scene Mode The camera will automatically choose the appropriate settings when you select a shooting mode. P Shooting Food When shooting food, use (Food). The photo will look bright and appetizing. Also, depending on the light source, the reddish tinge will be suppressed in the pictures taken under tungsten lights, etc. Shooting Tips Change the color tone. ... C Shooting Tips Change the color tone. ... C Shooting Tips Change the color tone. around, use (Kids). Skin tones will look healthy. Shooting Tips Track the subject with the Area AF frame. Y look healthy. Shooting Tips Track the subject in candlelight, use (Candlelight, use (Candlelight, use (Candlelight, use in candlelight). The candlelight color tones will be retained in the photo. Shooting Tips Use the center AF point to focus. Aim the center AF point in the viewfinder over the subject, then shoot. Prevent camera shake if the numeric display (shutter speed) in ... 6 Shooting Night Portraits (With a Tripod) To shoot people at night and obtain a natural-looking night scene in the background, use the (Night Portrait) mode. Using a tripod is recommended. Shooting Tips Use a wide-angle lens and a tripod. ... F Shooting Night Scenes (Handheld) Using a tripod when shooting mode, four shots are taken continuously for each picture, and the resulting one image with reduced camera shake is recorded. G Shooting Backlit Scenes When shooting a scene having both bright and dark areas, use the (HDR Backlight Control) mode. When you take one picture in this mode, three continuous shots are taken at different exposures. This results in one image, with a wide tonal range, that has minimized the clipped shadows caused by backlighting. 2 Shooting Portraits The (Portrait) mode blurs the background to make the human subject stand out. It also makes skin tones and hair look softer. Shooting Tips Select the location where the distance between the subject stand out. It also makes skin tones and hair look softer. distance between the subject and background, the more blurred the background will look. 3 Shooting Landscapes Use the (Landscape) mode for wide scenery or to have everything in focus from near to far. For vivid blues and greens, and very sharp and crisp images. When you want to shoot flowers or small things up close, use the (Close-up) mode. To make small things appear much larger, use a macro lens (sold separately). Shooting Moving Subjects Use the (Sports) mode to shoot a moving subject, such as a running person or a moving vehicle. Shooting Tips Use a telephoto lens. The use of a telephoto lens is recommended for shooting, the image quality can be set to 1 or JPEG. If 41 or 61 is set, the image will be recorded in 1 quality. During Live View shooting, if flash is fired in continuous shooting, the ... Cautions for Handheld Night Scene When shooting with flash, if the subject is too close to the camera, the picture may come out extremely bright (overexposure). If you use flash to shoot a night scene with few lights, the shots may not ... v Applying Creative Filters In the (Creative filter) mode, you can apply one of ten filter effects (Grainy B/W*, Soft focus*, Fish-eye effect*, Monoting, vou can see the effect on the screen before you start shooting. v Applying Creative Filters Select a shooting mode. Press the or keys to select a shooting mode, then press and select [OK]. The image will be displayed with the effects of the filter applied. For the Miniature effect, press the ... v Applying Creative Filters You cannot select RAW or RAW+JPEG is set, the image will be recorded in the set JPEG quality. When , , , , , or is set, continuous ... v Applying Creative Filters X Fish-eye effect Gives the effect of a fish-eye lens. The image will have a barrel-type distortion. Depending on the level of this filter effect, the area trimmed along the periphery of the image changes. Also, since this filter expands the center part of the image, the resolution at the center may decrease depending on the number of recorded pixels. v Applying Creative Filters B HDR art vivid The colors are more saturated, making the subject pop out, and the picture look like an oil painting. Q Quick Control In Basic Zone modes, when the shooting function settings are displayed, you can press the button to display the Quick Control screen. The tables on the next page show the functions that can be set with the Quick Control screen in each Basic Zone mode. Set the Mode Dial to a Basic Zone mode. Page 107 Q Quick Control Settable Functions in Basic Zone Modes : Default setting : User selectable Function A 7 C u: Single shooting (p.138) M: Silent continuous shooting i: Low-speed continuous shooting i: Low-speed continuous shooting i: Low-speed continuous shooting Drive mode B: Silent single shooting (p.138) M: Silent continuous shooting i: Low-speed continuous shooting i: Low-speed continuous shooting Drive mode B: Silent single shooting (p.138) M: Silent continuous shooting i: Low-speed continuous shooting i: Low-speed continuous shooting Drive mode B: Silent single shooting (p.138) M: Silent continuous shooting i: Low-speed continuous shooting i: Low-speed continuous shooting Drive mode B: Silent single shooting (p.138) M: Silent continuous shooting (p.138) M: Silent continuous shooting i: Low-speed continuous shooting Drive mode B: Silent single shooting (p.138) M: Silent continuous shooting (p.138) M: S firing... Shooting with Ambience Selection In Basic Zone modes, when a mode other than , , , and is set, you can select the ambience for shooting. Ambience for shooting. Ambience Selection Set the ambience for shooting with Ambience Selection Set the ambience for shooting. effect. Press the keys to select the effect so that [Effect] appears at the bottom of the screen. Press the keys to select the desired effect. Take the picture. Press the shutter button completely to ... Page 110 Shooting with Ambience Selection Ambience Selec that has image characteristics geared for portraits and is geared for landscapes. Each ambience is a modification of the respective shooting with Ambience Selection 7 Brighter The picture will look sharp and vivid. Page 111 Shooting with Ambience Selection 7 Brighter The picture will look sharp and vivid. Monochrome The picture will be monochrome. You can select the monochrome color to be blue, black and white, or sepia. When [Monochrome] is selected, ... Shooting by Lighting or Scene type. Normally, [e Default setting] is adequate, but if the settings matching the lighting or Scene type. match the lighting condition or scene, the picture will look more accurate to your eyes. Page 113 Shooting by Lighting or Scene Type With Quick Control, select [e Default setting]. [Light/scene- based shots] will appear on the screen. Press the ... Page 114 Shooting by Lighting by Lighting or Scene Type With Quick Control, select the lighting or scene type. Press the keys to select [e Default setting]. [Light/scene- based shots] will appear on the screen. Press the ... Page 114 Shooting by Lighting by Lighting by Lighting by Lighting or Scene Type With Quick Control, select the lig or Scene Type Lighting or Scene Type Settings eDefault setting Default setting suited for most subjects. fDaylight For subjects in the shade. Suitable for skin tones, which may look too bluish, and for light-colored flowers. Setting the AF and Drive Modes The AF points in the viewfinder are arranged to make AF shooting suitable for a wide variety of subjects and scenes. You can also select the AF operation and drive mode that best match the shooting suitable for a wide variety of subjects and scenes. OperationN You can select the AF operation characteristics to suit the shooting mode. Set the lens's focus mode switch to . f: Selecting the AF OperationN One-Shot AF for Still Subjects Suited for still subjects. When you press the shutter button halfway, the camera will focus only once. When focus is achieved, the AF point that achieved focus will be displayed, and the focus indicator ... f: Selecting the AF operation is suited for moving Subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the AF operation is suited for moving subjects when the focus indicator ... f: Selecting the focus indicator ... f: Select button halfway, the camera will keep focusing on the subject continuously. The exposure is set at the moment the picture is taken. Page 119 f: Selecting the AF points light up in red when focus is achieved in low- light conditions. In Creative Zone modes, you can set whether to have the AF points light up in red when focus is achieved (p.424). AF-Assist Beam with the Built-in Flash Under low-light conditions, when you press the shutter button halfway, the built-in flash may fire a brief burst of flashes. S Selecting the AF Area and AF PointN The camera has 45 AF points for autofocusing. You can select the AF area selection mode and AF point(s) suiting the scene or subject. Depending on the lens attached to the camera, the number of usable AF points, AF point patterns, the shape of Area and AF PointN Selecting the AF Area and AF PointN Select Each time you press the ... S Selecting the AF Point N AF Point N AF Point N Selecting the AF Po button lights up the AF points that are cross-type AF points for high-precision autofocusing. The blinking AF points are horizontal-line or vertical-line or vertical-line sensitive. For details, see pages 127-131. AF Area Selection Modes S Single-point AF (Manual Selection) Select one AF points to be used for focusing. The blinking AF points are horizontal-line or vertical-line sensitive. is divided into nine focusing zones for focusing. All the AF points in the selected zone are used for the automatic AF point (s) achieving achieving to focus. This mode is set automatically in Basic Zone modes (except and). The AF point(s) achieving zones for focusing zones for focus achieving zones focus achieving zones focus achieving zones for focus achieving zones focus focus is displayed as . With One-Shot AF, pressing the shutter button halfway will display the AF point(s) ... Page 126 AF Area Selection Modes AF Using Color Tracking By default, AF will be performed based on color tracking. When the AF area selection AF, focus is achieved as follows: In One-Shot AF Mode ... AF Sensor The camera's AF sensor has 45 AF points. The illustration below shows the AF sensor pattern corresponding to each AF point. When using lenses with a maximum aperture of f/2.8 or faster, high-precision AF is possible with the center AF point. camera, the number of usable AF points, AF points, see page 123. For the latest "Lens Group Designations" information, check the Canon website. Some lenses may not be available in certain countries or regions. Page 129 Lenses and Usable AF Points Group B Autofocusing with 45 points is possible. All the AF area selectable. Page 130 Lenses and Usable AF Points is possible. All the AF area selectable. Page 130 Lenses and Usable AF Points Group E Autofocusing with only 35 points is possible. (Not possible with all 45 AF points.) All the AF area selection modes are selectable. During automatic selection AF. Page 131 Lenses and Usable AF Points Group G Autofocusing with only 27 points is possible. (Not possible with all 45 AF points.) Large Zone AF (manual selection of zone) cannot be selected for AF area selection mode. During automatic selection AF. Page 132 Lenses and Usable AF Points Lens Group Designations (as of the release of EOS 80D (W)) EF-S24mm f/2.8 STM EF50mm f/1.0L USM EF-S60mm f/2.8 Macro USM EF50mm f/1.4 USM EF-S10-22mm f/3.5-4.5 USM EF50mm f/1.8 EF-S15-85mm f/3.5-5.6 IS USM... Page 133 Lenses and Usable AF Points EF200mm f/2.8L II USM EF400mm f/2.8L IS II USM + Extender EF1.4x I/II/III + Extender EF2x I/II/III + f/3.5-5.6 IS USM + Extender EF1.4x I/II/III H (f/8) EF28-200mm f/3.5-5.6 USM EF28-200mm f/3.5-5. IS USM EF100-300mm f/5.6L EF70-200mm f/4L IS USM EF100-400mm f/4.5-5.6L IS USM + Extender EF1.4x I/II/III H (f/8) + Extender EF2x I/II/III H (f/8) EF100-400mm f/4.5-5.6L IS II USM EF70-200mm f/4L IS USM + Extender EF1.4x I/II/III H (f/8) + Extender EF1.4x I/II/III H (f/8) EF100-400mm f/4.5-5.6L IS II USM EF70-200mm f/4L IS USM + Extender EF1.4x I/II/III H (f/8) + Extender EF1.4x I/II/III H (f/8) + Extender EF2.4x I/II/III H (f/8) EF100-400mm f/4.5-5.6L IS II USM EF70-200mm f/4L IS USM + Extender EF1.4x I/II/III H (f/8) + Extender EF1.4x I/II/II + Ext to achieve focus (viewfinder's focus indicator blinks) with certain subjects such as the following: Subjects in very low light ... When Autofocus Fails MF: Manual Focus Set the lens's focus mode switch to . will be displayed on the LCD panel. Focus on the subject. Focusing ring Focus by turning the lens's focusing when you press the button Select the drive mode. While looking at the LCD panel, turn the or dial. u : Single shooting When you press the shutter button completely, only one shot will be taken. Page 139 i Selecting the Drive Mode o: The maximum continuous shooting speed of approx. 7.0 shots/sec. is attained under the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), Anti-flicker shooting speed of approx. 7.0 shots/sec. is attained under the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), Anti-flicker shooting speed of approx. 7.0 shots/sec. is attained under the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), Anti-flicker shooting speed of approx. 7.0 shots/sec. is attained under the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), Anti-flicker shooting speed of approx. 7.0 shots/sec. is attained under the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), Anti-flicker shooting speed of approx. 7.0 shots/sec. is attained under the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), Anti-flicker shooting speed of approx. 7.0 shots/sec. is attained under the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), Anti-flicker shooting speed of approx. 7.0 shots/sec. is attained under the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), Anti-flicker shooting speed of approx. 7.0 shots/sec. is attained under the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies dependence), and the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies dependence), and the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies dependence), and the following conditions*: 1/500 sec. or faster shutter speed, maximum aperture (varies dependenc E6N, and at room temperature (23°C/73°F). j Using the Self-timer Use the self-timer when you want to be in the picture. Press the button Select the self-timer delay. Q : Shoot in approx. Image Settings This chapter explains image-related function settings: Image-recording quality, ISO speed, Picture Style, white balance, Auto Lighting Optimizer, noise reduction, lens aberration correction, anti-flicker shooting, and other functions. In Basic Zone modes, only the following can be set as ... Setting the Image-Recording Quality You can select the pixel count and the image quality. There are eight JPEG image-recording quality settings: 73, 83, 74, 84, 7a, 8a, b, c. There are three RAW image quality settings: 1, 41, 61 (p.144). Select [Image quality]. Page 143 The maximum burst applies to high-speed continuous shooting. Figures in parentheses apply to an UHS-I class 16 GB card based on Canon's testing standards. Even if you use a UHS-I class card, the maximum burst indicator will not... with this camera. If a previous version of DPP Ver.4.x is installed on your computer, obtain and install the latest version will be overwritten.) Note that DPP Ver.3.x or earlier cannot process RAW images taken with this camera. 3 Setting the Image-Recording Quality Maximum Burst for Continuous Shooting The approximate maximum burst is displayed on the bottom right in the viewfinder and on the shooting is 99 or higher, "99" will be displayed. Changing the Image's Aspect RatioN You can change the image's aspect ratio. [3:2] is set by default. When [4:3], [16:9], or [1:1] is set, frame lines indicating the shooting area will be displayed in the viewfinder. During Live View shooting, the image appears with the surrounding area masked in black on the LCD monitor. 3 Changing the Image's Aspect RatioN The table below shows the aspect ratio and the number of recorded pixels for each image-recording quality. Aspect Ratio and Pixel Count (Approx.) Image Quality 16:9 6000x4000 5328x4000* 6000x3368* 4000x4000 (24.0 megapixels) (20.2 ambient light level. In Basic Zone modes, the ISO speed is set automatically (p.150). Regarding the ISO speed during movie shooting, see pages 296 and 299. Page 149 i: Setting the ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" (equivalent to ISO 25600) is an expanded ISO speed for Still PhotosN As "H" noticeable, and the resolution will be lower compared with the standard setting will be displayed when you press the shutter button halfway. As indicated below, the ISO speed is set to "A" (Auto), the actual ISO speed for Still PhotosN ISO Auto If the ISO speed setting 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. Page 151 i: Setting the ISO Speed for Still PhotosN 3 Setting the Manually-Settable ISO Speed Range You can set the manually-settable ISO Speed for Still PhotosN 3 Setting the Manually-settable ISO Speed for Still PhotosN 3 Setting the ISO Speed Still Photos N 3 Setting the ISO Speed Range for ISO Auto You can set the automatic ISO speed for Still Photos N 3 Setting the Minimum limit within ISO 100 - ISO 16000 in 1-stop increments. Page 153 i: Setting the ISO Speed for Still Photos N 3 Setting the Minimum limit within ISO 100 - ISO 16000. Shutter Speed for ISO Auto You can set the minimum shutter speed so that the shutter speed so the shutter speed so the shutter speed so that the shutter speed so (Auto) is set automatically. (In modes, [P] (Standard) is set.) Select [Picture Style]. Under the [z3] tab, select [Picture 4. Page 155 A Selecting a Picture 5. Effective for impressive landscapes. u Fine Detail Suited for detailed outline and fine texture description of the subject. The colors will be slightly vivid. S Neutral This Picture Style is for users who prefer to process images with their computer. Page 156 A Selecting a Picture Style slow style is for users who prefer to process images with their computer. Page 156 A Selecting a Picture Style is for users who prefer to process images with their computer. Page 156 A Selecting a Picture Style slow style values for these parameters set for the respective Picture Styles. You can customize the Picture Styles. You can customizing a Picture Styles such as [Strength], [Fineness], or [Threshold] of [Sharpness], and other parameters from the default settings. To see the resulting effects, take test shots. To customize [Monochrome], see page 159. Page 158 A Customizing a Picture Style selection screen will reappear. Any parameter settings different from the default will be displayed in blue. Parameter Settings and Effects Sharpness J Strength 0: Less sharp outline 7: Sharp outline ... A Customizing a Picture StyleN V Monochrome Adjustment Besides the effect applied on the preceding page such as [Contrast], or [Strength], [Fineness] and [Threshold] of [Sharpness], you can also set [Filter effect]. k Filter effect With a filter effect applied to a monochrome image, you can make white clouds or green trees stand out more. A Registering a Picture Style such as [Portrait] or [Landscape], adjust its parameters as desired and register it under [User Def. 2], or [User Def. 2], or [User Def. 3]. You can create multiple Picture Styles with different settings. You can also adjust the parameters of a Picture Style that is registered to the camera with EOS Utility (EOS software, p.512). Page 161 A Registering a Picture Style that is registered to the camera with EOS Utility (EOS software, p.512). Page 161 A Registering a Picture Style that is registered to the camera with EOS Utility (EOS software, p.512). "Customizing a Picture Style"... Setting the White BalanceN White balance (WB) is for making the white areas look white. Normally, the Auto [Q] (Ambience priority) or [Qw] (White balance to match the light source or set it manually by shooting a white object. 3 Setting the White Balance N White Balance N white regardless of the type of lighting. With a digital camera, the white for color correction basis is decided depending on the color temperature of the illumination, and then the color is adjusted with software to make the type of lighting. white areas look white. 3 Setting the White BalanceN Cautions for Setting [Qw] (White priority) The warm color cast of the picture may not be lessened. When multiple light sources are included on the screen, the warm color cast of the picture may not be lessened. When multiple light sources are included on the screen, the warm color cast of the picture may not be lessened. When multiple light sources are included on the screen, the warm color cast of the picture may not be lessened. BalanceN Select [White balance]. Under the [22] tab, select [White balance], then press. Select the custom white balance. Select [], then press. If the exposure obtained in step 1 differs greatly from the standard ... 3 Setting the White balance. function is for advanced users. Select [White balance]. Under the [z2] tab, select [White balance], then press. Set the color temperature conversion filter or color compensating filter. Each color can be corrected to one of nine levels. This function is for advanced users, particularly for those users who understand the use of color temperature conversion and color compensating filters and their effects. 3 White Balance CorrectionN White Balance Auto Bracketing With just one shot, three images with different color tones can be recorded simultaneously. Based on the color temperature of the current white balance setting, the image comes out dark or the contrast is low, the brightness and contrast can be corrected automatically. This function is called Auto Lighting Optimizer. The default setting is [Standard] is set automatically. Setting Noise Reduction High ISO Speed Noise Reduction This function reduces the noise generated in the image. Although noise reduction is applied at all ISO speeds, it is particularly effective at high ISO speeds. When shooting at low ISO speeds, the noise in the darker parts of the image (shadow areas) can further be reduced. Page 171 3 Setting Multi Shot Noise Reduction If there is significant misalignment in the image due to camera shake, the noise reduction effect may become smaller. If you are handholding the camera, keep it steady to prevent camera ... Page 172 3 Setting Noise Reduction Noise reduction]. Under the [z3] tab, select [Long exp. noise reduction], then ress. Set the desired setting. Select the desired setting, then press ... Page 173 3 Setting Noise Reduction With [Auto] and [Enable], the noise reduction process after the picture is taken may take the same amount of time as that for the exposure. You cannot take another picture until the noise reduction process is completed. High PriorityN You can reduce overexposed, clipped highlights. Select [Highlight tone priority]. Under the [z3] tab, select [Highlight tone priority], then press . Select [Enable]. Highlight details are improved. The dynamic range is expanded from the standard 18% gray to bright highlights. Correction of Lens Peripheral Illumination and AberrationsN Peripheral light fall-off is a phenomenon that makes the image corners look darker due to the lens characteristics. Color fringing along subject outlines is called distortion. Page 176 3 Correction of Lens Peripheral Illumination and AberrationsN Chromatic Aberration Correction Select the setting. Check that [Correction data available] is displayed for the attached lens. Select [Chromatic aberration], then press. Select [Enable], then press. Select [Enable], then press. Select [Chromatic aberration], then press. camera records an image range narrower than the one seen through the viewfinder. (Image periphery will be slightly trimmed and resolution correction, and distortion correction, and distortion correction cannot be applied to JPEG images already taken. When using a non-Canon lens, setting the corrections to [Disable] is recommended, even if [Correction data available] is recommended, even if [Correction data available] is recommended, even if [Correction data available] is displayed. If you use the magnified view during Live View shooting, the peripheral ... Reducing FlickerN If you shoot an image with a fast shutter speed under a light source such as fluorescent light, the blinking of the light source causes flicker and the image may be vertically unevenly exposed. If continuous shooting is used under these conditions, uneven exposures or colors across the image flicker. may not be properly detected. Under certain special types of lighting, the camera may not be able to ... Setting the Color space for captured images to sRGB or Adobe RGB. For normal shooting, sRGB is recommended. In Basic Zone modes, sRGB is set automatically. Select [Color space]. Creating and Selecting a Folder Wou can freely create and select the folder where the captured images are to be saved. This operation is optional since a folder will be created automatically for saving captured images. Creating and Select [Select folder]. Under the [51] tab, select [Select ... 3 Creating and Selecting a Folder Selecting a Folder Select a folder on the folder selected. Subsequent captured images will be ... File Numbering Methods The image files will be numbered from 0001 to 9999 in the order the images are IMG 0001. JPG (Example) taken, then saved in a folder. You can File number change how the file number is assigned. Select [File numbering]. Under the [51] tab, select [File numbering]. Under the file number is assigned. Select [File numbering]. create a folder, the file numbering restarts from 0001 for the new images saved. This is useful if you want to organize images by cards or folders. Setting Copyright information, it will be recorded to the image as Exif information. Select [Copyright information]. Under the [54] tab, select [Copyright information, it will be recorded to the image as Exif information]. information], then press . Select the option to be set. Select [Enter author's name] or ... Page 187 3 Setting Copyright Information will be saved and the screen will return to step 2. Checking the Copyright Information When you select [Display copyright info.] in step 2, you can check the [Author] and [Copyright] information that you entered. Advanced Operations In Creative Zone modes, you can change various settings of the camera as you desire to obtain a wide variety of shooting results, by selecting the shutter speed and/or aperture, adjusting the exposure as you prefer, etc. The O icon at the upper right of the page title indicates that ... d: Program AE The camera automatically sets the shutter speed and aperture to suit the subject's brightness. This is called Program AE is called Program AE is called Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to . Focus on the subject's brightness. This is called Program AE is called Program AE is called Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to . Focus on the subject. Look through the viewfinder and aim ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to ... d: Program AE is called Program AE. * stands for Auto Exposure. Set the Mode Dial to shutter speed and the lowest f/number blink, it indicates overexposure. Lower the ISO speed or use flash. If the "8000" shutter speed and the highest f/number blink, it indicates overexposure. Lower the ISO speed or use flash. If the "8000" shutter speed and the highest f/number blink, it indicates overexposure. Lower the ISO speed or use flash. If the "8000" shutter speed and the highest f/number blink, it indicates overexposure. Lower the ISO speed or use flash. If the "8000" shutter speed and the highest f/number blink, it indicates overexposure. Lower the ISO speed or use flash. shutter speed and the camera automatically sets the aperture to obtain the standard exposure matching the brightness of the subject. A slower shutter speed can create a blurred effect, giving the impression of motion. Page 193 s: Shutter-Priority AE If the lowest f/number blinks, it indicates underexposure. ... f: Aperture stops blinking or set a higher ISO speed. If the highest f/number blinks, it indicates overexposure. ... f: Aperture-Priority AE In this mode, you set the desired aperture and the camera sets the shutter speed automatically to obtain the standard exposure matching the subject brightness. This is called aperture-priority AE. A higher f/number (smaller aperture hole) will make more of the foreground fall within acceptable focus. f: Aperture-Priority AE If the "30" shutter speed blinks, it indicates underexposure. Turn the dial to set a faster aperture (lower f/number) until the shutter speed blinking stops or set a higher ISO speed. If the "8000" shutter speed and aperture as desired. To determine the exposure level indicator in the viewfinder or use a commercially-available exposure meter. This method is called manual exposure. * ... Page 197 a: Manual Exposure Compensation (p.200) as follows: • [z2: Expo.comp./AEB] • Under [8C.Fn III-4: Custom Controls] with [s: Expo comp (hold btn, turnS)] (p.438). q Selecting the Metering ModeN You can select one of four methods to measure the subject brightness. In Basic Zone modes, evaluative metering is set.) Press the button Select the metering mode. Page 199 q Selecting the Metering ModeN e Center-weighted average metering is set.) is averaged for the entire scene with the viewfinder center weighted more heavily. With g (Evaluative metering), the exposure is set at the moment the picture is taken. O Setting Exposure Compensation N Exposure compensation can brighten (increased exposure) or darken (decreased exposur exposure compensation indicator in the viewfinder and on the LCD panel can only display the setting up to ±3 stops. Auto Exposure Brackets the exposure up to ±3 stops in 1/3-stop increments for three successive shots. This is called AEB. * AEB stands for Auto Exposure Bracketing. Select [Expo.comp./AEB]. Under the [z2] tab, select ... Page 202 Auto Exposure Bracketing (AEB)N During AEB, in the viewfinder and AEB range will blink. If the drive mode is set to or, press the shutter button three bracketed shots will be taken continuously and the camera will automatically stop shooting. A AE LockN You can lock the exposure when the area of focus is to be different from the exposure setting. Press the button to lock the exposure and take the picture. F: Bulb Exposures In this mode, the shutter stays open as long as you hold down the shutter button completely, and closes when you let go of the shutter button. This is called bulb exposures. F: Bulb Exposures With [z3: Long exp. noise reduction], you can reduce the noise generated during long exposures (p.172). For bulb exposures, using a tripod and bulb timer is recommended. Using mirror lockup (p.219) with bulb exposures set the desired exposure time. Select the hour, minute, or second. Press so is displayed. Set the desired number, then press . (Returns to .) Select [OK]. The set time will be reduced for a high dynamic range of tones even with high-contrast scenes. HDR shooting is effective for landscape and still-life shots. With HDR shooting, three images of different exposure, underexposure, and overexposure, and overexposure, and overexposure, and overexposure) are captured continuously for each shot and then merged together automatically. Page 208 w: HDR (High Dynamic Range) Shooting Terrestory a wide tonal range where the highlight and shadow details would otherwise be lost. Clipped highlights and shadows will be reduced. Art standard While the clipped highlights and shadows will be reduced more than with [Natural], the contrast will be reduced. Art standard While the clipped highlights and shadows will be reduced. [Continuous HDR]. Select either [1 shot only], HDR shooting will be canceled automatically after the HDR mode cannot be set when AEB, WB bracketing, Multi Shot Noise Reduction, or multiple exposures are set, or during bulb exposures are set, or during bulb exposures and movie shooting. Page 211 w: HDR (High Dynamic Range) Shooting HDR images with [Auto Image Align] set to [Enable], AF point display information (p.352) and Dust Delete Data (p.405) will not be appended to the image. If you perform handheld HDR shooting with [Auto Image Align] set to ... P Multiple Exposures N You can see in real time how the exposures are merged when you shoot multiple-exposure images. Select [Multiple exposure]. Under the [z3] tab, select [Multiple ... Page 213 P Multiple Exposures of the subject's background will be automatically controlled to obtain the standard exposure. Page 214 P Multiple ExposuresN Shoot subsequent exposures. The merged multiple-exposure images merged so far will be displayed. By pressing the button, you can display only the Live View image. Multiple-exposure shooting will end ... Page 215 P Multiple Exposures N During continuous shooting, the continuous shooting speed will decrease greatly. Only the merged multiple-exposure image will not be saved. The image-recording quality, ISO speed, Picture Style, high ISO speed ... Page 216 P Multiple ExposuresN Merging Multiple Exposures with an Image Recorded on the Card You can select a 1 image recorded on the card as the first single exposures. You cannot select 41/61 or JPEG images. Page 217 P Multiple ExposuresN Checking and Deleting Multiple Exposures During Shooting Before you finish shooting the set number of exposures, you can press the button to check the current exposure level, overlap alignment, and overall effect of the merged multiple-exposure level, overlap alignment, and overall effect of the merged multiple exposure image. Page 218 P Multiple Exposure level, overlap alignment, and overall effect of the merged multiple-exposure image. settings can be selected. If 41 or 61 is set, the merged multiple-exposure image will be a 1 image. Image-Recording Quality Setting Merged Multiple-Exposure image by the mirror's reflex action when the picture is taken is called "mirror shock". Mirror lockup Keeps the mirror up before and during exposure to reduce blur caused by camera vibrations. Useful when shooting close-ups (macro photography), using a super telephoto lens, and shooting, only one shot can be taken. You can also use the self-timer with mirror lockup. If approx. 30 sec. elapse after the mirror is locked up, it will go back down ... F Using a Remote Switch You can connect Remote switch's instructions, refer to the remote switch's instruction manual. Open the terminal cover. Connect the plug to the remote control terminal. R Remote Control Shooting With Remote Controller RC-6 (sold separately), you can shoot remotely up to approx. Page 222 R Remote controller's transmit button. Point the remote controller toward the camera's remote control sensor, and press the transmit button. p Interval Timer Shooting With the interval timer, you can set the shooting interval and the number of shots. The camera will take a series of single shots at the set interval timer. You can set the shooting interval timer of shots. The camera will take a series of single shots at the set interval timer. settings will be displayed on the menu screen. When you exit the menu, will be displayed on the LCD panel. Take the picture. Interval timer ... Page 225 p Interval Timer Shooting Do not point the camera's internal components. If the lens's focus mode switch is set to, the camera will not shoot ... Flash Photography This chapter explains how to shoot with built-in flash and external Speedlites (EX-series, sold separately), how to set flash shooting. Flash cannot be used with movie shooting. It will not fire. ... D Using the Built-in Flash In Creative Zone modes, just press the built-in flash for flash photography. Before shooting, check that [D] is displayed in the viewfinder. After shooting, push the built-in flash for flash photography. Before shooting, check that [D] is displayed in the viewfinder. Flash Effective Range of Built-in Flash (Approx. in meters / feet) EF-S18-135mm f/3.5-5.6 IS USM ISO Speed Wide Angle Telephoto f/3.5 / 5.6 ISO 100 1 - 6.9 / 3.3 - 14.1... Page 230 D Using the Built-in Flash 3 Red-eye Reduction Using the red-eye reduction lamp before taking a flash picture can reduce red eye. Select [Red-eye reduc.]. Under the [z1] tab, select [Red-eye reduc.], then press . Select [Enable]. For flash photography, when you ... Page 231 D Using the Built-in Flash Select [y*], then press . The flash exposure compensation setting screen will appear. Set the flash exposure compensation amount. To make the flash exposure brighter, ... Page 232 D Using the Built-in Flash A FE LockN FE (flash exposure) lock obtains and locks the appropriate flash exposure) lock exposure) lock obtains and lock exposure) lock exposure (lock exposure) lock exposure) lock exposure (lock exposure) lock exp Speedlites Using an EX-series Speedlite (sold separately) makes flash photography easy. For detailed instructions, refer to the EX-series Speedlites. To set the flash functions and flash Custom Functions with the camera's menu, see pages 235243. Page 234 Cautions for Live View Shooting If you use a non-Canon flash unit with Live View shooting, set [z6: Silent LV shoot.] to [Disable] (p.272). The flash will not fire if it is set to [Mode 1] or [Mode 2]. Setting the FlashN With the built-in flash or an EX-series, external Speedlite compatible with flash function settings, you can use the camera's menu screen to set flash functions and the external Speedlite's Custom Functions. If you use an external Speedlite, attach the Speedlite before setting the flash functions. Page 236 3 Setting the flash functions. Page 236 3 Setting the flash functions and turn on the Speedlite before setting the flash functions. aperture-priority AE mode. 4: Auto The flash sync speed is set automatically within a range of 1/250 sec. Page 237 3 Setting the Flash Function Settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, EX-series Speedlite compatible with flash function settings, you can press the built-in flash or an external, external, external, external, e in flash settings] or [External flash func. Page 238 3 Setting the Flash N Built-in Flash mode Normally, set this to [E-TTL II]. This enables autoexposure shooting with the built-in flash. To set the flash output level to within 1/1 - 1/128 (1/3-stop) increments) before shooting. Page 239 3 Setting the Flash N 2 Flash exposure compensation The same setting as step 3 in "Flash Exposure Compensation" on page 230 can be set. Wireless flash photography (via optical transmission), you can use the built-in flash to wirelessly control external Speedlites. Page 240 3 Setting the FlashN External Flash Function Settings The screen display and setting options will vary depending on the external Speedlite (sold separately), refer to the Speedlite's instruction manual. Page 241 3 Setting the FlashN Wireless functions / Flash ratio control Wireless (multiple) flash shooting is possible with radio or optical transmission. For details on wireless flash, refer to the instruction manual of a Speedlite compatible with radio or optical transmission. For details on wireless flash. Page 242 3 Setting the FlashN Flash exposure compensation" on page 230 can be set. For details, refer to the Speedlite's instruction manual. Flash exposure bracketing While the flash output is changed automatically, three shots are taken. 3 Setting the FlashN External Speedlite Custom Function Settings For details on the external Speedlite's Custom Functions, refer to the Speedlite's instruction manual. Select the number, then press Wireless Flash PhotographyN The camera's built-in flash can work as a master unit for Canon EXseries, external Speedlites having a wireless slave feature. It can wireless flash photography (optical transmission) in the Speedlite's instruction... Page 245 Wireless Flash Photography (*1: If the slave Speedlite does not have a transmission channel setting function, the flash can work regardless of the camera's channel setting. *2: In small rooms, the slave unit may work even if its wireless Flash Photography Nireless Flash Photograph shooting. Select the configuration suiting the subject, shooting conditions, the number of external Speedlite Setting Built-in Page Wireless Flash PhotographyN Fully Automatic wireless flash shooting with one external Speedlite. Steps 1 to 4 and 6 apply to all wireless flash shooting. Therefore, these steps are omitted in other wireless flash shooting. Therefore, these steps are omitted in other wireless flash shooting. Therefore, these steps are omitted in other wireless flash shooting. Therefore, these steps are omitted in other wireless flash shooting. Therefore, these steps are omitted in other wireless flash shooting. Therefore, these steps are omitted in other wireless flash shooting. same one as the slave unit. Set [Firing group] to [1All]. Take the picture. Set the camera and take the picture ... Page 249 Wireless Flash PhotographyN Fully Automatic Shooting with one external Speedlite and the built-in flash. You can change the flash ratio between the external Speedlite and built-in flash to adjust how the shadows cast on the subject. Page 250 Wireless Flash PhotographyN Fully Automatic Shooting with flash ratio control. The basic settings are shown below. By changing the [Firing group] setting, you can shoot with various wireless flash setups with multiple groups You can divide the slave units into groups A and B, and change the flash ratio to obtain the desired lighting effect. Refer to the Speedlite's instruction manual and set one slave unit to firing group A and the other to firing group B. Page 252 Wireless Flash PhotographyN Fully Automatic Shooting with the Built-in Flash and Multiple External Speedlites The built-in flash can also be added to wireless flash shooting explained on pages 250-251. The basic settings are shown below By changing the [Firing group] setting, you can shoot with various wireless flash setups of multiple Speedlites complemented with the built-in flash. Page 253 Wireless Flash PhotographyN Creative Wireless Flash Shooting Flash exposure compensation can be set. The flash exposure compensation settings (see below) that can be set vary depending on the [Wireless Flash PhotographyN Setting the Flash Mode] is set to [Manual flash], flash exposure can be set manually. The flash output settings that can be set ([1 flash output], [Group A output], etc.) vary depending on the [Wireless func.] setting (see below). Shooting '. Live View shooting'. Live View shooting'. Live View shooting is enabled by setting the Live View shooting with the LCD Monitor. This is called "Live View shooting". Live View shooting is enabled by setting the Live View shooting with the LCD Monitor. This is called "Live View shooting". you handhold the camera and shoot while viewing the ... A Shooting with the LCD Monitor Set the Live View image will appear on the LCD Monitor Enabling Live View Shooting with the LCD Monitor Enabling Live View Shooting with the LCD Monitor Enabling Live View Shooting with the LCD Monitor Set the Live View image will be displayed ... A Shooting with the LCD Monitor Enabling Live View Shooting Shooting With the LCD Monitor Enabling Live View Shooting With the LCD Monitor Enabling Live View Shooting Shooting Shooting Shooting With the LCD Monitor Enabling Live View Shooting Set [z5: Live View shoot.] (the [z3] tab in Basic Zone modes) to [Enable]. Number of Possible Shots with Live View Shooting (Approx. number of shots) Room Temperature (23°C / 73°F) (0°C / 32°F) A Shooting with the LCD Monitor Information Display Each time you press the button, the information display will change. AF method HDR shooting/Multiple exposures/Multi Shot Noise Reduction •c: u + Tracking Possible shots/Seconds remaining multiple exposures •d: FlexiZone - Single Battery level... A Shooting with the LCD Monitor The histogram can be displayed by pressing the button when [z5: Expo. simulation: Enable] (p.271) is set. However, the histogram is not displayed while pressing the shutter button ... A Shooting with the LCD Monitor Scene Icons In the shooting mode, the camera will detect the scene type and set all the settings automatically to suit the scene. The detected scene type is indicated on the upper left of the screen. For certain scenes or shooting conditions, the icon displayed with any of the lenses below: • EF-S18-55mm f/3.5-5.6 IS II • EF-S55-250mm f/2.8L IS II • EF300mm f/2.8L IS II USM • EF400mm f/2.8L IS II USM • EF500mm f/4L IS II USM • ... A Shooting with the LCD Monitor B Button Display Options You can change what is displayed when the button is pressed during Live View shooting. Select [zbutton LV display options]. Under the [53] tab, select [zbutton LV display options], then press . A Shooting with the LCD Monitor Edit the options. Select what you want to display and press to add a checkmark [X]. For what you do not want to display, press to remove the checkmark [X]. For what you do not want to display and press to add a checkmark [X]. appear on the LCD monitor and you can turn the or dial to set the respective shooting function. Page 265 Shooting Function, Drive mode, Image quality, White balance, Picture Style, Auto Lighting Optimizer, and Creative filters. In Basic Zone modes, you can set the functions shown in the table on page 107 (except background blur) as well as the functions in bold above. U Applying Creative FiltersN While viewing the Live View image, you can apply one of seven filter effects, and Miniature effect) for shooting. The camera saves only the image with the Creative filter applied. You can also take a picture without a Creative filter, then apply an effect afterward and save it as a new image (p.399). Page 267 U Applying Creative filter, then apply an effect. Press the button (except for Press the keys to adjust the filter effect, then press. Take the picture. The image is shot with the filter effect applied. Page 268 U Applying Creative FiltersN Cr softness by adjusting the blur. U Applying Creative FiltersN H Toy camera effect ... Menu Function Settings When the Live View shooting/Movie shooting switch is set to , menu options exclusive to the Live View shooting will appear under the [z5] and [z6] tabs (the [z3] tab in Basic Zone modes). The settable functions on this menu screen apply only to Live View shooting. Page 271 3 Menu Function Settings Exposure simulation N Exposure simulation simulates and displays how the brightness (exposure) of the actual image will look. • Enable (g) The displayed image brightness will change accordingly. Page 272 [Silent LV shoot.] setting. (You cannot suppress the mechanical sound when shooting.) When using a non-Canon flash unit, set it to [Disable]. The flash will not fire if it is set to [Mode 1] or [Mode 2]. Page 273 3 Menu Function Settings With the TS-E17mm f/4L or TS-E24mm f/3.5L II lens, you can use [Mode 1] or [Mode 2]. Metering timerN You can change how long the following menu items will stop any of the following menu items will stop Live View shooting. To start Live View shooting again, press the ... Select the AF operation is set automatically for the respective shooting mode. Press the button. Select the AF operation. Press the ... Page 275 Selecting the AF OperationN Servo AF for Moving Subjects This AF operation is suited for moving subjects. While you hold down the shutter button halfway, the camera will keep focusing on the subject continuously. If the drive mode is set to high-speed continuously. If the drive mode is set to high-speed continuously. If the drive mode is set to high-speed continuous shooting, the ... Focusing with AF (AF Method) Selecting the AF Method You can select an AF method to suit the shooting conditions and your subject. The following AF methods are provided: [u(face)+Tracking] (p.277), [FlexiZone - Single] (p.277), [FlexiZone - Single u(face)+Tracking:c The camera detects and focuses on human faces. If a face moves, the AF point also moves to track the face. Display the Live View image will appear on the LCD monitor. Page 278 Focusing with AF (AF Method) Focusing on a subject other than a human face Press or and the AF frame will appear at the screen's center. Then use to move the AF frame over the desired subject. Focusing (automatic selection). This wide area can also be divided into 9 zones for focusing (zone selection). This wide area can also be divided into 9 zones for focusing (automatic selection). Focusing with AF (AF Method) Focus on the subject and press the shutter button halfway. When focus is not achieved, the AF point will turn orange. Focusing with AF (AF Method) FlexiZone - Single: d The camera focuses with a single AF point. This is effective when you want to focus on a particular subject. Display the Live View image. Press the button. The Live View image will appear on the LCD monitor. Page 282 Focusing with AF (AF Method) Take the picture. Check the focus and exposure, then press the shutter button completely to take the picture (p.256). Page 283 Focusing with AF (AF Method) Notes for AF AF Operation Even when focus is achieved, pressing the shutter button halfway will focus again. The image brightness may change during and after the AF operation. Depending on the subject or shooting conditions, etc., focusing may ... Page 284 Focusing with AF (AF Method) Shooting Conditions that Make Focusing Difficult Low-contrast subjects such as the blue sky, solid-color flat surfaces or when highlight or shadow details are lost. Subjects in low light. Stripes and other patterns where there is contrast only in the ... Page 285 Depending on the lens used, focusing may take longer or correct focus may not be achieved. For details, refer to the Canon website. If you shoot a peripheral subject and it is slightly out of focus, aim the ... x Shooting with the Touch Shutter Just by tapping on the LCD monitor screen, you can focus and take the picture automatically. This works in all shooting modes. monitor. Page 287 x Shooting with the Touch Shutter Even if you set the drive mode to or, the camera will still shoot in single shooting mode. When you tap on the screen, focusing will be performed with One-Shot AF regardless of the [x: Touch shutter] or [AF operation] settings. MF: Focusing Manually You can magnify the image and focus precisely with manual focus. Set the lens's focus mode switch to . Turn the lens focusing ring to focus roughly. Display the magnifying frame. Press the button to return to the normal view. Take the picture. Check the exposure, then press the ... Page 290 General Live View Shooting in high temperatures may cause noise and irregular colors in the image. If Live View shooting is used continuously for a prolonged period, the ... General Live View Image may not reflect the brightness of the captured image. Even if a low ISO speed is set, noise may be noticeable in the displayed ... Shooting Movies Movies Movie shooting is enabled by setting the Live View shooting/ Movie shooting switch to . For cards that can record movies, see page 5. If you handhold the camera and shoot movies, camera and shoot movies, camera shake can cause blurred movies. Set the Mode Dial to a mode other than and . Set the Live View shooting/Movie shooting movies In Basic Zone modes, the shooting result will be the same as with . Also, the scene icon for the scene detected by the camera is displayed on the upper left (p.297). In the , , and shooting modes, the settings will be the ... Page 296 k Shooting Movies ISO Speed in the d, s, f, and F Modes The ISO speed will be set automatically within ISO 100 - ISO 12800. ... k Shooting Movies Scene Icons During movie shooting in a Basic Zone mode (except the mode), an icon representing the scene detected by the camera will be displayed may not match the actual scene. k Shooting Wovies Manual Exposure Shooting You can manually set the shutter speed, aperture, and ISO speed for movie shooting. Using manual exposure to shoot movies is for advanced users. Set the Mode Dial to . Set the Live View shooting/Movie shooting witch to . Page 299 k Shooting Movies ISO Speed During Manual Exposure Shooting With [Auto] (A), the ISO speed will be set automatically within ISO 100 - ISO 12800. In [Range for movies] under [z2: ISO speed settings], if you set [Maximum] to [H(25600)], the automatic setting mode/ AF method Scene icon • c: u + Tracking y : Autoexposure • o: FlexiZone - Multi (Basic Zone •... Page 301 k Shooting Movies Still Photo Shooting Still photo Shooting Still photo shooting is not possible during movie shooting. To shoot still photos, stop shooting the movie and perform viewfinder shooting or Live View shooting. Cautions for Movie Shooting Movie-related settings are under the [24] and [z5] tabs (p.326). (In Basic Zone modes, they are under the [z2] and [z3] tabs.) A movie file is recorded each time you shoot a movie. If the file size ... Shooting Function Settings f / i Settings if you press the button while the image is displayed on the LCD monitor, the setting screen will appear on the LCD monitor and you can turn the dial to set the AF method. During manual exposure shooting (p.298), you can press the ... Page 305 Shooting Function Settings Q Quick Control In Creative filters, and Videc snapshot can be set. In Basic Zone modes, only the functions in bold above can be set. Setting the Movie recording Size (image size, frame rate, and compression method), and other functions. MOV/MP4 You can select the movie's recording format. D MOV The movie is recording Size You can select the movie's size, frame rate, and compression method. Image Size L 1920x1080 Full High-Definition (Full HD) recording guality. The aspect ratio is 16:9. w 1280x720 High-Definition (HD) recording quality. Page 308 3 Setting the Movie Recording Size Compression Method Fixed at W if the recording format is MOV. For the MP4 format, X or Xv can be selected. • In MOV Format W ALL-I (For editing/I-only) Compresses one frame at a time for recording. Although the file size is larger than with IPB (Standard) and IPB (Light), the movie is better suited for editing. Page 309 3 Setting the Movie Recording Time and File Size Per Minute In MOV Format (Approx.) Total Recording Time and File Size Quality 4 GB 16 GB 64 GB 5 min. 23 min. 1 hr. Page 310 3 Setting the Movie Recording Time Limit for editing. The maximum recording time of one movie clip is 29 min. 59 sec. If the movie shooting time reaches 29 min. 59 sec., the movie shooting time reaches 29 min. 59 sec., the movie shooting a movie clip is 29 min. 59 sec., the movie shooting will stop automatically. You can shoot with an approx. 3x to 10x digital zoom (except in mode). Select [Digital zoom]. Under the [z4] tab (the [z2] tab in ... Setting the Sound Recording You can shoot movies while recording sound with the built-in stereo microphones or a commercially-available external stereo microphone. You can also freely adjust the sound-recording level. Set the sound recording with [z4: Sound recording] Sound Recording/Sound-Recording Level [Auto] : The sound-recording level is adjusted automatically. Page 313 3 Setting the Sound Recording is also possible by connecting a commercially-available external stereo microphone equipped with a miniature stereo plug (3.5 mm) to the camera's external microphone IN terminal (p.26). Shooting HDR Movies You can shoot movies by reducing the clipped highlight details of bright areas even in high-contrast scenes. This function is settable in Basic Zone modes (except the mode). HDR movie can be set when the MP4 format is set and the recording size is L6X (NTSC) or L5X (PAL). Page 315 Shooting HDR Movies Since multiple frames are merged to create an HDR movie, a part of the movie may be distorted. Using a tripod is recommended. v Shooting Movies with Creative Filters In the (Creative filters) mode, you can shoot movies with one of five filter effects (Memory, Dream, Old Movies, Dramatic B&W, and Miniature effect novie). The recording size can be set to L6/4 (NTSC) or L5 (PAL). Page 317 v Shooting Movies with Creative Filters Adjust the filter effect level. Press the Q button and select the icon below [Creative filters]. Press the keys to adjust the filter effect, then press. When the Miniature effect movie is ... v Shooting Movies with high-contrast black and white. You can adjust the graininess and black-and-white effect. o Miniature effect movie is ... v Shooting Movies with high-contrast black and white. movies having a Miniature (diorama) effect. Select the playback speed and shoot. N Shooting Time-lapse movies show a subject changes in a much shorter period of time than the actual time it took. It is effective for a fixed point observation of changing scenery, growing plants, celestial motion, etc. Page 320 N Shooting Time-lapse Movies Set the shooting interval and number of shots. Select the number to be set (hours: ... Page 321 N Shooting Time-lapse Movies Card- time left The total length of a time-lapse movie that can be recorded on the card based on its remaining capacity. Exit the menu. Press the shutter button halfway to check the focus and exposure. Press the shutter button completely to start shooting Time-lapse movie set to [Enable], you cannot set [z4: Movie rec quality] and [53: Video system]. Cannot be set when movie digital zoom is set. If the camera is connected to a computer with the interval between shots due to the shooting functions set or card performance, shooting with the set interval may not be performed. The captured images are not recorded as still photos. Even if you cancel ... Page 325 N Shooting Time-lapse Movies You can perform time-lapse movie shooting with a fully-charged Battery is exhausted) listed in the table below. Possible time for time-lapse movie shooting will vary depending on the shooting conditions. Approximate Total Possible Time for Time-lapse Movie Shooting (Approx.) Room Temperatures... Menu Function Settings When the Live View shooting menu options will appear under the [z4] and [z5] tabs in Basic Zone modes). Movie Servo AF With this function enabled, the camera focuses on the subject continuously during movie shooting. Page 327 3 Menu Function Settings AF method are the same as described on pages 276-285. You can select [u+Tracking], [FlexiZone - Multi], or [FlexiZone - Single]. Cautions When [Movie Servo AF] is Set to [Enable] Shooting Conditions that Make Focusing Difficult ... Page 328 3 Menu Function Settings Movie recording quality You can set the movie recording format (MOV or MP4) and movie recording size. For details, see page 306. Digital zoom You can use digital zoom for telephoto shooting. For details, see page 311. 135mm f/3.5-5.6 IS USM) and STM lenses (for example, the EF-S 18- 55mm f/3.5-5.6 IS STM) support slow focus transition during movie shooting. For details, refer to the Canon website. If [AF method] is set to [u+Tracking] or [FlexiZone - Multi], the operation... 3 Menu Function Settings Movie Servo AF's tracking sensitivity to one of seven levels. This affects the responsiveness of AF tracking sensitivity when the AF points stray from the subject, such as during panning or when an obstacle cuts across the AF points. Page 331 3 Menu Function Settings Metering timerO You can change how long the exposure setting is displayed (AE lock time). Grid display With [3x3 1] or [6x4 m], grid lines to help you level the camera vertically or horizontally. Also, with [3x3+diag n], the grid is displayed together with diagonal lines to help you compose with better balance by aligning the intersections over the subject. Page 332 3 Menu Function Settings Video snapshot You can shoot video snapshot video snapshot is displayed together with diagonal lines to help you compose with better balance by aligning the intersections over the subject. 333. Time-lapse movie You can shoot time-lapse movies. For details, see page 319. Remote control shooting When [Enable] is set, you can start or stop movie shooting using Remote Controller RC-6 (sold separately, p.221). Shooting Video Snapshots You can shoot a series of short movie clips lasting approx. 2 sec., 4 sec., or 8 sec. called video snapshots. The video snapshots can be joined together into a single movie called a video snapshot album. You can thereby show quick highlights of a trip or event. Page 334 3 Shooting Video Snapshot's length, then press Select [OK]. Press the button to exit the ... Page 335 3 Shooting Video Snapshots Creating a Video Snapshot. Press the button, then shoot. The blue bar indicating the shooting duration will gradually decrease. After the set shooting duration will gradually decrease. Snapshots Options in Steps 9 and 10 Function Description The movie clip will be saved as the video J Save as album (Step 9) snapshot just recorded will be J Add to album (Step 10) added to the album recorded immediately before. Page 337 3 Shooting Video Snapshots [Playback video snapshot] Operations in Steps 9 and 10 Function Playback Description By pressing, you can play back or pause the video snapshot. Each time you press, the video snapshot skips back Skip backward* by a few seconds. Page 338 3 Shooting Video Snapshots Adding to an Existing Album Select [Add to existing album]. Follow step 5 on page 334 to select an existing album], then press . Select an existing album], then press . Select an existing album], then press a select an existing album album album album are select an existing album. Turn the dial to select an existing album are select an existing album are select an existing album. Turn the dial to select an existing album are select an existing album. Turn the dial to select an existing album are select an existing album. Turn the dial to select an existing album are select an existing album. Turn the dial to select an existing album are select an existing album. Turn the dial to select an existing album are select an existing album. Turn the dial to select an existing album are select an existing album. Turn the dial to select an existing album are select an existing album. Turn the dial to select an existing album are select an existing album are select an existing album. add to an album only video snapshots with the same duration (approx. 2 sec., 4 sec., or 8 sec. each). Note that if you do any of the following while shooting Video Snapshots Playing back an Album You can play back a video snapshot album in the same way as a normal movie (p.365). Play back the movie Press the button to display an image. Select the album. In the single-image display, the ... Page 341 3 Shooting Video Snapshots Editing an Album After shooting, you can rearrange, delete, or play back the video snapshots in the album. Select [X] (Edit), then press . The editing screen will be displayed. Select an editing operation. Page 342 3 Shooting Video Snapshots Save the edited album. Press the button to return to the Editing panel at the screen will appear. To save it as a new album, select ... General Movie Shooting Cautions Red Internal Temperature Warning Icon If the camera's internal temperature increases due to prolonged movie shooting or under a high ambient temperature, a red icon will appear. The red icon will appear. The red icon will appear and Image Quality If you use a card with a slow writing speed, a five-level indicator may appear on the right of the screen during movie shooting. It indicates how much data has not yet been written to the card (remaining capacity of the internal buffer memory). Image Shot and erase photos and movies, how to play back and erase photos and movies, how to play back and erase photos and movies. saved with another device The camera may not be able to properly display images captured with a different camera, edited with a computer, or that have had their file names changed. x Image Playback Single-Image Display back the image. To play back the image Display Play back the image captured or played back will appear. image starting with the last image captured, turn the dial counterclockwise. x Image Playback Exit the image playback. Press the button to exit the image playback and return to shooting information Display With the shooting information screen displayed (p.346), you can press the keys to change the shooting information Display With the shooting information Display With the shooting information because the keys displayed at the screen's bottom as follows. B: Shooting Information Display The information displayed varies depending on the shooting mode and settings. Sample Information for Still Photos Basic information displayed varies depending on the shooting mode and settings. level Playback number / Folder number - Total images recorded ... Page 349 B: Shooting Information Display Shooting information Exposure compensation amount Histogram (Brightness/RGB) Shooting information Display shooti White balance File size Flash exposure compensation Auto Lighting amount / Multi Shot Noise Optimizer... Page 350 B: Shooting Information Display (RGB) Focal length • White balance information 1 • Color space / Noise • Picture Style information 2 reduction information - Lens aberration correction information If you used GPS Receiver GP-E2 to record GPS information Display Sample Movie Information Display Playback Aperture Shutter speed Movie shooting mode/ Creative filters Time-lapse movie Recording format Movie file size Movie recording size Shooting time, Playback time Frame rate Compression method * If manual exposure is used, the shutter speed, aperture, and ISO speed (when set manually) will be displayed. Page 352 B: Shooting Information Display AF Point Display When [33: AF point disp.] is set to [Enable], the AF point that has achieved focus will be displayed in red. If automatic AF point selection is set, multiple AF points may be displayed at the same time. Histogram ... x Searching for Images on One Screen (Index Display) Search for images on One Screen (Index Displaying Multiple Images on One Screen (Index Display) Search for images on one screen. index display. During image playback, press the ... Page 354 x Searching for Images (Jump index display) In the single-image display, you can turn the dial to jump through the images (Jump index display). In the single-image display, you can turn the dial to jump through the images (Jump index display). In the single-image display, you can turn the dial to jump index display. You can magnify a captured image by approx. 1.5x to 10x on the LCD monitor. Magnify the image. Press the button during image playback. The image will be magnified. If you hold down the button, the ... d Playing Back with the Touch Screen The LCD monitor is a touch-sensitive panel that you can touch with your fingers for various playback. operations. First, press the button to play back images. Browsing Images Swipe with one fingers. Touch the screen with two fingers spread apart, and pinch your fingers together on the screen. Each time you pinch your fingers, the single-image display will change to the index display. b Rotating the Image in the ... Setting Ratings You can rotate the displayed image to the desired orientation. Select an image in the ... Setting Ratings You can rate images (still photos and movies) with one of five rating marks: l/m/n/o/p. This function is called rating. Under the [32] tab, select [Rating]. Under the [32] tab, select [Rating], then press. Select an image ... Page 360 3 Setting Ratings A total of up to 999 images of a given rating can be displayed. If there are more than 999 images with a given rating, [###] will be displayed. Taking Advantage of Ratings With [32: Image jump w/6], you can display only images having the ... Q Quick Control for Playback, you can press the button to set the following: []: Protect images], [b: Rotate image], [B: RAW image processing], [U: Creative filters], [S: Rotate image], [B: Rotate image], [D: Creative filters], [S: Rotate image], [D: Rotate ima Resize (JPEG images only)], [N: Cropping (JPEG images only)], [1: Highlight alert], [T: AF point display], [e: Image jump w/6], and [q: Send images to smartphone*]. Page 362 Q Quick Control for Playback Exit the setting. Press the button to exit the setting. [OnD] or [Off], the [b Rotate image] setting will be recorded to the image, but the camera will not rotate the image for display. k Enjoying Movies and still photos for display. k Enjoying Movies and still photos for display. on the TV set. Page 364 k Enjoying Movies Playback and Editing with a Computer The movie files recorded on the card can be transferred to a computer and played back or edit a movie with commercially-available software, use software compatible with MOV-format and MP4-format movies. k Playing Back Movies Play back the image. Press the button to displayed on the upper left of the screen indicates a movie. Page 366 k Playing Back Movies Movies Movies Playback Panel Operation Playback Description 7 Play Pressing toggles between play and stop. Adjust the slow motion speed is indicated on the upper right of the screen. X Editing a Movie's First and Last Scenes Playback with the Touch Screen Tap [7] on the center of the screen. The movie will start playing back. To display the movie playback panel, tap on the upper left of the screen. Page 368 X Editing a Movie's First and Last Scenes Check the edited movie. To change the edited movie. To change the edited movie. Select [7] and press to play back the edited movie. back the images on the card as an automatic slide show. Select [Slide show]. Under the [32] tab, select [Slide show], then press . Select the images to be played back back. Page 370 3 Slide Show (Auto Playback) Item Playback Description All the still photos and movies on the card will be played jAll images back. Still photos and movies taken on the selected shooting date iDate will be played back. Still photos and movies in the selected folder will be played, the slide show will be played nFolder back. 3 Slide Show (Auto Playback) [Transition effect] [Background music] Start the slide show. Press the keys to select [Start], then press. After [Loading image...] is displayed, the slide show will be played nFolder back. start. Exit the slide show. To exit the slide show and return to ... Page 372 3 Slide Show (Auto Playback) Selecting the Background music to the card, you can play background music] to [On], ... Viewing Images on a TV Set By connecting the camera to a TV set with an HDMI cable, you can play the camera's still photos and movies on the TV set. For the HDMI cable, Set to [For NTSC] or [For PAL] (depending on the video system of your TV set). Page 374 Viewing Images on a TV set, between the camera and TV set, turn off the camera and TV set, between the camera and TV set, turn off the camera and TV set, between the camera and TV set. The sound volume with the TV set, between the camera and TV set. may be cut off. Page 375 Viewing Images on a TV Set Select an image. Press the remote control's Enter Still photo playback menu button. The menu appears and you can perform the playback menu button to select an image. Press the remote control's Enter Still photo playback menu button. You can set protections to prevent the precious images from being erased accidentally. 3 Protecting a Single Images in a Folder or on a Card You can protect all the images in a folder or on a card at once. When you select [All images on card] in [31: Protect images], all the images], all the images on card] in [31: Protect images], all the erased. Once an image is erased, it cannot be recovered. Make sure you no longer need the images Select [Select and erase images]. Select [Select and erase images], then press. W Digital Print Order Format (DPOF) DPOF (Digital Print Order Format) enables you to print, etc. You can print multiple images in one batch or give the print order to a photofinisher. Page 381 W Digital Print Order Format (DPOF) [Print type] [Date] [File No.] K Standard Prints one image on one sheet. Multiple thumbnail images are printed on L Index Print type one sheet. Both Prints the recorded date on the print. Page 382 W Digital Print Order Format (DPOF) RAW images and movies cannot be print ordered. Even if [Date] and [File No.] are set to [On], the date or file number may not be imprinted depending on the print type setting and printer model. With [Index] prints, the [Date] and [File No.] cannot both be set to [On] ... W Digital Print Order Format (DPOF) Print (DPOF) Print (DPOF) Print (DPOF) Print (DPOF) Print images from a three-image display. To return to the single-image display, press the button. Press the ... p Specifying Images for a Photobook. When you use EOS Utility (EOS software) to transfer images to a computer, the specified images will be copied to a dedicated folder. This function is useful for ordering photobooks online. Page 385 p Specifying Images in a Folder or on a Card at once. When [x1: Photobook Set-up] is set to [All images in folder] or [All images in the folder or on a card at once. When [x1: Photobook Set-up] is set to [All images in folder] or [All images in folder] or [All images in a folder or on a card at once. When [x1: Photobook Set-up] is set to [All images in folder] or [All images in fo Image Playback Settings 3 Adjusting the LCD monitor to make it easier to view. Select [LCD brightness], then press. Adjust the brightness], then press . Adjust the brightness], then press and the LCD monitor to make it easier to view. Images Vertical images are rotated automatically so they are displayed vertically on the camera's LCD monitor and on the computer instead of horizontally. You can process RAW images, resize or crop JPEG images, and apply a Creative filter. The O icon at the upper right of the page title indicates that the function is available only in Creative Zone modes (d/ s/f/a/F). R Processing RAW Images with the camera and save them as JPEG images with the camera and save them as JPEG images with the camera and save them as JPEG images. As the RAW image itself does not change, you can apply different processing conditions to create any number of JPEG images. images from it. Page 391 R Processing RAW Images with the CameraN Displaying the setting screen Press to display the setting screen in step 3. Save the image. Page 392 R Processing RAW Images with the CameraN RAW Image Processing Options P Brightness adjustment You can adjust the image brightness up to ±1 stop in 1/3-stop increments. The displayed image will reflect the setting's effect. Q White balance (p.162) ... Page 393 R Processing RAW Images with the Camera's LCD monitor is not compatible. with Adobe RGB, the difference in the image will hardly be perceptible when either color space is set. V Peripheral illumination Correction, Distortion Correction, and Chromatic Aberration Correction To perform peripheral illumination correction, Distortion Correction, Distortion Correction, and Chromatic Aberration Correction (p.175) ... Page 394 R Processing RAW Images with the CameraN Peripheral illumination correction, Distortion Correction, Distortio distortion correction, and chromatic aberration correction data of the lens used is necessary. If you cannot apply correction when processing RAW images in the camera, use EOS Utility (EOS software, p.512) to register the correction data to the camera. S Resizing JPEG Images You can resize a JPEG image to make the pixel count lower and save it as a new image. Resizing an image is possible with JPEG 3/4/a/b images. JPEG c and RAW images Cannot be resized. Select [Resize]. Page 396 S Resizing JPEG Image Size Available Resize Options by Original Image Size Available Resize Settings Original Image Size Settings Original Image Size Available Resize Settings Original Image Size Settings Original Image Size Set Ratio and Pixel Count (Approx.) Image Quality 16:9 3984x2656 3552x2664 3984x2240* 2656x2656... N Cropping]. Under the [x2] tab, select [Cropping], then press Page 398 N Cropping JPEG Images Moving the Cropping Frame Press the or keys. The cropping frame will move up, down, left, or right. You can also touch the frame and drag it to the desired position. ... U Applying Creative Filters You can also touch the frame and drag it to the desired position. ... U Applying Creative Filters You can also touch the frame and drag it to the desired position. effect, Art bold effect, Water painting effect, Toy camera effect, and Miniature effect. Select [Creative filters]. Under the [x1] tab, select [Creative filters]. Under the [x1] tab, select [OK] to save the image. Check the destination folder and image file number, then select [OK]. To apply a filter to another image, repeat steps 2 to 5. When shooting 1+JPEG images, the Creative filter will be applied to ... U Applying Creative Filters X Fish-eye effect of a fish-eye lens. The image changes. Also, since this filter effect will magnify the image center, the apparent resolution at the center may degrade depending on the number of recorded pixels. If visible spots still remain after the automatic sensor cleaning, having the sensor cleaned by a Canon Service Center is recommended. Even while the Self Cleaning Sensor Unit is operating, you can press the shutter button halfway to interrupt the cleaning and start shooting immediately. f Automatic Sensor Cleaning Whenever you set the power switch to or , the Self Cleaning Sensor Unit is activated to automatically shake off the dust on the front of the sensor. Normally, you need not pay attention to this operation. Unit will eliminate most of the dust that may be visible on captured images. However, in case visible dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the image for erasing the dust still remains, you can append the Dust Delete Data to the dust still remains, you can append the Dust Delete Data to the dust still remains, you can append the dust sti solid-white object and take a picture. The picture of f/22. Before cleaning the sensor needs to be cleaning the sensor, detach the lens from the camera. The image sensor is extremely delicate. If the sensor cleaning]. Page the sensor is extremely delicate of f/22. Before cleaning the sensor is extremely delicate. 408 If the battery level becomes low while cleaning the sensor, the beeper will sound as a warning. Stop cleaning the sensor. If a smudge that cannot be removed with a blower remains, having the sensor cleaned by a Canon Service Center is recommended. your picture-taking preferences with Custom Functions. Also, current camera settings can be saved under positions of the Mode Dial. The functions Select [8]. Select the group. Select C.Fn I, II, or III, then press . Select the Custom Functions Custom Function number number. Press the keys to select the Custom Function number, then press. Change the setting as desired. Custom Functions A LV k Movie C.Fn I: Exposure level increments p.413 ISO speed setting increments p.413 IN a Bracketing auto cancel p.413 Bracketing sequence p.414 Number of bracketed shots p.414 Safety shift p.415 A LV k Movie C.Fn II: Autofocus Shooting ... Page 412 3 Custom Functions A LV k Movie C.Fn II: Operation/Others Shooting Shooting ... Custom Function SettingsN C.Fn I: Exposure C.Fn I -1 Exposure compensation, AEB, flash exposure in less fine increments 0: 1/3-stop 1: 1/2-stop Sets 1/2-stop Function Function SettingsN C.Fn I -4 Bracketing sequence The AEB shooting sequence and white balance bracketing sequence can be changed. 0: 09-9+ 1: -909+ 2: +909- White Balance Bracketing B/A Direction M/G Direction 0 : Standard white balance 0 : Standard white balance exposure - : Decreased - : Blue bias... 3 Custom Function SettingsN C.Fn I -6 Safety shift 0: Disable 1: Shutter speed/Aperture Takes effect in the shutter-priority AE and aperture- priority AE modes. If the subject brightness changes and the standard exposure cannot be obtained within the autoexposure range, the camera will automatically change the manually-selected setting to obtain the standard exposure. 3 Custom Function SettingsN C.Fn II: Autofocus C.Fn II -1 Tracking sensitivity Sets the subject-tracking sensitivity during AI Servo AF when an obstacle cuts across the AF points or when the subject. 0: Default setting suited for most subjects. Suitable for moving subjects in general. Page 417 3 Custom Function SettingsN C.Fn II -2 Acceleration/deceleration tracking This sets the tracking sensitivity for moving subjects whose speed can momentarily change dramatically by starting or stopping suddenly, etc. 0: Suited for subjects that move at a steady speed (minor changes in moving speed). Page 418 3 Custom Function SettingsN C.Fn II -4 AI Servo 1st image priority You can set the AF operation characteristics and shutter-release timing for the first shot with AI Servo AF. Equal priority: Equal priority is given to focusing and shutter release. s: Release priority Pressing the shutter button takes the picture immediately even if focus has not been achieved. Page 419 3 Custom Function SettingsN C.Fn II -6 AF-assist beam firing Enables or disables the built-in flash's AF-assist beam or the EOS- dedicated external Speedlite's AF-assist beam will not be emitted. This prevents the AF- assist beam will be emitted when necessary. 1: Disable The AF-assist beam will be emitted when necessary. 1: Disable The AF-assist beam will be emitted. selection mode You can limit the selectable AF area selection modes to suit your shooting preferences. Select the desired selection mode and press to add a checkmark [X]. Then select [OK] to register the setting. Page 421 3 Custom Function SettingsN C.Fn II -10 Orientation linked AF point or the AF area selection mode + AF point separately for vertical shooting. 0: Same for both vertical/horizontal shooting. O: Same for both vertical/horizontal shooting. Page 422 3 Custom Function SettingsN C.Fn II -11 Initial AF Point, o AI Servo AF You can set the AI Servo AF's starting AF point for when the AF area selection mode is set to Auto selection: 45 pt AF. 0: Auto The AF point which AI Servo AF starts with is set automatically to suit the shooting [0: Enable]. Even with setting [0: Enable]. the expected result may not be obtained depending on the shooting conditions and subject. Under light so low that the flash emits the AF-assist beam automatically, ... Page 424 3 Custom Function SettingsN C.Fn II -15 Viewfinder display illumination You can set whether or not the AF points in the viewfinder will light up in red when focus is achieved. 0: Auto The AF points automatically light up in red under low light. 1: Enable The AF points light up in red regardless of the ambient light level. 3 Custom Function SettingsN C.Fn III -1 Warnings z in viewfinder's bottom right (p.29). The icon will also appear on the shooting function settings display (p.55). Select the function for which you want the warning icon to appear, press ... Page 426 3 Custom Function Settings N C.Fn III -3 Retract lens on power off This is to set the lens retraction mechanism for when a gear-driven STM lens (such as EF40mm f/2.8 STM) is attached to the camera. You can set it to retract the extended lens automatically when the camera's power switch is set to . 8: Fine Adjustment of AF's Point of Focus Fine Adjustment, read "General Cautions for AF Microadjustment" on page 432. Normally, this adjustment is not required. Perform this adjustment only if necessary. Page 428 8: Fine Adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus in front of the standard point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of Focus Make the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of focus. Setting it toward "-:a" will shift the adjustment of AF's Point of Focus Adjustment Adjustment of Af's Point of Focus Adjustment Adjust it toward "+:b"... Page 429 8: Fine Adjustment of AF's Point of Focus 2: Adjust by Lens You can make the adjustment for up to 40 lenses. When you autofocus with a lens whose adjustment is registered, the point of focus will always be shifted by the adjustment for up to 40 lenses. unt. Page 430 8: Fine Adjustment of AF's Point of Focus Entering the Serial Number Select the digits, select ... Page 431 8: Fine Adjustment of AF's Point of Focus Make the adjustment. Single focal length lens For a zoom lens, select the wide angle (W) or telephoto (T) end. Pressing will turn off the frame and make the adjustment possible. Set the adjustment amount, then ... Page 432 8: Fine Adjustment of AF's point of focus is corrected automatically relative to the adjustments made for the wide-angle and telephoto ends. Even if only the wide-angle or telephoto end has been adjusted, a correction will be made automatically for the intermediate range. 8: Custom Controls You can assign often-used functions to camera buttons or dials according to your preferences. Select [C.Fn III: Operation/ Others]. Under the [8] tab, select [C.Fn III: Operation/Others], then press . Select [4: Custom Controls]. The Custom Controls Screen will appear. Page 434 8: Custom Controls Assignable Functions to Camera Controls Assignable Functions to Camera Controls Screen will appear. Page 434 8: Custom Controls Assignable Functions to Camera Controls Assignable Functions to Camera Controls Function Page Metering and AF start b AF stop c ONE SHOT z AI SERVO/SERVO AF point direct selection Metering start AE lock/FE lock AE lock (while button pressed) AE lock (hold) Exposure FE lock e Set ISO speed (hold button, turnS) Page 435 8: Custom Controls * The AF stop button (0) is provided only on super telephoto IS lenses. Page 436 8: Custom Controls a: Metering and AF start When you press the button assigned to this function, metering and AF are executed. b: AF stop button (0) is provided only on super telephoto IS lenses. down the button assigned to this function. Useful when you want to stop the AF during AI Servo AF. c: ONE SHOT z AI SERVO/SERVO You can switch the AF operation. Page 437 8: Custom Controls g: Metering start When you press the shutter button halfway, exposure metering is performed (AF is not performed). t: AE lock/FE lock Normal shooting (No flash) When you press the button assigned to this function, you can lock the exposure (AE lock) during the metering. Page 438 8: Custom Controls d: FE lock For flash photography, pressing the button, turnS) You can set the ISO speed by holding down and turning the ... Page 439 8: Custom Controls g: Image quality Press to display the image-recording quality setting screen on the LCD monitor. A: Picture Style Press to display the Picture Style selection setting screen (p.154). B: White balance selection Press ... Registering My MenuN Under My Menu tab, you can register menu items and Custom Functions whose settings you change frequently. You can also name the registered menu tabs and press the button to display the My Menu Tab Select [Add My Menu Tab Select [Add My Menu Tab Select Items to register]. Register the desired items. Select the desired item, then press . Select [OK] on the confirmation dialog. You can register up to six items. To return to the screen in step 2, ... 3 Registering My Menu tab currently displayed. Select [Delete tab] to delete the [MY MENU*] tab. Rename tab You can rename the My Menu tab from [MY MENU*]. Select [Rename tab]. Enter text. Page 443 3 Registering My Menu tabs you created. When you created. Whe to [MY MENU5] will be deleted and the [9] tab will revert to its default. Page 444 3 Registering My Menu tab ... w: Registering Custom Shooting ModesN You can register current camera settings, such as the shooting mode, menu functions, and Custom Function settings, as Custom shooting mode (C1, C2)]. Under the [54] tab, select [Custom shooting mode, menu functions, and Custom Shooting mode (C1, C2)]. Registered Shooting functions Shooting mode, Shutter speed, AF operation, AF area selection mode, AF point, Drive mode, AF point, Dr power off, LCD brightness, LCD off/on button, Viewfinder display [53] Touch control, Auto cleaning, z button display options [54] Multi function lock [81] Exposure level increments, Bracketing auto cancel, Bracketing sequence, Number of bracketed shots, Safety shift [82] Tracking sensitivity, Acceleration/deceleration tracking, AF... Reference This chapter provides reference information for camera body, and on the camera's certifications. Other certification logos can be found in this Instruction Manual, on the camera body, and on the camera's certifications. package. B Button Functions When you press the button while the camera is ready to shoot, you can display [Displays camera settings], [Electronic level] (p.72), and [Displays shooting functions] (p.451). Under the [53] tab, [z button display options] enables you to select the options displayed when the ... Page 451 B Button Functions Shooting Function Settings White balance correction Aperture Shutter speed AE lock Shooting mode Flash exposure level ISO speed indicator Highlight tone priority Exposure Wi-Fi function compensation Custom Controls Picture Style Image-recording AF operation quality Quick Control icon Possible shots Battery level Maximum burst/Number of... Using a genuine Canon Battery Pack LP-E6N/LP-E6 is recommended. If you use batteries that are not genuine Canon products, this camera's full performance may not be attained or malfunction may result. The shutter count is the number of still photos taken. (Movies are not ... Page 453 3 Checking the Battery Information Registering Batteries to the Camera You can register up to six LP-E6N/LP-E6 batteries to the camera. To register multiple batteries to the camera. To register multiple batteries to the camera. To register multiple batteries to the camera. label each registered Battery Pack LP-E6N/LP-E6 with their serial number, using commercially-available labels. Write the serial number on a Serial number on a Serial number on a Serial number of a Registered Battery You can check the remaining capacity of any battery (even when not installed) and also when it was last used. Look for the serial number on ... Using a Household Power Outlet You can power the camera with a household power outlet by using the DC Coupler DR-E6 and AC Adapter AC-E6N (both sold separately). Place the cord in the groove. Insert the DC coupler's cord carefully ... H Using Eye-Fi Cards With a commercially-available Eye-Fi card already set up, you can automatically transfer captured images to a computer or upload them to an online service via a wireless LAN. The image transfer is a function of the Eye-Fi card already set up, you can automatically transfer captured images to a computer or upload them to an online service via a wireless LAN. the Eye-Fi card or to troubleshoot any image transfer problems, refer to the Eye-Fi card's instruction manual or contact the card manufacturer. Page 458 H Using Eye-Fi Cards Display the connection info.], then press . Check the [Access point SSID:]. Check that an access point is displayed for [Access point SSID:]. You can also check the Eye-Fi card's MAC address and firmware version. Page 459 H Using Eye-Fi Cards If [Wi-Fi/NFC] under [51: Wireless communication settings] is set to [Enable], image transfer with an Eye-Fi card is not possible. If "J" is displayed, an error occurred while retrieving the card ... Function ratio Automatically set/Auto ISO speed Manually set Automatically set PPPPPPPP Picture Style ... Page 463 Function Availability Table by Shooting) AI Focus AF One-Shot AF AF operation (Viewfinder AI Servo AF shooting) Servo AF AF area selection mode AF point AF-assist beam AF Microadjustment Program shift Exposure compensation... Page 464 Function Availability Table by Shooting Mode Still Photo Shooting in Creative Zone Modes o: Set automatically set/Auto ISO speed Manually set Automatically set Picture Style Manual selection Ambience-based shots Edition (Viewfinder AI Servo AF AF operation (Viewfinder AI Servo AF Microadjustment Program shift Exposure compensation AE lock Exposure ... Page 466 Function Availability Table by Shooting o: Set automatically k: User selectable / Disabled C 8 v Function Movie recording sizes selectable bigital zoom HDR movie shooting Creative filters Video snapshot Time-lapse movie Automatically set/Auto ISO speed Manually set Automatically set D D D P k... Page 467 Function Availability Table by Shooting Mode C 8 v Function Availability Sound recording Quick Control *1: Settable only when ISO Auto is set. System Map ST-E2 ST-E3-RT 270EX II 430EX III-RT/ 600EX-RT/ Macro Ring Lite Macro Twin Lite 430EX III-RT/ 600EX-RT/ Macro Ring Lite Macro Twin Lite 430EX III-RT/ 600EX-RT/ Macro Ring Lite Macro Ring Li Lenses Battery Pack Battery Charger LP-E6N LC-E6 or LC-E6E... Page 469 System Map Headphones GPS Receiver Remote Controller RS-60E3 Controller RA-E3 External microphone HDMI Cable HTC-100 (2.9 m/9.5 ft.) TV/Video Interface Cable IFC-400PCU (1.3 m/4.3 ft.) Connect Station CS100 Interface Cable IFC-200U/500U (1.9 m/6.2 ft.) / (4.7 m/15.4 ft.) Menu Settings Viewfinder Shooting 1 (Red) Page / 41 / 61 Image quality 73 / 83 / 74 / 84 / 7a / 8a / b / c Image review Off / 2 sec. / 4 sec. / 8 sec. / 4 sec. / 8 sec. / 4 sec. / 4 sec. / 8 sec. / 4 sec. / 8 secc. / 8 sec. / 8 sec. / 8 sec. / 8 secc. / 8 se shutter... 3 Menu Settings z: Shooting 2 (Red) Page Exposure 1/3- and 1/2-stop increments, ±5 stops* compensation/AEB (AEB ±3 stops) ISO speed for auto Disable / Low / Standard / High Auto Lighting Optimizer Disabled in M or B modes... Page 472 3 Menu Settings z: Shooting 4* (Red) Page Interval timer Disable / Enable (Interval / Number of shots) Bulb timer Disable / Enable (Exposure time) Anti-flicker shooting Disable / Enable (Exposure time) Anti-flicker shooting Disable / Enable (Exposure time) Anti-flicker shooting Disable / Enable (Interval / Number of shots) Bulb timer Disable / Enable (Exposure time) Anti-flicker shooting Disable (Exposure time) Anti-flicker shooting Disable / Enable (Exposure time) Anti-flicker shooting Disable (Exposure time) Anti-flicker shooting Disable (Exposure time) Anti-flicker shooting Disable (Exposure time) Anti-flicker shooting Disab (Blue) Page Protect images Protect images Rotate images Erase images Erase images Erase images Erase images Erase images for a photobook Grainy B/W / Soft focus / Fish-eye effect / Creative filters Art bold effect / Water painting effect / Toy camera effect / Miniature effect... Page 474 3 Menu Settings 5: Set-up 1 (Yellow) Page Select folder Create and select a folder File number Continuous / Auto reset / Manual reset Auto rotate OnzD / OnD / Off Format card Initialize and erase data on the card Displayed when a commercially-available Eye-Fi settings Eye-Fi card is inserted... Page 475 When using the GP-E2 attached to the hot shoe, preparations as above are not necessary. For how to update the GP-E2's firmware, refer to the Canon website. Wireless functions cannot be set if the camera is connected to a ... Page 476 3 Menu Settings 5: Set-up 4 (Yellow) Page Main Dial Quick Control Dial Multi function lock Multi-controller Touch control Custom shooting mode Register current camera settings to the Mode (C1, C2) Dial's w and x positions Clear all camera Resets the camera to the default settings Movie Shooting 1 (Red) Page 1 / 41 / 61 Image quality* 73 / 83 / 74 / 84 / 7a / 8a / b / c Image review Off / 2 sec. / 4 sec. / 8 sec. / Hold Beep Enable / Touch to n / Disable Release shutter... 3 Menu Settings 2: Shooting 2 (Red) Page Exposure 1/3- and 1/2-stop increments, ±3 stops compensation ISO speed * / Range for movies Disable / Low / Standard / High Auto Lighting Optimizer Disable din M or B modes Q (Ambience priority) / Qw (White priority) / White priority) / White priority / White p balance W/E/R/Y/U/D/O/P (Approx. Page 479 3 Menu Settings z: Shooting 4 (Red) Page Movie recording size (MOV format): • 1920x1080 • NTSC: 29.97p / 23.98p PAL: 25.00p Movie recording guality •... Page 480 3 Menu Settings z: Shooting 5 (Red) Page 4 sec. / 8 sec. / 8 sec. / 16 sec. / 30 sec. / 1 min. / Metering timer 10 min. / 30 min. Grid display Off / 3x3 l / 6x4 m / 3x3+diag n V button function a/-/q/-/a/k/q/k Video snapshot: Enable / Disable... If (1) the battery charger or battery has a problem or (2) communication with the battery failed (with a non-Canon battery), the protection circuit will stop charging, and the charge lamp will blink in orange at a high speed. In the case of (1), unplug the charger's power plug from the power will turn off automatically. [Does this battery/do these batteries display the Canon logo?] is displayed. Do not use any battery other than a genuine Battery Pack LP-E6N/LP-E6. Page 483 Troubleshooting Guide Shooting-Related Problems The lens cannot be attached. The camera (p.37). ... Page 484 Troubleshooting Guide The image is out of focus or blurred. Set the lens's focus mode switch to (p.47). Press the shutter button gently to prevent camera shake (p.49-50). If the lens has an Image Stabilizer, set the IS switch to Page 485 Troubleshooting Guide The continuous shooting speed is slow. The continuous shooting speed may become slower depending on the shutter speed, aperture, subject conditions, brightness, lens, flash use, temperature, battery type, remaining battery level, shooting function settings, etc. For details, see page 139. With FlexiZone - Multi, it takes longer to focus. Page 486 Troubleshooting Guide Even though I set a decreased exposure compensation, the image comes out bright. Set [22: Auto Lighting Optimizer] to [Disable]. When [Low], [Standard], or [High] is set, even if you set a decreased exposure compensation, the image may come out bright (p.169). Page 487 flash may stop firing for a while to protect the light-emitting unit. The external flash does not fire. If you use a non-Canon flash unit with Live View shooting, set [z6: Silent LV shoot.] to [Disable] (p.272). The external flash always fires at full output. Page 488 Troubleshooting Guide The camera makes a noise when it is shaken. The built-in flash's pop-up mechanism moves slightly. This is normal and not a malfunction. The shutter makes two shutter release sounds during Live View shooting. If you use flash, the shutter will make two shutter release sounds each ... Page 489 Troubleshooting Guide The ISO speed is set automatically. In the mode, you can freely set the ISO speed (p.299). The manually set ISO speed changes when switching to movie shooting. Page 490 Troubleshooting Guide Wireless functions cannot be set. If the camera is connected to a computer, GPS receiver, or other device with an interface cable, wireless functions cannot be set. If the camera is connected to a computer, GPS receiver, or other device with an interface cable

before changing any settings. Page 491 Troubleshooting Guide Display Problems The menu screen shows fewer tabs and options. In Basic Zone mode (p.58). Under the [9] tab, [Menu display] is set to [Display only My Menu ... Page 492 Troubleshooting Guide [###] is displayed. If the number of images recorded on the card exceeds the number the camera can display, [###] will be displayed (p.360). In the viewfinder, the AF point display speed is slow. In low temperatures, the display speed is slow. In low temperatures, the display speed of the AF point display speed is slow. protected, it cannot be erased (p. The movie cannot be played back. Movies edited with a computer cannot be played back. Troubleshooting Guide I cannot process the RAW image. 41 and 61 images cannot be processed with the camera. Use Digital Photo Professional (EOS software) to process the image (p.512). I cannot resize or crop the image cannot be resized or ... Troubleshooting Guide Computer does not work. When using EOS Utility (EOS software), set [z5: Time-lapse movie] to [Disable] (p.319). I cannot download images to a computer. Install the EOS software on the computer (p.513). ... Error Message and Solution Communications between the camera and lens, or remove and install the battery again (p.25, 26, 36). * UHS-I cards supported Image sensor size: Approx. 22.3 x 14.9 mm Compatible lenses: Canon EF lenses (including EF-S lenses) * Excluding EF-M lenses (35mm-equivalent angle of view is that of a lens with approx. 1.6x the focal length indicated.) Page 498 Specifications White balance: Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx. 2500-10000 K), White balance correction, and White balance bracketing provided * Flash color temperature information transmission enabled Noise reduction: Applicable to long exposures and high ISO speed shots... Page 499 Specifications Focus operation: One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF) AF area selection mode: Single-point AF (Manual selection of zone), 45-point automatic selection AF AF points can be selected automatically using selection conditions: information on colors equivalent to skin tones. Page 500 Specifications ISO speed settings: Range for stills, Auto range, and Minimum shutter speed for auto settable Exposure Manual: ±5 stops in 1/2-stop increments compensation) AE lock: Auto: Applied in One-Shot AF with evaluative... Page 501 RAW: Approx. 20 shots (approx. 25 shots) RAW+JPEG Large/Fine: Approx. 20 shots (approx. 22 shots) * Figures are based on Canon's testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8 GB card. * Figures in parentheses apply to an UHS-I compatible 16 GB card based on Canon's testing standards. Page 502 Specifications Creative filters: Provided Silent LV shooting: Provided (Mode 1 and 2) Touch shutter: Provided Grid display: Three types • Movie Shooting Recording format: MOV/MP4 Movie: MPEG-4 AVC / H.264 Variable (average) bit rate Audio: MOV: Linear PCM, MP4: AAC Recording size and frame rate: [MOV]... Page 503 Specifications Metering brightness EV 0 - 20 (at room temperature, ISO 100) range: Exposure control: Autoexposure shooting; ISO 100 - ISO 12800 set (Recommended automatically. Page 504 Specifications • Playback Image display (without shooting information), Single-image display (without shooting information), Single-image display (with basic information), Single-image display (without shooting information), Single-image display (without shooting information), Single-image display (with basic information), Singl aberration correction), Index display (4/9/36/100 images) Highlight alert: Overexposed highlights blink... Page 505 Specifications • Interface DIGITAL terminal: Computer communication (Hi-Speed USB equivalent), GPS Receiver GP-E2, Connect Station CS100 connection HDMI mini OUT Type C (Auto switching of resolution), CEC-compatible terminal: External microphone IN 3.5 mm diameter stereo mini-jack terminal: Remote control terminal: For Remote Switch RS-60E3 Wireless remote control. Compatible... Page 506 Dimensions (W x H x D): Approx. 69.0 x 33.0 x 93.0 mm / 2.7 x 1.3 x 3.7 in. Weight: Approx. 110 g / 3.9 oz. (excluding power cord) All the data above is based on Canon's testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines. Page 507 Trademarks of Microsoft Corporation in the United States and/or other countries. Macintosh and Mac OS are trademarks of Apple Inc., registered in the U.S. and ... Page 508 This product is designed to achieve excellent performance when used by the malfunction of nongenuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Page 509 EEE. Your cooperation in the correct disposal of this product, please contact your local city office, waste authority, approved scheme or your household waste disposal service or visit www.canon-europe.com/battery. Page 510 CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATION. Software Start Guide / Downloading Images to a Computer This chapter explains the following: Overview of the software for EOS cameras. How to download and install the software on a computer How to download and view the Software Overview of various software applications for EOS cameras. Internet connection is required to download and install the software. Download and installation are not possible in environments with no Internet connected to a computer, EOS Utility with the camera to the computer, Page 513 (The previous version will be overwritten.) Download the software. Connect to the Internet from a computer and access the following Canon website. www.canon.com/icpd Select your country or region of residence and download the software. Manuals (PDF files). Connect to the Internet and access the following Canon website. www.canon.com/icpd Select your country or region of residence and download the ... Downloading Images to a Computer You can use EOS software to download the images in the camera to a computer (p.513) Use an interface cable to connect the camera to the computer. Downloading Images to a Computer Downloading Images with a Card Reader You can use a card reader. Use Digital Photo Professional to download the images. Refer to the Digital Photo ... Index Numerics Angle of view48 Anti-flicker shooting 179 10- or 2-sec. self-timer140 Aperture-priority AE 194 1280x720 (movie)307 Art bold effect 268, 401 45-point AF auto selection120 Aspect ratio Page 518 Index Holding the camera49 Custom shooting CANON EUROPA N.V. PO Box 2262, 1180 EG Amstelveen, The Netherlands For your local Canon office, please refer to your warranty are provided in European countries by Canon Europa N.V. The descriptions in this Instruction Manual are current as of January 2016.

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