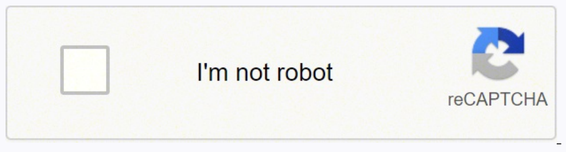
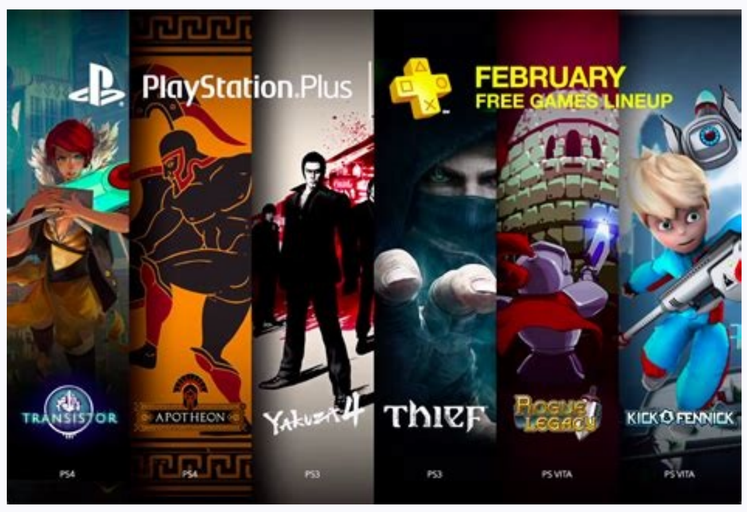


Continue

93721108.263158 7923426.826087 12299503.938272 9064880640 19020292.336842 58575198436 44687501.35 16764870.921348 149663149136 22075074.074468 15091847953 2228003960 24996390.946667 88607062584 3533665.4375 109416675.22222 54977202666 28355663.546667 14330422.265306

Canon eos 4000d specs pdf free online converter driver



Some settings may not be available. Some lenseshave indications such as on them. This is convenient when you want to focus and meterseparately.• AF/AF lock, no AE lock:Press the shutter button halfway to execute AF. (You cannot take another picture.)260Page 2613 Custom Function SettingsNC.Fn-5High ISO speed noise reductionThis function reduces the noise generated in the image. While you hold down the shutter buttonhalfway, the camera will keep focusing on the subjectcontinuously. The exposure is set at the moment the picture is taken. When the AF point selection (p.97) is automatic, the camera firstuses the center AF point to focus. This enables youto create a vertically oriented print from a horizontal image.Image Tilt CorrectionBy turning the dial, you can adjust the image tilt angle up to±10 degrees in 0.5-degree increments. (The previous version will be overwritten.) Page 9310This section explains an overview of various software applications for EOS cameras. 6.8 cm (2.7 in.) (4:3) with approx. 187File name ..... 30Av (Aperture-priority AE) ..... When you processthe RAW image with the EOS software, this allows you to generatean image with the same aspect ratio that was set for shooting. You can view, edit, and print RAW and JPEG images.* Some functions differ between the version to be installed on a 64-bit computer and that to be installed on a 32-bit computer.Picture Style EditorYou can edit Picture Styles, and create and save original Picture Style files. Note that the AF speed may differbetween the normal and magnified views. If you magnify the view after focusing with [FlexiZone - Single] inthe normal view, precise focus may not be achieved. If [u Live mode] is set, magnified view is not possible.149Page 150Using AF to Focus (AF Method)Shooting Conditions that Make Focusing Difficult Low-contrast subjects such as the blue sky, solid-color flat surfacesor when highlight or shadow details are lost. Subjects in low light. Stripes and other patterns where there is contrast only in thehorizontal direction. Subjects with repetitive patterns (Example: Skyscraper windows,computer keyboards, etc.). Fine lines and subject outlines. Under a light source whose brightness, color, or pattern keepschanging. Night scenes or points of light. The image flickers under fluorescent or LED lighting. Extremely small subjects. Subjects at the edge of the picture. Strongly backlit or reflective subjects (Example: Car with a highlyreflective body, etc.). The AF point covers both near and distant subjects (Example:Animal in a cage, etc.). Subjects that keep moving within the AF point and cannot keep stilldue to camera shake or subject blur. A subject approaching or moving away from the camera. Autofocusing while the subject is very far out of focus. Soft focus effect is applied with a soft focus lens. A special effect filter is used. Noise (dots of light, banding, etc.) appears on the screen during AF.150Page 151Using AF to Focus (AF Method) If focus is not achieved with the shooting conditions on the precedingpage, set the lens's focus mode switch to and focus manually. If you use AF with any of the following lenses, using [Quick mode] isrecommended. 706 (Night Portrait) ..... You cancheck horizontal or vertical tilt when shooting.143Page 144Menu Function Settings Aspect ratioNThe image's aspect ratio can be set to [3:2], [4:3], [16:9], or [1:1].The area surrounding the image area is masked in black when thefollowing aspect ratios are set: [4:3] [16:9] [1:1].JPEG images will be saved with the set aspect ratio. The selected aspectratio information is added to the RAW image file. 18.0 effective megapixels,DIGIC 4+, high-precision and high-speed 9-point AF, approx.3.0 shots/sec. In the mode, the shutter speed (1/60 sec. 4 meters / 13.1 feet. When you raise the built-in flash (p.103), the AF-assist beam will beemitted as necessary. The horizontal axisindicates the brightness level (darker on the left andDark imagebrighter on the right), while the vertical axis indicateshow many pixels exist for each brightness level. To turn on thedisplay, press the button. [Remains on]: Display remains on even when you press theshutter button halfway. Each ambience is a modification ofthe respective shooting mode's image characteristics.(2) VividThe subject will look sharp and vivid. Purchase a new one. The number of possible shots will decrease with any of the followingoperations:•••••Pressing the shutter button halfway for a prolonged period.Activating the AF frequently without taking a picture.Using the lens's Image Stabilizer.Using the LCD monitor frequently.Continuing Live View shooting or movie shooting for a prolongedperiod.• Using the Wi-Fi function.• The Eye-Fi card's communication function is operating.The camera turns off by itself. Auto power off is in effect. The photobook settingsmay be overwritten.254Page 25511Customizing theCameraoneCreativeZYou can make fine adjustments to various camerafunctions to suit your picture-taking preferences withCustom Functions. 224, 240, 275, 313CameraClearing the settings to default ... 202Clearing the camera settings to default..... 141, 164Fine (image-recording quality) ..... When you are not shooting, always turnoff the camera.Recording and Image Quality If the attached lens has an Image Stabilizer and you set the ImageStabilizer (IS) switch to , the Image Stabilizer will operate at alltimes even if you do not press the shutter button halfway. Good for portraits,pets, and other subjects to which you want to give a warm look.(5) IntenseWhile the overall brightness is slightly lowered, the subject isemphasized for a more intense feeling. Whenyou use EOS Utility (EOS software) to transfer images to a computer,the specified images will be copied into a dedicated folder. This software is aimed at advanced users who are experienced inprocessing images.310Page 311Software Start GuideDownloading and Installing the Software Do not connect the camera to your computer before you install thesoftware. Select the desiredimage-recording quality, then press .2: Flash exposure compensationThe flash exposure compensation setting screen will appear. The image'scolor balance will be adjusted towardthe color in the direction of the move. On the right of the screen, "Shift"indicates the direction and correctionamount, respectively. Pressing the button willcancel all the [WB Shift/Bkt.] settings. Press to exit the setting andreturn to the menu. When the white balance is corrected, will be displayed in theviewfinder and on the LCD monitor. One level of the blue/amber correction is equivalent to approx. correct.], thenpress .the setting.2 Select Check that [Correction dataavailable] is displayed for theattached lens. If [Correction data not available] isdisplayed, see "Lens Correction Data"on the next page. Select [Enable], then press .the picture.3 Take The image will be recorded with theperipheral illumination corrected.Correction disabled122Correction enabledPage 1233 Correcting the Image's Dark CornersLens Correction DataThe camera already contains lens peripheral illumination correctiondata for approx. Ten imagerecording quality settings are provided: 73, 83, 74, 84, 7a,8a, b, c, 1+73, 1.1Select the image-recordingquality. Under the [z1] tab, select [Imagequality], then press . [Image quality] will appear.Pixels recorded (pixel count)Possible shotsthe image-recording quality.2 Set Select the image-recording quality,referring to the respective quality'spixel count and number of possibleshots displayed on the screen, thenpress .86Page 873 Setting the Image-Recording QualityGuide to Image-Recording Quality Settings (Approx.)Image Quality73837484Highqualityb18MMediumquality8.0MJPEG7a8a4.5MLowqualityc1+731PixelsRecorded(megapixels)HighqualityFile Size(MB)PossibleShotsMaximumBurst6.41110Full3.22190Full3.42100Full1.74100Full2.23270Full1.16210Full2.5M1.35440Full0.3M0.321060Full24.5+6.4230524.5290618M The file size, possible shots, and maximum burst during continuous shootingare based on Canon's testing standards (3:2 aspect ratio, ISO 100 andStandard Picture Style) using an 8 GB card. You canalso select the AF point (p.152).1a function and set it.2 Select Press the keys to select afunction. The settings of the selected functionand Feature guide (p.55) will appear. Press the keys or turn the dial to set the function.Pressing will display therespective function setting screen. To set Auto white balance, select[Q], press , then press the button.the setting.3 Exit Press the button to return tomovie shooting.For manual exposures, ISO speed can also be set (p.160).165Page 1663 Setting the Movie Recording SizeThe menu option [k2: Movie rec. 273319Page 320IndexSingle-image display..... 82Single-point AF ..... 97Slide show .....220Small (image-recording quality) .....28Soft focus.....236Sports.....69sRGB .....135Stop down aperture.....264Strap .....33System map.....274TTemperature warning .....155, 179Time zone .....41Tone priority .....175, 261Toning effect (monochrome) .....126Toy camera effect .....236Tripod socket .....27Troubleshooting .....282Tv (Shutter-priority AE) .....106UUSB (digital) terminal.....240, 313VVideo snapshot album .....168Video snapshots .....168Video system .....166, 177Viewfinder .....29Dioptric adjustment.....46Viewing on a TV set.....214, 224320WWhite balance (WB) ..... 94FE lock ..... 114Auto exposure bracketing(AEB) ..... Otherwise, the aperture remains fully open.Therefore, when you look at the scene through the viewfinder or on theLCD monitor, the depth of field will look narrow. 218Enjoying ..... 52Low-level formatting..... 59 min.340 MB/min.11 min.44 min.2 hr. Using it withan incompatible battery charger or product may result in malfunction oraccidents for which Canon cannot be held liable.35Page 36Installing and Removing the Battery and CardLoad a fully charged Battery Pack LP-E10 into the camera. 31, 34Checking depth of field..... 197BULB (bulb exposure) ..... (Inthe mode, [Qw] (White priority) is set.)1Press the button. [White balance] will appear.a white balance setting.2 Select Press the keys or turn the dial to select the desiredsetting, then press . The "Approx. If you select [Clear all on card], the printorder will be cleared for all the images on the card. Note that RAW images and movies will not be included in the print ordereven if you set [Byn] or [All images]. When using a PictBridge-compatible printer, do not specify more than400 images for one print order. If the Eye-Fi card has a write-protect switch set to theLOCK position, you will not be able to check the card's connectionstatus or disable Eye-Fi transmission (p.269).Playback ProblemsPart of the image blinks in black. It is the highlight alert (p.232). This is to avoiddamaging the camera. 25, 36, 52Card reminder ..... With an externalSpeedlite, high-speed sync will also be possible.1: 1/200-1/60 sec. Even if you take the picture in magnified view, the image area forthe normal veiw will be captured. If you use a TS-E lens and shift or tilt the lens or use an Extension Tube,the standard exposure may not be obtained or the exposure may beirregular.155Page 156General Live View Shooting CautionsLive View Image Under low- or bright-light conditions, the Live View image may not reflectthe brightness of the captured image. Even if a low ISO speed is set, noise may be noticeable in the displayedLive View image under low light. 274Menu Settings ..... (Mired: Measuring unit indicatingthe density of a color temperature conversion filter.)133Page 134u Adjusting the Color Tone for the Light SourceNWhite Balance Auto BracketingWith just one shot, three images with different color tones can be recordedsimultaneously. If the error persists, use a different card.If you can transfer all the images on the card to a computer, transfer allthe images and then format the card with the camera (p.52). The display may be difficult to seedepending on the angle.Lens Mount MaintenanceIf dust adheres to the lens mount, wipe it off with a dry andclean cloth. The image will be displayed onthe LCD monitor at the standard brightness. 129315Page 316IndexColor tone .....70, 125Continuous file numbering .....186Continuous shooting .....100Contrast .....125Copyright information.....188Creative Auto .....63Creative filters.....234M (Creative Zone) icon.....8Creative Zone modes .....30Custom Functions.....256Custom white balance .....131DDate/time .....41Daylight saving time.....42Depth-of-field preview.....110Dial.....26, 105Digital terminal .....240, 313Direct printing.....240DPOF (Digital Print Order Format)...249Drive/Self-timer .....100, 101Dust Delete Data .....200EErasing images .....228Error codes .....294Evaluative metering .....113Exposure compensation .....114Exposure level increments.....258External flash .....268Custom Functions .....199Eyecup.....102Eye-Fi cards.....269Eyepiece cover .....33, 102316FFaithful ..... "0"5" indicates 0.5 sec. Note that the printed image may lookslightly different from the displayed image, which is only an approximation.This also applies to [Brightness] and [Adjust levels] on page 246.If you imprint shooting information on an image shot at an expanded ISOspeed (H), the correct ISO speed may not be imprinted.244Page 245w Printingthe date and file number5 Setimprinting. Set them if necessary. Select , then press . Set the print settings as desired, thenpress .the number of copies.6 Set Set it if necessary. Select , then press . Set the number of copies, then press.printing.7 Start Select [Print], then press . The [Default] setting for printing effects and other options are theprinter's own default settings as set by the printer's manufacturer. 214k Playing Back Movies ..... After themanual reset, the file numbering returns to continuous or auto reset.(There will be no manual reset confirmation dialog.)If the file number in folder 999 reaches 9999, shooting will not be possibleeven if the card still has storage capacity. Set [52: LCD brightness] to 4, and look at the LiveView image, preventing the surrounding light from affecting the imageviewing.If you do not want the Live View image to be displayed when settingfunctions, press the button after step 1 and set [Ambience-basedshots] and [Effect].76Page 77Shooting with Ambience SelectionAmbience Settings(1) Standard settingStandard image characteristics for the respective shooting mode.Note that has image characteristics geared for portraits and is geared for landscapes. The movie will still berecorded in the movie-recording size that was set. If you connect the camera to a TV set (p.224) and shoot a movie, the TVset will not output any sound during the shooting. This iseffective when you prefer to control the exposure in less fineincrements than 1/3-stop increments.When 1 is set, the exposure level will be displayed in the viewfinder and onthe LCD monitor as shown below.C.Fn-2ISO expansion0: Off1: OnWhen you set the ISO speed, you will be able to set "H"(equivalent to ISO 12800). Hold the camera steady or use a tripod.When using a zoom lens, use a wide angle to reduce blur caused bycamera shake even with handheld shooting. When shooting portraitsIn low-light conditions, tell the subject to keep still until the picture istaken.(The image quality of the Live View imageis different from that of the recorded image.) If the light source (illumination) within the image changes, the screenmay flicker. 31519Page 20Safety InstructionsBe sure to read these instructions in order to operate the product safely.Follow these instructions to prevent injury or harm to the operator of theproduct or others.WARNING:Denotes the risk of serious injury or death. Keep the product out of the reach of young children.A strap wrapped around a person's neck may result in strangulation.The parts or provided items of cameras or accessories are dangerous if swallowed. To start LiveView shooting again, press the button again.• Selecting [z3: Dust Delete Data], [52: Clean manually], [53: Clearsettings], or [53: Firmware Ver.]• Turning the Mode Dial past 145Page 146Using AF to Focus (AF Method)Selecting the AF MethodYou can select an AF method to suit the shooting conditions and yoursubject. B is for blue, A for amber, M formagenta, and G for green. 663 Shooting Landscapes ..... - 1/60 sec. To set the aperture, hold down the button and turn the dial.the ISO speed.5 SetPressthe button, select [ISOspeed] with the keys, thenpress . Press the keys or turn the dial to set the function. For details on the ISO speed, see thenext page.160Page 161k Shooting Moviesand shoot the movie.6 Focus The procedure is the same as steps 2and 3 for "Autoexposure Shooting"(p.158).ISO Speed During Manual Exposure Shooting With [Auto], the ISO speed will be set automatically within ISO 100 ISO 6400. You can set the ISO speed manually within ISO 100 - ISO 6400 inwhole-stop increments. If [k1: k Highlight tone priority] is set to [Enable], the ISOspeed will be ISO 200 - ISO 6400. AE lock and exposure compensation cannot be set. Changing the shutter speed or aperture during movie shooting is notrecommended since the changes in the exposure will be recorded. If you change the shutter speed while shooting a movie underfluorescent or LED lighting, image flicker may be recorded. With ISO Auto, the movie shooting can record a suitable exposure evenwhen the ambient brightness changes. By pressing the button, you can display the histogram. When shooting a movie of a moving subject, a shutter speed of 1/30 sec.to 1/125 sec. 59 sec. 209Setting Ratings ..... 92JJPEG ..... 674 (Close-up) ..... Improper handling of thistype of waste could have a possible impact on the environment and humanhealth due to potentially hazardous substances that are generally associatedwith EEE. The function's setting screenwill appear. Press the keys or turn the dial to change some of thesettings. Also, do not shake theproduct or expose the product to strong impacts. Do not apply strong pressure on the lens or allow an object to hit it.This may cause injury or damage to the product. Flash emits high temperatures when fired. Select [OK] onr Delete without savingthe confirmation dialog.to album (Step 5)[Playback video snapshot] OperationsFunctionPlayback Description2 ExitThe previous screen will reappear.7 PlayBy pressing , you can play back or pause the videosnapshot recorded immediately before.5 First frameDisplays the first scene of the album's first video snapshot.P Skip backward*Each time you press , the video snapshot skips backby a few seconds.3 Previous frameEach time you press , the previous frame isdisplayed. If the icon blinks in the viewfinder, raise the builtin flash. Auto built-in flash : The flash fires automatically whennecessary. Built-in flash on : The flash fires at all times. Built-in flash off : The flash is disabled.When not using the built-in flash, see thenotes on page 60 for shooting.65Page 662 Shooting PortraitsThe (Portrait) mode blurs the background to make the humansubject stand out. 1-sec. 192Rotation (image)..... You can select the monochromecolor to be blue, black and white, or sepia. 4 meters / 13.1 feet. The flash fired and the picture came out extremely bright.Move further away from the subject and shoot. 10 secondsafter you press the shutter button, theset number of multiple shots will betaken.When using the self-timer, see thenotes on page 101 for shooting.(4) Built-in flash firing: Press and set it with the keysor dial. The dynamic range is expanded fromthe standard 18% gray to bright highlights. to 1/500 sec.according to the speed of the moving subject. To blur a running child or animal and convey an impression ofmotionUse a medium shutter speed such as 1/250 sec. (Theycannot be set individually for each image.)Setting the Printing Options1Select [Print order]. Under the [x1] tab, select [Printorder], then press .[Set up].2 Select Select [Set up], then press .the option as desired.3 Set Set the [Print type], [Date], and [FileNo.]. Select the option to be set, then press. setting],you can set the functions in the table below. Asubject in the shade will look more calm and impressive.77Page 78Shooting with Ambience Selection(7) BrighterThe picture will look brighter.(8) DarkerThe picture will look darker.(9) MonochromeThe picture will be monochrome. 54Feature Guide ..... If theimage is cropped, the print may look grainier due to the fewer number of pixels.243Page 244w Printingthe printing effects (image4 Setoptimization). Set them if necessary. comp] and [E-TTL II meter.] can be set for[External flash func. 258C.Fn I: Exposure ..... If there are too many pixels on the left, the respective colorinformation will be lacking. Attach the battery to the charger again and wait a while beforeconnecting the charger to a power outlet again. 20 lenses. Look at the peak hold indicator, andadjust so that the level meter sometimes lights up onthe right of the "12" (-12 dB) mark for the loudestsounds. The default settings are the sameas the mode.* CA stands for Creative Auto.1Set the Mode Dial to .the button (7).2 Press The Quick Control screen will appear.the desired function.3 Set Press the cross keys to select afunction. The settings of the selected functionand Feature guide (p.55) will appear. For the setting procedure and detailson each function, see pages 64-65.the picture.4 Take Press the shutter button completely totake the picture.63Page 64C Creative Auto Shooting(1)Shutter speedApertureISO speed(2)(3)Battery level(4)Possible shotsImage-recording qualityPressing the button enables you to set the following:(1) Ambience-based shotsYou can select and shoot with the ambience you want to convey inyour images. 46Settings display..... 483 Menu Operations..... If [Y] is set, thedaylight saving time will be canceledand the time will go back by 1 hour.the setting.6 Exit Press the keys to select[OK], then press . The date/time/zone and daylightsaving time will be set and the menuwill reappear.The date/time/zone settings may be reset in the following cases. If focusing is difficult in magnified view, return to thenormal display and use AF. 23Nomenclature ..... If this happens,unplug the charger's power plug from the power outlet and detach thebattery. Themore pixels there are toward the left, the darker theimage. 112CC (Creative Auto) ..... 1 hr. Before performing anoperation, turn the Mode Dial to the corresponding mode.It is assumed that all the menu settings and Custom Functions areset to their defaults.The illustrations in this manual show the camera attached with theEF-S18-55mm f/3.5-5.6 IS II lens as an example.The sample photos used in this manual are only for illustrativepurposes to show the effects more clearly.8Page 9ChaptersIntroduction123456789101112132Getting Started33Basic Shooting and Image Playback57Creative Shooting83Advanced ShootingShooting with the LCD Monitor (Live ViewShooting)105137Shooting Movies157Handy Features181Image Playback205Post-Processing Images233Printing Images239Customizing the Camera255Reference267Software Start Guide /Downloading Images to a Computer3099Page 10Contents at a GlanceShooting Shoot automatically p.57-81 (Basic Zone modes) Shoot continuously p.100 (i Continuous shooting) Take a picture of yourself in a group p.101 (j Self-timer) Freeze the action Blur the action p.106 (s Shutter-priority AE) Blur the background p.63 (C Creative Auto) Keep the background in sharp focus p.108 (f Aperture-priority AE) Adjust the image brightness (exposure) p.114 (Exposure compensation) Shoot in low light p.58, 103 (D Flash photography)p.90 (ISO speed setting) Shoot fireworks at night p.112 (Bulb exposure) Shoot while viewing the LCD monitor p.137 (A Live View shooting) Shoot movies p.157 (k Movie shooting)Image Quality Shoot with image effectsmatching the subject p.93 (Picture Style) Make a large-size print of the picture p.86 (73, 83, 1) Take many pictures10 p.86 (7a, 8a, b, c)Page 11Focusing Change the point of focus p.97 (S AF point selection) Shoot a moving subject p.69, 96 (AI Servo AF)Playback View the images on the camera p.82 (x Playback) Search for pictures quickly p.206 (H Index display)p.207 (I Image browsing) Rate images p.210 (Ratings) Prevent important imagesfrom accidental deletion p.226 (K Image protect) Delete unnecessary images p.228 (L Delete) Auto play back photos and movies p.220 (Slide show) View the photos or movies on a TV set p.224 (TV set) Adjust the LCD monitor brightness p.183 (LCD monitor brightness) Apply special effect to images p.234 (Creative filters)Printing Print pictures easily p.239 (Direct printing)11Page 12Index to FeaturesPowerImage QualityImage-recording quality p.86Battery• Charging• Installing/Removing• Battery level p.34 p.36 p.40Picture Style p.93White balance p.129Color space p.135Auto power off p.39Image enhancement features• Auto Lighting Optimizer p.121• Lens peripheralillumination correction p.122• Noise reduction forlong exposures p.260• Noise reduction forhigh ISO speeds p.261• Highlight tone priority p.261CardsInstalling/Removing p.36Formatting p.52Release shutterwithout card p.182LensAttaching/Detaching p.44Zoom p.45Basic SettingsLanguage p.43Date/Time/Zone p.41Beeper p.182LCD off/on button p.195LCD brightnessadjustment p.183Recording ImagesCreating/Selectinga folder p.184File numbering p.18612AFAF operation p.95AF point selection p.97Manual focusing p.99DriveDrive mode p.28Continuous shooting p.100Self-timer p.101Maximum burst p.88ShootingShooting mode p.30ISO speed p.90Feature guide p.55Bulb p.112Metering mode p.113Quick Control p.48Page 13Index to FeaturesExposureExposure compensation p.114AEB p.116AE lock p.118Flash p.103Image browsing(Jump display) p.207Magnified view p.208Image rotate p.209Rating p.210Movie playback p.216Editing out movie'sfirst/last scene p.218Slide show p.220 p.224Built-in flash• Flash exposurecompensation• FE lock p.115 p.119External flash p.268Viewing images on aTV setFlash control p.196Protect p.226Erase p.228Quick Control p.212Live View ShootingLive View shooting p.137Autofocusing (AF)methods p.146Aspect ratio p.144Grid p.143Quick Control p.142Movie ShootingMovie shooting p.157Sound recording p.176Image EditingCreative filters p.234Resize p.237PrintingPictBridge p.242Print Order (DPOF) p.249Photobook Set-up p.253CustomizationGrid p.177Manual exposure p.160Custom Functions (C.Fn) p.256Quick Control p.165My MenuVideo snapshot p.168PlaybackImage review time p.182Single-image display p.82 p.265SoftwareSoftware Start Guide p.310Software InstructionManuals p.312Wireless FunctionsShooting informationdisplay p.230Index display p.206 Wireless Function InstructionManual13Page

14ContentsIntroduction2Item Check List..... 192Turning the LCD Monitor Off/On .....195Changing the Shooting Settings Screen Color.....195Setting the Flash ..... 212k Enjoying Movies ..... If there aremore than 999 images with a given rating, [###] will be displayed.Taking Advantage of Ratings With [x2: Image jump w/6], you can display only images having thespecified rating. With [x2: Slide show], you can play back only images having thespecified rating. Depending on the computer OS, you can see each file's rating as part ofthe file information display or in the provided image viewer (JPEGimages only).211Page 212Q Quick Control for PlaybackDuring playback, you can press the button to set any of thefollowing: [J: Protect images], [b: Rotate image], [9: Rating],[U: Creative filters], [S: Resize (JPEG images only)], and [e: Imagejump w/6].For movies, only the functions in bold above can be set.1Press the button. During image playback, press the button. The Quick Control options willappear.a function and set it.2 Select Press the keys to select afunction. The name and current setting of theselected function are displayed at thebottom of the screen. Set it by pressing the keys. For Creative filters and Resize, press and set the function. 1-393124127Flash controlK Shooting 2 (Red)Shaded menu options are not displayed in Basic Zone modes.276Page 2773 Menu SettingsL Shooting 3 (Red)PageDust Delete DataObtains data to be used to erase dust spots200ISO AutoMax.:400 / Max.:800 / Max.:1600 / Max.:3200 /Max.:640092Live View shootingEnable / Disable139AF methodFlexiZone - Single / uLive mode / Quick mode146Grid displayOff / Grid 1l / Grid 2m143Aspect ratio3:2 / 4:3 / 16:9 / 1:1144Metering timer4 sec. The image's color balance will be adjustedtoward the color in the direction of the move. If you select [Clear all], all the printing effect settings will be reverted totheir defaults.246Page 247w PrintingCropping the ImageTilt correctionYou can crop the image and print only anenlarged version of the cropped portion,as if the image is recomposed.Set the cropping right before printing.If you change the print settings aftersetting the cropping, you may have to setthe cropping again before printing.1 On the print setting screen, select [Cropping].2 Set the cropping frame size, position, and aspect ratio. The image area within the cropping frame will be printed. 17.9 megapixels (5184 x 3456)* Rounded to the nearest 100,000. The image will have a barrel-typedistortion.Depending on the level of this filter effect, the area trimmed alongthe periphery of the image changes. If you set AEB in combination with white balancebracketing, a total of nine images will be recorded for a single shot. Since three images are recorded for one shot, it takes longer to recordthe image on the card. During Live View shooting, the white balance icon will blink. "Bkt." stands for bracketing.134Page 1353 Setting the Color Reproduction RangeNThe range of reproducible colors is called "color space". Move further away from thesubject and shoot. 10 min. If thecamera has been exposed to salty air, wipe it with a well-wrung wet cloth. Never leave the camera near anything having a strong magnetic field suchas a magnet or electric motor. 216X Editing a Movie's First and Last Scenes ..... may prohibit photographyeven for private enjoyment.2Page 3Item Check ListBefore starting, check that all the following items are included with yourcamera. 259Manual flash ..... 36Turning on the Power ..... Use the keys to move the frame overthe face you want to focus on.147Page 148Using AF to Focus (AF Method)on the subject.3 Focus Press the shutter button halfway andthe camera will focus on the facecovered by the frame. When focus is achieved, the AF pointwill turn green and the beeper willsound. If focus is not achieved, the AF pointwill turn orange. If a face cannot be detected, the AFpoint < > will be displayed and AFwill be executed at the center.the picture.4 Take Check the focus and exposure, thenpress the shutter button completely totake the picture (p.138). If the subject's face is significantly out of focus, face detection will not bepossible. Decrease the ISOspeed.Differences Between and In the mode, many functions, such as the AF operation and meteringmode, are set automatically to prevent spoiled shots. 113Charger ..... You can then press the cross keys to move the AF point.Press again to return to [u(Face detection) Live Mode].(If C.Fn-9 is set, hold down the button and press .) Since AF is not possible with a face detected near the edge of thepicture, the will be grayed out. Also, some functions can beset by pressing the button. Press to finalize the setting andreturn to the Quick Control screen.49Page 503 Menu OperationsYou can set various settings with the menus such as the imagerecording quality, date and time, etc. buttonLCD monitor cross keys buttonMenu ScreenThe menu tabs and items displayed will differ depending on theshooting mode.Basic Zone modesMovie shooting modeCreative Zone modes3PlaybackzShooting5Set-up9My MenuTabMenu settingsMenu items50Page 513 Menu OperationsMenu Setting Procedure1Display the menu screen. Press the button to displaythe menu screen.a tab.2 Select Press the cross keys toselect a tab (group of functions). For example, in this manual, "the [z3]tab" refers to the screen displayedwhen the third z (Shooting) tab fromthe left [L] is selected.the desired item.3 Select Press the cross keys toselect the item, then press .the setting.4 Select Press the or cross keys to select the desired setting.(Some settings are selected with the and keys, and others areselected with the and keys.) The current setting is indicated in blue.the desired setting.5 Set Press to set it.the setting.6 Exit Press the button to return tothe shooting function settings display. In step 2, you can also turn the dial to select a menu tab. The explanation of menu functions hereafter assumes that you havepressed the button to display the menu screen. To cancel the operation, press the button. For details about each menu item, see page 276.51Page 523 Formatting the CardIf the card is new or was previously formatted by another camera orcomputer, format the card with this camera.When the card is formatted, all images and data on the card will beerased. 108Depth-of-Field Preview .....110a: Manual Exposure ..... 2 sec.With (p.101) set, the number of continuous shots will be threetimes the number set. AEB will not work with flash or bulb exposures. If [z2: Auto Lighting Optimizer] (p.121) is set to any setting otherthan [Disable], the effect of AEB may be reduced.117Page 118A Locking the ExposureNYou can lock the exposure when the area of focus is to be different fromthe exposure metering area or when you want to take multiple shots atthe same exposure setting. For vivid blues and greens, andvery sharp and crisp images.Shooting Tips With a zoom lens, use the wide-angle end.When using the wide-angle end of a zoom lens, objects near and farwill be in focus better than at the telephoto end. 191Camera shake ..... To return tothe single-image display, press the button.the image to be specified.3 Select Press the keys to selectthe image to be specified, then pressthe keys. Repeat this step to select anotherimage. When [Monochrome] isselected, will appear in the viewfinder.78Page 79Shooting by Lighting or Scene TypeIn the , , , and Basic Zone modes, you can shootwith the settings matching the lighting or scene type. 1.5x - 10xOverexposed highlights blinkSingle image, jump by 10 or 100 images, by shootingdate, by folder, by movies, by stills, by ratingPossibleProvidedEnabled (LCD monitor, HDMI)Sound playback on the camera not possiblePossibleAll images, by date, by folder, by movies, by stills, byratingFive transition effects selectableSelectable for slide shows and movie playback• Post-Processing of ImagesCreative filters:Resize:Grainy B/W, Soft focus, Fish-eye effect, Toy cameraeffect, Miniature effectPossible• Direct PrintingCompatible printers:Printable images:Print ordering:PictBridge-compatible printersJPEG and RAW imagesDPOF Version 1.1 compatible• Customization FeaturesCustom Functions:My Menu registration:Copyright information:10PossibleEntry and appending possible299Page 300Specifications• InterfaceDigital terminal:Hi-Speed USB equivalent: Computer communication,Direct printing, Connect Station CS100 connectionType C (Auto switching of resolution)HDMI mini OUTterminal:Remote control terminal:Not providedEye-Fi card:Compatible• PowerBattery:Number of possibleshots:(Based on CIPA testingstandards, with 50%flash use)Movie shooting time:Battery Pack LP-E10 (Quantity 1)With viewfinder shooting:Approx. The camera is notequipped with a speaker.216Page 217k Playing Back MoviesMovie Playback PanelOperationPlayback Description2 ExitReturns to the single-image display.7 PlayPressing toggles between playback and stop.8 Slow motionAdjust the slow motion speed by pressing the keys. If this happens, turn the dial to the left to seta lower f/number or increase the ISO speed.If the picture will be too bright, the "4000" (1/4000 sec.) shutterspeed display will blink. However, the actual image recorded will reflect theexposure setting. The timerequired to recharge the battery will vary greatly depending onthe ambient temperature and the battery's remaining capacity. For safety reasons, recharging in low temperatures (6°C - 10°C /43°F - 50°F) will take longer (up to approx. This feature can also be used with a CanonEX-series Speedlite.* FE stands for Flash Exposure.1Raise the built-in flash with yourfingers. Press the shutter button halfway andlook in the viewfinder to check thatthe icon is lit.2 Focus on the subject.the button (8).3 Press Aim the viewfinder center over thesubject where you want to lock the flashexposure, then press the button. The flash will fire a preflash and therequired flash output is calculatedand retained in memory. In the viewfinder, "FEL" is displayedfor a moment and will light up. Each time you press the button,a preflash is fired and the requiredflash output is calculated and retainedin memory.the picture.4 Take Compose the shot and press theshutter button completely. The flash is fired, and the picture istaken.119Page 120A Locking the Flash ExposureN If the subject is too far away and the captured image comes out dark, the icon will blink. You can then better understand the camera. Zooming during movie shooting mayresult in recording of changes in exposure or mechanical sound of thelens, or images may be out of focus. During movie shooting, you cannot magnify the image even if you pressthe button. If you connect or disconnect the HDMI cable during movie shooting, themovie shooting will end. Be careful not to cover the built-in microphone (p.158) with your finger,etc. General Movie Shooting Cautions are on pages 179-180. If necessary, also read General Live View Shooting Cautions onpages 155-156.163Page 164k Shooting Movies Movie-related settings are under the [k1], [k2], and [k3] tabs(p.174). A movie file is recorded each time you shoot a movie (p.167). The movie image's field of view is approx. Press thebutton again to return to theshooting settings screen.Captured Image Appears when you press the button. Also, toprevent botched pictures due to mistaken operations,advanced shooting function settings cannot be changed.Basic ZoneAuto Lighting OptimizerIn Basic Zone modes, the Auto Lighting Optimizer (p.121) willadjust the image automatically to obtain the optimum brightnessand contrast. For details, refer to theprinter's instruction manual.Printer-connected icon1Select the image to be printed. Check that the icon isdisplayed on the upper left of the LCDmonitor. Press the keys to selectthe image to be printed..2 Press The print setting screen will appear.Print setting screenSets the printing effects (p.244).Sets the date or file number imprinting to on or off.Sets the quantity to be printed.Sets the print area (p.247).Sets the paper size, type, and layout.Returns to the screen in step 1.Starts the printing.The paper size, type, and layout you have set are displayed.* Depending on the printer, certain settings such as the date and filenumber imprinting and cropping may not be selectable.[Paper settings].3 Select Select [Paper settings], then press. The paper settings screen willappear.242Page 243w PrintingQSetting the Paper Size Select the size of the paper loaded inthe printer, then press . The paper type screen will appear.YSetting the Paper Type Select the type of the paper loaded inthe printer, then press . The page layout screen will appear.USetting the Page Layout Select the page layout, then press. The print setting screen will reappear.BorderedPrints with white borders along the edges.BorderlessPrints with no borders. 183Image playback..... / 30 min.145M Shooting 4* (Red)* In Basic Zone modes, these menu options are displayed under the [z2] tab.1 Playback 1 (Blue)Protect imagesProtect images226Rotate imageRotate images209Erase imagesErase images228Print orderSpecify images to be printed (DPOF)249Photobook Set-upSpecify images for a photobook253Creative filtersGrainy B/W / Soft focus / Fish-eye effect /Toy camera effect / Miniature effect234ResizeDownsize JPEG image's pixel count237277Page 2783 Menu Settings2 Playback 2 (Blue)PageHistogram displayBrightness / RGB232Image jump w/61 image / 10 images / 100 images / Date /Folder / Movies / Stills / Rating207Slide showPlayback description / Display time / Repeat /Transition effect / Background music220Rating[OFF] / l / m / n / o / p21030 sec. It indicates how much data has not yet beenwritten to the card (remaining capacity of the internal buffermemory). The menu operations and image playback will beavailable as usual.If you pressed the button to display the shooting functionsettings and then turned off the camera, the shooting settings willbe displayed when you turn on the camera again.264Page 2653 Registering My MenuNUnder the My Menu tab, you can register up to six menu options andCustom Functions whose settings you change frequently.1Select [My Menu settings]. Under the [9] tab, select [My Menusettings], then press .[Register to My Menu].2 Select Select [Register to My Menu], thenpress .the desired items.3 Register Select the item, then press . On the confirmation dialog, select[OK] and press to register theitem. You can register up to six items. To return to the screen in step 2,press the button.My Menu Settings SortYou can change the order of the registered items in My Menu. If [51: Auto rotate]is set to [OnD] or [Off], the [b Rotate image] setting will be recorded tothe image, but the camera will not rotate the image for display. Pressing the button during the index display will switch to thesingle-image display and the Quick Control icons will appear. It cannot be printed with the specified print order if you just extractimages from the card and try to print them. Certain DPOF-compatible printers and photofinishers may not be able toprint the images as you specified. The display will remain off evenafter you let go of the shutter button. A slow shutter speed may solve the problem.The standard exposure cannot be obtained or theexposure is irregular. If you use a TS-E lens and shift or tilt the lens or use an ExtensionTube, the standard exposure may not be obtained or the exposuremay be irregular.The continuous shooting speed is slow. Depending on the lens type, shutter speed, aperture, subjectconditions, brightness, etc., the continuous shooting speed maybecome slower.The maximum burst during continuous shooting is lower. Under [53: Custom Functions (C.Fn)], set [5: High ISO speednoise reduct'n] to [0: Standard], [1: Low], or [3: Disable]. You can set the flash exposurecompensation up to ±2 stops in 1/3-stop increments.1Press the button (7). The Quick Control screen will appear(p.48).[y].2 Select Press the cross keys to select[y*]. [Flash exposure comp.] will bedisplayed at the bottom.the flash exposure3 Setcompensation amount. If the exposure is too dark, turn the dial to the right (for increasedexposure).If the exposure is too bright, turn the dial to the left (for decreasedexposure). When you press the shutter button halfway, the icon willappear in the viewfinder. After taking the picture, cancel the flash exposurecompensation by setting it back to 0.If [z2: Auto Lighting Optimizer] (p.121) is set to any setting other than[Disable], the image may still look bright even if a decreased exposurecompensation or decreased flash exposure compensation is set.You can also set flash exposure compensation with [Built-in flash func.setting] in [z1: Flash control] (p.197).115Page 1163 Auto Exposure BracketingNThis feature takes exposure compensation a step further by varying theexposure automatically (up to ±2 stops in 1/3-stop increments) withthree shots as shown below. or tobulb.BULB: Bulb ExposuresElapsed exposure timeA bulb exposure keeps the shutter openfor as long as you hold down the shutterbutton. speed inAv mode] to [0: Auto] (p.259).The camera makes a noise when it is shaken. A small noise may be heard when the camera's internal mechanismmoves slightly. This is useful if youwant to organize images by cards or folders.If the replacement card or existing folder already contains imagesrecorded previously, the file numbering of the new images maycontinue from the file numbering of the existing images on the cardor in the folder. RAW imageswill always be saved with the [3:2] aspect ratio. The exposure is set at themoment the picture is taken. 34Installing and Removing the Battery and Card ..... (The focus indicator does not light up.)It indicates that the camera is focusing continuously on a movingsubject. Page 16 303Use of genuine Canon accessories is recommendedThis product is designed to achieve excellent performance when used with genuine Canon accessories.Canon shall not be liable for any damage to this product and/or accidents such as fire, etc. Thisilluminates the subject to help autofocusing. When the built-in flash is retracted, it will not emit the AF-assist beam. The AF-assist beam will not be emitted when AF operation is AI ServoAF, when in or mode, or when [Built-in flash firing: b] isset in or mode. The effective range of the AF-assist beam emitted by the built-in flash isapprox. 197File extension ..... 68Color saturation ..... When [Low],[Standard], or [High] is set, even if you set a decreased exposurecompensation or flash exposure compensation, the image may comeout bright (p.121).286Page 287Troubleshooting GuideWhen I use the mode with flash, the shutterspeed becomes slow. If you shoot at night when the background is dark, the shutter speedautomatically becomes slow (slow-sync shooting) so that both thesubject and background are properly exposed. If you select[Clear all in folder] and select the folder, the print order for thatfolder will all be canceled. All imagesIf you select [Mark all on card], one copy of all the images on thecard will be set for printing. - 1/30 sec.•87: 1/4000 sec. (Total shutter speed range.Available range varies by shooting mode.), Bulb, X-syncat 1/200 sec.• FlashBuilt-in flash:External Speedlite:Flash metering:Flash exposurecompensation:FE lock:PC terminal:Retractable, manually raised flashGuide No.: Approx. In Basic Zone modes, the ISO speed is setautomatically (p.92).1Press the button. [ISO speed] will appear.the ISO speed.2 Set Press the keys or turn the dial to select the desired ISOspeed, then press . With [AUTO] selected, the ISO speedwill be set automatically (p.91).ISO Speed GuideISO SpeedShooting Situation(No flash)ISO 100 - ISO 400Sunny outdoorsISO 400 - ISO 1600Overcast skies or evening timeISO 1600 - ISO 6400, HDark indoors or nightFlash RangeThe higher the ISOspeed, the farther theflash range will extend(p.104).* High ISO speeds will result in grainier images.Under [53: Custom Functions (C.Fn)], if [2: ISO expansion] is set to[1: On], "H" (equivalent to ISO 12800) can also be selected (p.258). Under [53: Custom Functions (C.Fn)], if [6: Highlight tone priority] isset to [1: Enable], ISO 100 and "H" (equivalent to ISO 12800) cannot beselected (p.261). Shooting in high temperatures may result in images that look grainier.Long exposures can also cause irregular colors in the image. When you shoot at high ISO speeds, noise (such as dots of light andbanding) may become noticeable.90Page 91i: Changing the ISO Speed to Suit the Light LevelN If you use a high ISO speed and flash to shoot a close subject,overexposure may result. As "H" (equivalent to ISO 12800) is an expanded ISO speed setting,noise (such as dots of light and banding) and irregular colors will be morenoticeable, and the resolution will be lower than usual.ISO [AUTO]If the ISO speed is set to [AUTO], theactual ISO speed setting will bedisplayed when you press the shutterbutton halfway. 44Basic Operation..... 71Night scenes ..... 69P Shooting Food ..... 1747Handy Features181Handy Features .....182Disabling the Beeper .....182Card Reminder ..... 265NNeutral..... 17mm lens angle of viewRecharge time: Approx. 2017 Page 2320IndexSingle-image display.....82Single-point AF .....97Slide show .....220Small (image-recording quality) .....28Soft focus.....236Sports..... 121Correcting the Image's Dark Corners ..... The LCD monitor will display amessage telling you to replace the card. You canalso select the AF point (p.152).a function and set it.2 Select Press the keys to select afunction. The settings of the selected functionand Feature guide (p.55) will appear. Press the keys or turn the dial to set the function.Pressing will display therespective function setting screen. To set Auto white balance, select[Q], press , then press the button.the setting.3 Exit Press the button to return toLive View shooting.142Page 143Menu Function SettingsThe menu options displayed are asfollows.The settable functions on this menuscreen apply only to Live Viewshooting. 410 shots at low temperatures (0°C/32°F)With Live View shooting:Approx. auto] or [2: 1/200sec.(fixed)] (p.259).The built-in flash does not fire. If you use the built-in flash too often in too short a period of time, theflash may stop firing for a while to protect the light-emitting unit.The external flash does not fire. Canon Speedlites other than the EX-series will not fire. Under [z1: Flash control], if [Flash metering mode] in [Externalflash C.Fn setting] is set to [TTL], the flash will not fire.Flash exposure compensation cannot be set forthe external Speedlite. If flash exposure compensation is set with the external Speedlite, flashexposure compensation cannot be set with the camera. If thepower is cut off, the shutter will close and the shutter curtains andimage sensor may get damaged.• Turning off the power.• Opening the card slot/battery compartment cover. The surface of the image sensor is extremely delicate. If smudges are visible on theimages, having the sensor cleaned by a Canon ServiceCenter is recommended.25Page 26NomenclatureBuilt-in flash/AF-assist beam emitter(p.103/98)EF Lens mount index (p.44)Mode Dial (p.30, 39)EF-S Lens mount index (p.44) Main DialHot shoeShutter button (p.47)Microphone(p.158, 176) Focal planemark (p.68)Strap mount(p.33)GripMirror (p.202)Contacts (p.25)Lens mount (p.24)Lens lock pinBody cap (p.44)26Lens release button(p.45)Page 27NomenclatureHDMI mini OUT terminal (p.224)Digital terminal (p.240, 313) Display button(p.54, 82, 140, 162, 191) Live View shooting/Movie shooting button (p.138/158)Eyecup (p.102)Viewfinder eyepiece AE lock/FE lock button/Index/Reduce button(p.118/119/206/208, 247) AF pointselection button/Magnify button(p.97/208, 247)Aperture/Exposurecompensationbutton/Erase button(p.111/114/228)TerminalcoverAccess/Wi-Fi lamp(p.38)LCD monitor(p.50, 183) Quick Control button(p.48)Tripod socketSerial number Menu button (p.50)Card slot/Batterycompartment cover (p.36)Card slot/Battery compartmentcover release lever (p.36) Playback button (p.82) Setting button (p.50): Cross keys (p.50)ISO speed setting button (p.90) White balance selection button (p.129) Drive/Self-timer selection button(p.100-101)AF operation selection button (p.95)Card slot (p.36)Battery compartment (p.36)27Page 28NomenclatureShooting Function Settings (in Creative Zone modes, p.30)c Main Dial pointer (p.105)Shooting modeShutter speedApertureExposure level indicatorExposurecompensationamount (p.114)AEB range (p.116)Highlight tone priority(p.261)ISO speed (p.90)y Flash exposurecompensation (p.115)0 External flashexposure compensationPicture Style (p.93)AF operation (p.95)X:One-Shot AF9:AI Focus AFZ:AI Servo AFMF:Manual FocusAuto LightingOptimizer (p.121)Image-recording quality(p.86)73 Large/Fine83 Large/Normal74 Medium/Fine84 Medium/Normal7a Small 1/Fine8a Small 1/Normalb Small 2 (Fine)c Small 3 (Fine)1+73RAW+Large/Fine1 RAWQuick Control icon(p.48, 73)Battery level (p.40)zxcnWhite balance (p.129)Q Auto: Ambience priorityQw Auto: White priorityWDaylightE ShadeR CloudyY Tungsten lightUWhite fluorescent lightIFlashO CustomDrive/self-timer (p.100-101)u Single shootingi Continuous shootingj Self-timer: 10 sec.l Self-timer: 2 sec.q Self-timer: ContinuousPossible shotsPossible shots during whitebalance bracketingSelf-timer countdownu White balance correction (p.133)B White balance bracketing (p.134)Metering mode (p.113)q Evaluative meteringw Partial meteringe Center-weighted average meteringEye-Fi transmission status (p.269)The display will show only the settings currently applied.28Page 29NomenclatureViewfinder InformationAF point activation indicator Focusing screenAF pointISO speedWhite balancecorrection AE lock/AEB in-progress Focus indicatorMaximum burst Use of flashrecommended(blinking)Flash-ready(illuminated)FE lock out of rangewarning (blinking) High-speed sync(FP flash) FE lock/FEB in-progress Flash exposurecompensationShutter speedFE lock (FEL)Busy (buSY)Built-in flash recycling (D buSY) MonochromeshootingISO speed Highlight tone priorityExposure level indicatorExposure compensation amountAEB rangeApertureCard full warning (FuLL)Card error warning (Card)No card warning (Card)The display will show only the settings currently applied.29Page 30NomenclatureMode DialThe Mode Dial includes the Basic Zone modes, Creative Zone modes,and the Movie shooting mode.Creative ZoneThese modes give you more control forshooting various subjects as desired.d: Program AE (p.84)s: Shutter-priority AE (p.106)f : Aperture-priority AE (p.108)a: Manual exposure (p.111)d: Power off (p.39)Basic ZoneAll you do is press the shutterbutton. Thecamera cannot be used with EF-M lenses.Attaching a Lens1Remove the caps. Remove the rear lens cap and thebody cap by turning them as shownby the arrows.the lens.2 Attach Align the lens's red or white indexWhite indexwith the camera's index matching thesame color. The dynamicrange is expanded from the standard 18% gray to bright highlights.The gradation between the grays and highlights becomes smoother.The settable ISO speed range will be ISO 200 - ISO 6400. The use of a tripod orsimilar equipment is recommended when using the product in hot placesand for people with circulation problems or less sensitive skin. Do not point the camera toward an intense light source, such as the sunor an intense artificial light source. When you press the shutter buttonhalfway, the camera will focus only once. When focus is achieved, the dot inside the AF point achieving focuslights up briefly in red, and the focus indicator appears in theviewfinder. With evaluative metering (p.113), the exposure setting will be set atthe same time focus is achieved. While you hold down the shutter button halfway, the focus will belocked. Do not get too close to the subject.If the lens has a hood attached or you are too close to the subject,the bottom of the picture may look dark due to the obstructed flash.For important shots, play back the image and check to make surethe picture does not look unnaturally dark at the bottom part.103Page 104D Using the Built-in FlashEffective Range of Built-in FlashISO Speed(Approx. You can then choose the best exposure.This is called AEB (Auto Exposure Bracketing).Standard exposureDarker exposure(Decreased exposure)1Brighter exposure(Increased exposure)Select [Expo.comp./AEB]. Under the [z2] tab, select[Expo.comp./AEB], then press .the AEB range.2 Set Turn the dial to set the AEBAEB rangerange. Press the keys to set theexposure compensation amount. Doing so may causeloss of vision. When attaching or detaching a lens, turn off the camera power. If the front part (focusing ring) of the lens rotates during autofocusing, donot touch the rotating part. If you use a TS-E lens, certain shift and rotation functions may berestricted, and attaching or detaching the lens may also be restricted. If you use a TS-E lens and shift or tilt the lens or use an Extension Tube,the standard exposure may not be obtained or the exposure may beirregular.Angle of ViewSince the image sensor size issmaller than the 35mm filmformat, the angle of view of anattached lens will beequivalent to that of a lens withapprox. 268H Using Eye-Fi Cards ..... Turning the zoom ring afterachieving focus may throw off thefocus.Detaching the LensWhile pressing the lens releasebutton, turn the lens as shown bythe arrow. Turn the lens until it stops, then detach it. Attach the rear lens cap to thedetached lens. Do not look at the sun directly through any lens. Select [Disable], then press.3 Card ReminderThis setting prevents shooting if there is no card in the camera.Under the [z1] tab, select [Releaseshutter without card], then press .Select [Disable], then press .If there is no card inserted in the cameraand you press the shutter button, "Card"will be displayed in the viewfinder, andyou cannot release the shutter.3 Setting the Image Review TimeYou can set how long the image is displayed on the LCD monitorimmediately after shooting. The portion highlightedin white on the top is what will remain.the edited movie.3 Check Select [ ] and press to play7back the edited movie. To change the editing, go back to step2. To cancel the editing, select [2],then press . Be sure to set the correct date/time.1Display the menu screen. Press the button to displaythe menu screen.the [52] tab, select [Date/2 UnderTime/Zone]. Press the keys to selectthe [52] tab. Press the keys to select[Date/Time/Zone], then press .the time zone.3 Set [London] is set by default. Press the keys to selectthe time zone box. Press so is displayed. Press the keys to selectthe time zone, then press .(Returns to .) The menu setting procedure is explained on pages 50-51. In step 3, the time displayed on the upper right of the screen is the timedifference compared with Coordinated Universal Time (UTC). 95S Selecting the AF Point ..... 8Chapters..... Otherwise, the software will not be installed properly. Even if a previous version of the software is installed on your computer, follow the procedure below to install the latest version. Internet connection is required to download andinstall the software. 226L Erasing Images..... The closer it is toH, the crisper the image will look.SaturationAdjusts the color saturation in the image.To decrease the color saturation, set it toward the minus end.The closer it is to G, the more diluted the colors will look.To increase the color saturation, set it toward the plus end. Note that noise may be more noticeable than the actualimage recorded. If flash is used or bulb exposure is set, the icon and histogramwill be grayed out (for your reference). Youcan view, edit, and print RAW and JPEG images.* Some functions differ between the version to be installed on a 64-bit computerand that to be installed on a 32-bit computer.Picture Style EditorYou can edit Picture Styles, and create and save original Picture Stylefiles. at low temperatures (0°C/32°F)* With a fully-charged Battery Pack LP-E10.• Dimensions and WeightDimensions (W x H x D):Approx. 43Attaching and Detaching a Lens..... 500 shots at room temperature (23°C/73°F),approx. Then press.Date/Folder/Rating Press the keys to selectone of the following: [iDate][nFolder] [9Rating]. When is highlighted,press the button. Press the keys to select anoption, then press .[Date]220[Folder][Rating]Page 2213 Slide Show (Auto Playback)ItemPlayback DescriptionjAll imagesAll the still photos and movies on the card will be playedback.iDateStill photos and movies taken on the selected shooting datewill be played back.nFolderStill photos and movies in the selected folder will be playedback.kMoviesOnly the movies on the card will be played back.zStillsOnly the still photos on the card will be played back.9RatingStill photos and movies with the selected rating will beplayed back.[Set up] as desired.3 Configure Press the keys to select[Set up], then press . Set the [Display time], [Repeat](repeated playback), [Transitioneffect] (effect when changingimages), and [Background music]for the still photos. The background music selectionprocedure is explained on page 223. After selecting the settings, press the button.[Display time][Repeat]221Page 2223 Slide Show (Auto Playback)[Transition effect][Background music]the slide show.4 Start Press the keys to select[Start], then press . After [Loading image…] is displayed,the slide show will start.the slide show.5 Exit To exit the slide show and return tothe setting screen, press the button. To pause the slide show, press . 180 shots50% Flash UseApprox. (The beeper will continue beeping softly.) As longas you keep aiming the AF point on the subject while pressing theshutter button halfway, the focusing will be continuous. For playback operations, see the table below. (Step 4 and 5)r Do not save to albumThe video snapshot just recorded will be erased(Step 4)instead of being saved to the album. 146, 174AF operation ..... If [0:Disable] is set, the Auto Lighting Optimizer can be set (p.261).Even though I set a decreased exposure compensation,the image comes out bright. Set [z2: Auto Lighting Optimizer] to [Disable]. If you exceed the adjustable aperturerange, the aperture display will blink to indicate thatthe standard exposure cannot be obtained.If the exposure will be too dark, the maximum aperture (lowest f/number) will blink. To stop movieshooting, press the buttonagain. While the movie is being shot, the [o]mark will be displayed on the upperright of the screen. Sound will be recorded by the built-inmicrophone.Built-in microphoneCheck the recorded sound on a TV set or computer. to suit the scene's brightness. (Pressing the shutterbutton halfway does not lock the exposure.)113Page 114Setting Exposure CompensationNO Setting Exposure CompensationSet exposure compensation if the exposure (without flash) does notcome out as desired. The subject will also standout better against an uncluttered dark background. Use a telephoto lens.If you have a zoom lens, use the telephoto end to fill the frame withthe subject from the waist up. If a previous version of DPP Ver.4.x is installed on yourcomputer, obtain and install the latest version of DPP from the Canonwebsite to update it (p.311). Also note that two folder names cannot share the same three-digitfolder number (for example, "100ABC_D" and "100W_XYZ"), even if the lastfive characters in each name are different.185Page 186Handy Features3 File Numbering MethodsThe image files will be numbered from 0001 to 9999 in the order theimages are taken, then saved in a folder. Turn the lens as shownby the arrow until it clicks in place.Red indexthe lens's focus mode switch3 Setto . stands for autofocus. If it is set to (manual focus),autofocus will not operate.4 Remove the front lens cap.Tips for Avoiding Smudges and Dust When changing lenses, do it quickly in a place with minimal dust. When storing the camera without a lens attached, be sure to attach thebody cap to the camera. Remove dust on the body cap before attaching it.44Page 45Attaching and Detaching a LensZoomingTurn the zoom ring on the lenswith your fingers. If you want to zoom, do it beforefocusing. Note that no sound will be output.Do not allow the product to maintain contact with the same area ofskin for extended periods of time during use.This may result in low-temperature contact burns, including skin redness andblistering, even if the product does not feel hot. at room temperature(23°C/73°F), and approx. If there are too many pixels on the right,the color will be too saturated with no gradation. The date andtime are instead recorded in the image data as shooting information.When printing, you can imprint the date and time in the picture, usingthe date and time recorded in the shooting information (p.245).[###] is displayed. If the number of images recorded on the card exceeds the number thecamera can display, [###] will be displayed (p.211).290Page 291Troubleshooting GuideThe LCD monitor does not display a clear image. If the LCD monitor is dirty, use a soft cloth to clean it. In low or high temperatures, the LCD monitor display may seem slowor may look black. 34Release shutter without card..... If you look atthe image on a TV screen, the cropping frame may not be displayedaccurately.Handling Printer ErrorsIf printing does not resume after you resolve a printer error (no ink, no paper,etc.) and select [Continue], operate the buttons on the printer to resumeprinting. IN NO EVENTSHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FORANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN ANACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USEOR OTHER DEALINGS IN THE SOFTWARE.302Page 303Use of genuine Canon accessories is recommendedThis product is designed to achieve excellent performance when used withgenuine Canon accessories.Canon shall not be liable for any damage to this product and/or accidents suchas fire, etc. Suited for close-upportraits.By changing the [Color tone] (p.125), you can adjust the skin tone.93Page 94A Selecting Optimal Image Characteristics for the SubjectNR LandscapeFor vivid blues and greens, and very sharp and crisp images.Effective for impressive landscapes.S NeutralThis Picture Style is for users who prefer to process images withtheir computer. In case of a problem with an EyeFi card, please check with the card manufacturer. If stray light enters theviewfinder when the picture is taken, it may throw off the exposure. If [z1: Beep] is set to [Disable], the beeper will not sound. After taking self-timer shots, playing back the image (p.82) to checkfocus and exposure is recommended. When using the self-timer to shoot yourself, use focus lock (p.61) on anobject at the same distance as where you will stand. To cancel the self-timer after it starts, press the button.101Page 102j Using the Self-timerUsing the Eyepiece CoverWhen you use the self-timer or bulb and do not look through theviewfinder, stray light entering the viewfinder can cause the picture tolook dark (underexposure). Holdingdown the key will fast forward or fastrewind the frames. After deciding which part to edit out,press . The sound volume cannotbe adjusted with the camera. Before connecting or disconnecting the cable between the camera andTV set, turn off the camera and TV set. Depending on the TV set, part of the image displayed may be cut off. Do not connect any other device's output to the camera's terminal. Do not drop it or subject it to physicalshock. The camera is not waterproof and cannot be used underwater. This is foradvanced users. Regarding other flash modes, refer tothe instruction manual of a Speedlitecompatible with the functions. Shutter synchronizationNormally, set this to [1st curtain] so that the flash fires immediatelyafter the exposure starts.If [2nd curtain] is set, the flash will fire right before the shuttercloses. Also, since this filter effect willmagnify the image center, the apparent resolution at the center maydegrade depending on the number of recorded pixels. Moviefile names will start with "MVI_". Fall leaves will look crisper andbrighter.G: GreenSkin tones and lips will appear muted. 106Single shooting..... To adjust the [Colorbalance], use the cross keys. 73Shooting with Ambience Selection.....75Shooting by Lighting or Scene Type .....79x Image Playback .....823Creative Shooting83d: Program AE.....84Setting the Image-Recording Quality ..... It can be used to shoot fireworksand other subjects requiring longexposures.In step 3 on the preceding page, turn the dial to the left to set .The elapsed exposure time will bedisplayed on the LCD monitor. Do not point the camera toward an intense light source, such as the sunor an intense artificial light source. 167Frame rate ..... For details, refer tothe Instruction Manual of the EX-series Speedlite equipped with an LEDlight.159Page 160k Shooting MoviesManual Exposure ShootingYou can manually set the shutter speed, aperture, and ISO speed formovie shooting. 20 min. During the single-image display, you can press the button tochange the display format (p.231). If you connect the camera to a TV set (p.224) to play back a movie,adjust the sound volume with the TV set.217Page 218X Editing a Movie's First and Last ScenesYou can edit out the first and last scenes of a movie in approx. In case of eye contact, flush thoroughlywith copious amounts of clean running water and seek immediate medical assistance.20Page 21Safety Instructions Observe the following instructions when using a battery charger or AC adapter.• Periodically remove any dust buildup from the power plug and power outlet using adry cloth.• Do not plug in or unplug the product with wet hands.• Do not use the product if the power plug is not fully inserted into the power outlet.• Do not expose the power plug and terminals to dirt or let them come into contactwith metallic pins or other metal objects. Do not touch the battery charger or AC adapter connected to a power outlet duringlightning storms. Do not place heavy objects on the power cord. 9.2/30.2 (ISO 100, in meters/feet) orapprox. The camera is compliant with"wPictBridge", which is the standard for direct printing.You can also use a wireless LAN to send images to aPictBridge (Wireless LAN) printer and print them. 10 sec. The more pixels there are toward the right,Normal brightnessthe brighter the image. However, the soundwill be properly recorded.180Page 1817Handy FeaturesDisabling the Beeper (p.182)Card Reminder (p.182)Setting the Image Review Time (p.182)Setting the Auto Power-off Time (p.183)Adjusting the LCD Monitor Brightness (p.183)Creating and Selecting a Folder (p.184)File Numbering Methods (p.186)Setting Copyright Information (p.188)Auto Rotation of Vertical Images (p.190)Checking Camera Settings (p.191)Reverting the Camera to the Default Settings (p.192)Turning the LCD Monitor Off/On (p.195)Changing the Shooting Settings Screen Color (p.195)Setting the Flash (p.196)Appending Dust Delete Data (p.200)Manual Sensor Cleaning (p.202)181Page 182Handy Features3 Disabling the BeeperYou can prevent the beeper from sounding when focus is achieved orduring self-timer operation.Under the [z1] tab, select [Beep], thenpress . Therefore, if you shoot RAW images, setting the imagerecording quality to 1+73 is recommended.C.Fn-6Highlight tone priority0: Disable1: EnableImproves the highlight detail. With thiscamera, you can set the color space for captured images to s

afunction. The three bracketedshots will be taken in this sequence:standard exposure, decreasedexposure, and increased exposure.116Page 1173 Auto Exposure BracketingNCanceling AEB Follow steps 1 and 2 to turn off the AEB range display. The AEB setting will be canceled automatically if the power is turnedoff, flash recycling is completed, etc.Shooting Tips Using AEB with continuous shootingIf continuous shooting (p.100) is set and you press the shutterbutton completely, the three bracketed shots will be takencontinuously in this sequence: standard exposure, decreasedexposure, and increased exposure. Using AEB with single shooting (u)Press the shutter button three times to take the three bracketedshots. The AutoLighting Optimizer will also be set automatically to [Disable] andcannot be changed.175Page 1763 Menu Function Settings[k2] Movie recording sizeYou can set the movie recording size (image size and frame rate).For details, see page 166. Sound recordingSound will be recorded by the built-inmonaural microphone. 74Flash sync speed..... Doing so candamage the battery charger. If the battery becomes exhausted quickly even after being fullycharged, the battery has reached the end of its service life.Purchase a new battery. After disconnecting the charger's power plug, do not touch the prongs forat least 3 sec. Do not charge any battery other than a Battery Pack LP-E10. Battery Pack LP-E10 is dedicated to Canon products only. 663 (Landscape)..... 182Shooting information ..... They do not affect the images recorded. If the LCD monitor is left on for a prolonged period, screen burn-in may occurwhere you see remnants of what was displayed. 207Magnified view ..... 146MF: Focusing Manually ..... It will be rotated. The vertical image does not rotate on the computer screen.The software used is not compatible with image rotation. The display can be switched with [x2: Histogram disp].[Brightness] DisplaySample HistogramsThis histogram is a graph showing the distribution ofthe image's brightness level. 208b Rotating the Image ..... Depending on the scene, flashexposure compensation may be necessary.198Page 1993 Setting the FlashN Clear flash settingsWith the [External flash func. 262C.Fn IV: Operation/Others..... With [z] displayed, press the keys tochange the order, then press . Delete item/items and Delete all itemsYou can delete any of the registered items. The image's Exif datais used to make automatic corrections.EOffNo automatic correction is applied.EVividPrints with higher saturation to produce more vivid blues and greens.ENRImage noise is reduced before printing.0 B/WPrints in black-and-white with true blacks.0 Cool tone Prints in black-and-white with cool, bluish blacks.0 Warm tone Prints in black-and-white with warm, yellowish blacks.zNaturalPrints the image in the actual colors and contrast. This is useful when you wantto use only the flash's AF-assistbeam.Even if [Flash firing] is set to [Disable], if focus is difficult to achieve in lowlight, the built-in flash may still fire a series of flashes (AF-assist beam,p.98).196Page 1973 Setting the FlashN[Built-in flash func. You can print multiple images in one batch or give theprint order to a photofinisher. Specifying Images for a Photobook (p.253)You can specify images on the card for printing in aphotobook.239Page 240Preparing to PrintThe direct printing procedure can be performed entirely with thecamera while looking at the setting screens on camera's LCD monitor.Connecting the Camera to a Printer1Turn off the camera power.up the printer.2 Set For details, refer to the printer'sinstruction manual.the camera to the3 Connectprinter. Connect them with an interface cable(sold separately). Connect the cable to the camera'sdigital terminal with the cable plug's icon facing the front of thecamera. To connect to the printer, refer to theprinter's instruction manual.4 Turn on the printer.on the camera power.5 Turn Some printers may make a beepingsound.240Page 241Preparing to Printback the image.6 Play Press the button. The image will appear with the icon on the upper left of the screen toindicate that the camera is connectedto a printer. Before using the printer, make sure it has a PictBridge connection port. Movies cannot be printed. The camera cannot be used with printers compatible only with CP Director Bubble Jet Direct. If there is a long beeping sound in step 5, it indicates a problem with theprinter. 260Nomenclature..... : The picture is taken 10 seconds afteryou press the shutter button.Self-timer: Continuous:Press the keys to set thenumber of multiple shots (2 to 10) to betaken with the self-timer. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.Page 14300Specifications• InterfaceDigital terminal: Hi-Speed USB equivalent: Computer communication, Direct printing, Connect Station CS100 connectionHDMI mini OUT terminal:Type C (Auto switching of resolution)Remote control terminal:Not providedEye-Fi card: Compatible•PowerBattery: Battery Pack LP-E10 (Quantity 1)Number of possible shots:(Based on CIPA testing standards, with 50% flash use)With viewfinder shooting: Approx. Use the built-in flash.To match the subject and ambient lighting level, you can change theISO speed (p.90) or use the built-in flash (p.103). Openthe DCIM folder and create as many folders as necessary to save andorganize your images. If youselect [Qw] (White priority), you can reduce the intensity of theimage's warm color cast.If you want to match the Auto white balance of previous EOS cameramodels, select [Q] (Ambience priority).the button.1 Press [White balance] will appear.[Q].2 Select Select [Q], then press the button.the desired item.3 Select Select [Auto: Ambience priority] or[Auto: White priority], then press.Q : Auto: Ambience priorityQw : Auto: White priorityCautions for Setting [Qw] (White priority) The warm color cast of subjects may fade. When multiple light sources are included on the screen, the warm colorcast of the picture may not be lessened. When using flash, the color tone will be the same as [Q] (Ambiencepriority).130Page 131B: Matching the Light SourceNO Custom White BalanceCustom white balance enables you to manually set the white balancefor a specific light source. Makes skin tones andlandscapes, which may otherwise look dull on a cloudy day, lookwarmer. This[Auto] setting is effective in most cases.2: OnNoise reduction is performed for all exposures of 1 sec. 30 min. 99, 154Out of focus ..... CR273 image0001 . Make sure to transfer the indispensabledata to a computer, etc. If you want to use continuous file numbering, it isrecommended that you use a newly-formatted card each time.File numbering afterreplacing the cardCard-1File numbering aftercreating a folderCard-2Card-110000510052Next sequential file number186005110100 52Page 187Handy Features [Auto reset]: The file numbering restarts from 0001 each timethe card is replaced or a new folder is created.When you replace the card or create a folder, the file numberingrestarts from 0001 for the new images saved. 58C (Creative Auto)..... 11 MbpsFocus method:Same as focusing with Live View shootingFocusing brightness range:EV 1 - 18 (at room temperature, ISO 100)Metering mode:Center-weighted average and evaluative metering withthe image sensor* Automatically set by the focus method.Metering brightnessEV 0 - 20 (at room temperature, ISO 100)range:Exposure control:Autoexposure and manual exposureExposure compensation: ±3 stops in 1/3-stop incrementsISO speedWith autoexposure shooting:(RecommendedISO 100 - ISO 6400 set automaticallyexposure index):With manual exposure:ISO 100 - ISO 6400 set automatically/manuallyVideo snapshots:Settable to 2 sec./4 sec./8 sec.Sound recording:Built-in monaural microphoneSound-recording level adjustable, wind filter providedGrid display:Two typesStill photo shooting:Not possible during movie shooting298Page 299Specifications• LCD MonitorType:Monitor size and dots:Brightness adjustment:Interface languages:Feature guide:TFT color liquid-crystal monitorApprox. If theobject has any pattern or design, it may be recognized as dust data andaffect the accuracy of the dust deletion with Digital Photo Professional (EOSsoftware).201Page 2023 Manual Sensor CleaningNIf dust adheres to the image sensor and dust spots appear on theimages, you can clean the image sensor yourself with a commerciallyavailable camera blower. With E-TTL II (auto flash exposure), the flash will befired twice in a row: once when you press the shutter buttoncompletely and once right before the end of the exposure. before formatting the card.1Select [Format card]. Under the [51] tab, select [Formatcard], then press .the card.2 Format Select [OK], then press . The card will be formatted. When the formatting is completed,the menu will reappear. For low-level formatting, press the button to add a checkmark [X]to [Low level format], then select[OK].52Page 533 Formatting the CardFormat the card in the following cases:The card is new.The card was formatted by a different camera or a computer.The card is full with images or data.A card-related error is displayed (p.294).Low-level Formatting Perform low-level formatting if the card's recording or reading speed seemsslow or if you want to totally erase data on the card. Since low-level formatting will format all recordable sectors on the card, theformatting will take slightly longer than normal formatting. You can stop the low-level formatting by selecting [Cancel]. 1 - 3Ambience-based shots, Light/scene-based shotsAuto (Ambience priority), Auto (White priority), Preset(Daylight, Shade, Cloudy, Tungsten light, Whitefluorescent light, Flash), CustomWhite balance correction, and White balance bracketingprovided* Flash color temperature information transmissionenabled295Page 296SpecificationsNoise reduction:Automatic imagebrightness correction:Highlight tone priority:Lens peripheralillumination correction:Applicable to long exposures and high ISO speed shotsAuto Lighting Optimizer providedProvidedProvided• ViewfinderType:Eye-level pentamirrorField of view coverage: Vertical/Horizontal approx. Press the keys to adjust the brightnesson the adjustment screen, then press.When checking the exposure of animage, set the LCD monitor brightness to4 and prevent the ambient light fromaffecting the image.To check the exposure of the captured images, referring to the histogram isrecommended (p.232).183Page 184Handy Features3 Creating and Selecting a FolderYou can freely create and select the folder where the captured imagesare to be saved.This operation is optional since a folder will be created automatically forsaving captured images.Creating a Folder1Select [Select folder]. Under the [51] tab, select [Selectfolder], then press .[Create folder].2 Select Select [Create folder], then press.a new folder.3 Create Select [OK], then press . A new folder with the folder numberincreased by one is created.184Page 185Handy FeaturesSelecting a FolderLowest file numberNumber of images in folder With the folder selection screendisplayed, select a folder and press. The folder where the capturedimages will be saved is selected. Subsequent captured images will berecorded into the selected folder.Folder nameHighest file numberFoldersAs with "100CANON" for example, the folder name starts with three digits(the folder number) followed by five alphanumeric characters. As with an external Speedlite, the metering isaveraged for the entire area. Use a tripod toprevent hand-held camera shake. Set the shutter speed so that the aperture display does not blink.If you press the shutter button halfway and changethe shutter speed while the aperture is displayed,the aperture display will also change to maintain thesame exposure (amount of light reaching the imagesensor). For details on how to fix a printing problem, refer to theprinter's instruction manual.Paper ErrorCheck whether the paper is properly loaded in the printer.Ink ErrorCheck the printer's ink level and the waste ink tank.Hardware ErrorCheck for any printer problems other than paper and ink problems.File ErrorThe selected image cannot be printed via PictBridge. Do not subject it to excessive force,physical shock, or vibration. Do not touch the card's electronic contacts with your fingers or anythingmetallic. Do not affix any stickers, etc. Its effective range is approx. This is a general-purposePicture Style suitable for most scenes.Q PortraitFor nice skin tones. The Feature guide turns off when youfurther proceed with any operation. Shooting mode (Sample) Quick Control (Sample)Shooting settingsLive View shootingPlayback3 Disabling the Feature GuideSelect [Feature guide]. Under the [52] tab, select [Featureguide], then press . Select [Disable], then press .55Page 5656Page 572Basic Shooting andImage PlaybackThis chapter explains how to use the Basic Zone modeson the Mode Dial for best results and how to play backimages.With Basic Zone modes, all you do is point and shoot while thecamera sets everything automatically (p.74, 272). Theexposure is set at the moment the picture is taken.3: AE/AF, no AE lockThis is useful for subjects that keep moving and stoppingrepeatedly. Wrap your right hand around the camera grip firmly.2. Hold the lens bottom with your left hand.3. Rest your hand's right index finger lightly on the shutter button.4. Press your arms and elbows lightly against the front of your body.5. To maintain a stable stance, place one foot slightly ahead of the other.6. Press the camera against your face and look through the viewfinder. If the viewfinder image does not look sharp, using E-series DioptricAdjustment Lenses (sold separately) is recommended (p.274). To shoot while looking at the LCD monitor, see page 137.46Page 47Basic OperationShutter ButtonThe shutter button has two steps. However, it may be slightly different fromthe resulting image.Final Image Simulation During Live View Shooting Picture Style* All settings such as sharpness, contrast, color saturation, and color tone willbe reflected.White balanceWhite balance correctionAmbience-based shotsLighting/scene-based shotsColor tone (in mode)ExposureDepth of field (with C.Fn-9-4 set and ON)Auto Lighting OptimizerPeripheral illumination correctionHighlight tone priorityAspect ratio (shooting range confirmation)141Page 142Shooting Function SettingsFunction settings particular to Live View shooting are explained here.Q Quick ControlIf you press the button while the image is displayed on the LCDmonitor in a Creative Zone mode, you can set any of the following: AFmethod, Drive/self-timer, White balance, Picture Style, Auto LightingOptimizer, Image-recording quality, and ISO speed. 230,000 dotsManual (7 levels)25Displayable• PlaybackImage display format:Zoom magnification:Highlight alert:Image browsingmethod:Image rotation:Ratings:Movie playback:Image protection:Slide show:Background music:Basic info, basic info + image quality/playback number,shooting info. 410 shots at low temperatures (0°C/32°F)With Live View shooting: Approx. You can resumethe autofocus by letting go of the button. You can start shooting a movie again bypressing the button. Both b and c have 7 (Fine) quality. I was able to take more shots than the number of possible shotsindicated.Depending on the shooting conditions, you may be able to take moreshots than is indicated. Corroded contacts may cause cameramisoperation. If the camera is suddenly brought in from the cold into a warm room,condensation may form on the camera and internal parts. Increase the ISOspeed or use flash. If the "4000" shutter speed and the highest f/numberblink, it indicates overexposure. 130Wi-Fi..... (The focus indicator does not light up.) You can takesharp pictures of a moving subject.Note that the focus lock (p.61) will not work in this case. Pressing the shutter button halfway does not focus on thesubject.If the focus mode switch on the lens is set to (manual focus),set it to (autofocus).59Page 60A Fully Automatic Shooting (Scene Intelligent Auto) The picture came out extremely dark.If you raise the built-in flash beforehand, the flash will fireautomatically in backlit conditions in daylight or in low-lightconditions. When shooting in low light with the built-in flash raised, it fireda series of flashes.Pressing the shutter button halfway may trigger the built-in flash tofire a series of flashes to assist autofocusing. Magenta (M) bias, and 3. To turn on the LCDmonitor again, press the button.Under the [51] tab, select [Auto poweroff], then press . Youcan select [FlexiZone - Single], [u Live mode], or [Quick mode].Note that continuous focusing on a moving subject is not possible. AF with shutter button during kWhen [Enable] is set, AF is possible during movie shooting.However, continuous autofocusing is not possible. 10 sec.Press the keysto set the number ofmultiple shots (2 to 10) tobe taken with the self-timer.the picture.3 Take Look through the viewfinder, focus onthe subject, then press the shutterbutton completely. The beeper sounds, and you can check the self-timer operation withthe countdown display (in seconds) on the LCD monitor. 2 sec. In such a case, it is recommended that you set the AFmethod to [Quick mode] and shoot. The color of a subject that is captured in sunlight ata color temperature of 5200K will be adjusted to match thesubject's colorimetrical color. 214, 224Index display ..... 1 is effective whenyou want to precisely adjust the image yourself or shoot an importantsubject.1+731+73 records a 1 image and a 73 image with a single shot. Turn the camera power off and on again. Even if [51: Eye-Fi trans.] is set to [Disable], it may still transmit asignal. (Nothing will be displayed onthe camera's LCD monitor.) The images will automatically bedisplayed at the optimum resolutionof the TV set. By pressing the button, youcan change the display format. To play back movies, see page 216. Adjust movie sound volume with the TV set. In Basic Zone modes, the optimum AFoperation is set automatically for the respective shooting mode.1Set the lens's focus mode switchto .the button.2 Press [AF operation] will appear.the AF operation.3 Select Press the keys or turn the dial to select the desired AFoperation, then press .on the subject.4 Focus Aim the AF point over the subject andpress the shutter button halfway. The RGB histogram is for checking the color saturation andgradation. When theexternal Speedlite's flash exposure compensation is canceled (set to0), flash exposure compensation can be set with the camera.287Page 288Troubleshooting GuideHigh-speed sync cannot be set in the mode. Under [53: Custom Functions (C.Fn)], set [3: Flash sync. If you do not want auto power off to takeeffect, set [51: Auto power off] to [Disable] (p.183). Even if [51: Auto power off] is set to [Disable], the LCD monitor willstill turn off after the camera is left idle for approx. For close-ups ofthe face, focus on the eyes. If you hold down the shutter button, you can shoot continuously (max.approx. If the white icon is displayed, the still photo's image quality may deteriorate.If the red icon is displayed, it indicates that the Live Viewshooting will soon stop automatically (p.155).During movie shooting, a red E icon is displayed. It indicates that the camera's internal temperature is high. 28, 87, 89RAW+JPEG..... The available settingsare described below. 0.8x (-1 m-1 with 50mm lens at infinity)Eyepoint:Approx. Wait until the brightnesslevel stabilizes before shooting. If there is a very bright light source in the image, the bright area mayappear black on the LCD monitor. If you did not obtain the desired color tones, change themode to a Creative Zone mode and select a Picture Style other than, then shoot again (p.93).FAQ The focus indicator blinks and focus is not achieved.Aim the AF point over an area with good contrast, then press theshutter button halfway (p.47). There are two ways to do this.Downloading by Connecting the Camera to the Computer1 Install the software (p.311).an interface cable (sold2 Useseparately) to connect the camerato the computer. Connect the cable to the camera'sdigital terminal with the cable plug's icon facing the front of thecamera. Connect the cord's plug to thecomputer's USB terminal.EOS Utility to download the3 Useimages. Refer to the EOS Utility InstructionManual.If [53: Wi-Fi] is set to [Enable], the camera cannot be connected to acomputer. (C.Fn)Jin [53: Clear settings] to clear all the Custom Function settings(p.256).192Page 193Handy FeaturesShooting Function SettingsImage Recording SettingsAF operationOne-Shot AFImage quality73AF point selectionAutomaticselectionPicture StyleAutou (Singleshooting)StandardDrive/self-timerAuto LightingOptimizerMetering modeq (Evaluativemetering)PeripheralilluminationcorrectionEnable /Correctiondata retainedISO speedAUTO (Auto)Color spacesRGBISO AutoMaximum 3200White balanceQ (Ambiencepriority)Custom WhiteBalanceCanceledWhite balancecorrectionCanceledWhite balancebracketingCanceledExposureCanceledcompensation/AEBFlash exposurecompensation0 (Zero)Custom FunctionsUnchangedFile numberingContinuousDust Delete DataErased193Page 194Handy FeaturesCamera SettingsLive View Shooting SettingsAuto power off30 sec.Live View shootingEnableBeepEnableAF methodFlexiZone - SingleRelease shutterwithout cardEnableImage review2 sec.Histogram displayBrightnessImage jump w/ 6e (10 images)Auto rotateOnzDLCD brightnessLCD off/on buttonShutter buttonDate/Time/ZoneUnchangedLanguageUnchangedScreen color1Feature guideEnableCopyrightinformationUnchangedGrid displayHideAspect ratio3:2Metering timer8 sec.Movie Shooting SettingsMovie shooting mode AutoAF methodFlexiZone - SingleAF with shutterbutton duringmovie recordingDisablekShutter/AE lockbuttonAF/AE lockkHighlight tonepriorityDisableEye-Fi transmission DisableMovie recording size 1920x1080Wi-FiDisableSound recordingAutoWi-Fi functionUnchangedMetering timer8 sec.My Menu settingsUnchangedGrid displayHideDisplay from MyMenuDisableVideo snapshotDisableVideo systemUnchangedExposurecompensationCanceledAuto LightingOptimizerStandardCustom White Balance CanceledPicture StyleAutoFor Wi-Fi settings, refer to the Wireless Function Instruction Manual.194Page 195Handy Features3 Turning the LCD Monitor Off/OnYou can set the camera so that the shooting function settings display(p.54) does not turn off and on as you press the shutter button halfway(or press the button).Under the [52] tab, select [LCD off/onbtn], then press . To erase these dustspots, you can append the Dust Delete Data to the images. 44, 99, 154FocusingAF method ..... For remote shooting settings, refer to theWireless Function Instruction Manual.112Page 113q Changing the Metering ModeNThree methods (metering modes) to measure the subject's brightnessare provided. 4 sec., 6 sec., 10 sec., or 16 sec. 46Viewing on a TV set .....214, 224WWhite balance (WB) ..... Notethat when purchasing the Lens Kit, some of the accessories included withthe lens may not match those listed in the Lens Instruction Manual.Software can be downloaded from the Canon website (p.311) for your use.3Page 4Instruction ManualsQuick Reference GuideThe booklet describes the basic operations.More detailed Instruction Manuals (PDF files) can bedownloaded from the Canon website.Downloading and Viewing the Instruction Manuals (PDF Files)1Download the Instruction 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 theInstruction Manuals.Instruction Manuals Available for Download••••Camera Instruction ManualWireless Function Instruction ManualQuick Reference GuideLens Instruction ManualsSoftware Instruction Manuals2 View the Instruction Manuals (PDF files). Double-click the downloaded Instruction Manual (PDF file) toopen it. To view the Instruction Manuals (PDF files), Adobe AcrobatReader DC or other Adobe PDF viewer (most recent versionrecommended) is required. Adobe Acrobat Reader DC can be downloaded for free from theInternet. To learn how to use PDF viewing software, refer to the software's Help section.4Page 5Compatible CardsThe following cards can be used with the camera regardless ofcapacity: If the card is new or was previously formatted by anothercamera or computer, it is recommended that you format the cardwith this camera (p.52).• SD memory cards• SDHC memory cards• SDXC memory cardsThe camera can use UHS-I cards, but since it is not compatible with theUHS-I standard, writing/reading speeds will be equivalent to SD SpeedClass 10 at most.Cards that Can Record MoviesWhen shooting movies, use a large-capacity SD card rated SDSpeed Class 6 "" or higher. If you use a slow-writing card when shooting movies, the movie maynot be recorded properly. If you exceed theadjustable shutter speed range, the shutter speeddisplay will blink to indicate that the standardexposure cannot be obtained.If the picture will be too dark, the "30"" (30 sec.) shutter speeddisplay will blink. In the (Program AE) mode,you can set various functions and be more creative. In the mode, the camera sets the shutter speed andaperture automatically to obtain the standard exposure. The difference between the Basic Zone modes and isexplained on pages 272-273. The functions explained in this chapter can also be used inthe , , and modes explained in Chapter4. The M icon at the upper right of the page title indicates thatthe function is available only in Creative Zone modes(p.30).83Page 84d: Program AEThe camera automatically sets the shutter speed and aperture to suitthe subject's brightness. (On the LCD monitor, if the exposurelevel exceeds ±3 stops, the icon will blink at where or is displayed.) If [z2: Auto Lighting Optimizer] (p.121) is set to any setting otherthan [Disable], the image may still look bright even if a darker exposurehas been set. If ISO Auto is set, the ISO speed setting will change to suit the shutterspeed and aperture in order to obtain the standard exposure. Also, the continuous shootingspeed may be slower. The continuous shooting speed may become slower if the remainingbattery level is low or if you shoot under low-light conditions. In AI Servo AF operation, the continuous shooting speed may becomeslightly slower depending on the subject and the lens used.100Page 101j Using the Self-timer1 Press the button.the self-timer.2 Select Press the keys or turn the dial to select the self-timer,then press .j : Shoot in approx. 3 shots per second. It can make the image look moreimpressive.The following can be selected: [N:None],[S:Sepia], [B:Blue], [P:Purple] or[G:Green].126Page 127A Registering Preferred Image CharacteristicsNYou can select a base Picture Style such as [Portrait] or [Landscape],adjust its parameters as desired and register it under [User Def. Check the captured images on theLCD monitor when shooting. If you use a different camera to directly print images shot with thiscamera in the 1:1 aspect ratio, the images may not be correctly printed.144Page 145Menu Function Settings Metering timerNYou can change how long the exposure setting is displayed (AE locktime). Theaspect ratio is 16:9.[640x480] (C): Standard-definition recording quality. caused by the malfunction of non-genuine Canon accessories(e.g., a leakage and/or explosion of a battery pack). Without approval, use of the card is not permitted. 170 shots The figures above are based on a fully-charged Battery Pack LP-E10 and CIPA(Camera & Imaging Products Association) testing standards. With a fully-charged Battery Pack LP-E10, the total time available for Live Viewshooting is approx. You can change where the image lookssharp. 192Holding the camera..... Thetwo images are saved to the card simultaneously. 28, 54Shooting information display ..... If you hold down , it will rewind the movie.6 Next frameEach time you press , the movie will play frame-byframe. The camera sets everythingto suit the subject or scene forshooting.A : Scene Intelligent Auto (p.58)C : Creative Auto (p.63)Image Zone2345P630: Portrait (p.66): Landscape (p.67): Close-up (p.68): Sports (p.69): Food (p.70): Night Portrait (p.71)k: Movie Shooting(p.157)Page 31NomenclatureBattery Charger LC-E10ECharger for Battery Pack LP-E10 (p.34).Battery pack slotPower cordFull-charge lampCharge lampPower cord socket31Page 3232Page 331Getting StartedThis chapter explains preparatory steps before you startshooting and basic camera operations.Attaching the StrapPass the end of the strap throughthe camera's strap mount eyeletfrom the bottom. Exit the Live View shooting orturn off the power and let the camera rest for a while. Using Live View shooting at a high temperature for a prolonged periodwill cause the or icon to appear earlier. This option is available in Creative Zonemodes.1Select [Clear settings]. Under the [53] tab, select [Clearsettings], then press .[Clear all camera settings].2 Select Select [Clear all camera settings],then press .[OK].3 Select Select [OK], then press . Setting [Clear all camera settings]will reset the camera to the defaultsettings as shown on the next pages.FAQ Clearing all camera settingsAfter the procedure above, select [Clear all Custom Func. 1.6x the focal length indicated.)Canon EF mount• Image SensorType:Effective pixels:Aspect ratio:Dust delete feature:CMOS sensorApprox. Theavailable settings are described below.Select the option, then press . [Continuous]: The file numbering continues in sequence evenafter you replace the card or create a folder.Even after you replace the card or create a new folder, the filenumbering continues in sequence up to 9999. 82, 205Menu display..... *]settings will revert to their defaults. To prevent this, use the eyepiece cover(p.33) attached to the camera strap.During Live View shooting and movie shooting, attaching theeyepiece cover is unnecessary.1Detach the eyecup. Push the bottom of the eyecup todetach it.the eyepiece cover.2 Attach Slide the eyepiece cover down intothe eyepiece groove to attach it. After you finish shooting, detach theeyepiece cover and attach theeyecup by sliding it down into theeyepiece groove.102Page 103D Using the Built-in FlashIn indoor, low light or backlit conditions in daylight, just raise the built-inflash and press the shutter button to take flash pictures. setting] FunctionsFunctionFlash mode[Built-in flash func. Focus lock is not possible in theAI Servo AF mode, or when servo takes effect in AI Focus AF mode(p.95).284Page 285Troubleshooting GuideHorizontal stripes appear, or the exposureor color tone look strange. Horizontal stripes (noise) or irregular exposures can be caused byfluorescent lighting, LED lighting, or other light sources duringviewfinder or Live View shooting. [Light/scenebased shots] will appear on thescreen. Press the keys or turn the dial to select the lighting orscene type. The resulting image with the selectedlighting or scene type will bedisplayed.the picture.4 Take Press the shutter button completely totake the picture. To return to viewfinder shooting,press the button to exit LiveView shooting. Refer to the printer's instructionmanual before printing, or check with your photofinisher aboutcompatibility when ordering prints. Do not insert into the camera a card whose print order was set by adifferent camera and then try to specify a print order. However, the focus indicator in theviewfinder will not light up. 20SD, SDHC, SDXC cards 9 CardsSecond-curtain synchronization ... Referto the printer's instruction manual to find out what the [Default] settingsare. Depending on the image's file size and image-recording quality, it maytake some time for the printing to start after you select [Print]. If image tilt correction (p.247) is applied, it may take longer to print theimage. To stop the printing, press while [Stop] is displayed, then select[OK]. If you execute [Clear all camera settings] (p.192), all the settings willrevert to their defaults.245Page 246w Printinge Adjusting Printing EffectsIn step 4 on page 244, select the printingeffect. Select the desiredsetting, then press . [OnzD] : The vertical image is automatically rotated during playbackon both the camera's LCD monitor and on the computer. [OnD]: The vertical image is automatically rotated only on thecomputer. [Off]: The vertical image is not automatically rotated.FAQ The vertical image is not rotated during the image reviewimmediately after shooting.Press the button and the image playback will display therotated image. [OnzD] is set, but the image does not rotate during playback.Auto rotate will not work with vertical images captured while [Autorotate] was set to [Off]. 166, 280OONE SHOT (One-Shot AF) ..... Recompose the shotwhile keeping the shutter button pressed halfway, and then press theshutter button completely to take the picture. 69P (Food)..... 2 sec. (C.Fn)Firmware Ver.For updating the firmware-*267256188192-* For details, refer to the Wireless Function Instruction Manual.9 My Menu (Green)My Menu settingsRegister frequently-used menu options andCustom Functions265 When using a wireless communication function, be sure to check thecountries and areas of use, and observe the laws and regulations of thecountry or region. [Wi-Fi] cannot be set if the camera is connected to a computer, printer,TV set, or other device with a cable. Post-processingof the image with computer software will therefore be required. If the captured still photo was shot in the Adobe RGB color space, thefirst character in the file name will be an underscore "_". The ICC profile is not appended. If this happens, turn the dial to the right toset a faster shutter speed or decrease the ISO speed.D Using the Built-in FlashTo obtain the correct flash exposure on the main subject, the flashoutput will be set automatically (autoflash) to match the automaticallyset aperture. Set the filtereffect in step 4 while checking the resulting image. Y Toy camera effectDarkens the photo's corners and applies a color tone that makes itlook as if it was shot by a toy camera. 61Focus mode switch ..... Turn the camera off and on again orre-install the battery. Turn the power off and on again, remove and install the batteryagain, or use a Canon lens (p.39, 36).* If the error still persists, write down the error number and contact yournearest Canon Service Center.294Page 295Specifications• TypeType:Recording media:Image sensor size:Compatible lenses:Lens mount:Digital, single-lens reflex, AF/AE camera with built-inflashSD memory card, SDHC memory card, SDXC memory cardApprox. 67, 71Noise reductionHigh ISO speed ..... Also, the print order may not be possible, depending onthe image type.250Page 251W Digital Print Order Format (DPOF)Print Ordering Selecting imagesSelect and order images one by one.To display the three-image display, pressthe button. During pause, [G] will be displayedon the upper left of the image. self-timer .....1011280x720 (movie) .....1661920x1080 (movie) .....166640x480 (movie) .....1669-point AF auto selection .....97AA (Scene Intelligent Auto) .....58Access lamp.....38Accessories.....3Adobe RGB.....135AE lock.....118AEB (Auto exposurebracketing) .....116, 258AF 9 FocusingAI FOCUS (AI Focus AF).....96AI SERVO (AI Servo AF) .....96Ambience-based shots .....75Angle of view.....45Aperture-priority AE .....108Aspect ratio .....144Auto Lighting Optimizer.....57, 121Auto playback .....220Auto power off.....39, 183Auto reset.....187Auto rotate vertical images .....190Autofocus .....95, 97Automatic selection (AF point) .....97Av (Aperture-priority AE).....108BB/W (Monochrome).....94, 126Background music .....223Basic Zone modes .....30Battery.....34, 36, 40Beep (Beeper).....182Black-and-white images....75, 94, 126Bracketing ..... 2 sec., 4 sec., or 8 sec.).170Page 1713 Shooting Video SnapshotsCautions for Shooting Video Snapshots You can add to an album only video snapshots with the same duration(approx. You can adjust the soundrecording level to one of 64 levels.Select [Rec. Doing so may cause a malfunction. Certain TV sets may not be able to play back the captured images.225Page 226K Protecting ImagesYou can set protections to prevent the precious images from beingerased accidentally.3 Protecting a Single Image1Select [Protect images]. Under the [x1] tab, select [Protectimages], then press . The protect setting screen willappear.[Select images].2 Select Select [Select images], then press. An image will be displayed.Image protect iconthe image.3 Protect Press the keys to select226the image to be protected, then press.When an image is protected, the icon will appear on the top ofthe screen.To cancel the image protection, press again. Sinceit is only a single-digit indicator 0 - 9, any number higher than 8 willbe displayed only as "9". 206u/y Magnified View ..... The number of possible shots displayed is only approximate. Does the camera display the maximum burst?The maximum burst is displayed on the viewfinder's right side. 50 min. 240w Printing ..... If you have not used the camera for some time or if there isan important shoot such as a foreign trip coming up, have the camerachecked by your nearest Canon Service Center or check the camerayourself and make sure it is working properly. If you use continuous shooting, Live View shooting, or movie shooting for aprolonged period, the camera may become hot. Press the shutterbutton halfway to focus in the magnified view. (Body only)• Operation EnvironmentWorking temperature range:0°C - 40°C / 32°F - 104°FWorking humidity: 85% or less All the data above is based on Canon's testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines. Dimensions and weight listed above are based on CIPA Guidelines (except weight for camera body only). Product specifications and the exterior are subject to change without notice. If a problem occurs with a non-Canon lens attached to the camera, consult the respective lens manufacturer.Page 15 301Trademarks Adobe is a trademark of Adobe Systems Incorporated. Microsoft and Windows are trademarks or registered 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 other countries. SDXC logo is a trademark of SD-3C, LLC. HDMI, HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. All other trademarks are the property of their respective owners.About MPEG-4 Licensing"This product is licensed under AT&T patents for the MPEG-4 standard and may be used for encoding MPEG-4 compliant video and/or decoding MPEG-4 compliant video that was encoded only (1) for a personal and non-commercial purpose or (2) by a video provider licensed under the AT&T patents to provide MPEG-4 compliant video. (This step is not necessaryin the A mode.) The settings of the selected functionand Feature guide (p.55) will appear. Press the keys or turn the dial to change some of thesettings. You can also select from a list byselecting a function and pressing.73Page 74Q Quick ControlSettable Functions in Basic Zone Modeso: Default setting k: User selectableFunctionu: Single shootingDrive/self-timer(p.100-101)Built-in flashfiring*2A Coi: Continuousshooting2o34oo: Not selectable5P6ookoj: 10 sec.kkkkkkkkq: Continuousshooting*1kkkkkkkka: Automatic firingoooD: Flash on (Fires atall times)kb: Flash offkAmbience-based shots (p.75)kLight/scene-based shots (p.79)Blurring/sharpening the background(p.64)oookoookkkkkkkkkkkkColor tone (p.70)k*1: Use the keys to set the number of continuous shots.*2: The built-in flash will not fire when it is retracted.If you change the shooting mode or turn off the power, all the functions willrevert to the default settings (except the self-timer).74Page 75Shooting with Ambience SelectionExcept in the Basic Zone mode, you can select the ambience forshooting.AmbienceA C 2 3 4 5 P 6kkAmbience Effect(1) Standard settingkkkkk(2) Vividkkkkkk Low / Standard / Strong(3) Softkkkkkk Low / Standard / Strong(4) Warmkkkkkk Low / Standard / Strong(5) Intensekkkkkk Low / Standard / Strong(6) Coolkkkkk(7) Brighterkkkkkk Low / Medium / High(8) Darkerkkkkkk Low / Medium / High(9) Monochromekkkkkkk Blue / B/W / Sepia1Set the Mode Dial to any of thefollowing modes: , ,, , , , or .No settingk Low / Standard / Strongthe Live View image.2 Display Press the button to display theLive View image.Quick Control, select the3 Withdesired ambience. Press the button (7). Press the keys to select[Standard setting]. If the sensor needs to becleaned directly, having it done by a Canon Service Center isrecommended.1Select [Clean manually]. Under the [52] tab, select [Cleanmanually], then press .[OK].2 Select Select [OK], then press . In a moment, the reflex mirror will lockup and the shutter will open.3 Clean the sensor.the cleaning.4 End Turn off the power.Make sure to use a fully-charged battery.202Page 2033 Manual Sensor CleaningN While cleaning the sensor, never do any of the following. With mode, only the shutter speed and aperture are setautomatically. to 30 sec. 25318Page 19Contents11Customizing the Camera255Setting Custom Functions..... Select thedesired color, then press .When you exit the menu, the shootingsettings screen based on the selectedcolor will be displayed.195Page 1963 Setting the FlashNThe built-in flash and external Speedlite settings can be set with thecamera's menu. If this happens, turn the dial to the left toset a slower shutter speed or increase the ISO speed.If the exposure will be too bright, the minimum aperture (highest f/number) will blink. Althoughnoise reduction is applied at all ISO speeds, it is particularly effectiveat high ISO speeds. The two images willbe saved in the same folder with the same file numbers (file extension.JPG for JPEG and .CR2 for RAW). The photo will look bright andappetizing. Hereyou will find explanations of how to play back and erasephotos and movies with the camera and view them on aTV set.Images shot and saved with another deviceThe camera may not be able to properly display images capturedwith a different camera, edited with a computer, or that have had theirfile names changed.205Page 206x Searching for Images QuicklyH Displaying Multiple Images on One Screen (Index Display)Search for images quickly with the index display showing four or nineimages on one screen.1Play back the image. When you press the button, thelast image captured will be displayed.to the index display.2 Switch Press the button. The 4-image index display willappear. It will return to normal at room temperature. Look straight at the LCD monitor. This also applies to movie shooting (p.175).ISO speed [H] (equivalent to ISO 12800) cannot be set. Under [53: Custom Functions (C.Fn)], if [6: Highlight tone priority]is set to [1: Enable], the [H] ISO speed (equivalent to ISO 12800)cannot be selected even when [2: ISO expansion] is set to [1: On]. 5x / 10x magnification possible)Focusing brightness range:EV 1 - 18 (at room temperature

RAW images on a computer, using Digital Photo Professional(DPP, EOS software) is recommended (p.310). Previous versions of DPP Ver.4.x cannot process RAW images takenwith this camera. For details, see page 168. Video systemSelect [NTSC] or [PAL] to suit your TV set's video system (p.166).The Metering timer and Grid display settings will also be reflected in LiveView shooting. 58Focus lock ..... 25 min. Then you can further press the shutter button completely.Pressing HalfwayThis activates autofocusing and theautomatic exposure system that sets theshutter speed and aperture.The exposure setting (shutter speed andaperture) is displayed in the viewfinder(0).While you press the shutter buttonhalfway, the LCD monitor will turn off(p.195).Pressing CompletelyThis releases the shutter and takes thepicture.Preventing Camera ShakeHand-held camera movement during the moment of exposure is calledcamera shake. In such a case, see "Rotating the Image" on page 209. On the camera's LCD monitor, I want to rotate an imagecaptured when [OnD] had been set.Set [OnzD], then play back the image. 3Instruction Manuals ..... This phenomenon is called lens light fall-off or drop in peripheralillumination and can be corrected. 10Index to Features ..... Resolve the problem displayed in the error message (p.248). If [53: Wi-Fi] is set to [Enable], the camera cannot be connected to aprinter. The slower the card, the faster the indicator willclimb upward. 202Sepia (monochrome)..... among the remaining 0.01% or less pixels.Dead pixels are not a malfunction. 28LCD monitor ..... Toplay background music, you must first copy the background music to thecard using EOS Utility (EOS software). 46 Mbps1280x720 (60p/50p): Approx. It also makes skin tones and hair look softer.Shooting Tips Select the location where the distance between the subject andthe background is the farthest.The further the distance between the subject and background, themore blurred the background will look. In Basic Zone modes, metering timer is fixed at 8 sec.Any of the following operations will stop Live View shooting. It also adjusts focusautomatically by detecting whether the subject is still or moving (p.61).1AF pointSet the Mode Dial to .any AF point over the2 Aimsubject. All the AF points will be used to focus,and the camera will normally focus onthe closest object. Aiming the center AF point over thesubject will make focusing easier.on the subject.3 Focus Press the shutter button halfway. As indicated on the nextpage, the ISO speed will be setautomatically to suit the shooting mode.91Page 92i: Changing the ISO Speed to Suit the Light LevelNShooting ModeISO Speed SettingA/C/2/3/4/5/P/6Automatically set within ISO 100 - ISO 3200d/s/f/aAutomatically set within ISO 100 - ISO 6400*1With flashISO 800*2*3*4*5With bulb exposuresISO 800*5*1: Depends on the maximum ISO speed limit set.*2: If fill-in flash will cause overexposure, ISO speed may be reduced, down to apossible minimum of ISO 100.*3: If bounce flash is used with an external Speedlite in a Basic Zone (except) mode or , ISO 800 - ISO 1600 (or up to the maximum limit) will beset automatically.*4: Fixed at ISO 400 in mode. If this happens, exit Live View shooting and resume LiveView shooting under the actual light source. If you point the camera in a different direction, it may throw off the LiveView image's correct brightness momentarily. For details, refer to the card's instruction manual. Depending on the wireless LAN's connection conditions, the imagetransfer may take longer or it may be interrupted. The Eye-Fi card may become hot as it transmits. The battery power will be consumed faster. During the image transfer, auto power off will not take effect. If you insert a wireless LAN card other than an Eye-Fi card, [51: Eye-Fisettings] will not appear. 190 shotsApprox. For instructions onhow to set up and use the Eye-Fi card or to troubleshoot any imagetransfer problems, refer to the Eye-Fi card's instruction manual orcontact the card manufacturer.The camera is not guaranteed to support Eye-Fi card functions(including wireless transfer). Therefore, thecamera cannot be connected to a TV set with an analog AV cable. Even if the camera is connected to a hard disk recorder with a USBcable, movies and still photos cannot be played back or saved. If the playback device is not compatible with MOV files, the movie cannotbe played back.214Page 215k Enjoying MoviesPlayback on the Camera's LCD Monitor(p.216-223)You can play back movies on thecamera's LCD monitor. Storing the battery when it is fully charged maylower the battery's performance. The battery charger can also be used in foreign countries.The battery charger is compatible with a 100 V AC to 240 V AC 50/60 Hz power source. Folders numbered from 100 to 999 canbe created.Creating Folders with a ComputerWith the card open on the screen, create a new folder named "DCIM". 106f: Changing the Depth of Field ..... When theAF point covering the desired subject also flashes, take the picture. The beeper continues to beep softly. (camera power remains on). With an HDMI cable (sold separately), you can display the Live Viewimage on a TV set (p.224). 100% (with movie recordingsize set to [A]). Monaural sound is recorded by the camera's built-in microphone (p.158). With a fully-charged Battery Pack LP-E10, the total time available formovie shooting is as follows: approx. To turn off the display, pressthe button.3 Changing the Shooting Settings Screen ColorYou can change the background color of the shooting settings screen.Under the [51] tab, select [Screencolor], then press . *]. If the settings in a Picture Styleregistered under [User Def. When you let go of the shutterbutton, the display will turn on. [Shutter/DISP]: When you press the shutter button halfway, thedisplay will turn off. It will record a morenatural sound than with [Enable].Sound is recorded at a sampling rate of 48 kHz/16-bit. Metering timerYou can change how long the exposure setting is displayed (AE locktime). Grid displayWith [Grid 1l] or [Grid 2m], you can display grid lines. You can also select it from a list by pressing. 30Av (Aperture-priority AE)..... 206Jump display(image browsing) ..... Gives more natural-looking blue skiesand greenery and reproduces light-colored flowers better.(3) ShadeFor subjects in the shade. Suitable for skin tones, which may looktoo bluish, and for light-colored flowers.(4) CloudyFor subjects under overcast skies. 236Flash (Speedlite)Built-in flash ..... You can set this auto power-off time.When the camera is turned off due to auto power off, you can turn it onagain by pressing the shutter button, etc.If [Disable] is set, either turn off the camera or press the button to turn off the LCD monitor to save battery power.Even when [Disable] is set, if the camera is not used for 30 min.,the LCD monitor will turn off automatically. 389 g / 13.72 oz. This software is aimed at advanced users who are experienced in processing images.Software Start GuideSoftware OverviewPage 10 Zoom out Zoom in Previous page 1/322 Next page 308 Page 11 Zoom out Zoom in Previous page 1/322 Next page 306 Page 12Only for European Union and EEA (Norway, Iceland and Liechtenstein)These symbols indicate that this product is not to be disposed of with your household waste, according to the WEEE Directive (2012/19/EU), the Battery Directive (2006/66/EC) and/or national legislation implementing those Directives. You cannottake another picture until the noise reduction process is completed. At ISO 1600 or higher, noise may be more pronounced with setting 2than with setting 0 or 1. With setting 1 or 2, if a long exposure is shot with the Live View imagedisplayed, "BUSY" will be displayed during the noise reduction process.The Live View display will not appear until the noise reduction iscompleted. The video snapshots can bejoined together into a single movie called a video snapshot album. Followthe steps below to set the time zone first. If focus cannot be achieved, the focusindicator will blink.When you want to take the picture, press the shutter buttoncompletely. This is not a malfunction. If there is a bright light source inside or outside the image area, ghostingmay occur.LCD Monitor Although the LCD monitor is manufactured with very high precisiontechnology with over 99.99% effective pixels, there may be a few dead pixelsdisplaying only black or red, etc. 2 hours to fully recharge a completelyexhausted battery at room temperature (23°C / 73°F). 224K Protecting Images..... To see theresulting effects, take test shots. Thecolors will look vivid for blue skies, greenery and sunsets,particularly in nature, outdoor and sunset scenes.If the desired color tone is not obtained with [Auto], use another Picture Style.P StandardThe image looks vivid, sharp, and crisp. or faster, first-curtain synchronizationwill be applied automatically.If an external Speedlite is attached, you can also select [Hi-speed](e). When youselect [OK], the settings for the built-in flash and externalSpeedlite will be cleared.Setting the External Speedlite Custom FunctionsThe Custom Functions displayed under [External flash C.Fn setting]vary depending on the Speedlite model.1Display the Custom Function. Select [External flash C.Fn setting],then press .the Custom Function.2 Set Press the keys to selectthe function number, then set thefunction. Press again to resume the slideshow. During auto playback, you can press the button to change thestill photo display format (p.82). During auto playback or pause, you can press the keys toview another image. During auto playback, auto power off will not take effect. The display time may vary depending on the image. To view the slide show on a TV set, see page 224.222Page 2233 Slide Show (Auto Playback)Selecting the Background MusicIf you copy a background music to the card using the EOS Utility (EOSsoftware), you can play back the slide show on a TV set or other devicewhile playing the background music.1Select [Background music]. Set [Background music] to [On],then press . If the card has no background music,you cannot perform step 2.the background music.2 Select Press the keys to selectthe desired background music, thenpress . Reduces the reddish-orangecolor cast caused by tungsten lighting.(6) Fluorescent lightFor subjects lit under fluorescent lighting. 160Metering timer..... If Adobe RGB is set, the first characterwill be an underscore (p.135).The file name starts with "MVI_". It is a movie file (p.187).The file numbering does not start from 0001. If the card already contains recorded images, the image number maynot start from 0001 (p.186).The shooting date and time displayed is incorrect. Check that the correct date and time are set (p.41). Check the time zone and daylight saving time (p.41).The date and time are not in the picture. The shooting date and time do not appear in the picture. In otherwords, it is like a high-output flash attached externally in place of thebuilt-in flash.For detailed instructions, refer to the EX-series Speedlite'sinstruction manual. Follow the onscreen instructions.Cause and countermeasuresNumber0102Error Message and SolutionCommunications between the camera and lens is faulty. Any Picture Style registered via EOSUtility (EOS software) will have only its modified parameters reverted tothe default setting. To shoot with a registered Picture Style, follow step 2 on page 93 toselect [User Def. With manual exposure, a slow shutterspeed may solve the problem.Wi-FiWi-Fi cannot be set. If the camera is connected to a computer, printer, TV set, or otherdevice with a cable, Wi-Fi cannot be set ([53: Wi-Fi] will be grayedout). 209Numbering ..... This function is called rating.1Select [Rating]. Under the [x2] tab, select [Rating],then press .an image.2 Select Press the keys to select astill photo or movie to be rated. By pressing the button, youcan select images from a three-imagedisplay. The picture will be takenwith the selected aperture.Aperture DisplayThe higher the f/number, the smaller the aperture opening will be. The gradation in-between will be reproduced.By checking the image and its brightness histogram,you can see the exposure level inclination and the overall gradation.[RGB] DisplayThis histogram is a graph showing the distribution of each primarycolor's brightness level in the image (RGB or red, green, and blue).The horizontal axis indicates the color's brightness level (darker onthe left and brighter on the right), while the vertical axis indicates howmany pixels exist for each color brightness level. The functions you canset are limited. 47Shutter synchronization(1st/2nd curtain) ..... 436 g / 15.38 oz. 111q Changing the Metering Mode .....113Setting Exposure Compensation .....114Auto Exposure Bracketing.....116A Locking the Exposure .....118A Locking the Flash Exposure.....119Auto Correction of Brightness and Contrast(Auto Lighting Optimizer)..... You can freely set the AF operation, metering mode, andother functions (p.272).85Page 863 Setting the Image-Recording QualityYou can select the pixel count and the image quality. 182Formatting..... You can start shooting amovie again by pressing the button. 46Cards..... Using a tripod isrecommended.To prevent a slow shutter speed, under [53: Custom Functions(C.Fn)], set [3: Flash sync. You can alsoselect one AF point to focus and focus only on the area covered by thatAF point (manual selection).AF point1Display the Live View image. Press the button. The Live View image will appear onthe LCD monitor. The small boxes on the screen arethe AF points, and the larger box isthe magnifying frame.Magnifying framethe AF point.N2 Select Press the button (7) todisplay the Quick Control screen. The settable functions will bedisplayed on the left of the screen. Press the keys to make theAF point selectable. Turn the dial to select the AFpoint.152Page 153Using AF to Focus (AF Method)on the subject.3 Focus Aim the AF point over the subject andpress the shutter button halfway. The Live View image will turn off, thereflex mirror will go back down, andAF will be executed. -1.0 ft.), fill the viewfinder with apatternless, solid-white object andtake a picture.The picture will be taken in aperturepriority AE mode at an aperture off/22.Since the image will not be saved, thedata can still be obtained even if thereis no card in the camera.When the picture is taken, the camerawill start collecting the Dust DeleteData. on theLCD monitor.To display the image again, pressthe button (p.82). To shoot while looking at the LCD monitor, see "Live ViewShooting" (p.137). To view the images captured so far, see "Image Playback" (p.82). To delete an image, see "Erasing Images" (p.228).7Page 8Conventions Used in this ManualIcons in this Manual: Indicates the Main Dial.: Indicates the cross keys on the top,bottom, left, and right.: Indicates the Setting button.0, 9, 7, 8: Indicates that each function remains active forapprox. The movie will be recorded almostexactly as it appears on the LCD monitor. In low light, noise or irregular colors may appear in the image. In such acase, use the Speedlite to set the functions.197Page 1983 Setting the FlashN Flash modeWhen using an external Speedlite, you can select the flash mode tosuit your desired flash shooting. [E-TTL II] is the standard mode ofEX-series Speedlites for automaticflash shooting. [Manual flash] enables you to set theflash output yourself. autoPrevents a slow shutter speed from being set in low-lightconditions. can be imprinted.*2: After ordering the prints with "Digital Print Order Format (DPOF)" (p.249),printing by following "Direct Printing of Print-Ordered Images" (p.252) isrecommended.If the image's aspect ratio is different from the printing paper's aspect ratio, theimage may be cropped significantly when you print it as a borderless print. speed in Av mode] to [1: 1/200-1/60sec.auto] or [2: 1/200sec. 182Setting the Image Review Time .....182Setting the Auto Power-off Time .....183Adjusting the LCD Monitor Brightness ..... 165, 174Autoexposure..... 242Cropping the Image ..... 180 shots at room temperature (23°C/73°F),approx. Also, you can copy background music tracks, such as EOS Sample Music*, to the card.* You can use the background music as the soundtrack for a video snapshot album, movie, or slide show played back on a TV set or other device.Digital Photo ProfessionalThis software is recommended for users who shoot RAW images. 2 sec.Compatible with EX-series SpeedlitesE-TTL II autoflash±2 stops in 1/3- or 1/2-stop incrementsProvidedNot provided• Drive SystemDrive mode:Continuous shootingspeed:Max. 176Video snapshot album ..... at room temperature (23°C/73°F)Approx. Thus, you can set your camera, sothat the optimum focusing and exposure can be achieved and waitfor the decisive moment.During Live View shooting With setting 1 or 3, press the button for One-Shot AF. With setting 0 or 2, press the shutter button halfway for One-Shot AF.263Page 2643 Custom Function SettingsNC.Fn-9Assign SET buttonYou can assign a frequently-used function to . If you are too close to the subject,move away and try again.In low-light conditions, when you raise the built-in flash, the AFassist beam (p.98) will be emitted to make focusing easier. Multiple AF points flash simultaneously.This indicates that focus is achieved at all those AF points. before the picture is taken, the beeper will sound faster. With , the interval between the multiple shots may be prolongeddepending on the shooting functions settings such as the imagerecording quality or flash. If you do not look through the viewfinder when you press the shutterbutton, attach the eyepiece cover (p.102). 94Night Portrait ..... 195Shooting function settings.... If thishappens, set the date/time/zone again.• When the camera is stored without the battery.• When the camera's battery becomes exhausted.• When the camera is exposed to below freezing temperatures for aprolonged period. The date/time that was set will start from when you press in step 6. After changing the time zone, check that the correct date and time are set.42Page 433 Selecting the Interface Language1Display the menu screen. Press the button to displaythe menu screen.the [52] tab, select2 Under[LanguageK]. Press the keys to selectthe [52] tab. Press the keys to selectthe [LanguageK], then press .the desired language.3 Set Press the and keys to select the language, thenpress . The interface language will change.43Page 44Attaching and Detaching a LensThe camera is compatible with all Canon EF and EF-S lenses. (Returnsto .)the daylight saving time.5 Set Set it if necessary. Press the keys to select [Y]. Press so is displayed. Press the keys to select[Z], then press . When the daylight saving time is setto [Z], the time set in step 4 willadvance by 1 hour. 180 shots at room temperature (23°C/73°F), approx. For compatibility information, contact thesoftware manufacturer.89Page 90i: Changing the ISO Speed to Suit the Light LevelNSet the ISO speed (image sensor's sensitivity to light) to suit theambient light level. Pull the strap totake up any slack and make surethe strap will not loosen from thebuckle.The eyepiece cover is attached tothe strap (p.102).Eyepiece cover33Page 34Charging the Battery1Remove the protective cover. Detach the protective cover providedwith the battery.the battery.2 Attach As shown in the illustration, attach thebattery securely to the charger. To detach the battery, follow theabove procedure in reverse.the battery.3 Recharge Connect the power cord to thecharger and insert the plug intoa power outlet. Recharging starts and the chargelamp lights up in orange. When the battery is fully recharged,the full-charge lamp will light up ingreen. It takes approx. The functions displayed under[External flash func. 131White priority (Qw)..... For details, refer tothe EOS Utility Instruction Manual. Peripheral illumination correction cannot be applied to JPEG imagesalready taken. Depending on shooting conditions, noise may appear on the imageperiphery. When using a non-Canon lens, setting the corrections to [Disable] isrecommended even if [Correction data available] is displayed. If you use the magnified view during Live View shooting, the peripheralillumination correction will not be reflected in the image displayed on thescreen. If the effect of the correction is not visible, magnify the image aftershooting and check it again. Corrections can be applied even when an Extender or Life-sizeConverter is attached. If the correction data for the attached lens is not registered to thecamera, the result will be the same as when the correction is set to[Disable]. The correction amount applied will be slightly lower than the maximumcorrection amount settable with Digital Photo Professional (EOSsoftware). The correction amount will be less if the lens used does not havedistance information. The higher the ISO speed, the lower the correction amount will be.123Page 124A Customizing Image CharacteristicsNYou can customize a Picture Style by adjusting individual parameterssuch as [Sharpness] and [Contrast] from the default. Themore pixels there are toward the right, the brighter and denser thecolor. Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis. 59 sec., the movie shooting will stop automatically.288Page 289Troubleshooting GuideThe ISO speed cannot be set for movie shooting. If [k1: Movie exposure] is set to [Auto], the ISO speed will be setautomatically. 196Flash exposure compensation... 30 seconds of non-operation. This prevents any Speedlite which uses aseries of intermittent flashes (like the built-in flash) from emittingthe AF-assist beam.With an EX-series Speedlite equipped with an LED light, the LEDlight will not automatically turn on for AF-assist.If an external Speedlite's [AF-assist beam firing] Custom Function is setto [Disabled], the Speedlite will not emit the AF-assist beam even if thecamera's C.Fn-7 is set to 0, 2, or 3.262Page 2633 Custom Function SettingsNC.Fn IV: Operation/OthersC.Fn-8Shutter/AE lock button0: AF/AE lock1: AE lock/AFThis is convenient when you want to focus and meter separately.Press the button to autofocus, and press the shutter buttonhalfway to apply AE lock.2: AF/AF lock, no AE lockDuring AI Servo AF, you can press the button to pause theAF operation momentarily. The shutter speedwill be set automatically between 1/200 sec. afteryou let go of the button.* In addition to the above, the icons and symbols used on the camera's buttonsand displayed on the LCD monitor are also used in this manual when discussingrelevant operations and functionality.3: Indicates a function that can be changed by pressing the button to change its settings.M: This icon at the upper right of the page titles indicates thatthe function is available only in the Creative Zone modes(p.30).(p.**): Reference page numbers for more information.: Warning to prevent shooting problems.: Supplemental information.: Tips or advice for better shooting.: Troubleshooting advice.Basic Assumptions and Sample PhotosAll operations explained in this manual assume that the Mode Dial isset to any mode other than (p.39). The closer it isto G, the more muted the image will look.To increase the contrast, set it toward the plus end. approx. This feature can be used in Creative Zone modesexcept . The actual data is not completely erased. *], then press the button. The Detail setting screen will appear..3 Press With [Picture Style] selected, press.the base Picture Style.4 Select Press the keys to select thebase Picture Style, then press . To adjust the parameters of a PictureStyle that is registered to the camerawith EOS Utility (EOS software),select the Picture Style here.127Page 128A Registering Preferred Image CharacteristicsNa parameter.5 Select Select a parameter such as[Sharpness], then press .the parameter.6 Set Press the keys to adjustthe parameter as desired, then press.For details, see "Customizing ImageCharacteristics" on pages 124-126. Press the button to register themodified Picture Style. (AE lock settingis retained until you press the button.) By holding down the button and turning the dial, you canset the exposure compensation. When the Dust Delete Data isobtained, a message will appear.Select [OK] and the menu will reappear.If the data is not obtained successfully,an error message will appear. If your printer cannot print borderlessprints, the print will have borders.BorderedcImprints the shooting information*1 on the border on 9x13 cm orlarger prints.xx-upOption to print 2, 4, 8, 9, 16, or 20 images on one sheet.20-upc35-uppPrints 20 or 35 images as thumbnails on A4 or Letter size paper*2.• Imprints the shooting information*1 with [20-upc].DefaultThe page layout varies depending on the printer model or its settings.*1: From the Exif data, the camera name, lens name, shooting mode, shutterspeed, aperture, exposure compensation amount, ISO speed, white balance,etc. Program shift is canceled automatically when themetering timer (0) ends (exposure setting display turns off).Program shift is not possible with flash. If the "30"" shutter speed and the lowest f/numberblink, it indicates underexposure. The three bracketed shots will be taken in the followingsequence: standard exposure, decreased exposure, and increasedexposure. Using AEB with the self-timerWith the self-timer (p.101), you can take threecontinuous shots after a delay of approx. Strongmagnetic fields can cause camera misoperation or destroy image data. Do not leave the camera in excessive heat, such as in a car in directsunlight. The camera contains precision electronic circuitry. It is effective for preventing subject blur and camerashake. Stop cleaning the sensor. If a smudge that cannot be removed with a blower remains, having thesensor cleaned by a Canon Service Center is recommended.203Page 204204Page 2058Image PlaybackThis chapter explains functions related to viewingphotos and movies, with more advanced uses than inChapter 2 "Basic Shooting and Image Playback". Be careful not to leave the [Monochrome] settingon when you want to shoot photos in color again. Change the setting tosuit the noise level.0: Standard2: Strong1: Low3: Disable With setting 2, the maximum burst during continuous shooting will greatlydecrease. After applying AE lock during movieshooting, you can cancel it by pressing the button. If [0: Disable] is set, ISO100 can be set (p.261). 118Exposure compensation ..... For information on the compatibility with any products introduced after this date, contact any Canon Service Center. [Average] is foradvanced users. setting]or [External flash func. If the indicator becomes full, movie shootingwill stop automatically.IndicatorIf the card has a fast writing speed, the indicator will eithernot appear or the level (if displayed) will hardly go upward.First, shoot a few test movies to see if the card can write fast enough.Playback and TV Connection If you connect the camera to a TV set with an HDMI cable (p.224) andshoot a movie at [1920x1080] or [1280x720], the movie being shot willbe displayed in a small size on the TV set. Note that focus will not be locked in this case.96Page 97S Selecting the AF PointNIn Basic Zone modes, the camera will normally focus on the closestsubject automatically. c is suitable for emailingthe image or using it on a website.A4 (29.7x21 cm/11.7x8.3 in.)12.7x8.9 cm/5.0x3.5 in. What's the difference between 7 and 8?These settings indicate the different levels of image quality causedby different compression rates. each). Note that if you do any of the following while shooting video snapshots, anew album will be created for subsequent video snapshots.• Changing the [Movie rec. 177Page 321Page 322CANON INC.30-2 Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, JapanEurope, Africa & Middle EastCANON EUROPA N.V.Bovenkerkerweg 59, 1185 XB Amstelveen, The NetherlandsFor your local Canon office, please refer to your warranty card or to www.canon-europe.com/SupportThe product and associated warranty are provided in European countries by Canon Europa N.V.The descriptions in this Instruction Manual are current as of December 2017.For information on the compatibility with any products introduced after this date,contact any Canon Service Center. Press the buttonagain to return to the shootingsettings screen. You can set [52: LCD off/on btn] so that the shooting settings displaydoes not keep turning off and on (p.195). Even when the menu screen or captured image is displayed, pressingthe shutter button will enable you to shoot immediately. Look straight at the LCD monitor. 167Sound recording ..... Move in closer if necessary. Focus on the face.Check that the AF point covering the face lights up. 2 hr. Also effective for light-colored flowers.(5) Tungsten lightFor subjects lit under tungsten lighting. 116, 258Autoexposure lock (AE lock)..... Do not insert foreign objects or liquids into the product. Do not insert foreign objects or liquids into the product. Do not use the product where flammable gases may be present.This may cause electric shock, explosion or fire. Do not leave a lens or a camera with a lens attached, exposed without the lens capattached.The lens may concentrate the light and cause fire. Do not look through the viewfinder at strong light sources such as the sun on a brightday or lasers and other strong artificial light sources.This may harm your vision. Do not touch the product connected to a power outlet during lightning storms.This may cause electric shock. Observe the following instructions when using commercially available batteries orprovided battery packs.• Use batteries/battery packs only with their specified product.• Do not heat batteries/battery packs or expose them to fire.• Do not charge batteries/battery packs using non-authorized battery chargers.• Do not expose the terminals to dirt or let them come into contact with metallic pinsor other metal objects.• Do not use leaking batteries/battery packs.• When disposing of batteries/battery packs, insulate the terminals with tape orother means.This may cause electric shock, explosion or fire.If a battery/battery pack leaks and the material contacts your skin or clothing, flush theexposed area thoroughly with running water. burst (Approx.):Single shooting, Continuous shooting, Self-timer with 10sec. /10 min. The AF point will be selectedautomatically to focus on the subject. Pressing toggles the AF pointselection between the center AF pointand automatic AF point selection.on the subject.3 Focus Aim the selected AF point over thesubject and press the shutter buttonhalfway to focus.97Page 98S Selecting the AF PointNShooting Tips When shooting a portrait up close, use One-Shot AF and focuson the eyes.If you set the composition after focusing on the eyes of the person tobe photographed, the vivid facial expression will stand out more inthe picture. If it is difficult to focus, select and use the center AF point.The center AF point is the most sensitive among the nine AF points. To make it easier to focus on a moving subject, set the camerato automatic AF point selection and AI Servo AF (p.96).The center AF point will first be used to focus on the subject. 90Automatic setting (Auto)..... Ifthe movie shooting time reaches 29 min. If this happens,exit Live View shooting and execute AF under the actual lightsource.Magnified View When [FlexiZone - Single] is set and you press the button, thearea covered by the AF point will be magnified. 52Switching the LCD Monitor Display ..... 21 mm (from eyepiece lens center at -1 m-1)Standard diopter:Approx. / 1 min. / 2 min. (It cannot be moved to theedge of the screen.) Press to return the AF point to the center. 103Custom Functions..... 143Using AF to Focus (AF Method)..... The use of a tripod or similar equipment isrecommended when using the product in hot places and for people with circulationproblems or less sensitive skin. Follow any indications to turn off the product in places where its use is forbidden.Not doing so may cause other equipment to malfunction due to the effect ofelectromagnetic waves and even result in accidents. To prevent fire, excessive heat, chemical leakage, explosions, and electrical shock,follow the safeguards below:• Do not insert the battery's plus and minus ends incorrectly. Do not leave any cords near a heat source.It can deform the cord or melt the insulation and cause a fire or electrical shock. Do not fire the flash at anyone driving a car or other vehicle.It may cause an accident. Do not use or store the equipment in dusty or humid places. 39Setting the Date, Time, and Zone..... JPEG c and RAW images cannot be resized.1Select [Resize]. Under the [x1] tab, select [Resize],then press . An image will be displayed.an image.2 Select Select the image you want to resize. By pressing the button, youcan switch to the index display andselect an image.the desired image size.3 Select Press to display the imagesizes. Press the keys to selectthe desired image size, then press.Target sizesthe image.4 Save Select [OK] to save the resizedimage. Check the destination folder andimage file number, then select [OK]. To resize another image, repeat steps2 to 4. To return to the menu, press the button.237Page 238S Resizing JPEG ImagesResize Options by Original Image SizeAvailable Resize SettingsOriginal ImageSize4abc3kkkkkkkkk4akbcImage SizesThe image sizes displayed in step 3 on the preceding page, such as[***M ****x****], have a 3:2 aspect ratio. Followthe "Preparation" procedure on thepreceding page, then select [OK].Take the picture again.Dust Delete DataAfter the Dust Delete Data is obtained, it is appended to all the JPEGand RAW images captured thereafter. 8.0 megapixels (3456 x 2304)S1 (Small 1) : Approx. 230Slide show..... When shooting flashphotography, if the subject is too close to the camera, the picturemay come out extremely bright (overexposure). When flash was used, the bottom part of the picture came outunnaturally dark.The shadow of the lens barrel was captured in the picture becausethe subject was too close to the camera. 5514Page 15Contents2Basic Shooting and Image Playback57A Fully Automatic Shooting (Scene Intelligent Auto) .....58A Full Auto Techniques (Scene Intelligent Auto).....61C Creative Auto Shooting.....632 Shooting Portraits ..... Tryto prevent camera shake when shooting in low-light conditions. Since this mode lets you shoot the food in appetizing color tones, humansubjects may be shot in an unsuitable skin tone. The warm color cast of subjects may fade. When multiple light sources are included on the screen, the warm colorcast of the picture may not be lessened. If you use flash, the [Color tone] setting will switch to the standardsetting.70Page 716 Shooting Night PortraitsTo shoot people at night and obtain a natural-looking night scene in thebackground, use the (Night Portrait) mode. Replace card.0410, 2030, 4050, 6070, 8099 Replace the card, erase unnecessary images, or format the card(p.36, 228, 52).An error prevented shooting. Select(Step 5)[OK] on the confirmation dialog. Improper handling of this type of waste could have a possible impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. 258Maximum ISO speedfor ISO Auto ..... The faster the shutter speed, the lesssmooth the subject's movement will look.161Page 162k Shooting MoviesInformation Display Each time you press the button, the information display willchange.AF method• d : FlexiZone - Single• c : u Live mode• f : Quick modePicture StyleMovie shooting remaining time / Elapsed timeMovie shooting modeAF point (Quick mode)Recording movieWhite balanceMagnifyingframeTemperaturewarningAuto LightingOptimizerMovie recordingsizeSound recordingsettingN: ManualQ: DisableVideo snapshotAE lockBattery levelLED lightFrame rateExposure modeL : AutoexposureK : ManualexposureShutter speedHighlight tone priorityApertureExposure level indicatorISO speedEye-Fi card transmission statusVideo snapshot shooting time If there is no card in the camera, the movie shooting remaining time willbe displayed in red. When movie shooting starts, the movie shooting remaining time willchange to the elapsed time.162Page 163k Shooting MoviesNotes for Movie ShootingDo not allow the product to maintain contact with the same area of skin for extendedperiods of time during use.This may result in low-temperature contact burns, including skin rednessand blistering, even if the product does not feel hot. to 1/30 sec. Also, readthis manual carefully to ensure that you use the camera correctly.Refer to This Manual while Using the Camera to FurtherFamiliarize Yourself with the CameraWhile reading this manual, take a few test shots and see how theycome out. setting] screen, press the button to display the screen to clear the flash settings. / 30 min.177Grid displayOff / Grid 1l / Grid 2m177Video snapshotDisable / 2 sec. Setthe adjustment amount, then press .3: LCD monitor On/OffYou can turn on or off the LCD monitor.4: Depth-of-field previewThe lens will stop down to the aperture that was set, and you cansee the depth of field (range of acceptable focus) in the viewfinderor in the Live View image.C.Fn-10LCD display when power ON0: Display onWhen you turn on the power, the shooting function settings will bedisplayed (p.54).1: Previous display statusIf you pressed the button and turned off the camera whilethe LCD monitor was off, the shooting function settings will not bedisplayed when you turn on the camera again. to suit the scene'sbrightness.In low light, the main subject is exposed with the autoflash, and thebackground is exposed with a slow shutter speed set automatically.Both the subject and background look properly exposed with a touch ofatmosphere (automatic slow-speed flash sync). Ifswallowed, seek immediate medical assistance.The battery is dangerous if swallowed. Set [Wi-Fi] to [Disable], then reconnect the camera to acomputer with an interface cable.293Page 294Error CodesError numberIf there is a problem with the camera, anerror message will appear. In Basic Zonemodes, you can set the functions shown in the table on page 74, as wellas the functions in bold above.1Press the button (7). The functions settable with QuickControl will appear on the left of thescreen. If the AF method is , the AFpoint will also be displayed. or 2-sec. Clean thelens contacts. Clean the electrical contacts on the camera and lens, use a Canonlens, or remove and install the battery again (p.25, 26, 36).Card cannot be accessed. Do not damage, break or modify thepower cord. Do not wrap the product in cloth or other materials when in use or shortly after usewhen the product is still warm in temperature. Do not unplug the product by pulling the power cord. Do not leave the product connected to a power source for long periods of time. Do not charge batteries/battery packs at temperatures outside the range of 6 - 40 °C(43 - 104 °F).This may cause electric shock, explosion or fire. Do not allow the product to maintain contact with the same area of skin for extendedperiods of time during use.This may result in low-temperature contact burns, including skin redness and blistering,even if the product does not feel hot. If it exceeds "0", the sound will be distorted.[Disable] : Sound will not be recorded.176Page 1773 Menu Function Settings[Wind filter]When set to [Enable], it reduces wind noise when there is windoutdoors.Note that [Enable] will also reduce low bass sounds, so set thisfunction to [Disable] when there is no wind. Never attempt todisassemble the camera yourself. Do not block the built-in flash or mirror operation with your finger, etc. delay and 10-sec. In such a case, connect your camerato the computer with the interface cable, then transfer the images toyour computer using EOS Utility (EOS software, p.310).I cannot resize the image. JPEG c and RAW images cannot be resized with the camera(p.237).292Page 293Troubleshooting GuidePrinting-Related ProblemsI cannot connect the camera to my printer. If [53: Wi-Fi] is set to [Enable], the camera cannot be connected to aprinter with an interface cable. Standardwhite balance, 2. ForRAW images, it can be corrected with Digital Photo Professional (EOSsoftware, p.310).1Select [Peripheral illumin.correct.]. Under the [z1] tab, select[Peripheral illumin. If you move it toward the right, the background willlook more in focus. If [Manual] is set, you can set the ISO speed manually(p.160).The exposure changes during movie shooting. If you change the shutter speed or aperture during movie shooting, thechanges in the exposure may be recorded. Shooting a few test movies is recommended where you will performzooming during movie shooting. In such cases, shoot movies with manualexposure. If there is a very bright light source in the image, the bright area mayappear black on the LCD monitor. Press the keys or turn the dial to select the desired degree of blur.Depending on the lens and shooting conditions, the backgroundmay not look so blurred.This function cannot be set if you use flash. If you want to save images with the file numberingstarting from 0001, use a newly formatted card each time.File numbering afterreplacing the cardCard-1File numbering aftercreating a folderCard-2Card-1100005100010051101000 1File numbering is reset [Manual reset]: To reset the file numbering to 0001 manually orto start from file number 0001 in a new folder.When you reset the file numbering manually, a new folder is createdautomatically and the file numbering of images saved to that folderstarts from 0001.This is useful, for example, when you want to use different folders forthe images taken yesterday and the ones taken today. ****K" (K: Kelvin)displayed for the white balancesettings , , , or is the respective colortemperature.129Page 130B: Matching the Light SourceNQ Setting the Auto White BalanceWith [Q] (Ambience priority), you can increase the intensity of theimage's warm color cast when shooting a tungsten-light scene. 38, 53Write protection ..... 580 shots50% Flash UseApprox. This is effective forphotographing a child running toward you or capturing different facialexpressions.1 Press the button..2 Select Press the keys or turn the dial to select continuousshooting , then press .the picture.3 Take The camera shoots continuouslywhile you hold down the shutterbutton completely.Shooting TipsAlso set the AF operation (p.95) matching the subject.• For a moving subjectWhen AI Servo AF is set, focusing will be continuous duringcontinuous shooting.• For a still subjectWhen One-Shot AF is set, the camera will focus only once duringcontinuous shooting. Under [53: Custom Functions (C.Fn)], if [5: High ISO speed noisereduct'n] is set to [2: Strong] (p.261), the maximum burst duringcontinuous shooting will greatly decrease. 177Movie recording size..... 177My Menu ..... Turn off the power and let thecamera rest for a while. Shooting a movie at a high temperature for a prolonged period will causethe icon to appear earlier. 166Playback ..... The movie will also record the lensoperation sound.During movie shooting, if the AF method is set to [Quick mode], AFwill be executed in [FlexiZone - Single]. The settings under the [k1], [k2], and [k3] menu tabs will takeeffect only in the mode. The [AF method] setting will also be applied to Live View shooting.174Page 1753 Menu Function Settings kShutter/AE lock buttonYou can change the function assigned to the shutter button's halfwayposition and to the AE lock button.• AF/AE lock:Normal function. However, while the subject will be properly exposed withthe flash, the background may come out dark.2: 1/200 sec. If there is condensation, remove the lens, card andbattery from the camera, and wait until condensation has evaporated beforeusing the camera. If the camera will not be used for an extended period, remove the batteryand store the camera in a cool, dry, well-ventilated location. 11 hr. Set the shooting mode to a CreativeZone mode (p.50).The file name's first character is an underscore ("_"). Set the color space to sRGB. 87, 167, 230Filter effects..... The ImageStabilizer consumes battery power and may shorten the total moveishooting time. 500 shotsApprox. You can change how the filenumber is assigned.The file number will appear on your computer in this format:IMG_0001.JPG.Under the [51] tab, select [Filenumbering], then press . 47Shutter synchronization (1st/2nd curtain) ..... Download and installation are not possible inenvironments with no Internet connection.EOS UtilityWith the camera connected to a computer, EOS Utility enables you totransfer still photos and movies shot with the camera to the computer.You can also use this software to set various camera settings and shootremotely from the computer connected to the camera. Set [Wi-Fi] to [Disable], then reconnectthe camera to a printer with an interface cable.There are fewer printing effects than listedin the

promptly consult the nearest CanonService Center. 276Troubleshooting Guide.....282Error Codes.....294Specifications .....29513Software Start Guide /Downloading Images to a Computer309Software Start Guide .....310Downloading and Viewing the Software Instruction Manuals(PDF Files).....312Downloading Images to a Computer.....313Index ..... 41Selecting the Interface Language..... Replace it with a new card.For both JPEG and RAW images, the file name will start with “IMG_”. If this happens, you will not be able to shoot again until thecamera’s internal temperature decreases. In hospitals, airports, and other places where wirelesstransmissions are prohibited, remove the Eye-Fi card from the camera inadvance. If the image transfer does not function, check the Eye-Fi card andcomputer settings. / Hold182Peripheral illuminationEnable / Disablecorrection122Flash firing / Built-in flash function setting /External flash function setting / External flashC.Fn setting / Clear external flash C.Fn setting196Exposurecompensation/AEB1/3-stop or 1/2-stop increments, ±5 stops(AEB: ±2 stops)114116Auto LightingOptimizerDisable / Low / Standard / High121Metering modeEvaluative metering / Partial metering /Center-weighted average metering113Custom WhiteBalanceManual setting of white balance131White balance shift/bracketingWB correction: White balance correctionBKT setting: White balance bracketing133134Color spacesRGB / Adobe RGB135Picture StyleDAuto / PStandard / QPortrait /RLandscape / SNeutral / UFaithful /VMonochrome / WUser Def. 2.5 megapixels (1920 x 1280)S3 (Small 3) : Approx. The extension will be “.JPG” for JPEGimages, “.CR2” for RAW images, and “.MOV” for movies.187Page 188Handy Features3 Setting Copyright InformationNWhen you set the copyright information, it will be appended to theimage as Exif information.1Select [Copyright information]. Under the [53] tab, select [Copyrightinformation], then press .the option to be set.2 Select Select [Enter author’s name] or[Enter copyright details], then press. The text entry screen will appear. Select [Display copyright info.] tocheck the copyright informationcurrently set. Select [Delete copyrightinformation] to delete the copyrightinformation currently set.text.3 Enter See “Text Entry Procedure” on thenext page and enter the copyrightinformation. Enter up to 63 alphanumericcharacters and symbols.the setting.4 Exit After entering the text, press the button to exit.188Page 189Handy FeaturesText Entry Procedure Changing the entry areaPress the button to togglebetween the top and bottom entryareas. Moving the cursorPress the keys to movethe cursor. Entering textIn the bottom area, press the cross keys or turn the dialto select a character, then press to enter it. Deleting a characterPress the button to delete one character. Finishing the text entryAfter entering the text, press the button to finalize the textentry and return to the screen in step 2. Canceling the text entryTo cancel the text entry, press the button to cancel it andreturn to the screen in step 2.You can also set or check the copyright information with EOS Utility (EOSsoftware, p.310).189Page 190Handy Features3 Auto Rotation of Vertical ImagesVertical images are rotated automatically so theyare displayed vertically on the camera’s LCDmonitor and on the computer instead ofhorizontally. 168Video snapshots ..... Using a tripod isrecommended.Shooting Tips Use a wide-angle lens and a tripod.When using a zoom lens, use the wide-angle end to obtain a widenight view. 198Focus indicator..... *] havebeen modified from the base PictureStyle settings, the Picture Style’sname will be displayed in blue. If a Picture Style has already been registered under [User Def. You can also editout the movie’s first and last scenes, andplay back the still photos and movies onthe card in an automatic slide show.A movie edited with a computer cannot be rewritten to the card or playedback with the camera.Playback and Editing with a ComputerTo play back or edit a movie, use preinstalled or general-purpose software,compatible with the movie’s recordingformat.If you want to use commercially-available software to play back or edit themovies, be sure it is compatible with MOV-format movies. Download is not possible in environments with noInternet connection.1Download the Software Instruction 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 theInstruction Manuals.2 View the Software Instruction Manuals (PDF files). Double-click a downloaded Instruction Manual (PDF file) to openit. To view the Instruction Manuals (PDF files), Adobe AcrobatReader DC or other Adobe PDF viewer (most recent versionrecommended) is required. Adobe Acrobat Reader DC can be downloaded free from theInternet. To learn how to use a PDF viewer, refer to its Help section.312Page 313Downloading Images to a ComputerYou can use the EOS software to download the images in the camera toa computer. 20Handling Precautions ..... 261Long exposures ..... Wipe off any water droplets with a dry and clean cloth. 249W Direct Printing of Print-Ordered Images ..... You can change the color castby adjusting the color tone. Z Miniature effectCreates a diorama effect. Toshoot still photos, turn the Mode Dial to change the shooting mode.164Page 165Shooting Function SettingsFunction settings particular to movie shooting are explained here.Q Quick ControlIf you press the button while the image is displayed on the LCDmonitor, you can set any of the following: AF method, White balance,Picture Style, Auto Lighting Optimizer, Movie-recording size, and Videosnapshot.Press the button (7). The settable functions will bedisplayed. If the AF method is , the AFpoint will also be displayed. 3.0 shots/sec.JPEG Large/Fine: FullRAW: 6 shotsRAW+JPEG Large/Fine: 5 shots* Figures are based on Canon’s testing standards (ISO100 and Standard Picture Style) using an 8 GB card.* “Full” indicates that shooting is possible until the cardbecomes full.297Page 298Specifications• Live View ShootingAspect ratio:Focus method:3:2, 4:3, 16:9, 1:1Contrast detection (FlexiZone-Single, Face detectionLive mode), Phase-difference detection (Quick mode)Manual focus (approx. Green tree leaves will lookcrisper and brighter.Increasing the [Contrast] will make the filter effect more pronounced.lToning EffectBy applying a toning effect, you cancreate a monochrome image in thatcolor. Follow the steps below to start the installer.(1) Double-click the dmg file. A drive icon and installer file will appear on the desktop.If the installer file does not appear, double-click the drive icon to display it.(2) Double-click the installer file. The installer starts.2 Follow the on-screen instructions to install.Downloading and Installing the Software Do not connect the camera to your computer before you install the software. 125Color space (color reproduction range) ..... Usinga tripod is recommended.151Page 152Using AF to Focus (AF Method)Quick Mode: fThe dedicated AF sensor is used to focus in One-Shot AF (p.95), usingthe same AF method as with viewfinder shooting.Although you can focus on the target subject quickly, the Live Viewimage will be interrupted momentarily during the AF operation.You can use nine AF points to focus (automatic selection). 198Shutter synchronization(1st/2nd curtain)..... 674 Shooting Close-ups.....685 Shooting Moving Subjects ..... You can set the exposure compensation up to ±5 stops in1/3-stop increments.Making it brighterHold down the button andturn the dial to the right(increased exposure).Making it darkerIncreased exposure for a brighter imageDecreased exposure for a darker imageDark exposureHold down the button andturn the dial to the left(decreased exposure). As shown in the figure, the exposurelevel is displayed on the LCD monitorand in the viewfinder. After taking the picture, cancel theexposure compensation by settingit back to 0.Increased exposure for a brighter image The exposure compensation amount displayed in the viewfinder goes upto only ±2 stops. However, theviewfinder displays only the denominator. To preventcondensation, first put the camera in a sealed plastic bag and let it adjust tothe warmer temperature before taking it out of the bag. If condensation forms on the camera, do not use the camera. - 1/200 sec.) will be setautomatically to prevent camera shake.1Raise the built-in flash with yourfingers. In Creative Zone modes, when youraise the flash, you can take flashpictures anytime. While the flash is recycling, “DbuSY”is displayed in the viewfinder, and[BUSYD] is displayed on the LCDmonitor.the shutter button halfway.2 Press In the bottom left of the viewfinder,check that the icon is lit.the picture.3 Take When focus is achieved and youpress the shutter button completely,the flash will fire at all times. When you finish shooting, push downthe built-in flash with your fingers.Shooting Tips In bright light, decrease the ISO speed.If the exposure setting in the viewfinder blinks, decrease the ISOspeed. Detach the lens hood. level] and look at the level meter whilepressing the keys to adjust the soundrecording level. 196Appending Dust Delete Data .....200Manual Sensor Cleaning.....20217Page 18Contents8Image Playback205x Searching for Images Quickly ..... If this Troubleshooting Guide does not resolve the problem,contact your dealer or nearest Canon Service Center.Power-Related ProblemsThe battery does not recharge. Do not use any battery other than a genuine Canon Battery PackLP-E10.The battery charger’s lamp blinks. If the battery charger has a problem, the protection circuit will stop thecharging and the charge lamp will blink in orange. Set [Wi-Fi] to [Disable], then reconnect the camera to the TVset with an HDMI cable.My card reader does not recognize the card. Depending on the card reader and computer OS used, SDXC cardsmay not be correctly recognized. 95AF point selection ..... on the LCD monitor. To retract the built-in flash, push itdown with your fingers.The mode makes the colors look more impressive in nature, outdoor,and sunset scenes. Then pass itthrough the strap’s buckle as shownin the illustration. (The movie will be recorded as a newmovie file.)An increase of the camera’s internal temperature may cause movie shootingto stop before the maximum recording time shown in the table above(p.179).167Page 1683 Shooting Video SnapshotsYou can shoot a series of short movie clips lasting approx. Then press the shutterbutton completely to take the picture. If you change the shooting mode orturn off the power, the setting willrevert back to [Standard setting]. The Live View image shown with the ambience setting applied will notlook exactly the same as the actual photo. Using flash may reduce the ambience effect. In bright outdoors, the Live View image you see on the LCD monitor maynot have exactly the same brightness or ambience as with the actualcaptured image. 188Auto Rotation of Vertical Images .....190Checking Camera Settings .....191Reverting the Camera to the Default Settings..... If you specify more than this, all theimages may not be printed.251Page 252WDirect Printing of Print-Ordered ImagesWith a PictBridge printer, you can easilyprint images with DPOF.1 Prepare to print. See page 240.Follow the “Connecting the Camera to a Printer” procedure up to step 5.2 Under the [x1] tab, select [Print order].3 Select [Print]. [Print] will be displayed only if the camera is connected to aprinter and printing is possible.4 Set the [Paper settings] (p.242). Set the printing effects (p.244) if necessary.5 Select [OK].Before printing, be sure to set the paper size.Certain printers cannot imprint the file number.If [Bordered] is set, certain printers may imprint the date on the border.Depending on the printer, the date may appear faint if it is imprinted on abright background or on the border. Under [Adjust levels], [Manual] cannot be selected. If you stopped the printing and want to resume printing the remainingimages, select [Resume]. 59 sec., the movie shootingwill stop automatically. You can use the camera’s menu to set the externalSpeedlite function settings only if an EX-series Speedlite compatiblewith this function is attached.The setting procedure is the same as when setting a camera menufunction.Select [Flash control]. Under the [z1] tab, select [Flashcontrol], then press . The flash control screen will appear.[Flash firing] Normally, set this to [Enable]. If [Disable] is set, neither the builtin flash nor the external Speedlitewill fire. (The previous version will be overwritten.)Note that DPP Ver.3.x or earlier cannot process RAW images taken withthis camera. Commercially-available software may not be able to display RAWimages taken with this camera. (Settingsalready set will also be disabled.) Shaded Custom Function does not function during Live View (LV)shooting.257Page 2583 Custom Function SettingsNCustom Functions are organized into four groups based on the functiontype: C.Fn I: Exposure, C.Fn II: Image, C.Fn III: Autofocus/Drive, C.FnIV: Operation/Others.C.Fn I: ExposureC.Fn-1Exposure level increments0: 1/3-stop1: 1/2-stopSets 1/2-stop increments for the shutter speed, aperture, exposurecompensation, AEB, flash exposure compensation, etc. If you hold down the shutter button, you can shootcontinuously (max. Before cleaning the sensor, detach the lensfrom the camera.The image sensor is extremely delicate. Doing so may damage the imagesensor or the camera’s internal components. When [k1: AF w/ shutter button during k] is set to [Enable](p.174), pressing the shutter button halfway during movie shooting willperform autofocusing. (The previousversion will be overwritten.)1Download the software. Connect to the Internet from a computer and access the followingCanon website.www.canon.com/icpd Select your country or region of residence and download thesoftware. Decompress it on the computer.For Windows: Click the displayed installer file to start theinstaller.For Macintosh: A dmg file will be created and displayed. speed in Av mode] to [1: 1/200-1/60sec. If the lens enables manual focusing even while the lens’s focusmode switch is set to , turn the focusing ring to attain rough focus.The face will then be detected and will be displayed. An object other than a human face may be detected as a face. Face detection will not work if the face is very small or large in the picture,too bright or too dark, tilted horizontally or diagonally, or partially hidden. The may cover only a part of the face, not the whole face. When you press , the AF method will switch to [FlexiZone - Single](p.146). 129u Adjusting the Color Tone for the Light Source ..... When you wantto take the picture, press the shutter button completely.61Page 62A Full Auto Techniques (Scene Intelligent Auto)A Live View ShootingYou can shoot while viewing the image on the LCD monitor. Tofind out the card’s writing/reading speed, refer to the cardmanufacturer’s website, etc. If a movie clip’s file size reaches 4 GB or the shooting length reaches29 min. They do not work withviewfinder shooting (settings aredisabled).In Basic Zone modes, the Live Viewmenu options will be displayed under[z2], and in Creative Zone modes, theywill be displayed under [z4]. Live View shootingYou can set Live View shooting to [Enable] or [Disable]. AF methodYou can select [FlexiZone - Single], [u Live mode], or [Quickmode]. 26512Reference267External Speedlites ..... 4 hours).34Page 35Charging the BatteryTips for Using the Battery and Charger Upon purchase, the battery is not fully charged.Charge the battery before use. Recharge the battery on the day before or on the day it is to beused.Even during storage, a charged battery will gradually drain and loseits capacity. After recharging the battery, detach it and disconnect thecharger from the power outlet. When not using the camera, remove the battery.If the battery is left in the camera for a prolonged period, a smallamount of power current is released, resulting in excess dischargeand shorter battery life. / 8 sec. Keep fingers, any other part of your body,and objects away from the flash unit while taking pictures.This may cause burns or malfunction of the flash. Do not leave the product in places exposed to extremely high or low temperatures.The product may become extremely hot/cold and cause burns or injury when touched. Only mount the product on a tripod that is sufficiently sturdy. Do not carry the product when it is mounted on a tripod.This may cause injury or may result in an accident. Do not look at the screen or through the viewfinder for prolonged periods of time.This may induce symptoms similar to motion sickness. Before an important shoot, it isrecommended to update the Dust Delete Data by obtaining it again.For details about using Digital Photo Professional (EOS software,p.310) to erase dust spots, refer to the Digital Photo ProfessionalInstruction Manual.The Dust Delete Data appended to the image is so small that it hardlyaffects the image file size.Be sure to use a solid-white object such as a new sheet of white paper. (The Metering timer setting will take effect only in CreativeZone modes.)177Page 1783 Menu Function Settings[k3] Exposure compensationThe exposure compensation amount can be set up to ±3 stops. Auto Lighting OptimizerThe Auto Lighting Optimizer can be set as explained on page 121.If the [k1] menu tab’s [kHighlight tone priority] is set to[Enable], the Auto Lighting Optimizer will be set automatically to[Disable] and cannot be changed. Custom White BalanceAs explained on page 131, the image for custom white balance canbe selected. Picture StyleThe Picture Style can be set as explained on page 93.178Page 179General Movie Shooting CautionsRed Internal Temperature Warning Icon If the camera’s internal temperature increases due to prolonged movieshooting or under a high ambient temperature, a red icon willappear. The red icon indicates that movie shooting will soon be terminatedautomatically. The new album willbe a different file from the previously recorded album.1 Playback video snapshot The video snapshot just recorded will be playedback. This is called “focus lock”.Focus lock is also possible in other Basic Zone modes (except).Shooting a Moving SubjectIn the mode, if the subject moves (distance to camera changes)while or after you focus, AI Servo AF will take effect to focus on thesubject continuously. *],changing the base Picture Style in step 4 will nullify the parametersettings of the registered Picture Style. If you perform [Clear all camera settings] (p.192), all the [User Def. 198Flash off ..... 18.0 megapixels* Rounded to the nearest 100,000.3:2Dust Delete Data appending, Clean manually• Recording SystemRecording format:Image type:Pixels recorded:Create/select a folder:File numbering:Design rule for Camera File System (DCF) 2.0JPEG, RAW (14-bit Canon original)RAW+JPEG Large simultaneous recording possibleL (Large): Approx. Press the button to lock the exposure,then recompose and take the picture. An HDMI cable(sold separately) is necessary to connect the camera to a TV set.Also, an HDMI terminal on a TV set is required.If [53: Wi-Fi] is set to [Enable], the camera cannot be connected to a TVset. If this occurs, the picture cannot be taken even if the shutterbutton is pressed completely. This prevents the AF from being thrownoff by any obstacle passing between the camera and subject. A brush can scratch thesensor. Do not insert the blower tip inside the camera beyond the lens mount. This scalled “Live View shooting”. Therefore, in theimage’s shooting information (p.230), you may find an ISO speed such asISO 125 or ISO 640 displayed as the ISO speed.3 Setting the Maximum ISO Speed for [AUTO]NFor ISO Auto, you can set the maximum ISO speed limit within ISO 400 ISO 6400.Under the [z3] tab, select [ISO Auto],then press . If [Off] is set, the image will not be displayedimmediately after shooting. For normal shooting, sRGB is recommended.In Basic Zone modes, sRGB is set automatically.1Select [Color space]. Under the [z2] tab, select [Colorspace], then press .the desired color space.2 Set Select [sRGB] or [Adobe RGB], thenpress .Adobe RGBThis color space is mainly used for commercial printing and otherindustrial uses. flash C.Fnset.] in step 1.199Page 2003 Appending Dust Delete DataNDust entering the camera can adhere to the image sensor and causedust spots to be visible on the captured images. Thef/number displayed will differ depending on the lens. In thecase of the [4:3], [16:9], and [1:1] aspect ratios, the lines to indicatethe aspect ratio will appear during image playback, but they are notactually drawn on the image.ImageQualityAspect Ratio and Pixel Count (Approx.)3:24:316:91:135184x34564608x34565184x2912*3456x3456(17.9 megapixels) (16.0 megapixels) (15.1 megapixels) (11.9 megapixels)43456x23043072x23043456x19442304x2304(8.0 megapixels) (7.0 megapixels) (6.7 megapixels) (5.3 megapixels)a2592x17282304x17282592x1456*1728x1728(4.5 megapixels) (4.0 megapixels) (3.8 megapixels) (3.0 megapixels)b1920x12801696x1280*1920x10801280x1280(2.5 megapixels) (2.2 megapixels) (2.1 megapixels) (1.6 megapixels)c720x480640x480720x400*480x480(350,000 pixels) (310,000 pixels) (290,000 pixels) (230,000 pixels) The asterisked image-recording quality settings do not match therespective aspect ratio exactly. The image area displayed for the asterisked aspect ratio may be slightlydifferent from the actual image area. Make sure to perform this procedure underthe light source at the actual location of the shoot.1Shoot a white object. A plain, white object should fill theviewfinder’s center. Focus manually and shoot with thestandard exposure set for the whiteobject. You can use any white balancesetting.[Custom White Balance].2 Select Under the [z2] tab, select [CustomWhite Balance], then press . The custom white balance selectionscreen will appear.the white balance data.3 Import Select the image that was captured instep 1, then press . On the dialog screen that appears,select [OK], and the data will beimported. When the menu reappears, press the button to exit the menu.131Page 132B: Matching the Light SourceN[O (Custom)].4 Select Press the button. Select [O (Custom)], then press. If the exposure obtained in step 1 differs greatly from the standardexposure, a correct white balance may not be obtained. In step 3, the following images cannot be selected: Images captured withthe Picture Style set to [Monochrome] (p.94), images processed with aCreative filter, or images shot with another camera.132Page 133u Adjusting the Color Tone for the Light SourceNYou can correct the white balance that is set. Use a faster shutterspeed (p.106), set a higher ISO speed (p.90), use flash (p.103), or usea tripod.I cannot lock the focus and recompose the shot. Set the AF operation to One-Shot AF. For details on resuming the printing, refer to the printer’s instructionmanual.Error MessagesIf a problem occurs during printing, an error message will appear on thecamera’s LCD monitor. Followthe steps below to start the installer.(1) Double-click the dmg file. A drive icon and installer file will appear on the desktop.If the installer file does not appear, double-click the driveicon to display it.(2) Double-click the installer file. The installer starts.2 Follow the on-screen instructions to install.311Page 312Downloading and Viewing the SoftwareInstruction Manuals (PDF Files)Internet connection is required to download the Software InstructionManuals (PDF files). 632 (Portrait) ..... With JPEGimages, the correction is applied when the image is captured.In Basic Zone modes, [Standard] is set automatically.1Select [Auto Lighting Optimizer]. Under the [z2] tab, select [AutoLighting Optimizer], then press.the setting.2 Select Select the desired setting, then press.the picture.3 Take The image will be recorded with thebrightness and contrast corrected ifnecessary. Under [53: Custom Functions (C.Fn)], if [6: Highlight tone priority] isset to [1: Enable], the Auto Lighting Optimizer will be set automatically to[Disable], and the setting cannot be changed. If the Auto Lighting Optimizer’s effect is too strong and the image is toobright, set [Low] or [Disable]. If a setting other than [Disable] is set and you use exposurecompensation or flash exposure compensation to darken the exposure,the image may still come out bright. 69P (Food) ..... Take the picture while theLive View image is displayed.153Page 154MF: Focusing ManuallyYou can magnify the image and focus precisely with manual focus.1Set the lens’s focus mode switchto . Turn the lens focusing ring to focusroughly.the magnifying frame.2 Move Press the cross keys to moveMagnifying framethe magnifying frame to the positionwhere you want to focus. Press to return the magnifyingframe to the center. During autofocusing, the beeper willcontinue beeping softly. The default setting is [Standard]. 24Brightness adjustment ..... No license is granted or implied for any other use for MPEG-4 standard.”* Notice displayed in English as required. Also, the time it takes to capture an image after you press theshutter button completely will be slightly longer than with viewfinder shooting. If the camera is not operated for a prolonged period, the power will turnoff automatically after the time set in [51: Auto power off] (p.183). Download and installation are not possible in environments with no Internet connection.EOS UtilityWith the camera connected to a computer, EOS Utility enables you to transfer still photos and movies shot with the camera to the computer. / 4 sec. When you are notshooting, always turn off the camera. If the camera’s internal temperature is high, the quality of images shotwith high ISO speed or long exposure may deteriorate even before thewhite icon is displayed.Shooting Results If you take the picture in magnified view, the exposure may not come outas desired. Likewise, keep thebattery away from metallic items and store it with its protective cover attached toprevent short-circuit.This is to prevent fire, excessive heat, electrical shock, and burns. To prevent a fire and electrical shock, follow the safeguards below:• Do not connect too many power plugs to the same power outlet.• Do not use a cord whose wire is broken or insulation is damaged. Do not connect the battery directly to an electrical outlet or a car’s cigarette lighter outlet.The battery may leak, generate excessive heat or explode, causing fire, burns, or injuries. A thorough explanation of how to use the product by an adult is required when theproduct is used by children. Also, the transmission status icon will notappear.271Page 272Function Availability Table by Shooting Modeo: Set automatically k: User selectableMode DialAll image quality settingsselectableAutomatically set/AutoISO speedManually setPicture StyleMaximum for AutoAutomatically set/AutoManual selectionAmbience-based shotsLighting/scene-based shotsBlurring/sharpening thebackgroundColor toneAuto: Not selectable/DisabledBasic ZoneAC 2 3 4 5Creative ZoneP6 d sf ak k k k k k k k k k ko o o o o o o o k k k k kk k k k k*1k k ko o o o o o o o k k k kk k k k k k k k k k

longer than with [Quick mode]. Even when focus is achieved, pressing the shutter button halfwaywill focus again. You cannot focus on a moving subject continuously. The image brightness may change during and after the AFoperation. If the light source changes while the Live View image is displayed,the screen may flicker and focusing may be difficult. 129.0 x 101.6 x 77.1 mm / 5.08 x 4.00 x 3.04 in.Weight:Approx. 6Conventions Used in this Manual..... Autofocusing with [FlexiZone - Single] or [u Livemode] may take longer or correct focus may not be achieved.EF50mm f/1.4 USM, EF50mm f/1.8 II, EF50mm f/2.5 Compact Macro,EF100mm f/2.8 Macro USM, EF75-300mm f/4-5.6 III,EF75-300mm f/4-5.6 III USMFor information on other lenses, refer to the Canon website. If you shoot a peripheral subject and it is slightly out of focus, recomposeto move the subject (and AF point) toward the screen center, focus againand then take the picture. The AF-assist beam will not be emitted. To prevent a slowshutter speed, under [53: Custom Functions (C.Fn)], set [3: Flashsync. The image will look very subdued in ansRGB computer environment and with printers not compliant to Designrule for Camera File System 2.0 (Exif 2.21 or higher). 230Shooting modes ..... Also, you cancopy background music tracks, such as EOS Sample Music*, to thecard.* You can use the background music as the soundtrack for a video snapshotalbum, movie, or slide show played back on a TV set or other device.Digital Photo ProfessionalThis software is recommended for users who shoot RAW images. This is called AE lock. Afterthe set shooting duration elapses, theshooting stops automatically. The confirmation screen will appear(p.170).as a video snapshot album.4 Save Select [J Save as album], thenpress . The movie clip will be saved as thevideo snapshot album's first videosnapshot.to shoot more video5 Continuesnapshots. Repeat step 3 to shoot the next videosnapshot. Select [J Add to album], then press. To create another video snapshotalbum, select [W Save as a newalbum]. Repeat step 5 as necessary.the video snapshot shooting.6 Exit Set [Video snapshot] to [Disable].To return to normal moviesshooting, be sure to set [Disable]. Press the button to exit themenu, and return to the normal moviesshooting.169Page 1703 Shooting Video SnapshotsOptions in Steps 4 and 5Function] Save as album(Step 4)J Add to album(Step 5)DescriptionThe movie clip will be saved as the video snapshotalbum's first video snapshot.The video snapshot just recorded will be added tothe album recorded immediately before.A new video snapshot album is created and theW Save as a new album movie clip is saved as the first video snapshot. 103Function settings..... 134Correction ..... 44Lock release..... 210RAW ..... Modeling flash also will not work if an external Speedlite is used.156Page 1576Shooting MoviesMovie shooting is enabled bysetting the Mode Dial to .The movie recording format willbe MOV. For cards that can record movies, see page 5.Full HD 1080Full HD 1080 indicates compatibility with HighDefinition featuring 1080 vertical pixels (scanninglines).157Page 158k Shooting MoviesConnecting the camera to a TV set is recommended to play back themovies shot (p.224).Autoexposure Shooting1Set the Mode Dial to . The reflex mirror will make a sound,then the image will appear on theLCD monitor.on the subject.2 Focus Before shooting a movie, focus withAF or manual focus (p.146-154). When you press the shutter buttonhalfway, the camera will focus withthe current AF method.the movie.3 Shoot Press the button to startRecording movieshooting a movie. size]enables you to select the movie's imagesize [****x****] and frame rate [9](frames recorded per second). 84Tv (Shutter-priority AE) ..... Zooming during movie shooting mayresult in recording of changes in exposure or mechanical sound of thelens, or images may be out of focus.The subject looks distorted during movie shooting. If you move the camera to the left or right quickly (high-speed panning)or shoot a moving subject, the image may look distorted.The image flickers or horizontal stripes appear during movie shooting. Flickering, horizontal stripes (noise), or irregular exposures can becaused by fluorescent lighting, LED lighting, or other light sourcesduring movie shooting. 214File size..... 182Resizing..... 46Q Quick Control for Shooting Functions ..... Overexposed areas with clippedhighlights will blink.The image cannot be erased. If the image is protected, it cannot be erased (p.226).The movie cannot be played back. Movies edited with a computer cannot be played back with the camera.The movie sound cannot be played back. Check the recorded sound on a TV set or computer. AE lock is not possible. kHighlight tone priorityIf [Enable] is set, highlight detail will be improved. However, this is onlytemporary and will disappear when the camera is left unused for a few days. The LCD monitor display may seem slow in low temperatures, or look blackin high temperatures. /15 min. Press the keys or turn the dial toselect the ambience. Although AF is possible with theLive View image displayed, the AF operation will take longer thanwith the Quick mode. 28Firmware ..... The camera is notequipped with a speaker.158Page 159k Shooting Movies General Movie Shooting Cautions are on pages 179-180. If necessary, also read General Live View Shooting Cautions onpages 155-156. The ISO speed (ISO 100 - ISO 6400), shutter speed, and aperture areset automatically. You can press the button (p.118) to lock the exposure (AE lock).The exposure setting will be displayed for the number of seconds setwith [k2: Metering timer]. Internet connection is required to download and install the software. If you are tooclose to the subject, the focus indicator will blink.If you use flash and the bottom part of the picture comes outunnaturally dark, move away from the subject and try again. With a zoom lens, use the telephoto end.If you have a zoom lens, using the telephoto end will make thesubject look larger.If you raise the built-in flash beforehand, it will fire automatically as necessary.68Page 695 Shooting Moving SubjectsUse the (Sports) mode to shoot a moving subject, such as arunning person or a moving vehicle.Shooting Tips Use a telephoto lens.The use of a telephoto lens is recommended for shooting from adistance. Use the center AF point to focus.Aim the center AF point over the subject, then press the shutterbutton halfway to autofocus. During autofocusing, if the subjectmoves away from the center AF point, focus tracking continues aslong as the subject is covered by another AF point.With AI Servo AF, the beeper will not sound even when focus is achieved.Also, the focus indicator in the viewfinder will not light up.AI Focus AF for Switching the AF Operation AutomaticallyAI Focus AF switches the AF operation from One-Shot AF to AIServo AF automatically if a still subject starts moving. After the subject is focused in One-Shot AF, if the subject startsmoving, the camera will detect the movement, change the AFoperation automatically to AI Servo AF, and start tracking the movingsubject.When focus is achieved in the AI Focus AF operation with the Servo modeactive, the beeper will sound softly. Normally, [Defaultsetting] is adequate, but if the settings match the lighting condition orscene, the picture will look more accurate to your eyes.For Live View shooting, if you set both [Light/scene-based shots] and[Ambience-based shots] (p.75), you should first set [Light/scenebased shots]. This camera is a Type-A camera. Canon Speedlites other than the EX-series will not fire. If the camera is used with a flash unit or flash accessory dedicated toanother camera brand, not only will the camera not operate as usual butit may also result in a malfunction. The flash fires only once even when MULTI flash is set with theSpeedlite. When using an external Speedlite, attach it after retracting the built-inflash. With an EX-series Speedlite not compatible with flash function settings(p.197), only [Flash exp. When [On]is set, the red eye will be corrected for printing. The [kBrightener] and [Red-eye corr.] effects will not be reflected onthe screen. When [Detail set.] is selected, you can adjust the [Contrast],[Saturation], [Color tone], and [Color balance]. You can change the blackand-white effect by adjusting the contrast. W Soft focusGives the image a soft look. Also, changes in the exposure (brightness) orcolor tone may be recorded. setting]With [Built-in flash func. 9Contents at a Glance..... Ifthe power is turned off, the shutter will close and the shutter curtains orreflex mirror may get damaged. Never use pressurized air or gas to clean the sensor. When this is combined with a slow shutter speed, you cancreate a trail of light such as from car headlights at night with a morenatural feel. The image looks softer. If the vertical image is taken while the camerais pointed up or down, the image may not be rotated automatically forplayback. [Delete item/items]deletes one item at a time, and [Delete all items] deletes allregisteted items. Display from My MenuWhen [Enable] is set, the [9] tab will be displayed first when youdisplay the menu screen.265Page 266266Page 26712ReferenceThis chapter provides reference information for camerafeatures, system accessories, etc.Certification LogoUnder the [53] tab, if you select [Certification Logo Display]and press , some of the logos of the camera's certificationswill appear. Doing so may damage the imagesensor or the camera's internal components. Since long bulb exposures produce more noise than usual, the imagemay look slightly grainy. You can reduce the noise due to long exposures by setting [4: Long exp.noise reduction] under [53: Custom Functions (C.Fn)] to [1: Auto] or[2: On] (p.260). If ISO Auto is set for a bulb exposure, the ISO speed will be fixed at ISO800 (p.92).For bulb exposures, it is recommended to fix the camera to a tripod andshoot remotely with a smartphone. After setting the flash output for theappropriate subject brightness, you can recompose (put the subjecttoward the side) and shoot. To return to thesingle-image display, press the button.Press the button to save theprint order to the card.QuantityTotal images selectedCheckmarkIndex icon[Standard] [Both]Press the keys to set thenumber of copies to be printed for thedisplayed image.[Index]Press the keys to add acheckmark to the box . Forstubborn dirt, take the camera to the nearest Canon Service Center. Do not touch the camera's electrical contacts with your fingers. 122Lighting/scene-based shots..... There are two ways to do this.1Install the software (p.311).2Use an interface cable (sold separately) to connect the camera to the computer. Connect the cable to the camera's digital terminal with the cable plug's icon facing the front of the camera. Connect the cord's plug to the computer's USB terminal.3Use EOS Utility to download the images. Refer to the EOS Utility Instruction Manual.Downloading Images to a ComputerDownloading by Connecting the Camera to the ComputerIf [53: Wi-Fi] is set to [Enable], the camera cannot be connected to a computer. Tocancel, press the button.the setting.3 Exit Press the < > button to exit theQQuick Control.212Page 213Q Quick Control for PlaybackTo rotate an image, set [51: Auto rotate] to [OnzD]. 5Troubleshooting ..... Also, the continuous shooting speed may be slower. If you play back or directly print a 1 or 1+73 image with thecamera, the high ISO speed noise reduction effect may become smaller.Check the noise reduction effect or print noise-reduced images withDigital Photo Professional (EOS software, p.310). If you send RAW images to a smartphone, the high ISO speed noisereduction effect of saved images on the smartphone may becomesmaller. The default setting is [Enable]. 108M (Manual exposure) ..... The 9(frame rate) switches automaticallydepending on the [k2: Video system]setting. Image Size[1920x1080] (A) : Full High-Definition (Full HD) recording quality.The aspect ratio is 16:9.[1280x720] (B) : High-Definition (HD) recording quality. At low ISO speeds, the noise in the darker parts ofthe image (shadow areas) is further reduced. This is useful whenyou want to save images numbered anywhere between 0001 to9999 on multiple cards or in multiple folders into one folder on acomputer.If the replacement card or existing folder already contains imagesrecorded previously, the file numbering of the new images maycontinue from the file numbering of the existing images on the cardor in the folder. Press the shutter button halfway to execute AF.Press the button for AE lock.• AE lock/AF:Press the shutter button halfway for AE lock. This more effectivelyprevents subject blur and camera shake than [1: 1/200-1/60sec.auto]. Thenpress . The following AF methods are provided: [FlexiZone - Single],[u Live mode] (face detection, p.147), and [Quick mode] (p.152).If you want to achieve precise focus, set the lens's focus mode switch to, magnify the image, and focus manually (p.154).Select the AF method. Under the [z4] tab, select [AFmethod]. (Including battery and card),Approx. White balancebracketing is possible up to ±3 levels in single-level increments.Set the white balance bracketingamount.B/A bias ±3 levels In step 2 for "White BalanceCorrection", when you turn the dial, the " " mark on the screen willchange to "" (3 points).Turning the dial to the right sets the B/A bracketing, and turning it to the leftsets the M/G bracketing. On the right, "Bracket" indicates thebracketing direction and correction amount. Pressing the button will cancelall the [WB Shift/Bkt.] settings. Press to exit the setting andreturn to the menu.Bracketing SequenceThe images will be bracketed in the following sequence: 1. 168Viewing on a TV set ..... 263Registering My Menu ..... 180 shotsApprox. To make small things appear much larger, use amacro lens (sold separately).Shooting Tips Use a simple background.A simple background makes small objects such as flowers stand outbetter. Move in as close as possible to the subject.Check the lens for its minimum focusing distance. If [Hold] is set, the image review will bedisplayed up until the [51: Auto power off] time has elapsed.During image review, if you operate any camera controls such aspressing the shutter button halfway, the image review will end.Under the [z1] tab, select [Imagereview], then press . 273Page 5317IndexRecomposing.....61Focusing point (AF point).....97Folder creation/selection.....184Food.....70Formatting (card initialization).....52Frame rate .....166Full High-Definition (Full HD).....166, 214Fully automatic shooting(Scene Intelligent Auto).....58Functions settable by shooting mode .....272GGrainy B/W.....236Grid display .....143, 177HHDMI.....214, 224High ISO speed noise reduction ...261High-Definition (HD) movies .....166Highlight alert.....232Highlight tone priority .....175, 261Histogram (Brightness/RGB) .....232Hot shoe.....26IICC profile .....135Image dust prevention .....200, 202Image review time.....182Image Zone.....30Image-recording quality .....86ImagesAuto playback .....220Auto rotation .....190Erasing .....228Highlight alert.....232Histogram .....232Image characteristics (Picture Style) .....93, 124, 127Index display ..... You can also use this software to set various camera settings and shoot remotely from the computer connected to the camera. The cardmay then return to normal. Do not touch the card's contacts with your fingers or metal objects. When indoors or inlow-light conditions, raise the built-in flash. Change the program using Program shift.After pressing the shutter button halfway, turn the dial tochange the shutter speed and aperture setting combination(program). If the subject looks dark, move nearer andshoot again. Also shoot with the (Scene Intelligent Auto) mode.Since camera shake is prone to occur with night shots, shooting alsoin the mode is recommended.71Page 726 Shooting Night PortraitsDuring Live View shooting, it may be difficult to focus on dots of light such asin a night scene. In step 4 on page 234, if you press the button, youcan switch between the white frame's vertical and horizontalorientations.236Page 237S Resizing JPEG ImagesYou can resize a JPEG image to make the pixel count lower and save itas a new image. / 30 sec. The icon willdisappear.To protect another image, repeat step3.To return to the menu, press the button.Page 227K Protecting Images3 Protecting All Images in a Folder or on a CardYou can protect all the images in a folder or on a card at one time.When you select [All images in folder]or [All images on card] in [x1: Protectimages], all the images in the folder oron the card will be protected.To cancel the image protection, select[Unprotect all images in folder] or[Unprotect all images on card].If you format the card (p.52), the protected images will also be erased. Movies can also be protected. Once an image is protected, it cannot be erased by the camera's erasefunction. Also, the exposure or color tone maynot come out right. Exit Live View shooting and wait afew minutes before shooting again.White and Red Internal Temperature Warning Icons If the camera's internal temperature increases due to prolonged LiveView shooting or under a high ambient temperature, a white or red icon will appear. The white icon indicates that the image quality of still photos willdeteriorate. After fixing the problem,resume printing. The PictureStyle selection screen will reappear. Any parameter settings different fromthe default will be displayed in blue. By selecting [Default set.] in step 3, you can revert the parametersettings of the respective Picture Style to their defaults. To shoot with the Picture Style you adjusted, follow step 2 on page 93 toselect the adjusted Picture Style, then shoot.124Page 125A Customizing Image CharacteristicsNParameter Settings and EffectsSharpnessAdjusts the sharpness of the subject.To make it less sharp, set it toward the E end. 162Manual exposure shooting..... (If C.Fn-9 is set,hold down the button andpress .)the image.3 Magnify Press the button. The area within the magnifying framewill be magnified. Each time you press the button,the magnification of the image willchange in the following sequence:5x 9 10x 9 Normal viewmanually.4 Focus While looking at the magnified image,AE lockMagnified area positionMagnificationturn the lens focusing ring to focus. After achieving focus, press the button to return to the normal view.the picture.5 Take Check the focus and exposure, thenpress the shutter button to take thepicture (p.138).154Page 155General Live View Shooting CautionsImage Quality When you shoot at high ISO speeds, noise (such as dots of light andbanding) may become noticeable. Shooting in high temperatures may cause noise and irregular colors inthe image. If Live View shooting is used continuously for a prolonged period, thecamera's internal temperature may rise, and image quality maydeteriorate.

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