General Information

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General Information

1. FEATURES

1.1 35mm full-size sensor, ultra-fine detail, high image quality

- ●Approx. 12.8 effective megapixels for ultra-fine detail and high image quality
- ●Newly-developed, full-size, 35.8 × 23.9mm CMOS sensor
  - ＊Enables full-fledged use of wide-angle EF lenses.
- ●DIGIC II for fast image processing to obtain detailed and natural color reproduction
- ●Picture Style for obtaining optimum images matching your shooting objective
- ●Six JPEG recording modes, RAW, RAW+JPEG simultaneous recording
- ●Optimum auto white balance
  - ＊The CMOS sensor alone obtains the correct white balance. Uses the EOS-1Ds Mark II's AWB algorithm.
- ●WB correction and WB bracketing provided
- ●Complies to Design rule for Camera File system 2.0 (compatible with Adobe RGB) and Exif 2.21
  - ＊Selectable between sRGB and Adobe RGB (with the menu).

1.2 Fast response

- ●Approx. 0.2 sec. startup time from power on
- ●ISO 100-1600 (1/3-stop increments), ISO extension (L: 50, H: 3200) provided
- ●Approx. 3 fps continuous shooting: Max. burst 60 shots in JPEG Large/Fine, approx. 17 shots in RAW
- ●Priority on shooting
  - ＊With C.Fn-18-1, shooting controls will work instantly even during menu operation and image playback.
- ●USB 2.0 Hi-Speed for fast image transfers to a personal computer

1.3 High-end features and high performance

- ●High-precision and high-speed 9-point + Assist 6-point AF
  - ＊3 AF points work with f/2.8 lenses
  - ＊Improved AI SERVO AF subject tracking and improved focusing performance from defocused state
- ●Interchangeable focusing screens
  - ＊Standard Precision Matte Ee-A plus Precision Matte with Grid Ee-D and easy-to-manual-focus Super Precision Matte Ee-S (sold separately).
- ●Noise level detection and auto noise reduction feature
- ●1/8000 sec. max. shutter speed, X-sync at 1/200 sec. with high-speed shutter and high-speed sync
- ●EOS 1D-like features
  - ＊Spot metering (approx. 3.5% of viewfinder area)
  - ＊Full-featured folder/file No. management
  - ＊Compatible with wireless/wired LAN image transmissions (with WFT-E1/E1A)
  - ＊Data for the original image verification system can be appended
- ●Wide 2.5-in. LCD monitor with approx. 230,000 pixels
  - ＊The image or menu can be clearly viewed from any angle.
  - ＊Easier-to-read (larger) menu text
  - ＊RGB histogram/AF point display
- ●Highly customizable
  - ＊Current camera settings can be saved as a Mode Dial setting
  - ＊Twenty-one Custom Functions with 57 settings

●Same operation ease as the EOS 20D
●Full-featured camera Direct Printing

1.4 Luxury design with a "status symbol" metal exterior, compact and light body

●Well-proportioned shape for an SLR
＊Optimum size for a 35mm full-size D-SLR for advanced amateurs and comfortable to hold
＊Canon logo with sculptured lettering with white fill-in paint
＊Higher density matte finish for a luxury touch
＊35mm full-size sensor D-SLR measuring 152 × 113 × 75mm, weighing approx.810 g

2. OVERVIEW

2.1 EOS 5D body

The EOS 5D combines the high-end specifications of the EOS-1Ds line (with 35mm full-size sensor) and the operation ease of the EOS 20D. It is a high-end, AF D-SLR for advanced amateurs.

Despite having a 35mm full-size sensor, the body is still relatively compact and light. It has the latest features such as Picture Style, a 2.5-in. wide LCD monitor (larger menu text), and 9-point + Assist 6-point AF.

＊Since this camera is for advanced amateurs, there is no built-in flash and no Basic Zone modes.

Table 001 compares the EOS 5D with the EOS-1Ds Mark II and EOS 20D. Cells shaded in [ ] are specifications superior to that of the EOS-1Ds Mark II, and cells shaded in [ ] are specifications superior to that of the EOS 20D.

Table 001 Specifications Comparison of EOS 5D with EOS-1Ds Mark II and EOS 20D (1/3)

Specification			EOS 5D	EOS-1Ds Mark II	EOS 20D
Image sensor	Image sensor		CMOS		
	Effective Pixels (Approx. megapixels)		12.80	16.70	8.20
	Sensor Size (mm)		35.8 × 23.9	36.0 × 24.0	22.5 × 15.0
	Focal Length Conversion Factor		1×		1.6×
Recording System	Recording Media		CF	CF/SD	CF
	Recorded pixels [Approx. megapixels]		1270/670/420	1660/860/630/420	820/430/200
	RAW+JPEG		Yes (Separate RAW & JPEG files)		
	JPEG Quality		Fixed at Fine/Normal	10 settings	Fixed at Fine/Normal
	Picture Styles		Yes (7)	—	
	Processing Parameters		Incorporated in Picture Styles	Yes	Yes
	Color Matrix			Yes	—
	Color Space		sRGB / Adobe RGB		
	Noise Reduction		Auto/On	On	
	Backup Mode		—	Yes	—
	Folder Creation		Created by Auto, Manual, or File No. reset		Auto
	Selectable Save Folder		Yes		—
	Max. Images Per Folder		9999		100
Imaging processor			DIGIC II		
White Balance	Settings		9	12	9
	WB Bracketing		B/A M/G bias 3 levels, 3 images with one shot		
	WB Correction		B/A M/G bias: 9 levels		
Viewfinder	Coverage (Approx.)		96%	100%	95%
	Magnification		0.71×	0.7×	0.9×
	Eyepoint		20 mm		
	Dioptric Adjustment		-3 to +1 dpt.		
	Focusing Screen	Type	Precision Matte	Laser, New Laser Matte	Precision Matte
		Interchangeable	2 (sold separately)	9 (sold separately)	—

Table 001 Specifications Comparison of EOS 5D with EOS-1Ds Mark II and EOS 20D (2/3)

Specification			EOS 5D	EOS-1Ds Mark II	EOS 20D
Autofocus	AF Points		9 (+ 6 Assist AF points)	45	9
	AF Point Selection		Multi-controller	Main Dial	Multi-controller
	AF Mode	ONE SHOT	Yes		
		AI SERVO		Yes	
		AI FOCUS	Yes	—	Yes
	50 kph predictive AF		8		
	AF-assist beam		External flash		Built-in flash
Exposure Control	Sensor Zones		35	21	35
	Metering Modes (Metering range [%])	Evaluative	Yes		
		Partial at center	Yes (8)	Yes (8.5)	Yes (9)
		Spot at center	Yes (3.5)	Yes (2.4)	—
		Centerweighted averaged	Yes		
	P, Tv, Av, M, Bulb		Yes		
	Full auto		Yes	—	Yes
	Image select, A-DEP		—	—	Yes
	ISO Speed (stops)		100 -1600 (1/3) L: 50, H: 3200		100 -1600 (1) H: 3200
	E-TTL II Autoflash	Evaluative metering	Yes		
		Averaged metering	Yes		
Shutter	Speeds [sec.]		1/8000 sec. - 30 sec., bulb		
	X-sync [sec.]		1/200	1/250	
Built-in Flash			—		Yes
Drive	Drive Modes		Single/Continuous		
	Continuous shooting [fps]		3	4	5
	Max. Burst		JPEG Large: 60 RAW: 17	JPEG Large: 2 RAW: 11	JPEG Large: 23 RAW: 6
LCD Monitor	Monitor Size [in.]		2.5	2.0	1.8
	Pixels (Approx.)		23		11.8
Playback	Display Modes		Single, Single image with Info, 9-image index	Single, Single image with Info, 4-image index, 9-image index	Single, Single image with Info, 9-image index
	Histogram	Brightness	Yes		
		RGB	Yes		—
	Highlight alert		Yes		
	AF point display		Yes		—
	Magnified view		1.5 - 10×		
	Image rotation		Manual/Auto		
	Jump		By 10 shots/100 shots/ date/folder	—	10ñá
Image Protect [unit]			Single	Single /Folder/Card	Single
Sound Recording			—	Yes	—
Custom Functions [Qty/settings]			21/57	20/65	18/50
Personal Functions [Qty]			—	27	—
Camera Setting Registration (Save)			Yes (mode dial)	Yes (memory card)	—
Data Verification Data			Yes		
Wireless/wired LAN			Yes	Yes (with updated firmware)	

Table 001 Specifications Comparison of EOS 5D with EOS-1Ds Mark II and EOS 20D (3/3)

Specification		EOS 5D	EOS-1Ds Mark II	EOS 20D
External Interface	PC port	USB 2.0 Hi-Speed	IEEE1394	USB 2.0 Hi-Speed
	Video OUT	NTSC/PAL		
	Remote control terminal	N3-type		
Power Source	Shots remaining	800	1200	1000 (No flash)
	Battery	BP-511A	NP-E3	BP-511A
	Startup time	0.2		
Exterior	Material	Magnesium alloy		
	Water/dust-resistance	△	◎	△
Dimensions (W × H × D)		152 × 113 × 75 mm	156 × 157.6 × 79.9 mm	144 × 105.5 × 71.5 mm
Weight		810	1215	685
Operation Environment/Relative humidity		0°C - 40°C, 85% or lower	0°C - 45°C, 85% or lower	0°C - 45°C, 85% or lower

1） Image recording

(1)35mm full-size CMOS sensor with approx. 12.8 effective megapixels

The 35mm full-size CMOS sensor with 12.8 effective megapixels was developed and manufactured by Canon (Fig. 001). Besides the outstanding resolution, the noise reduction level matches that of the EOS-1Ds Mark II. The result is very high image quality.

Four image sizes are provided (Table 002). With JPEG, you can select either the Fine or Normal recording quality (fixed compression rate).

The same ISO 100-1600 speed range (1/3-stop increments) provided by the EOS-1Ds Mark II is also provided including the ISO extension of L: 50 and H: 3200. The imaging engine is DIGIC II for very fine and natural color reproduction.

Fig. 001 Imaging sensor (actual size)

Table 002 Image Recording Quality and Pixels

Image Recording Quality	Recorded Pixels (Approx.)
Large	12.70 megapixels
Medium	6.70 megapixels
Small	4.20 megapixels
RAW	12.70 megapixels

(2)White balance (WB)

The specifications for the Auto (using the imaging sensor), Preset, Custom, Color temperature WB, and WB correction are the same as with the EOS 20D. WB bracketing is also possible for RAW and RAW+JPEG shooting.

(3)Noise reduction

The EOS 5D's noise reduction function (C.Fn-02) provides a choice between "OFF" and 1. Auto noise reduction or 2. Noise reduction for all exposures 1 sec. or longer.

＊With Auto noise reduction, the noise reduction is applied only if the camera determines that the noise reduction would be effective for the noise level detected.

(4)Creation and selection of image folders

As with EOS-1D cameras, folders where the images are to be saved can be created and the image file numbers can also be reset. The folder names are appended with the camera's name (Fig. 002).

You can also select the folder where the images are to be saved. (The folder cannot be selected during playback.) Up to 9999 images can be saved in a folder (only 100 with the EOS 20D).

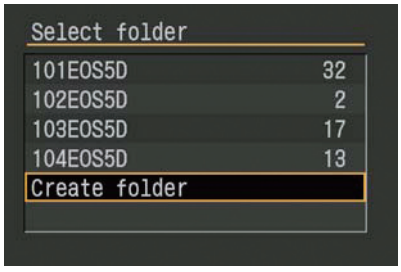


Fig. 002 Folder creation/ selection screen

2） Image processing

(1)Picture Style

Fig. 003 Picture Style selection screen

Until now, EOS Digital camera users could control the internal image processing by setting the processing parameters and color matrix. However, users have had difficulty understanding what effect these settings would have on the image. Especially in the case of the EOS-1D line of cameras, people have complained that the images looked soft. This is because the default setting applies no sharpness.

To remedy this problem and help the user obtain the desired result, a new feature called Picture Style has been incorporated in the EOS 5D. Picture Style combines the processing parameter and color matrix settings in different sets designed to obtain the desired effect. It is like choosing the type of film to obtain the desired result (Fig. 003).

Each Picture Style has preset settings for the sharpness, contrast, color tone, saturation, etc., to obtain the respective image effect.

The following Picture Styles are provided:

1. Standard
   For users who do not want to bother with post processing. The image looks crisp and vivid with the sharpness set to "3" and the color tone and saturation set to obtain vivid colors.
2. Portrait
   The color tone and saturation are set to obtain nice skin tones. The sharpness is set one step weaker than the Standard setting so that the skin and hair look softer.
3. Landscape
   The color tone and saturation are set to obtain deep blues and deep greens for the blue sky and greenery. The sharpness is set one step stronger than the Standard setting so that the outline of mountains, trees, and buildings look more crisp.
4. Neutral
   This is the same as the default setting for EOS-1D-series cameras. Natural color reproduction is obtained, and no sharpness is applied. This setting is ideal for post-processing.
5. Faithful
   This is the same as Digital Photo Professional's Faithful. When the subject is photographed under a color temperature of 5200K, the color is adjusted colorimetrically to match the subject's color. No sharpness is applied.
6. Monochrome
   Same setting as the EOS 20D's monochrome setting.
7. User Defined
   You can register the above 1 to 6 Picture Styles in User Defined 1 to 3 and adjust them and apply the settings. Also, when you have Picture Style files set from the dedicated software
   CameraWindow, you can also register and adjust, and apply those styles.

＊With each Picture Style, you can also manually adjust the sharpness, contrast, color tone, and saturation.
＊Picture Style will be incorporated in all EOS Digital cameras from the EOS 5D onward.

3） Shooting functions

(1)Viewfinder

The viewfinder provides 96% coverage, 0.710 × magnification, 20mm eyepoint, and -3 to +1 dpt dioptric adjustment.

The Precision Matte focusing screen is interchangeable. Besides the standard Ee-A screen (characteristics are almost the same as the EOS 20D's focusing screen), the Ee-D with grid (Fig. 004) and Ee-S screen for easier manual focusing are available and sold separately.

Since each focusing screen has different metering characteristics, you must set C.Fn-00-0/1/2 to match the respective focusing screen.

The viewfinder information is shown at the bottom of Fig. 004. Other than the addition of the FE lock icon, it is the same as the EOS 20D's viewfinder information.

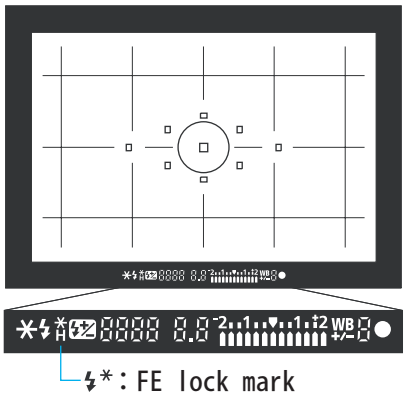


Fig. 004 Grid-type focusing screen and viewfinder information

(2)9 AF points + Assist 6 points and new AF sensor

The 9-point AF sensor (Fig. 005) is newly developed. The AF points have the characteristics below. The AF speed and predictive AF performance are the same as the EOS 20D's.

- Center AF point: With f/2.8 lenses, the center AF point works as a high-precision, cross-type AF point. (Vertical line is detected at f/2.8 and both vertical and horizontal lines are detected at f/5.6.) The f/5.6 horizontal line-sensitive AF point can now better detect major defocus conditions to enable focusing while the lens is way out of focus.
- AF points directly above and below center AF point: Vertical line-sensitive at f/5.6.
- Remaining 6 AF points: Horizontal line-sensitive at f/5.6.

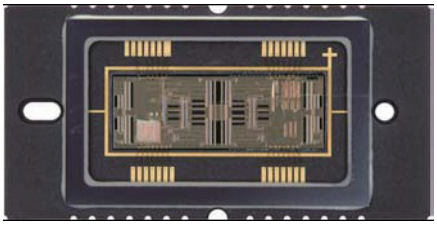


Fig. 005 AF sensor

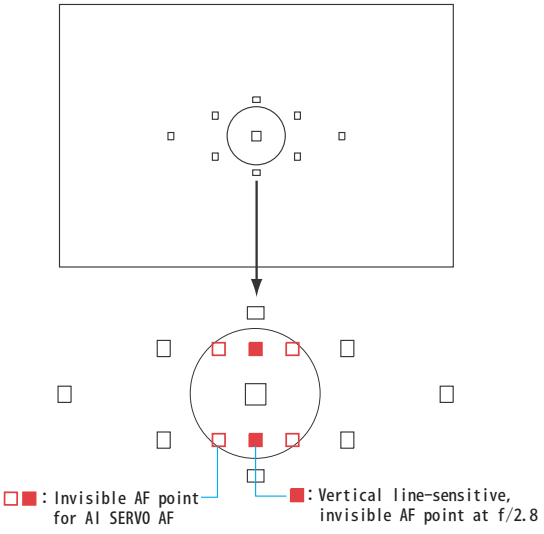


Fig. 006 AF points and invisible AF points

<Assist AF points>

Within the spot metering circle, there are invisible Assist AF points (□■ in Fig. 006) to help improve the focus tracking performance in the AI SERVO AF mode. In the AI SERVO AF mode, they function as described below. (They do not function in the One-Shot AF mode.)

1. During automatic AF point selection, they work as supplementary AF points. It is like having 15 AF points in AI SERVO AF mode. They are selected automatically.

2. When C.Fn-17-1 (AF point activation area) is used to select the center AF point, the Assist AF points function as part of the expanded AF point area. In this case, the seven AF points within the spot metering circle work in the AI SERVO AF mode and are selected automatically.

The ■ AF point in Figure 006 is vertical line-sensitive at f/2.8, and the □ AF point is horizontal line-sensitive at f/5.6. Including the center AF point, three AF points will focus at f/2.8. This improves the focusing precision.

Since the camera has no built-in flash, AF-assist beam will be provided by the Speedlite.

＊Official designation of AF points: The official number of AF points is 9. It does not include the invisible Assist AF points.

(3)Exposure control

The metering sensor is the same 35-zone metering sensor found in the EOS 20D (Fig. 007). There are four metering modes: Evaluative metering, partial (approx. 8% of viewfinder area), spot (approx. 3.5% of viewfinder area), and centerweighted average metering.

The shooting modes (Fig. 008) are P, Tv, Av, M, bulb, Full Auto, and C (Register camera settings. For details, see Customization on p-11.). Basic Zone modes and depth-of-field AE are not provided.

For flash photography, E-TTL II autoflash and averaged flash exposure (C.Fn-14-1) are provided.

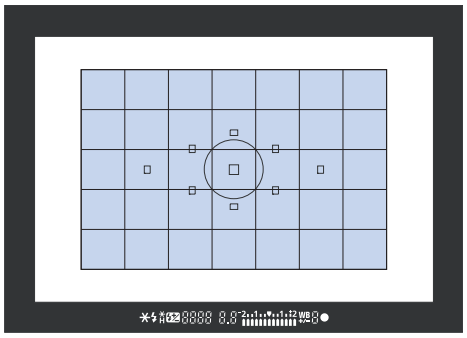


Fig. 007 Metering zones

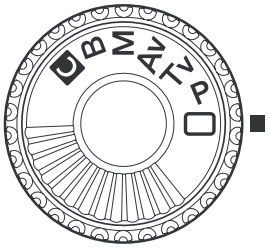


Fig. 008 Mode Dial

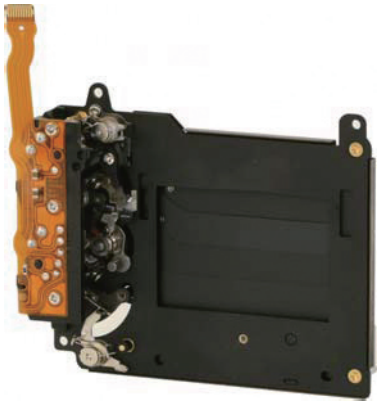


Fig. 009 Shutter unit

The shutter unit (Fig. 009) is newly developed for the 35mm full-size sensor. The top speed is 1/8000 sec. with X-sync at 1/200 sec.

(4)Drive

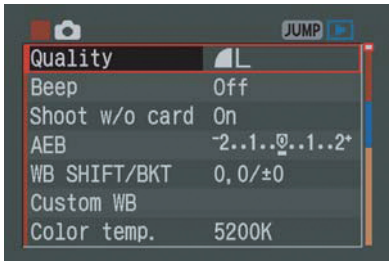
Top speed of 3 fps (One-Shot AF/AI SERVO AF). Maximum burst is 60 shots in JPEG Large/Fine and 17 shots in RAW.

4） LCD monitor and menus

(1)LCD monitor

This is a 2.5-inch, TFT liquid-crystal monitor with about 230,000 pixels. Along with the larger monitor, the menu text is also larger and easier to read (Fig. 010).

EOS 5D (2.5 in.)



EOS 20D (1.8 in.)

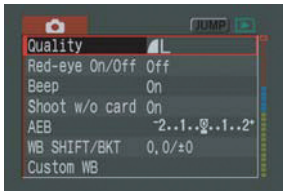


Fig. 010 Menu comparison (actual size)

(2)Image playback

It is basically the same as with the EOS 20D except for the improvements below. If auto power off is disabled and the image playback or menu display is left on for 30 min., the LCD monitor will turn off automatically to save power.

- After shooting, magnify zoom-in is possible during image playback

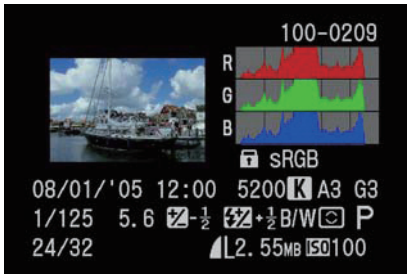
  With C.Fn-18-1 (shooting priority), magnified/reduced image playback is now possible by pressing the Direct Print button and Magnify/Reduce button simultaneously. (Same operation for the zoom-in operation during image playback.)
- More detailed INFO (Shooting Information) display

  With the menu, you can switch between the histogram and RGB display, and also display the AF points*. And you can also check the image file size (Fig. 011).

  *For the One-Shot AF mode, the AF poi2005.04.15nt which achieved focus is displayed. For the AI SERVO AF mode, the AF point that was selected is displayed.
- Jump feature

  During single-image display (INFO on/off), you can jump by 100 images, by shooting date (same as with the EOS D REBEL XT / 350 D) or by folder* (Fig. 012).

  *When you jump to another folder, the latest image in the folder will be displayed.



Histogram display

Fig. 011 INFO display

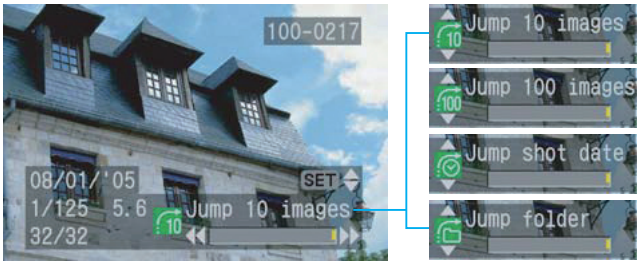


Fig. 012 Jump selection screen

・Menus

As shown in Table 003, the colored cells indicate new or improved features.

The menu operation is the same as with the EOS 20D. You scroll to select the desired item. Menu operations are possible even while image data is being written to the CF card.

Table 003 Menu Functions

Shooting	Playback	Setup
Quality	Protect	Auto power off
Beep	Rotate	Auto rotate
Shoot w/o card	Print Order	LCD Brightness
AEB	Auto Play	Date/Time
WB SHIFT/BKT	Review time	File numbering
Custom WB	AF points	Select folder
Color temp.	Histogram	Language
Color space		Video system
Picture style		Communication
		Format
		Custom Functions(C.Fn)
		Clear settings
		Register camera settings
		Sensor cleaning
		Image transfer (LAN) settings
		Firmware Ver. *

5） Design and operation ease

(1)Design

Prestige design for advanced amateurs and DSLR fans

・Overall design

Based on the "Premium EOS" concept, the EOS 5D's exterior features a well-balanced design. The pentaprism head and lens mount especially are well proportioned with the rest of the body.

The pentaprism sports a new shape never seen before on an EOS camera. Its distinguished good looks well matches an upper middle-class camera. Figure 013 compares the size with the EOS-1Ds Mark II.

・Exterior material and finish

The exterior is made of magnesium alloy, and the three grip surfaces are covered with rubber. The camera feels solid and comfortable in your hands. The paint finish has a higher density, matte surface for a luxury touch.

On the pentaprism, the Canon logo is sculptured and painted in white. Such attention to details convinces advanced amateurs and SLR fans alike that this camera is worthy as a status symbol.

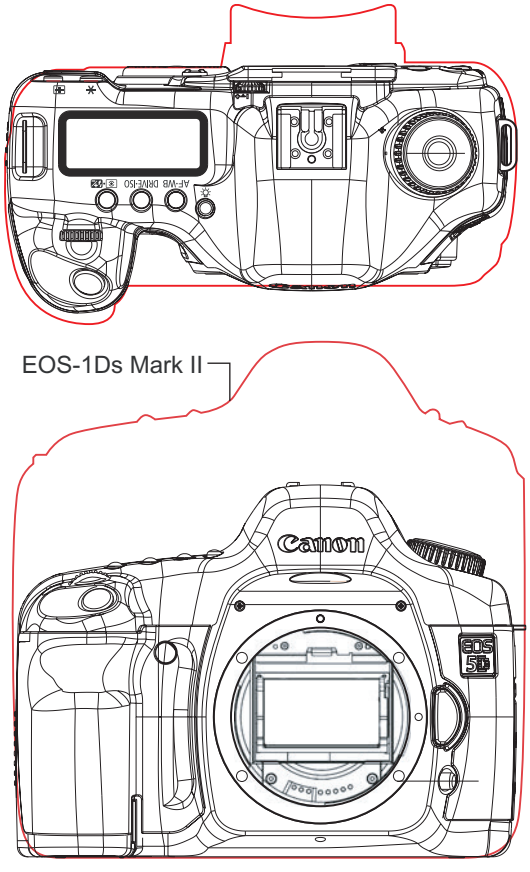


Fig. 013 Size comparison

(2)Operation ease

Other than the Direct Print button on the back, the camera controls and their layout are the same as the EOS 20D's.

6） Customization

(1)Camera setting registration

Under the menu's Setup tab, select "Camera setting registration" to save the current camera settings. The settings that will be saved can be displayed by turning the Mode dial to C. The settings listed in Table 004 will be registered.

Table 004 Camera setting registration

Shooting Settings	Menu Settings
Shooting mode / AF mode / selecting AF points / Metering mode / ISO speed / Drive mode / Exposure compensation amount / Flash exposure compensation amount / White balance mode	Quality / Beep / Shoot w/o card / AEB / WB SHIFT/BKT / Custom WB / Color temp. / Color space / Picture Style (excluding user defined) / Review time / AF points / Histogram / Auto power off / Auto rotate / LCD brightness / File numbering (method) / Custom Functions (C.Fn)

(2)Custom Functions

Twenty-one Custom Functions with 57 settings are provided. Table 005 lists the new Custom Functions not found in the EOS 20D. (For details, see page 44 - 45.)

Table 005 Custom Functions

C.Fn	Custom Function	No	Setting
0	Focusing Screen	0	Ee-A
		1	Ee-D
		2	Ee-S
17	AF point activation area	0	Standard
		1	Expanded
18	LCD displ a Return to shoot.	0	With Shutter Button only
		1	Also with * etc.

<C.Fn-0: Focusing screen>

Set to match the installed focusing screen.

<C.Fn-17: AF point activation area>

Enhances focusing ease in the AI SERVO AF mode.

＊When AI SERVO AF and the center AF point are used, the six invisible AF points within the spot metering circle are activated for focusing.

<C.Fn-18: LCD displ a Return to shoot.>

Set this when you want to be able to return instantly to shooting during menu viewing or image playback. Also set it when you want to switch the ISO speed or when you want to magnify/reduce the image displayed during the image review after shooting. Also, if C.Fn-04-1 is set and you press the AE lock button during menu viewing or image playback, the LCD monitor will turn off and AF will work instantly.

＊The moment you use any camera controls while you are viewing a menu or image, the menu or image playback will quit and the shooting controls will take effect.

＊If you press the Direct Print button and Magnify/Reduce button simultaneously during the image review after shooting, the Magnify/Reduce display will be enabled. (Same procedure as Magnify/Reduce during image playback.)

7） Camera Direct printing

Besides the Direct Print button (same specs as the EOS D REBEL XT / 350 D's), more PictBridge specifications (described below) have been added to improve the camera's operation with Canon PictBridge printers.

<PictBridge>

- Paper size

  The following paper sizes have been added: Wide, 8"×10", 10"×12". (A3 and A3 wide supported.)

- Printing effects

  "Face" effect added for dark faces caused by backlighting.

- Printing layout

  The following printing layouts have been added:

1. Print with shooting information (Fig. 014): The picture's shooting data is displayed below the image. (L size or larger.)
2. 20-up print with shooting information (Fig. 015): The shooting data is printed on the side of each thumbnail image.
3. 35-up contact print (Fig. 016): Contact sheetstyle printing. The folder and file No. are also printed.
4. 35 duplicate images: On one sheet, 35 images of the same picture are printed.

Fig. 014 Print with shooting information

＊The 20-up print with shooting information and 35-up contact print are printed with a DPOF order (the paper size must be A4 or 8.5×11").

The above printing effects and printing layout features can be used only with Canon printers compatible with these features.

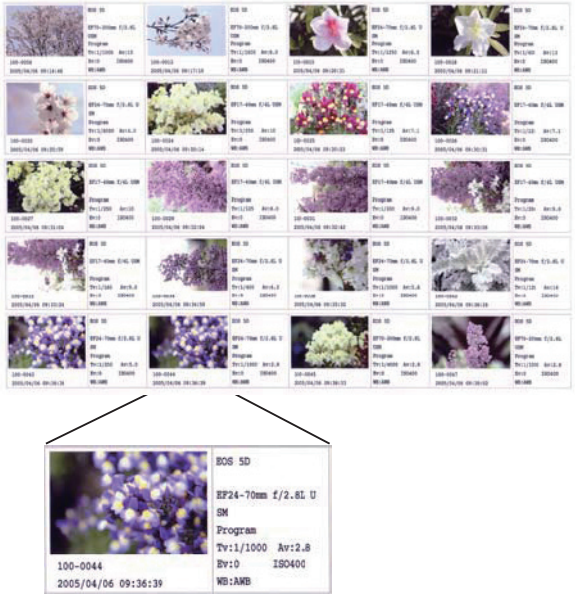


Fig. 015 20-up print with shooting information

Fig. 016 35-up contact print

8） **Power source and shooting capacity**

The camera can be powered by Battery Pack BP-511A/514/511/512. The EOS 5D's battery grip can accommodate these battery packs as well as size-AA batteries. With a fully-charged BP-511A, the EOS 5D can take approx. 800 shots at 20° C/68° F or 400 shots at 0ºC/32ºF.

9） **Dimensions and weight**

Dimensions: 152 (W) × 113 (H) × 75 (D) mm
6.0 (W) × 4.4 (H) × 3.0 (D) in.
Weight: 810 g / 28.6 oz.

2.2 New accessories

●BATTERY GRIP BG-E4

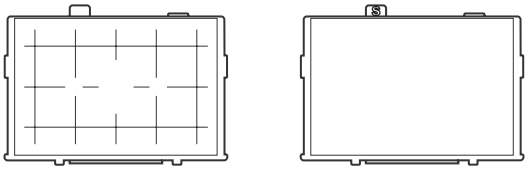
EOS 5D-dedicated, L-shaped battery grip with vertical camera controls (Fig. 017). The front cover and rear cover use the same magnesium alloy as the EOS 5D's exterior. This makes it solid and comfortable to hold.

It can accommodate two BP-511A/514/511/512 battery packs or six size-AA batteries fitted in the battery magazine. The batteries can be alkaline, lithium, or Oxyride.

Fig. 017 BATTERY GRIP BG-E4

●Interchangeable focusing screens

"Precision Matte with Grid Ee-D" for easier alignment of horizontal or vertical lines, and "Super Precision Matte Ee-S" for easier manual focusing easier are prepared.



Ee-D Ee-S

2.3 Software for EOS 5D

The same software bundled with the EOS D REBEL XT / 350 D will be provided.

3. SPECIFICATIONS

1. Type

1-1	**Type:**	Digital AF/AE single-lens reflex camera
1-2	**Compatible lenses:**	Canon EF lenses (except EF-S lens)
1-3	**Lens mount:**	Canon EF mount
1-4	**Lens restrictions:**	None
1-5	**Lens focal length:**	Same as the lens focal length markings.

2. Image Sensor

2-1	**Type:**	High-sensitivity, high-resolution, single-plate, CMOS sensor
2-2	**Image size:**	35.8 mm × 23.9 mm (Actual size)
2-3	**Effective pixels:**	Approx. 12.80 megapixels: 4384 (H) × 2918 (V) pixels
2-4	**Total pixels:**	Approx. 13.30 megapixels: 4480 (H) × 2958 (V) pixels
2-5	**Pixel unit:**	8.2 µm square
2-6	**Aspect ratio:**	2:3 (Vertical:Horizontal)
2-7	**Color filter type:**	RGB primary color filters
2-8	**Low-pass filter:**	Fixed position in front of the image sensor
2-9	**Cleaning mode:**	Provided ⑴With menu's "Sensor cleaning" ⑵With battery pack or AC power. ⑶When the battery pack's level becomes exhausted, or the size-AA batteries are used with BATTERY GRIP BG-E4, cleaning is not possible. ⑷During cleaning (mirror lockup), "CLn" blinks on the LCD panel. ⑸When the battery level becomes low, the following warnings continue until the prohibit voltage: 1. Electronic beeper (Sounds even when disabled), 2. Battery level low icon blinks on LCD panel.

3. Recording System

3-1	**Recording media:**	CF card
3-2	**Media format:**	In accordance with the CF card ⑴Formatted with the menu's "Format" ⑵Compatible with 2 GB and higher CF cards. Automatic file format switching. ⑶The formatted CF card's volume name will be "EOS_DIGITAL."

3-3 Image type:

Image-Recording Quality		Pixels	Image Type
Large	Fine	4368 × 2912 (Approx. 12.70 megapixels)	JPEG
	Normal		
Medium	Fine	3168 × 2112 (Approx. 6.70 megapixels)	
	Normal		
Small	Fine	2496 × 1664 (Approx. 4.20 megapixels)	
	Normal		
RAW		4368 × 2912 (Approx. 12.70 megapixels)	Lossless RAW

＊Original image verification data can be appended (C.Fn-20-1) in all recording modes.

3-4 RAW+JPEG simultaneous recording: Enabled in all JPEG recording modes.

- The RAW and JPEG images are saved as separate files in the CF card.

3-5 File size and recording capacity:

Recording Quality			Single Shot Size (Approx.)	Recording Capacity (Approx.)
JPEG	Large	Fine	4.6	101
		Normal	2.3	196
	Medium	Fine	2.7	168
		Normal	1.4	319
	Small	Fine	2.0	233
		Normal	1.0	446
RAW	+Large	Fine	—	22
		Normal		25
	+Medium	Fine		24
		Normal		26
	+Small	Fine		25
		Normal		27
RAW			12.9	29

＊The above specifications are based on ISO 100 and Canon's testing standards.
＊Figures for the recording capacity apply to a 512 MB Compact Flash card.
＊The actual single shot size and recording capacity depend on the subject, shooting mode, ISO speed, and picture style.
＊Since monochrome shooting produces smaller file sizes than with color, the number of possible shots will be higher.

3-6 Information recorded: Complies to Design rule for Camera File system.

- The following is recorded when the image is captured: main, secondary (Exif information), manufacturer's, thumbnails information.

3-7 Image recording format: Complies with Design rule for Camera File system 2.0 and Exif 2.21

3-8 Folder setting:

Folder creation/selection features:
The folder name will be EOS5D and the folder No. starts from 100EOS5D. It can go up to 999EOS5D.

⑴Automatic creation of folder
- If the CF card does not have a Design rule for Camera File system-compliant folder, one is created automatically.
- Another folder is created automatically if the file No. reaches 9999.

⑵Manual creation of folder
- With the menu's [Select folder] a [Create folder], you can create a new folder.

⑶Manual reset and folder creation
- With the menu's [File No.] a [Manual reset], the file No. is reset to 0001 and a new folder is created.

⑷Folder selection
- With the menu's [Select folder], you can select the folder where the images are to be saved.
- During image playback, the last captured image is displayed instead of the selected folder's image.

3-9 Image file name:

JPEG: IMG_****.JPG (**** is the file No.)
RAW: IMG_****.CR2
＊ If Adobe RGB is set, the "I" in IMG will be underlined.
＊ The extension for RAW images will be CR2 (Canon RAW 2nd Edition).

3-10 File No.:

The following three types of file numbers can be set:

⑴Continuous numbering
The continuous numbering of captured images will continue even after you replace the camera's CF card.

⑵Auto reset
When you replace the camera's CF card, the numbering will be reset to start from IMG-0001. If the new CF card already contains images, the numbering will continue from the last recorded image in the CF card.

⑶Manual reset
Resets the file number to 0001, and creates a new folder automatically.

3-11 Picture style:

Item	Sharpness	Contrast	Color tone	Color saturation	Filter effects	Toning effect	PC Setting
①Standard	3	0	0	0	—	—	—
②Portrait	2	0	0	0	—	—	—
③Landscape	4	0	0	0	—	—	—
④Neutral	0	0	0	0	—	—	—
⑤Faithful	0	0	0	0	—	—	—
⑥Monochrome	3	0	—	—	None	None	—
⑦User Defined	3	0	0	0	—	—	Yes

3-12 Picture style settings:

Item	Settings
Base Picture Style	Standard / Portrait / Landscape / Neutral / Faithful / Monochrome / Picture style file
Sharpness	0 / 1 / 2 / 3 / 4 / 5 / 6 / 7
Contrast	-4 / -3 / -2 / -1 / 0 / +1 / +2 / +3 / +4
Color tone	-4 / -3 / -2 / -1 / 0 / +1 / +2 / +3 / +4
Color saturation	-4 / -3 / -2 / -1 / 0 / +1 / +2 / +3 / +4
Filter effects	N: None, Ye: Yellow, Or: Orange, R: Red, G: Green
Toning effect	N: None, S: Sepia, B: Blue, P: Purple, G: Green

＊A file for the color space will also be created for monochrome shooting.
＊During monochrome shooting, "B/W" will be displayed on the LCD panel.
＊When C.Fn-01-2 (SET function when shooting: Change Picture Style) is set, you can press the SET button to display the Picture Style menu on the LCD panel.
＊The setting will revert to the default when the menu's [Clear all camera settings] is executed.

3-13 Color space: Selectable between sRGB and Adobe RGB.
・ Settable with the menu's "Color space."

4. Recording Media Drive

4-1 Type: Accepts CF card Types I and II
4-2 Slots: One CF card slot, cover provided
4-3 CF card access indicator: Access lamp blinking/lit
4-4 Read error warning: Error warning is displayed on the LCD panel, viewfinder, and LCD monitor. Shutter locks up.
4-5 CF card initialization: Enabled (with menu's "Format").
4-6 No CF card warning: Provided
(1)When you turn on the power switch, [No CF card] will be displayed on the LCD monitor.
(2)With the menu's "Shoot w/o card" the shutter release can be locked ([no CF] displayed in the viewfinder and LCD panel).

5. White Balance

5-1 Type: Auto white balance with the image sensor.
5-2 Modes: The LCD panel displays the selected white balance mode.

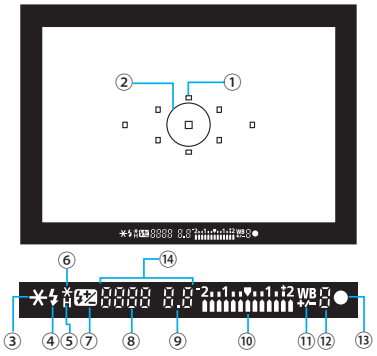
	WB Mode	Color Temperature (Kelvin)
Auto	①Auto (AWB)	Approx. 3000-7000 K
Preset	②Daylight	Approx. 5200 K
	③Shade	Approx. 7000 K
	④Cloudy, twilight, sunset	Approx. 6000 K
	⑤Tungsaten light	Approx. 3200 K
	⑥White fluorescent light	Approx. 4000 K
	⑦Flash	Approx. 6000 K
Manual	⑧Custom (MWB)＊1	Approx. 2000-10000 K
	⑨Color Temperature ＊2	Approx. 2800-10000 K

＊1：Custom: First take a picture of a white subject serving as the white balance standard. Then set the "Custom WB" mode on the on-screen menu and to specify that image.
＊2：Color temperature specified directly with the "Color temp." menu.

5-3	White balance correction	The color temperature of the WB modes (all listed in 5-2) can be corrected as follows: ・ Blue/amber bias: ±9 levels ・ Magenta/green bias: ±9 levels (1)Set with the Multi-controller (Pushable in all directions) (2)White balance correction cannot be applied outside 2000K - 10000K. (Although it is settable, the effect is not guaranteed.)
5-4	White balance bracketing:	Based on the color temperature of the current WB mode (among those listed in 5-2), WB bracketing for the "Setting/ blue bias/amber bias" or "Setting/magenta bias/green bias" is executed up to ±3 stops in whole-stop increments with a single shutter release. (1)The blue/amber bias and magenta/green bias cannot be set together. (2)One level of the blue/amber bias is equivalent to 5 Mireds of a color conversion filter. (3)For the magenta/green bias, there is no equivalent in Mireds. (4)White balance correction cannot be applied outside 2000K - 10000K. (Although it is settable, the effect is not guaranteed.) (5)When set together with white balance correction, WB bracketing cannot be set to more than ±9 levels. (6)White balance correction and AEB can also be set in combination with WB-BKT. (With AEB, 9 images will be saved to the CF card.) (7)WB-BKT is possible in RAW mode. (8)Since three images are recorded automatically with a single shot, the writing time to the CF card will take longer. (9)With C.Fn-09 (Bracketing sequence/Auto cancel), the bracketing sequence can be changed and the bracketing can be canceled automatically or not.

6. Viewfinder

6-1	Type:	Eye-level SLR (with fixed pentamirror)
6-2	Focusing screen:	Interchangeable. Standard Precision Matte Ee-A provided. (1)Interchangeable with Ee-D (Precision Matte with Grid) and Ee-S (Super Precision Matte) focusing screens. (2)Set C.Fn-0 to set the respective focusing screen's metering correction value. (3)All three focusing screens are the Precision Matte type.
6-3	Dioptric adjustment:	Adjustable from -3.0 dpt to +1.0 dpt.
6-4	Eye point:	20 mm
6-5	Coverage:	Approx. 96% vertically and horizontally (Coverage against JPEG Large)
6-6	Magnification:	Approx. 0.71× (with 50mm lens at infinity, -1 dpt)

6-7	Viewfinder information:	 1) On the screen ①AF points (9) ②Spot metering circle 2) Below the screen (Major information) ③AE lock, AEB in progress (blinks) ④Flash ready, insufficient flash warning during FE lock (blinks) ⑤High-speed sync (FP flash) ⑥FE lock, FEB shooting (blinks) ⑦Flash exposure compensation ⑧Shutter speed (if camera shake will occur, it blinks), bulb, FE lock (FEL), Processing data (buSY) ⑨Aperture (if unsuitable, it blinks) ⑩Exposure level display: Exposure compensation, Manual exposure level, AEB level, Flash exposure compensation, Red-eye reduction lamp on time display ⑪White balance correction ⑫Max. burst ⑬AF focus confirmation (blinks when focus cannot be achieved), MF focus confirmation ⑭CF card full warning (FuLL CF), CF card error warning (Err CF), No CF card warning (no CF)
6-8	Mirror:	Quick-return half mirror (Transmittance : reflectance ratio of 40:60)
6-9	Viewfinder blackout time:	Approx. 145 ms at 1/60 sec. or faster speeds.
6-10	Mirror lockup:	Enabled with C.Fn-12-1. (1)SW-2 ON for mirror up → SW-1 OFF → SW-2 ON for shutter release. (2)Mirror lockup is maximum 30 sec. (after 30 sec., the mirror goes back down and exposure stops.)
6-11	Mirror cut-off:	No mirror cut-off with lenses up to EF 600mm f/4
6-12	Depth-of-field preview:	Enabled with depth-of-field preview button (1)Disabled in the Full Auto mode. (2)With Speedlite 580EX, 550EX, 430EX, 420EX, MR-14EX, or MT-24EX, pressing the depth-of-field preview button fires a modeling flash.
6-13	Eyepiece shutter:	None (Eyepiece cover provided on strap)
6-14	Misc.:	Eyecup Eb provided

7. Autofocus

7-1 Type: TTL-CT-SIR AF-dedicated CMOS sensor

7-2 AF points: 9 AF points (plus 6 invisible Assist AF points)

(1)Center AF point is vertical line-sensitive to f/2.8 and sensitive to vertical and horizontal lines to f/5.6 as a cross-type sensor.

(2)The AF points above and below the center AF point include six invisible AF points (two of them are vertical line-sensitive to f/2.8). These invisible AF points function only in the AI SERVO AF mode during automatic AF point selection and in the AI SERVO AF mode with C.Fn-17-1 (AF point activation area) and the center AF point selected. (It does not function in the One-Shot AF mode.)

7-3 Focusing modes: 1) Autofocus

Other than the Full Auto mode, the following three AF modes are user selectable.

[One-Shot AF]

When focus is achieved, the AF operation stops and locks (AF lock).

(1)AF-priority (The shutter can be released only when focus is achieved.)

(2)During evaluative metering, AE lock is set when focus is achieved.

(3)In metering modes other than evaluative metering, exposure metering continues in real-time until the shutter is released.

(4)With applicable USM lenses, electronic ring manual focusing can be used after focus is achieved with One-Shot AF or if focus cannot be achieved with One-Shot AF.

[Predictive AI Servo AF]

Tracks subject movement and focuses continuously until the start of exposure.

(1)1st shot during SW-1 ON: Shutter-release priority (shutter releases after the lens drive stops during focusing).

(2)2nd shot onward during continuous shooting: Shutter releases after the lens drive stops during subject tracking.

(3)No focus confirmation light and no beeper.

(4)If focusing is impossible, the focus confirmation icon blinks.

[AI Focus AF (Automatic switching between One-Shot/ Predictive AI Servo AF)]

When the AF point which achieved focus in the One-Shot AF mode detects subject movement, the AI Servo AF mode takes over.

(1)Automatically set in Full Auto mode.

(2)In the AI SERVO AF mode, the beeper sounds.

2)Manual focus (MF)
After the lens focus mode is switched to MF (or M), manual focusing is enabled with the focusing ring.
(1)Focus aid: During automatic AF point selection, works with 9 AF points. Works with the user-selected AF point. When focus is achieved, the focus confirmation light and superimposed AF point display will light.
(2)Electronic manual focusing functions during continuous shooting and during the exposure.

7-4 Focusing point selection:

1)Manually selected
The AF point selected from the nine AF points is used to focus.
- When the center AF point is selected in the AI SERVO AF mode and C.Fn-17-1 (AF point activation area) is set, the six invisible AF points above and below the center AF point will function.

2)Automatic selection
(1)One-Shot AF
- Based on the subject information from the nine AF points, the optimum subject is selected automatically for focusing.
- Generally, the closest subject will be selected for focusing.
- If more than one AF point achieve focus at the same distance, they will all light in the viewfinder.

(2)AI SERVO AF
- The focusing starts at the center. Then if the subject moves to an adjacent AF point, AI SERVO AF continues to focus track the subject.
- All 15 AF points are used.

7-5 AF point selection operation:

Press the AF point selector, then use the Multi-controller (8 directions + center press) or turn the Main Dial or Quick Control Dial to select the AF point.
(1)If you press the AF point selector and then press the center of the Multi-controller, the center AF point will be selected. If you press the Multi-controller in one of the 8 directions, the respective AF point (left, upper left, lower left, top, bottom, lower right, upper right, right) will be selected.
(2)In the manual AF point selection mode, if you push the Multi-controller in the direction of the current AF point, it will switch to automatic AF point selection.
(3)If you press the AF point selector and then turn the Main Dial/Quick Control Dial clockwise, the AF point selection will proceed in the following looping sequence: top, automatic selection, center, upper right, right, lower right, bottom, lower left, left, upper left, top, automatic selection... (If you turn the dial counterclockwise, the selection sequence will be in the reverse order.)

(4)With C.Fn-13-1, the Multi-controller can select the AF point directly. With C.Fn-13-2, the Quick Control Dial can select the AF point directly (without needing to press the AF point selector).

7-6 **AF point display:** Indicated by superimposed display in the viewfinder and on the LCD panel.

7-7 **AF activation:** AF is activated by pressing the shutter button halfway (SW-1)

7-8 **AF operation speed:** Same as the EOS 20D.

7-9 **Focus confirmation:** Indicated by superimposed display in viewfinder (can be disabled with Custom Function), focus confirmation light, and beeper (can be disabled with the power switch).
(1)When the AI Focus AF mode's AI SERVO AF is set, the beeper sounds.
(2)In the AI SERVO AF mode, the beeper does not sound.
(3)No focus confirmation indicator in the AI SERVO AF mode.
(4)The focus confirmation beeper can be enabled or disabled with the menu's [Beep].
(5)The superimposed display can be enabled/disabled with C.Fn-10.

7-10 **AF precision:** Same as the EOS 20D

7-11 **AF working range:** EV -0.5 -18 (at 20ºC and ISO 100, under Canon's testing standards)

7-12 **AF-assist beam:** When an EOS-dedicated Speedlite is used (equipped with AF-assist beam) and turned on, a near-infrared beam (peak wavelength approx. 700 nm) is emitted automatically.

8. Exposure Control

8-1 **Type:** Max. aperture TTL metering with 35-zone SPC with the following selectable modes:
(1)Evaluative metering (linked to all AF points)
(2)Partial metering (approx. 8% of viewfinder)
(3)Spot metering (approx. 3.5% of viewfinder)
- During continuous shooting, spot metering is repeated for each shot.

(4)Centerweighted average metering
- In the Full Auto mode, evaluative metering is set automatically.
- AF point-linked partial metering and spot metering are not possible.

8-2 **Exposure modes:**
1) Program AE (shiftable)
2) Shutter-priority AE
- With C.Fn-16-1, safety shift is applied to 1) or 2).

3) Aperture-priority AE
4) Full Auto (non-shiftable)
5) E-TTL II autoflash program AE
- C.Fn-14-0: Evaluative metering, C.Fn-14-1: Averaged metering

6) Manual exposure (including bulb)

8-3 Metering range: EV 1-20 (at 20ºC with 50mm f/1.4 lens at ISO 100, under Canon's testing standards)

8-4 Exposure beyond range warning: Shutter speed and aperture displays blink on the LCD panel and in the viewfinder.

8-5 Exposure metering: Activated when shutter button is pressed halfway (SW-1 ON).
- Metering time: Approx. 4 sec. before exposure and approx. 2 sec. after exposure.

8-6 ISO Speed: 100-1600 settable in 1/3-stop increments
- With C.Fn-8-1, ISO 50 and 3200 can also be set.
- In the Full Auto mode with the AE shutter speed slower than 1/500 sec., ISO 400 is set. With 1/500 sec. and faster speeds, ISO 100-400 is set (1/8-stop increments) automatically. With flash, ISO 400 is set. (During continuous shooting, the ISO speed does not change automatically).

8-7 Exposure Compensation:

1) Manual exposure compensation

(1) Bracketing range: Up to ±2 stops in 1/2- or 1/3-stop increments

(2) Bracketing factor: See the bracketing factor used for the respective shooting mode below.
- Not settable in the Full Auto mode.
- Manual exposure compensation cannot be set for manual exposures. Works with AEB.

Shooting Mode	Shutter Speed	Aperture
Program AE	Yes	Yes
Shutter-priority AE	—	Yes
Aperture-priority AE	Yes	—
Manual	Yes	—

AEB cancellation: Set the AEB amount to 0.
- If 1) and 2) are set in combination, the AEB amount will be shifted by the exposure compensation amount.

2) AEB (Auto Exposure Bracketing)

(1) Activation: Set with the menu's [AEB].
- During AEB: The AEB icon and AEB level on the LCD panel blinks, and the AE lock icon and AEB level blinks in the viewfinder.

(2) Bracketing range: Up to ±2 stops in 1/2- or 1/3-stop increments

(3) Bracketing sequence: Standard exposure, decreased exposure, and increased exposure
- Taken in accordance with the drive mode.
- If the self-timer is used, the three bracketed shots will be exposed successively after the self-timer delay.
- May be used in combination with WB-BKT. (In this case, nine images will be generated.)
- With C.Fn-09 (Bracketing sequence/Auto cancel), the bracketing sequence can be changed.

(4) Bracketing factor: Same as for 1).

(5)AEB cancellation: Set the AEB amount to 0.
- With C.Fn-09 (Bracketing sequence/Auto cancel), AEB can be canceled afterward automatically or not. (If the flash is ready or the flash button is ON, AEB will be canceled afterward automatically regardless of the C.Fn-09 setting.)

8-8 AE Lock:
1) Auto AE lock
- In the One-Shot AF mode with evaluative metering, AE lock takes effect when focus is achieved.

2) Manual AE lock
(1)Enabled with AE lock button. (Pressing the button again renews AE lock.)
(2)No AE lock in Full auto modes.
(3)During evaluative metering, AE lock is applied to the exposure setting obtained by the selected AF point. During partial, spot, or centerweighted average metering, AE lock is applied to the exposure setting obtained by the center AF point.
(4)With an EX-series Speedlite, it functions as an FE lock button.

8-9 Multiple exposures: Not possible

9. Shutter

9-1 Type: Vertical-travel, mechanical, focal-plane shutter with all speeds electronically-controlled
- Mechanical shutter: Front and rear curtains each controlled by a dedicated rotary magnet (curtain speed 3.77 ms/24mm).

9-2 Shutter speeds: 1/8000 sec. to 30 sec. X-sync at 1/200 sec.
(1)Settable in 1/3-stop increments in shutter speed-priority AE and manual modes.
(2)During bulb exposures, the exposure time is displayed on the LCD panel.

9-3 Shutter release: Soft-touch electromagnetic release

9-4 Shutter-release time lag:
1) During SW-1 ON, time lag between SW-2 ON and start of exposure: 75 ms
2) Time lag between simultaneous SW-1/SW-2 ON and start of exposure: 130 ms
Note: From the maximum aperture stopped down to f/3.5. (With EF 50mm f/1.8 II. Excluding AF time.)

9-5 Noise reduction: Set with C.Fn-02 [Noise reduction] set to [Auto] or [On]
(1)[Auto]: The noise level is detected automatically and noise reduction is performed.
(2)[On]: Noise reduction is performed if the exposure is 1 sec. or longer.

9-6 Self-timer: 10-sec. delay
(1)With C.Fn-12-1 (mirror lockup), the self-timer delay is 2-sec.
(2)After starting, the self-timer can be canceled by pressing the Drive button.

9-7 Self-timer operation indicator:
1) Self-timer lamp (Blinks at 2Hz for the first 8 sec., then blinks at 8Hz for the last 2 sec.)
2) LCD panel (ISO speed indicator counts down from 10 to 1 in 1-sec. increments)
3) Beeper (Beeps at 2 Hz for the first 8 sec., then at 8 Hz for last 2 sec.)

9-8 Camera shake warning: In the Full Auto mode, if the shutter speed (Tv-auto) is 0 to 0.5 stop slower than the reciprocal of the lens focal length, the shutter speed display blinks.

10. Flash Specifications

10-1 Flash sync contacts:
1) Hot shoe: X-sync contacts
- Locking pin hole provided to prevent Speedlite slippage.

2) Lower side terminal: PC terminal (no polarity)
(1)Threaded terminal.
(2)Both 1) and 2) can be used for simultaneous firing.

10-2 Flash auto: Enabled with the camera's Program AE mode
1) With EX-series Speedlites
E-TTL II autoflash, FE lock
2) With TTL and A-TTL external Canon Speedlites
Manual firing, stroboscopic flash, and external flash metering enabled. When TTL or A-TTL is set, the flash is fired at full output.
3) With non-Canon flash units:
- An external flash unit connected to the hot shoe can synchronize at 1/200 sec. or slower.
- Large studio flash: Sync at 1/125 sec. or slower (Confirm beforehand.)

10-3 Flash exposure compensation:
1) Manual setting
(1)Up to +/- 2 stops in 1/3-stop increments.
(2)If flash exposure compensation is set with both the camera and Speedlite, the Speedlite's setting will override the camera's setting and take effect.
2) FEB (Flash Exposure Bracketing)
(1)Enabled and set with the 580EX, 550EX, MR-14EX or MT-24EX.
(2)During continuous shooting, it stops automatically after three shots.
(3)When the flash is unable to fire anymore during FEB continuous shooting, the shutter release locks.
(4)The shutter release unlocks when the shutter button is let go. While the flash is not ready, the AE mode takes effect (SW-2).

10-4 Wireless flash: Enabled with the 580EX, 550EX, 430EX, 420EX, ST-E2, MR-14EX, or MT-24EX.

(1)Three slave groups (A, B, C) can be controlled, a flash ratio (A: B) can be set, FEB can be set according to the flash ratio.

(2)A modeling flash can be fired.

(3)The 430EX and 420EX can be used as slaves only, and the MR-14EX and MT-24EX can be used as the master unit only.

11. Drive

11-1 Drive modes: ①Single ②Approx. 3 fps ③Self-timer

11-2 Continuous shooting: Continuous shooting with the internal buffer memory record

(1)When the buffer memory becomes full, shooting will not be possible until at least one image in the internal memory is recorded onto the CF card.

(2)When the shooting stops (SW-1 OFF), the image data continues to be transferred from the internal buffer memory to the CF card to free up the buffer memory and enable more shooting.

11-3 Continuous shooting speed: Approx. 3 fps (at 1/250 sec. or faster for all recording quality settings)

11-4 Maximum burst: With a Canon 512MB CF card for high-speed writing.

Recording Quality			Maximum Burst
JPEG	Large	Fine	60
		Normal	150
	Medium	Fine	120
		Normal	319
	Small	Fine	200
		Normal	446
RAW			17
RAW+JPEG	Large	Fine	12
		Normal	
	Medium	Fine	
		Normal	
	Small	Fine	
		Normal	

* The maximum burst with JPEG will vary depending on the shooting conditions, processing conditions, and CF card type.
* For Middle/Normal and Small/Normal, continuous shooting is possible until the CF card becomes full.
* The maximum burst is displayed on the viewfinder bottom ("9" displayed if it is 9 shots or higher or "8" to "0" is displayed when it is less than 9). The max. burst is displayed even when the drive mode is Single or Self-timer. Also, note that the max. burst will be displayed even if there is no CF card installed.
* In the B/W mode, the max. burst will be higher than when you shoot in color.
* When the buffer memory becomes full, shooting will not be possible until at least one image in the internal memory is recorded onto the CF card.
* Menu operations are possible during image processing.

11-5 **Battery life:** With Battery Pack BP-511A

Temperature	Shots (Approx.)
At 20ºC	800
At 0ºC	400

＊The battery capacity for BP-511/512 is 1100mAh or -26% compared with the BP-511A (1390mAh).
＊Shooting conditions: Fully charged battery pack, EF 50mm f/1.8 II, image review time 2 sec., and Large/Fine image quality.
＊Complies to CIPA testing standards.

11-6 **Image review:** Image review time right after image capture is settable with the menu's [Review time].
⑴Settable to 2 sec., 4 sec., 8 sec., or Hold.
⑵If you press the Info button during image review, you can switch the Info display on or off.
⑶Even if "Hold" is set and Auto power off is set to "Off", LCD monitor will turn off after 30 minutes.

12. LCD Monitor

12-1 **Type:** TFT color, liquid-crystal monitor
12-2 **Screen size:** 2.5 in.
12-3 **Pixels:** Approx. 230,000 pixels (Displayed pixels)
12-4 **Coverage:** Approx. 100% (for JPEG images)
12-5 **Brightness adjustment:** 5 levels
・ Settable with menu's "LCD brightness"
12-6 **Angle adjustment:** None
12-7 **Protective cover:** None

13. Playback

13-1 **Image display format:**
1) Single image
⑴During the image display, press the INFO button to switch to normal (image + basic info), image only (no info) or image info display (information + reduced image).
⑵Turn the Quick Control Dial or Main Dial to view the previous or next image.
2) 9-image index
・ During the image display, press the INFO button to switch between normal (9 images + basic info) or 9 images only (no info)
3) Magnified zoom
・ During the image display, press the INFO button to switch between normal (magnified image + basic info) or magnified image only (no info)
4) Auto play
5) Auto play right after shooting
・ Except when the menu's [Review time: Off] is set, the last image captured is displayed.

13-2 Display conditions: Images saved in Design rule for Camera File system format.
(1)If the image is not in the Design rule for Camera File system format, [?] is displayed on the LCD monitor.
(2)Also applicable to the index's thumbnail images.

13-3 INFO display: 1) Shooting information display (Camera Information)

- Date/time, WB correction amount, WB-BKT setting, Color space, Picture style, Flash exposure compensation amount, Auto power-off, Auto rotated image, Color temperature, CF card space remaining, ISO speed, Register camera settings (shooting mode only), File No., Folder No.

Note: In the Full Auto mode, items that cannot be set will not be displayed (ISO Auto is displayed).

2) Image info display (Playback INFO)

- When an image is displayed and you press the INFO button, the following information will be displayed together with a reduced image:
  Folder No., File No., Reduced image, Histogram, Color space, Shooting date/time, AF point, ISO speed, Metering mode, Shooting mode, Shutter speed, Aperture, Exposure compensation amount, Flash exposure compensation amount, White balance correction amount, Playback number/Total images recorded, Protect, Recording quality, Original image verification data appended, White balance, Color temperature (displayed only when WB setting is K), Monochrome, File size (MB)

Note 1: The RAW+JPEG file size is indicated only for the JPEG image.
Note 2: If a JPEG image not in the Design rule for Camera File system format is selected, [!] is displayed.
Note 3: If an image that cannot be displayed is selected, [?] is displayed.
Note 4: The AF points used are indicated.

13-4 Highlight alert: In the single image (INFO) display mode, the highlight portions containing no image information will blink.

13-5 Histogram display: 1) Brightness
2) RGB

- Switchable with menu's [Histogram].
- Displayed with Single (INFO.).

13-6 Magnify zoom display: With the Magnify button, the image can be magnified from the single image display from approx. 1.5× to 10× in 15 steps.

Magnify	Magnify button
Reduce	Reduce button
Scroll vertically	Multi-controller (Diagonal scrolling also possible. Center button does not function.)
Scroll horizontally	
View next image	Quick Control Dial, Main Dial (The previous or next image can be viewed while the magnified position remains the same.)

＊The image magnification will start at the center.
＊When C.Fn-18-1 is set, press the Direct Print button and Magnify/Reduce button simultaneously to magnify or reduce the image during the image review right after shooting.

13-7 Index display: Single image display or press the Reduce button for 9-image display

- View the previous/next image with the Quick Control Dial or Main Dial.

13-8 Rotated display:

1) Manual
   (1) With the menu's "Rotate," the image can be rotated clockwise in 90º, 270º and 0º.
   (2) If the image has been appended with data for original image verification, image rotation is possible while keeping the original image recognition intact.
2) Auto image rotation
   (1) Settable with the menu's "Auto rotate."
   (2) When a vertical image is played back in the horizontal orientation, the camera rotates the image automatically to the vertical orientation.
   (3) Image rotation is applied during playback and video OUT (not during image review after image capture).

13-9 Jump: With the Jump button, browse through images during playback or switch the menu category (Shooting, Playback, Setup)

(1) Jump by 1 image

After pressing the JUMP button, press the SET button and turn the Quick Control Dial to select any of the following jump modes. After selecting the jump mode, turn the Quick Control Dial or Main Dial to jump.

- Jump by 10 images: Jump forward or back by 10 images
- Jump by 100 images: Jump forward or back by 100 images
- Jump by shooting date: Jump to the previous or following day. The day's last shot will be displayed first.
- Jump by folder: Jump to the previous or next folder. The folder's newest shot will be displayed first.

Note: Procedure: Image playback → Press JUMP button → Press SET button → Turn Quick Control Dial to select JUMP mode → Press SET button to set → Turn Quick Control Dial or Main Dial to jump.

(2) Jump with 9-image index display

Turn the Quick Control Dial or Main Dial to jump to the previous or next screen of 9 index images.

(3) Jump during magnified view

Turn the Main Dial to jump by 10 images.

(4) Jump during the menu display

Press the JUMP button to jump to the respective menu's first item.

13-10 Video output: Compatible with NTSC/PAL video output terminals.

- Select the type with the menu's "Video system." Use Video Cable VC-100.

14. Protection/Deletion of Recorded Images

14-1 Protection: A single image can be protected or unprotected.
- With the menu's [Protect].

14-2 Erase: A single image or all images stored in a Compact Flash card can be erased if they are unprotected.
(1)During playback, press the Erase button ([Erase] [All] will be displayed).
(2)Images erase-protected with the camera cannot be erased (except during formatting).

15. Menus

15-1 Description: ①Shooting ②Playback ③Setup
- Each menu category is color-coded on the LCD monitor: ①Red, ②Blue, ③Yellow

15-2 LCD monitor language: Any of the following 15 languages can be selected:
English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Russian, Chinese (simplified), Chinese (traditional), Korean and Japanese.

15-3 Firmware updating: Enabled by the user.
- Not possible in Full Auto mode. (The menu is not displayed.)

16. Bubble Jet Direct/CP Direct

Note: Hereinafter Bubble Jet Direct abbreviated as BJD and CP Direct as CPD.

16-1 Configuration: BJD/CPD-compatible printer, interface cable IFC-400PCU

16-2 Operation method: By operating the camera, the image is printed directly by the BJD/CPD-compatible printer.

16-3 Compatible printers: CPD-series
BJD-series printers

16-4 Paper sizes: CPD: Card, L, postcard
- The compatible paper sizes will differ depending on the printer.

BJD: A4, L, 2L, card, postcard (when Japanese is selected)

16-5 Transmission protocol: Canon-developed protocol.

16-6 Data transfer system: Data transfer from camera to printer.
CPD: YMC, BJD: JPEG
- With CPD, image processing is executed by the camera, and with BJD, it is executed by the printer.

16-7 Printable images: Design rule for Camera File system-compliant JPEG images
- JPEG images in RAW+JPEG images can be printed, but not RAW images.

16-8 Printing system:

①Single image printing ②DPOF batch printing
⑴Both CPD/BJD compatible with ① and ②.
⑵Printing cancellation: Enabled with ① and ②. Resumable after cancellation: Enabled with ②.
⑶When CPD is connected, image printing in progress cannot be canceled. The printing of all the remaining images will be canceled. When BJD is connected, the printing is canceled and the paper will be discharged.
⑷If an error occurs, [Stop] or [Resume] may appear or only [Stop] may appear depending on the error type.

16-9 Style settings:

1) CPD: On-screen settings (single or split screen)
BJD: Paper (L, 2L, postcard, A4, card)
⑴The split screen can be selected when the card-size paper is used.
⑵BJD: If Japanese is not selected as the language, the choices will be Card#1, Card#2, Card#3, LTR, and A4 instead.
2) Borders (Borders or borderless)
3) Date (ON/OFF)

16-10 Trimming:

Trim horizontally up to 8 steps, vertically up to 5 steps.
Operation Procedure

Reduce outline	Magnify button
Enlarge outline	Reduce button
Move outline horizontally	Multi-controller (Diagonal scrolling also possible. Center button does not function.)
Move outline vertically	
Rotate outline	Info button

⑴Trimming is not possible with DPOF-specified images printed directly.
⑵The image to be trimmed is initially displayed at the center.
⑶The trimming aspect ratio will depend on the style setting.
⑷If the trimming has been set and then the style is changed, the "Readjust trimming" message will appear.
⑸If CP/BJ is connected and the image to be trimmed looks rough due to excessive magnification, the trimming outline color (normally green) will be red.
⑹The guidance icon will appear on the initial trimming screen or when no operation is done for 5 sec. During an operation, the guidance icon will disappear and only the trimming outline is displayed.
⑺When operation is done with a TV set via the video output, the trimming outline might not be displayed properly.

16-11 Direct Print: With camera's Direct Print button

(1)When the camera is ready for printing and you playback an image, the Direct Print button's blue lamp lights. Select an image and press the Direct Print button to start the printing.
(2)During printing, the blue lamp blinks.
(3)On the image playback screen, the print settings (paper size, border, date, etc.) are also displayed.
(4)To change the print settings, press the SET button before printing. (Same procedure as normal direct printing.)

17. PictBridge

17-1 Configuration: Camera, PictBridge-compatible printer, interface cable IFC-400PCU

- Even while the PictBridge printing screen is displayed, the camera can instantly

17-2 Operation method: By operating the camera, the image is printed directly by the PictBridge-compatible printer.

17-3 Compatible printers: PictBridge-compatible printers

17-4 Paper sizes: L^{+}, 2L^{+}, postcard^{+}, card (5.4×8.6 cm), 10×15 cm, 5"×7"$^{+}$, 8.5"×11"$^{+}$, A4^{+}, 11"×17"$^{+}$, A3^{+}, A3 wide^{+}(13"×19"), roll paper (9/10/13/21 cm), 8.9×25.4 cm^{+} (panorama), Wide, 10×12 in.$^{+}$, 8×10 in.$^{+}$

(1)Selectable paper sizes may differ depending on the printer.
(2)Papers indicated with a + sign enable the Print with shooting information to be printed as well. (Applicable only to Canon printers compatible with this feature.)

17-5 Paper types: Plain, Photo (Photo Paper Plus Glossy), Fast Photo (Photo Paper Pro), Default (Photo Paper Plus Glossy)

(1)Canon paper names are in parentheses above.
(2)Selectable paper types may differ depending on the printer.

17-6 Printing effects (Image optimization):

1) With Canon printers:
ON (Exif print), OFF (No printing effects), VIVID/NR (Noise reduction), VIVID+NR, Normal (Exif print), Face

2) With non-Canon printers:
ON, OFF, Normal

(1)The settings for ON/Normal are set by the printer manufacturer.
(2)Selectable printer effects may differ depending on the printer.

17-7 Trimming: Trim horizontally up to 8 steps, vertically up to 5 steps.

- The trimming method will depend on the BJD/CPD printer.

17-8	Layout:	Borders, borderless, 2/4/8/9/16/20/35-image layout (duplicate images on one sheet), Print with shooting information, 20-up print with shooting information, 35-up contact print, standard setting (borderless with Canon printers) (1)Selectable layouts may differ depending on the printer. (2)20-up print with shooting information and 35-up contact print (35mm contact sheet), images specified with DPOF will be printed. Selectable when A4 or 8.5×11" (Letter) is set (possible only with Canon printers compatible with this feature). (3)Print with shooting information can be set only when the paper size is 9×13 cm or larger (possible only with Canon printers compatible with this feature).
17-9	Date and file No. imprinting:	Date, file No., Both, Off, Standard setting (set to Off by Canon printers). ・ The printer must be compatible with printing the date or file No.
17-10	DPOF-compatible:	DPOF print ordering possible (1)When index and standard are both set, index printing will be followed by standard printing. (2)For file No. imprinting, the printer must be compatible with printing the file No.
17-11	Transmission protocol:	PTP ・ Set with the menu's [Communication].
17-12	Data transfer system:	JPEG ・ Image processing is executed by the printer.
17-13	Printable images:	Design rule for Camera File system-compliant JPEG images ・ JPEG images in RAW+JPEG images can be printed, but not RAW images.
17-14	Direct Print:	With camera's Direct Print button (1)When the camera is ready for printing and you playback an image, the Direct Print button's blue lamp lights. Select an image and press the Direct Print button to start the printing. (2)During printing, the blue lamp blinks. (3)On the image playback screen, the print settings (paper size, border, date, etc.) are also displayed. (4)To change the print settings, press the SET button before printing. (Same procedure as normal direct printing.)

18. DPOF (Print ordering)

18-1	System:	Complies to DPOF Version 1.1
18-2	Specification with print screen:	1) Individual images 2) All images in the folder 3) All images in the card ・ Print specification is not possible for RAW images.
18-3	Print type:	1) Standard 2) Index 3) Both

18-4 Date/File No. print:

Print type		CPD		BJD		PictBridge	
		Date	File No.	Date	File No.	Date	File No.
Standard		Yes	Yes	Yes	No	△	△
Index		Yes	Yes	No	No	△	△
Both	Standard	Yes	Yes	Yes	No	△	△
	Index	Yes	Yes	No	No	△	△

＊For index prints with BJD, the date or file No. will not be imprinted even if it is set to [ON].
＊Whether using PictBridge is possible or not depends on the printer.

18-5 Camera direct: With a BJD/CPD printer or PictBridge printer connected, batch printing of specified images is possible.
・ Printed after the paper size and borders on/off are specified.

19. Customization

19-1 Camera setting registration: The current camera settings (shooting mode, etc.) can be saved in the Mode Dial's C position.
(1)The camera settings that can be saved are those displayed on the LCD panel and the items and settings in the menus.
(2)The following cannot be saved: Time information, language, communication setting, video output, and other settings which cannot be reset to the default with the camera reset function.
(3)Enabled with the menu's [Register camera settings].

19-2 Custom Functions: 21 Custom Functions with 57 settings settable with the camera.

20. External Interface

20-1 Digital terminal: USB 2.0 Hi-Speed, mini B port

20-2 Video output terminal: Provided (NTSC/PAL)

20-3 Remote control terminal: N3-type terminal

21. Power Source

21-1 Battery: Battery Pack BP-511A/BP-514/BP-511/BP-512 ×1
(1)With the AC Adapter Kit ACK-E2, AC power is possible.
(2)With BATTERY GRIP BG-E4, two battery packs can be used. Or six size-AA batteries can be used.

21-2 Main switch: OFF/ON/ON (Quick Control Dial ON), 3 settings
・ Power turns off if the CF card slot cover or battery chamber cover is opened.

21-3 Start-up time: Approx. 0.2 sec.

21-4 Battery check: Automatic battery check when the main switch is turned on. The battery level is indicated by one of three levels on the LCD panel (or four levels if non-display is counted).

21-5	**Power-saving feature (Auto power off):**	Power turns off after the set time of non-operation elapses. (1)Select from the menu's [Auto power off] the time: 1, 2, 4, 8, 15, or 30 min. (2)The camera turns back on when you press the shutter button, menu button, or another button (except the eight-direction key, Erase button, and JUMP button). (3)If it is [Off] and the LCD monitor is displayed continuously, the monitor will turn off after 30 min. of non-use.
21-6	**Max. bulb exposure time:**	Approx. 1.5 continuous hours
21-7	**Date/time back-up battery:**	Lithium CR2016 button battery ×1 Battery life approx. 5 years (1)No backup battery warning. (2)Date/time is reset when the battery is replaced.

22. Body (Chassis) Material — Stainless steel

23. Exterior

23-1	**Exterior material:**	Top, front, and rear covers made of magnesium alloy
23-2	**Exterior color:**	Finish: Black, Grip's anti-slip rubber: Black
23-3	**Tripod socket:**	CU 1/4
23-4	**LCD panel illumination:**	LCD panel illumination button provided (1)Press the button for 6-sec. illumination. Press again to turn it off. Turns off automatically 2 sec. after image capture. (2)Illumination is prolonged if any shooting-related button or dial is used.

24. Dimensions — 152 (W) × 113 (H) × 75(D) mm
6.0 (W) × 4.4 (H) × 3.0 (D) in.

25. Weight — Approx. 810 g / 28.6 oz. (Battery is 82 g / 2.9 oz.)
(1)Excludes battery pack, body cap, eyecup, and CF card.
(2)Includes backup battery.

26. Operating Environment

26-1	**Operating temperature:**	0°C to 40°C / 32 to 104°F
26-2	**Operating humidity:**	85% or less

27. Accessories

27-1	**Battery Grip:**	BATTERY GRIP BG-E4
27-2	**Focusing screen:**	Standard Precision Matte Ee-A Precision Matte with Grid Ee-D Super Precision Matte Ee-S
27-3	**Battery Pack:**	BP-511A
27-4	**Battery Charger:**	CG-580 CB-5L
27-5	**Interface Cable:**	IFC-400PCU
27-6	**Video cable:**	VC-100

27-7	**Strap:**	Wide Strap EW-100DGR
27-8	**EOS System Accessories:**	See the System Accessory Compatibility Table.

4. NOMENCLATURE AND DIMENSIONS

4.1 Nomenclature

Fig. 018 Nomenclature

4.2 Dimensions

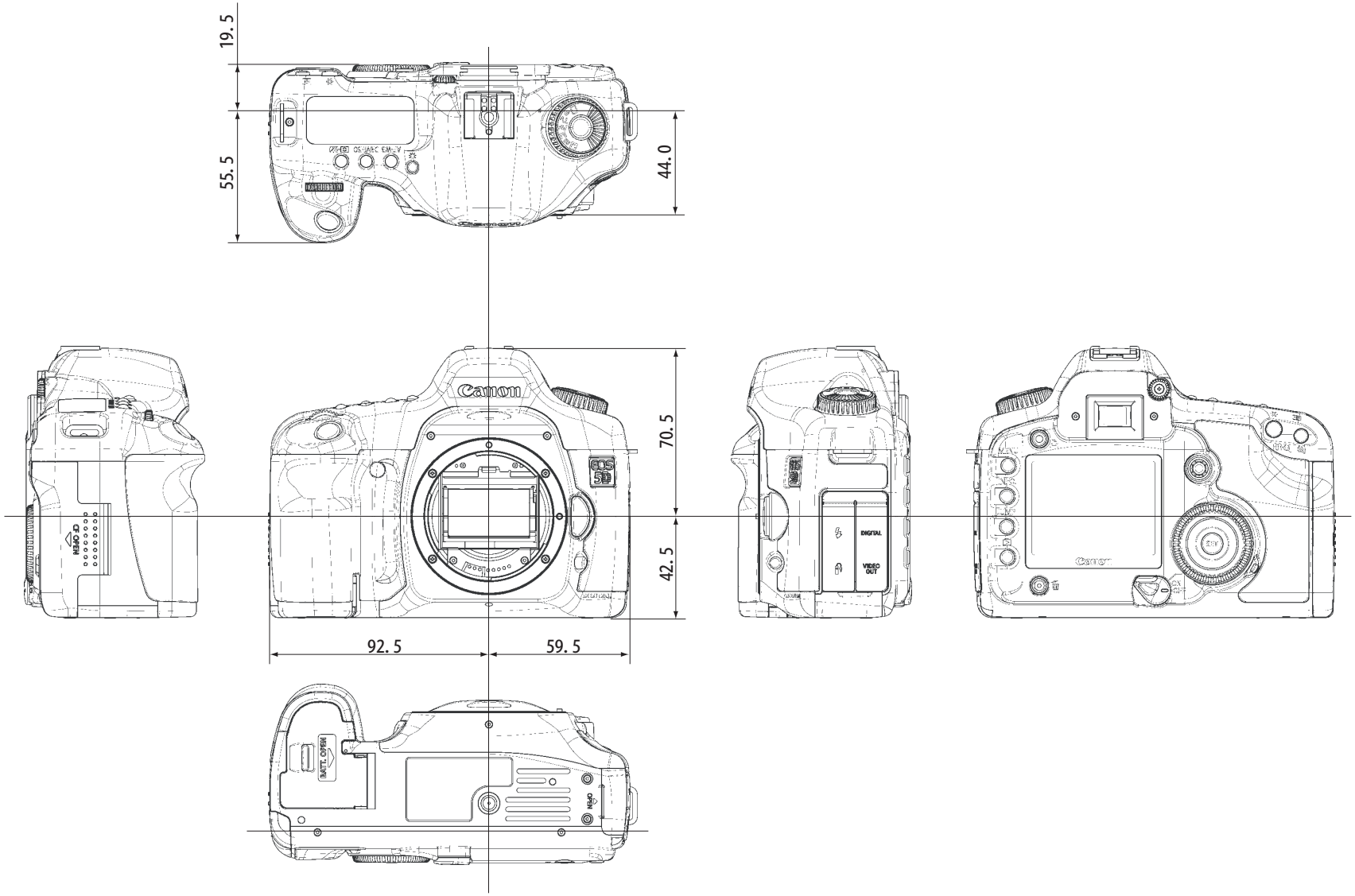
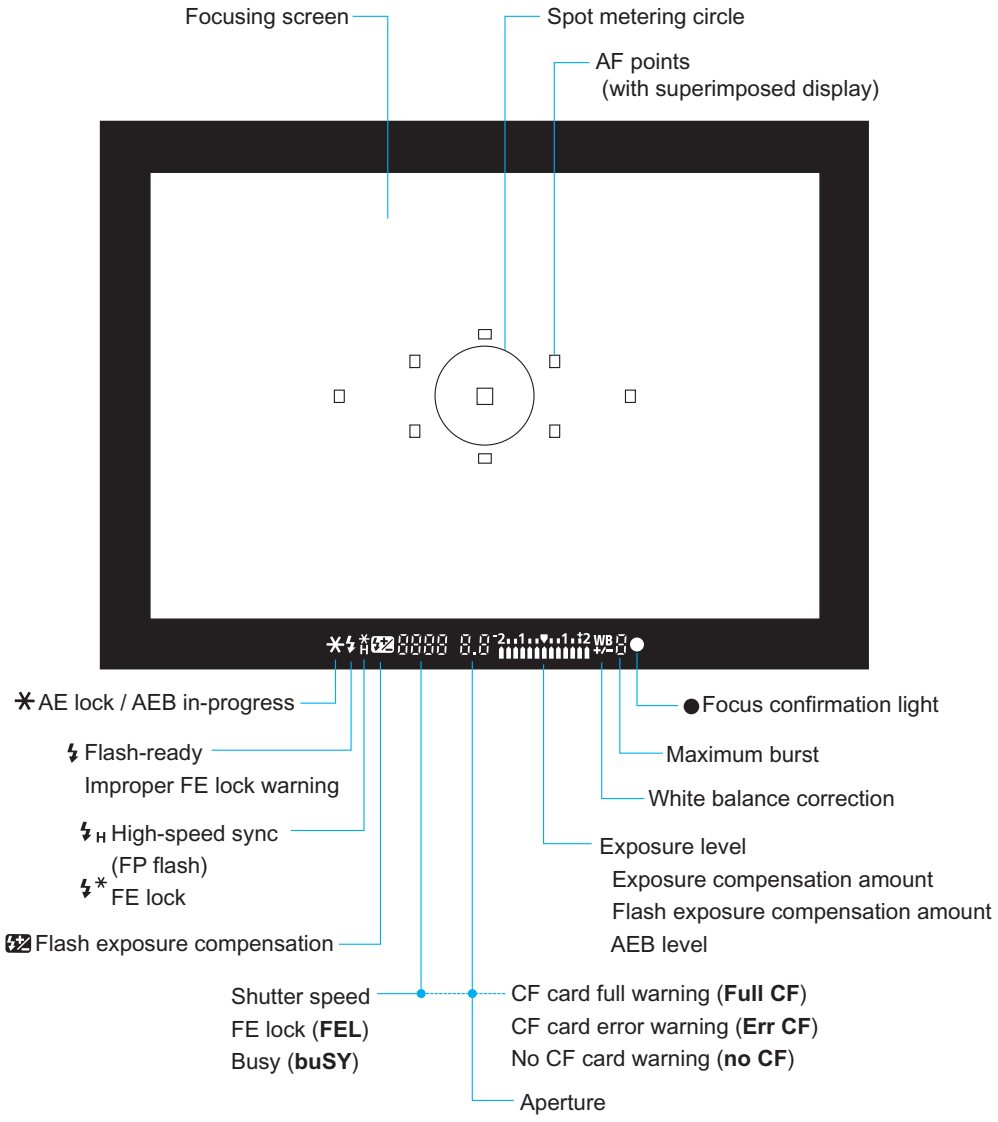


Fig. 019 Six Exterior Views

5. VISUAL INDICATORS

5.1 Viewfinder Information



Grid-type matte screen

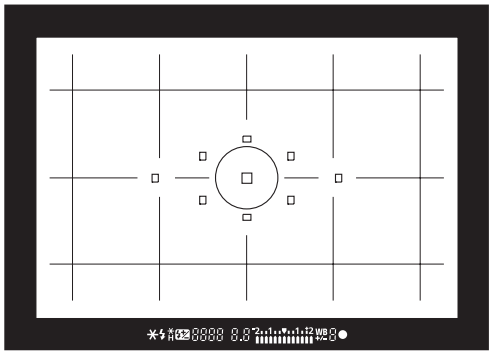


Fig. 020 Viewfinder Information

5.2 LCD Panel Information and Model Dial

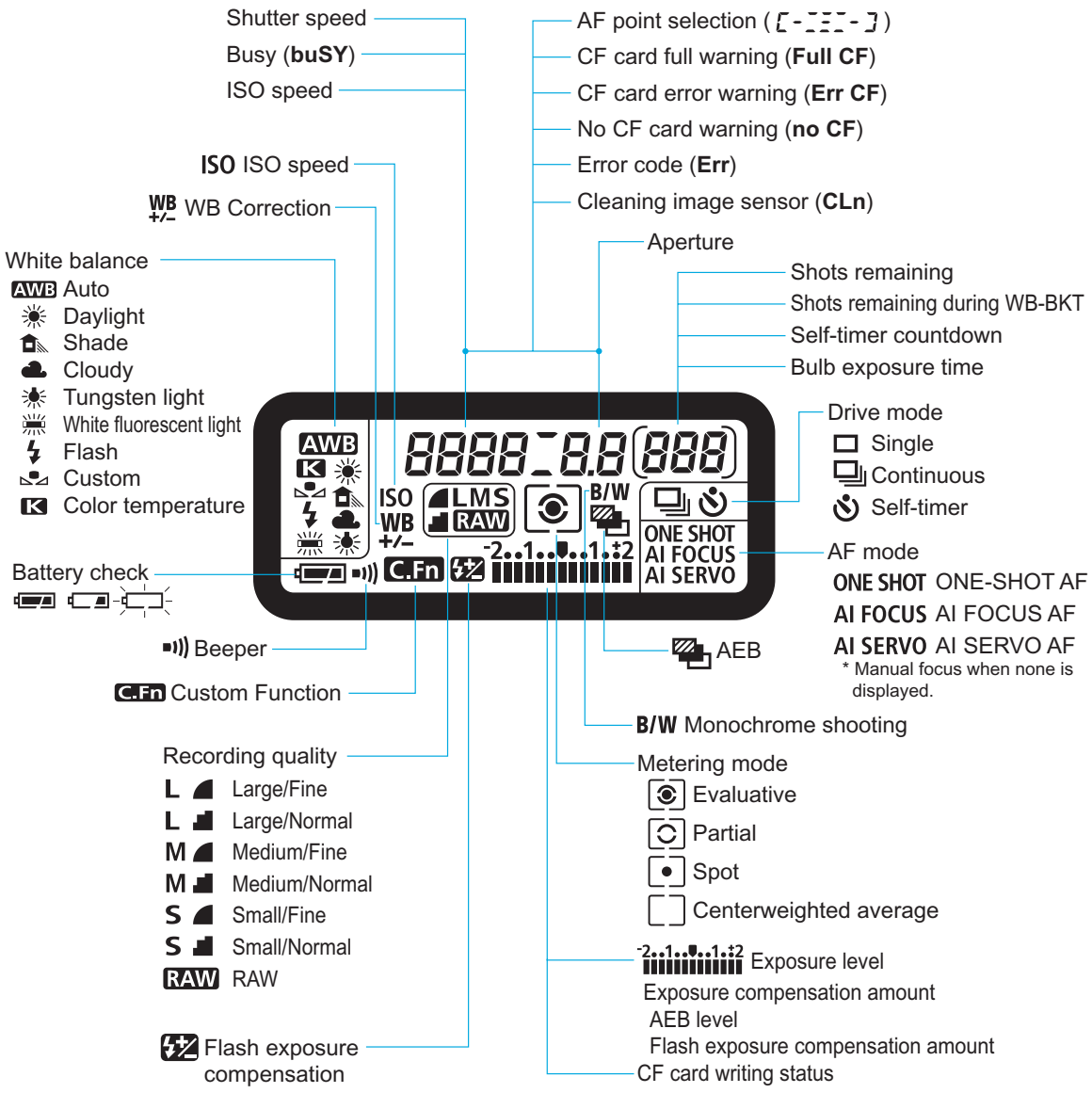


Fig. 021 LCD Panel Information

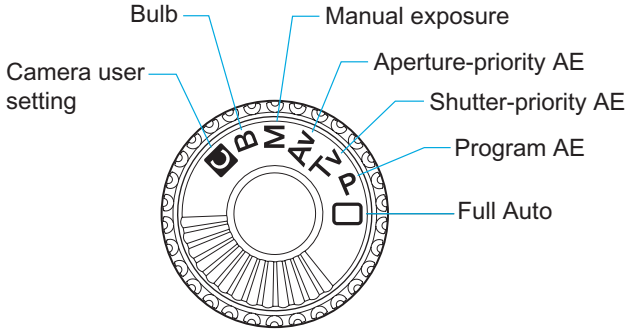


Fig. 022 Mode Dial

5.3 LCD Monitor Menus

1） Shooting Menu

Color	Item	Description			
Shooting Commands	Quality	(→Recording quality setting screen)	L	Full auto mode	RAW＋L
			L		RAW＋L
			M		RAW＋M
			M		RAW＋M
			S		RAW＋S
			S		RAW＋S
					RAW
	Beep	On			
		Off			
	Shoot w/o card	On			
		Off			
	AEB	**0**, ±1/3, ±2/3, ±1, ±1_1/3, ±1_2/3, ±2 (With C.Fn-06-0)			
		0, ±1/2, ±1, ±1_1/2, ±2 (With C.Fn-06-1)			
	WB SHIFT/BKT	(→WB correction/BKT setting screen)	WB correction: B: 9-0-A: 9, M: 9-0-G: 9		
			WB-BKT setting: B/A or M/G bias. 0, ±1,±2, ±3		
	Custom WB	(→Image selection screen/SET button: Set)			
	Color temp.	2800K - 10000K (**5200K**)			
	Color space	sRGB			
		Adbe RGB			
	Picture style	(-> Picture style setting screen)	Standard		
			Portrait	Sharpness	0, 1, 2, 3, 4, 5, 6, 7
			Landscape	Contrast	-4, -3, -2, -1, 0, +1, +2, +3, +4
			Neutral	Saturation	-4, -3, -2, -1, 0, +1, +2, +3, +4
			Faithful	Color tone	-4, -3, -2, -1, 0, +1, +2, +3, +4
			Monochrome	Sharpness	0, 1, 2, 3, 4, 5, 6, 7
				Contrast	-4, -3, -2, -1, 0, +1, +2, +3, +4
				Filter effect	N:None/Ye:Yellow/Or:Orange/R:Red/G:Green
				Toning effect	N:None/S:Sepia/B:Blue/P:Purple/G:Green
			User Defined	Select the base Picture Style, register it, and adjust its parameters.	

Fig. 023 Menu Functions (Shooting)

2） Playback Menu

Color	Item	Description			
Playback Commands	Protect	(→Image selection screen/SET button: Protect, cancel)			
	Rotate	(→Image selection screen/SET button: 90°→270°→0°)			
	Print Order	(→Print specification screen)	Order	(→Image selection screen, quantity setting)	
			Set up	Print Type	Standard/Index/Both
				Date	On/Off
				File No.	On/Off
			All	Mark all	
				Clear all	
			Print	Cancel/OK/Style/Resume	
	Auto Play	(→Autoplay screen/SET button: Playback, Pause)			
	Review time	Off			
		2 sec.			
		4 sec.			
		8 sec.			
		Hold			
	AF points	Not display			
		Display			
	Histogram	Bright.			
		RGB			

Fig. 024 Menu Functions (Playback)

3） Set-up Menu

Items which are not displayed in Full Auto mode.

Color	Item	Description		
Setup Commands	Auto power off	1 min.		
		2 min.		
		4 min.		
		8 min.		
		15 min.		
		30 min.		
		Off		
	Auto rotate	On		
		Off		
	LCD brightness	(→Brightness setting screen/5 levels with Quick Control Dial, image and gray chart also displayed)		
	Date/Time	(→Date/time setting screen)	yy/mm/dd, mm/dd/yy, dd/mm/yy	
	File numbering	Continuous		
		Auto reset		
		Manual reset		
	Select folder	(→Select/Create folder screen)		
	Language	(→Language setting screen)	English	Svenska
			Deutsch	Español
			Français	Русский(Russian)
			Nederlands	简体中文(Simplified Chainese)
			Dansk	繁体中文(Traditional Chinese)
			Suomi	한국어 (Korean)
			Italiano	日本語(Japanese)
			Norsk	
	Video system	NTSC		
		PAL		
	Communication	Print/PTP		
		PC connect.		
	Format	(→CF card formatting screen/Cancel/OK)		
	Custom Functions(C.Fn)	(→Custom Function setting screen/C.Fn-00 to 20)		
	Clear settings	(→Reset screen)	Clear all camera settings	Cancel/OK
			Clear all Custom Functions	Cancel/OK
			Clear registered Camera set.	Cancel/OK
	Register camera settings	(→Camera setting registration screen)		
	Sensor cleaning	(→Sensor cleaning screen/Cancel/OK)		
	Image transfer (LAN) settings	(→LAN setting screen)		
	Firmware Ver. *	(To firmware update screen with SET button/Cancel/OK)		

* Factory defaults:
For Japan: Japanese/NTSC/Year, month, day
For N. America: English/NTSC/Month, day, year
Other regions: English/PAL/Day, month, year

Fig. 025 Menu Functions (Setup)

6. CUSTOM FUNCTION

6.1 Custom Function List

Table 006 Custom Functions (1/2)

C.Fn	Custom Function	No.	Setting
00	Focusing Screen	0	Ee-A
		1	Ee-D
		2	Ee-S
01	SET function when shooting	0	Default (no function)
		1	Change quality
		2	Change Picture Style
		3	Menu display
		4	Image replay
02	Long exposure noise reduction	0	Off
		1	Auto
		2	On
03	Flash sync. speed in Av mode	0	Auto
		1	1/200 sec. (Fixed)
04	Shutter/AE lock button	0	AF/AE lock
		1	AE lock/AF
		2	AF/AF lock, no AE lock
		3	AE/AF, no AE lock
05	AF-assist beam	0	Emits
		1	Does not emit
06	Exposure level increments	0	1/3-stop
		1	1/2-stop
07	Flash firing	0	Fires
		1	Does not fire
08	ISO expansion	0	Off
		1	On
09	Bracket sequence/Auto cancel	0	0,-,+/Enable
		1	0,-,+/Disable
		2	-,0,+/Enable
		3	-,0,+/Disable
10	Superimposed display	0	On
		1	Off
11	Menu button display position	0	Previous (top if power off)
		1	Previous
		2	Top
12	Mirror lockup	0	Disable
		1	Enable
13	AF point selection method	0	Normal
		1	Multi-controller direct
		2	Quick Control Dial direct

Table 006 Custom Functions (2/2)

C.Fn	Custom Function	No.	Setting
14	E-TTL II	0	Evaluative
		1	Average
15	Shutter curtain sync.	0	1st-curtain sync.
		1	2nd-curtain sync.
16	Safety shift in Av or Tv	0	Disable
		1	Enable
17	AF point activation area	0	Standard
		1	Expanded
18	LCD displ → Return to shoot.	0	With Shutter Button only
		1	Also with ✳ etc.
19	Lens AF stop button function	0	AF stop
		1	AF start
		2	AE lock while metering
		3	AF point:M→Auto/Auto→ctr.
		4	ONE SHOT ⇔ AI SERVO
		5	IS start
20	Add original decision data	0	Off
		1	On

7. PROGRAM DIAGRAMS

7.1 Program Diagrams

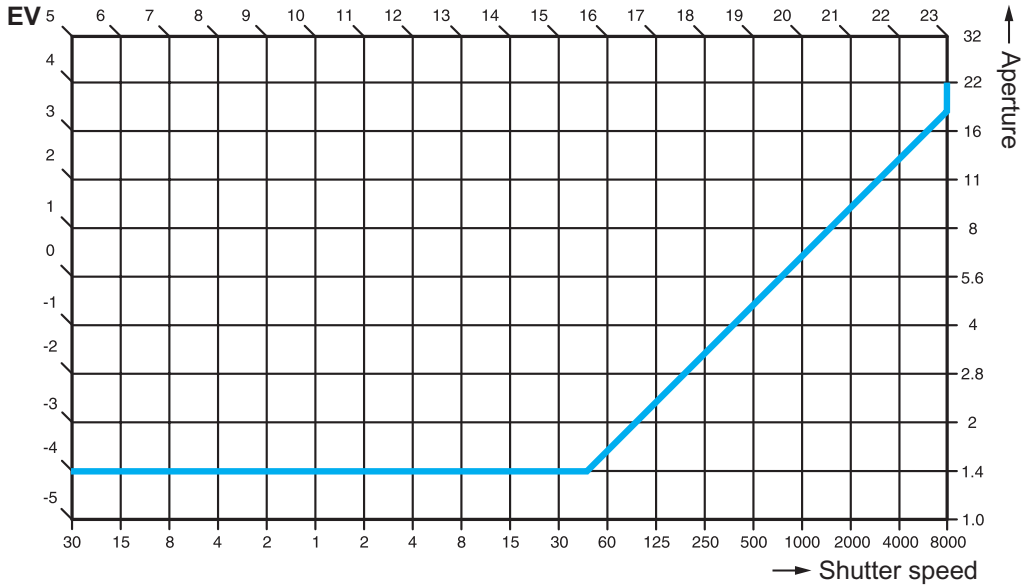


Fig. 026 Program AE Lines (EF50mm f/1.4 USM)

7.2 E-TTL Program Diagrams

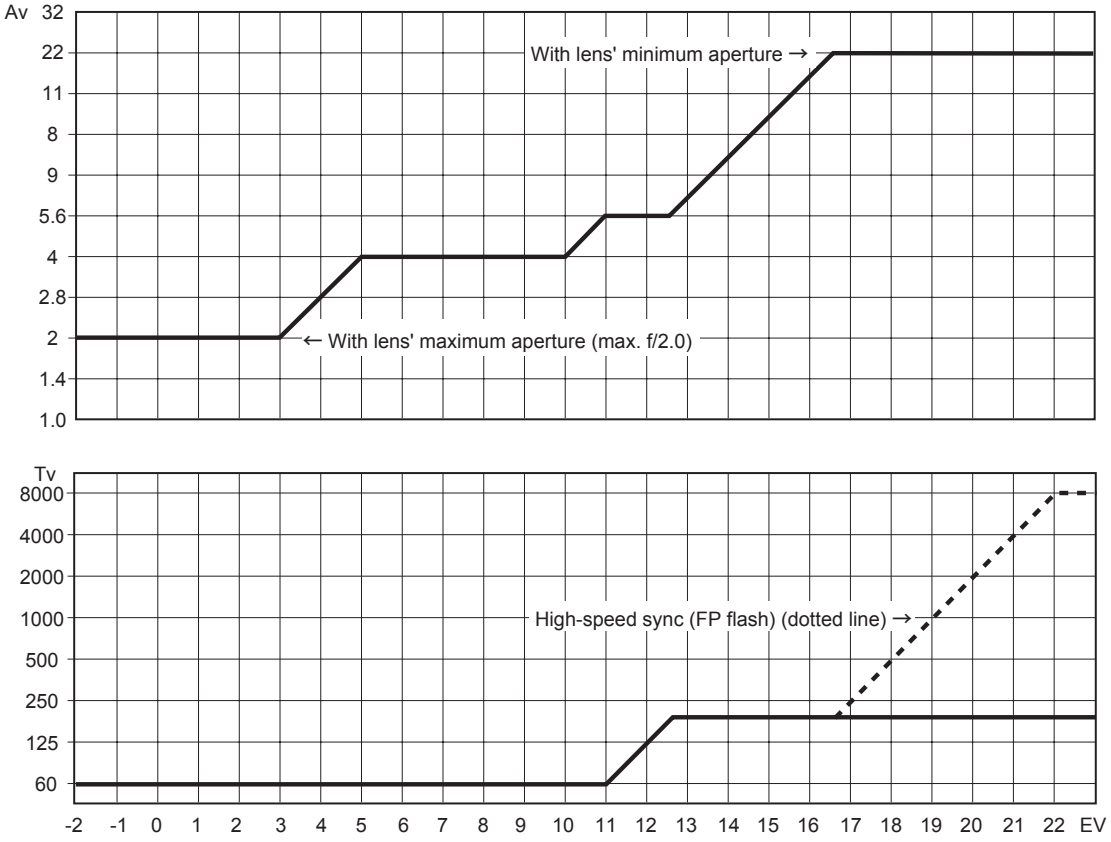


Fig. 027 E-TTL II autoflash program line

8. SYSTEM ACCESSORIES COMPATIBILITY TABLES

8.1 System Accessories

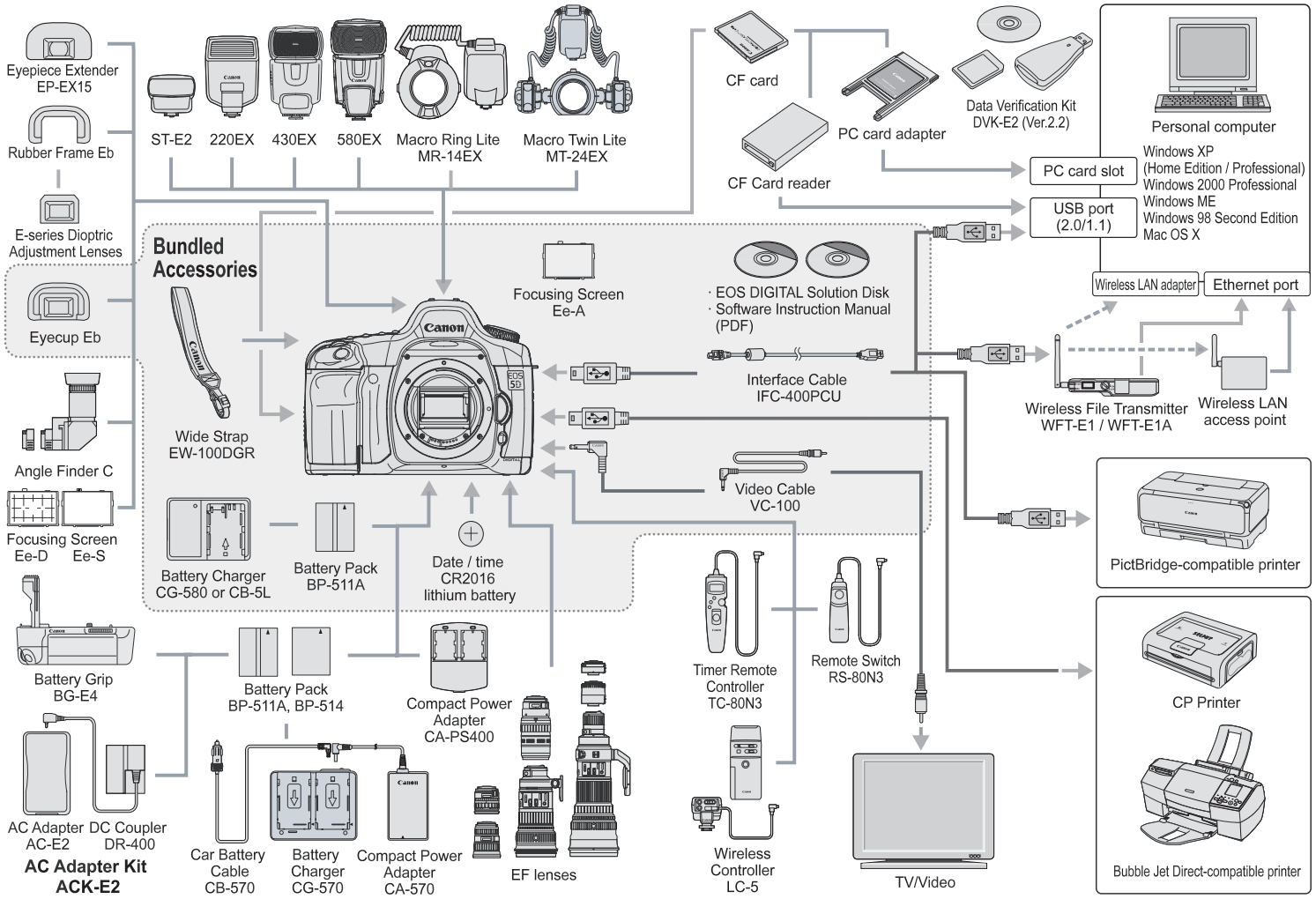


Fig. 028 System map

8.2 System Accessory Compatibility

Note that the following system accessories have some restrictions when used with the EOS 5D.

Table 007 Accessories with Restrictions

Interchangeable Lenses	
Lens Mount Converter FD-EOS	Although it can be used with manual exposure, exposure error occurs. Therefore, these items will be officially listed as incompatible.
Macro Lens Mount Converter FD-EOS	
Speedlites	
480EG	Compatible with external flash metering and manual flash (Full output with TTL autoflash)
540EZ	Compatible with manual flash (Full output with TTL autoflash)
430EZ	
420EZ	
ML-3	Full output only
300EZ	
200E	
Wired multi-Speedlite accessories	The above restrictions for the Speedlites apply.
Remote Control	
Remote Switch 60T3	Compatible when used with RA-N3.
Wireless Remote Controller LC-3	Compatible when used with RA-N3. The 1SR cannot cancel the auto power off mode. Also, shutter release is not possible while the metering is not active. When it is ON, shutter release may not work when the shutter button is pressed completely in one stroke.
Wireless Remote Controller LC-4	The 1SR cannot cancel the auto power off mode. Also, shutter release is not possible while the metering is not active. When it is ON, shutter release may not work when the shutter button is pressed completely in one stroke.

System accessories not listed above are completely compatible with EOS 5D.

9. OPERATION CAUTIONS

Cautions	Remarks
[Imaging sensor]	
1. When cleaning the CMOS sensor, use only a hand blower to blow off dust, etc. Never touch the CMOS surface with any brush, cloth, or cleaning agent. Also do not use pressurized (canned) air or gas to clean the CMOS sensor.	This is to prevent damage to the sensor
2. If there is a strong light source within the image area, ghosting might occur at a symmetrical position or near the light source.	As per the design of low-pass filter.
[Image Recording and Playback]	
3. While the access lamp is blinking, do not shake or subject the camera to any physical shock and do not open the Compact Flash card slot cover or remove the battery.	Doing so may damage the stored images, Compact Flash card, or even the camera itself.
4. Do not leave or use the camera near a strong magnetic field such as a television, audio speaker, or magnet.	A magnetic or electromagnetic field can adversely affect the image on the LCD monitor. It may also prevent proper shooting and image recording and damage images in the Compact Flash card.
5. Do not leave or use the camera near an electronic transmission tower, etc., which emits a strong magnetic field.	The electric wave can adversely affect the image on the LCD monitor. It may also prevent proper shooting and image recording and damage images in the Compact Flash card.
6. If a high ISO speed is set, fewer images can be captured.	As per the design. (The LCD panel will show the remaining shots which varies depending on the ISO speed.)
7. When an image captured with Adobe RGB is displayed on the LCD monitor or TV set, displayed in an sRGB environment, or printed by an sRGB printer, the image will have low color saturation.	This occurs because the color space is not suitable. (Compared to sRGB, Adobe RGB's color reproduction range is wider. If the image is displayed via sRGB without profile conversion, the color reproduction range becomes narrow.) (To obtain accurate reproduction of Adobe RGB in an sRGB environment, use image-editing software like Adobe Photoshop to convert the profile to sRGB.) ＊There is no problem printing with a CP printer.

Cautions	Remarks
[White balance]	
8. When WB-BKT is set, the shots remaining will decrease to about one-third of the normal quantity.	With WB-BKT, each shot yields three images. The number of shooting times remaining is displayed when WB-BKT is set.
9. When using the specified color temperature in ambient light having an adverse color cast, set the white balance correction by adjusting the green or amber bias.	Since the color temperature is based on a blackbody locus, if the bad ambient light does not conform to the blackbody locus, the correct white balance will not be obtained.
10. If you enter in the camera the color temperature reading (to specify the color temperature) taken with a commerciallyavailable color temperature meter, you might not obtain the correct white balance.	The color temperature standard may differ between the camera and color temperature meter. The color temperature meter's reading might also include a margin of error.
[AF]	
11. With the EF 70-200mm f/2.8L USM attached with an Extender, use the center AF point to focus.	Focusing is possible with all the AF points. However, the focusing precision cannot be guaranteed with the AF points other than the center AF point.
12. During continuous shooting with automatic AF point selection and AI SERVO AF, when the subject moves to another AF point, the continuous shooting speed may become irregular.	During focusing when the subject moves to another AF point, focusing is disabled momentarily. It then takes time to refocus again, causing the irregular shooting speed. (The same thing occurs with the EOS-1V.)
[Flash]	
13. Regardless of the C.Fn-09 setting, the FEB sequence will follow the Speedlite's setting.	The C.Fn-09 setting applies only to AEB and WBBKT.
14. With EOS-dedicated Speedlites other than the EX-series, autoflash is not possible.	This is because it does not have a flash exposure sensor for A-TTL/TTL. In the A-TTL/TTL mode, the flash fires at full output.
15. Do not connect a 250V or higher high-voltage flash unit to the PC terminal.	A voltage of 250V or higher will damage the PC terminal's internal circuitry.
16. Do not connect a high-voltage flash unit to the hot shoe.	It may not fire.
[Interface]	
17. Do not excessively bend or disassemble the interfaceable.	Malfunction may result due to cable disconnection or short-circuiting.
18. Before displaying captured images on a TV monitor, check whether it uses the NTSC or PAL system.	If the TV monitor uses a different system, the images will not be displayed properly. (The default setting is NTSC for the Japan and N. America, and PAL for other countries.)

Cautions	Remarks
[LCD Monitor]	
19. When the LCD monitor is on, there might be black, red, or green dots that are always visible.	These are dead pixels which number 0.02% or less of the LCD monitor's total number of effective pixels. The recorded images are not affected.
[Custom/Personal Functions]	
20. C.Fn-00 must be set to match the respective focusing screen.	The camera has three types of correction data for the three focusing screens. If the wrong correction data is used for the installed focusing screen, the exposure will be thrown off.
21. With C.Fn-12-1 (mirror lockup) set, do not point the camera toward the sun or any bright light source.	Doing so can damage the shutter curtains, cause stray light to enter, or damage the imaging sensor.
[Camera & Misc.]	
22. There is a small noise when the camera is shaken.	This is the sound of the ball in the camera orientation detection unit.