

Specifications - EOS 5DS R

Type

Digital, AF/AE single-lens reflex, camera

Recording Media

CF card

* Type I drive (Incompatible with Type II and Microdrive.)

* High-speed writing possible with UDMA CF cards.

SD, SDHC, and SDXC memory cards

* High-speed writing possible with UHS-I SD cards.

* MultiMediaCard (MMC) cannot be used. (A card error will be displayed.)

Image Format

Approx. 36 mm x 24mm (35mm Full-frame)

Compatible Lenses

Canon EF Lenses (excluding EF-S Lenses)

Lens Mount

Canon EF mount

Image Sensor

Type

High-sensitivity, high-resolution, large single-plate CMOS sensor

Pixels

Effective pixels: Approx. 50.60 megapixels

Total pixels: 53.00 megapixels

Pixel Unit

4.14µm square

Total Pixels

Total Pixels: 53.00 megapixels

Aspect Ratio

3:2 (Horizontal: Vertical)

Color Filter System

RGB primary color filters

Low Pass Filter

Fixed position in front of the image sensor

Dust Deletion Feature

1. Self Cleaning Sensor Unit
 - * Removes dust adhering to the low-pass filter.
 - * At power ON: Performed for approx. 3 sec. (Operation indicated for 2 sec.)
 - At power Off: Performed for approx. 2 sec.

- Manual operation: Performed for approx. 8.5 sec.
* Magnesium fluoride coating on the low-pass filter surface applied.
2. Dust Delete Data acquisition and appending
* The coordinates of the dust adhering to the low-pass filter are detected by a test shot and appended to subsequent images.
* The dust coordinate data appended to the image is used by the EOS software to automatically erase the dust spots.
 3. Manual cleaning

Recording System

Recording Format

Design Rule for Camera File System 2.0 and EXIF 2.3

Image Format

Still Image: JPEG, RAW (14-bit Canon Original), RAW, M-RAW, S-RAW, RAW+JPEG, M-RAW+JPEG, S-RAW+JPEG

Video: MOV (Image data: H.264/MPEG-4 AVC; Audio: Linear PCM)

File Size

Full Size

1. Large: Approx. 50.3 Megapixels (8688 x 5792)
2. Medium 1: Approx. 39.3 Megapixels (7680 x 5120)
3. Medium 2: Approx. 22.1 Megapixels (5760 x 3840)
4. S1 (Small 1): Approx. 12.40 Megapixels (4320 x 2880)
5. S2 (Small 2): Approx. 2.50 Megapixels (1920 x 1280)
6. S3 (Small 3): Approx. 350,000 Pixels (720 x 480)
7. RAW: Approx. 50.3 Megapixels (8688 x 5792)
8. M-RAW: Approx. 28.50 Megapixels (6480 x 4320)
9. S-RAW: Approx. 12.40 Megapixels (4320 x 2880)

Crop - 1.3x

1. Large: Approx. 30.5 Megapixels (6768 x 4512)
2. Medium 1: Approx. 24.1 Megapixels (6016 x 4000)
3. Medium 2: Approx. 13.6 Megapixels (4512 x 3008)
4. S1 (Small 1): Approx. 7.6 Megapixels (3376 x 2256)
5. S2 (Small 2): Approx. 2.5 Megapixels (1920 x 1280)
6. S3 (Small 3): Approx. 0.35 Megapixels (720 x 480)

Crop - 1.6x

1. Large: Approx. 19.6 Megapixels (5424 x 3616)
2. Medium 1: Approx. 15.4 Megapixels (4800 x 3200)
3. Medium 2: Approx. 8.7 Megapixels (3616 x 2408)
4. S1 (Small 1): Approx. 4.9 Megapixels (2704 x 1808)
5. S2 (Small 2): Approx. 2.50 Megapixels (1920 x 1280)
6. S3 (Small 3): Approx. 0.35 Megapixels (720 x 480)

Aspect Ratio - 1:1

1. Large: Approx. 33.5 Megapixels (5792 x 5792)
2. Medium 1: Approx. 26.2 Megapixels (5120 x 5120)
3. Medium 2: Approx. 14.7 Megapixels (3840 x 3840)

4. S1 (Small 1): Approx. 8.3 Megapixels (2880 x 2880)
5. S2 (Small 2): Approx. 1.6 Megapixels (1280 x 1280)
6. S3 (Small 3): Approx. 0.23 Megapixels (480 x 480)

Aspect Ratio: 4:3

1. Large: Approx. 44.7 Megapixels (7712 x 5792)
2. Medium 1: Approx. 34.9 Megapixels (6816 x 5120)
3. Medium 2: Approx. 19.7 Megapixels (5120 x 3480)
4. S1 (Small 1): Approx. 11.1 Megapixels (3840 x 2880)
5. S2 (Small 2): Approx. 2.2 Megapixels (1712 x 1280)
6. S3 (Small 3): Approx. 0.31 Megapixels (640 x 480)

Aspect Ratio: 16:9

1. Large: Approx. 42.5 Megapixels (8688 x 4888)
2. Medium 1: Approx. 33.2 Megapixels (7680 x 4320)
3. Medium 2: Approx. 18.7 Megapixels (5760 x 3240)
4. S1 (Small 1): Approx. 10.5 Megapixels (4320 x 2432)
5. S2 (Small 2): Approx. 2.1 Megapixels (1920 x 1080)
6. S3 (Small 3): Approx. 0.28 Megapixels (720 x 408)

Exact file sizes depend on the subject, ISO speed, Picture Style, etc.

Recording Functions

1. Standard
* Records to either the CF card or SD card.
2. Auto switch card
* When the current card becomes full, the camera switches to the other card automatically.
3. Record separately
* The CF card and SD card record the same image at a different image recording quality (L, M, S1, S2, S3, RAW, M-RAW, S-RAW)
4. Record to multiple
* Both the CF card and SD card record the same image at the same image recording quality. (Also applies to RAW+JPEG, M+JPEG, and SRAW+JPEG)

Backup Recording

Images recorded in a card can be copied to the other card

File Numbering

The following three types of file numbers can be set:

(1) Continuous numbering

* The continuous numbering of captured images will continue even after you replace the camera's card. (The numbering continues even when the folder changes.)

(2) Auto reset

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

(3) Manual reset

* Resets the file number to 0001, and creates a new folder automatically.

RAW + JPEG Simultaneous Recording

The image-recording quality can be selected in any combination of the three RAW and eight JPEG recording quality settings.

Color Space

Selectable between sRGB and Adobe RGB

Picture Style

Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Defined 1-3

* Scene Intelligent Auto will set [Auto] automatically.

* [Standard] is the default setting for [User Def. 1-3]

White Balance

Settings

1. Auto (AWB)
2. Daylight
3. Shade
4. Cloudy, Twilight, Sunset
5. Tungsten light
6. White fluorescent light
7. Flash
8. Custom (Custom WB)
9. Color temperature

* With an EX-series Speedlite having the color temperature information transmission feature, the color temperature setting changes to match the color temperature when the flash is fired. Set to approx. 6000K if the flash unit does not have the color temperature communication feature.

Auto White Balance

Auto white balance with the image sensor

Color Temperature Compensation

- Blue/amber bias: ± 9 levels
- Magenta/green bias: ± 9 levels

*Corrected in reference to the current WB mode's color temperature.

Color Temperature Information Transmission

Provided

Viewfinder

Type

Eye-level pentaprism

Coverage

Approx. 100% vertically and horizontally (At approx. 21mm eyepoint)

Magnification

Approx. 0.71x / Angle of view 34.1° (with 50mm lens at infinity, -1 m⁻¹ (dpt))

Eye Point

Approx. 21mm (At -1m⁻¹ from the eyepiece lens center)

Dioptric Adjustment Correction

-3.0 to +1.0m⁻¹ (diopter)

Focusing Screen

Fixed

Mirror

Quick-return half mirror (transmission: reflectance ratio of 40:60)

Viewfinder Information

- AF information
AF point, focus confirmation, AF status indicator
- Exposure information
Shutter speed, aperture, ISO speed (always displayed), AE lock, exposure level, exposure warning
- Flash information
Flash ready, flash exposure compensation, high-speed sync, FE lock, red-eye reduction light
- Image information
Highlight tone priority (D+), maximum burst (2-digit display), card information
- Battery check
- Composition information
Grid, electronic level
- Warning symbol
Displayed if any of the following is set: Monochrome, white balance correction, One-touch recording quality switch, expanded ISO speed, or spot metering.

Depth Of Field Preview

Enabled with Depth-of-field preview button

Autofocus

Type

TTL Secondary image registration, phase detection with AF-dedicated CMOS sensor

AF Points

61-point High-Density Reticle AF

Cross-type AF Points	AF Points
Dual cross-type AF points at f/2.8 and f/5.6	5
Cross-type AF points at f/4.0 + f/5.6	20
Cross-type AF points at f/5.6	21
Horizontal-line focusing AF points at f/5.6	20
Cross-type AF points at f/8	1

AF Working Range

EV -2 - 18 (at 73°F/23°C and ISO 100)

Focusing Modes

(1) Autofocus

- One-Shot AF
 - Predictive AI Servo AF
 - For automatic AF point selection, the AF point to start the AI Servo AF operation can be selected.
 - For automatic AF point selection, the active AF point can be displayed.
 - AI Focus AF
 - (Switches between One-Shot AF and AI SERVO AF automatically)
 - Automatically set in A+ (Auto) Mode
- (2) Manual focus (MF)

AF Point Selection

1. Single-point Spot AF (Manual selection)
2. Single-point AF (Manual selection)
*The checkmark cannot be removed from this option.
3. AF point expansion (Manual selection, 4 points: Up, down, left, and right)
4. AF point expansion (Manual selection, surrounding 8 points)
5. Zone AF (Manual zone selection)
6. Auto selection 61-Point AF)

Selected AF Point Display

Displayed in viewfinder with transparent LCD and on LCD panel

Active AF Point Indicator

AF area used in horizontal/vertical (grip up or down) shooting and the manually-selected AF point position can be set separately

AF Assist Beam

1. Enable
With an EOS-dedicated Speedlite, AF-assist beam is emitted automatically when necessary.
2. Disable
3. IR AF assist beam only
* No AF-assist beam with flash bursts.

Exposure Control

Metering Modes

Approx. 150,000-pixel RGB+IR metering sensor

EOS iSA System with 252-zone (18 x 14) metering

1. Evaluative metering (linked to all AF points)
2. Partial metering (center, approx. 6.1% of viewfinder)
3. Spot metering (center, approx. 1.3% of viewfinder)
•AF point-linked spot metering not provided.
4. Center-weighted average metering
 - a. The selectable metering modes can be restricted with a Custom Function.

Metering Range

EV 0-20 (at 73°F / 23°C at ISO 100)

Exposure Control Systems

- (1) Scene Intelligent Auto
- (2) Program AE (shiftable)
- (3) Shutter-priority AE (Safety shift possible)
- (4) Aperture-priority AE (Safety shift possible)
- (5) Manual exposure

* The metering mode can be specified with a Custom Function.

- (6) Bulb
- (7) Custom shooting mode, C1, C2, C3

* Evaluative metering, Averaged metering

ISO Speed Range

Manual Settings:	
Normal ISO Speeds	ISO 100–6400 (in 1/3-stop or whole-stop increments)
Expanded ISO Speeds	L: equivalent to ISO 50, H: equivalent to ISO 12800

* For (Highlight tone priority), the settable ISO speed range will be ISO 200–6400.

* ISO speed safety shift possible with Custom Function.

* For movie shooting, the maximum expanded ISO speed is also ISO 12800.

ISO 100-6400 (in 1/3-stop or whole-stop increments)

- ISO speed expansion possible to ISO 50 and 12,800
- ISO speed safety shift possible with Custom Function.

Auto Settings:		
Shooting Mode	ISO Settings	
	Without Flash	With Flash
A+	100–3200	ISO 100–1600
P/Tv/Av/M	100–6400* ¹	ISO 400 fixed* ^{1,2,3}
B	ISO 400 fixed* ¹	

*1: It depends on (Minimum) and (Maximum) of (Auto ISO range).

*2: If overexposure would occur with fill flash, the minimum ISO speed is set to ISO 100 (except for M and B).

*3: Auto set for ISO 400–1600 in the P mode with external Speedlite set for bounce flash.

ISO Speed upper and lower limits:

(1) Manual setting range

* ISO speed expansion is set with this option.

(2) Auto ISO ranger

* ISO speed expansion not settable.

Exposure Compensation

Manual: ± 5 stops in 1/3 or 1/2-stop increments

AEB: ± 3 stops in 1/3 or 1/2-stop increments

* Indicated up to ± 3 stops on the LCD panel and in the viewfinder.

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

-With AE lock button. (AE lock is updated each time you press the button.) Enabled in all metering modes.

Shutter

Type

Vertical-travel, mechanical, focal-plane shutter with all speeds electronically-controlled

Shutter Speeds

X-sync at 1/200 sec.

1/8000 to 30 sec., bulb (Total shutter speed range. Available range varies by shooting mode.)

* Shutter speed's control range can be set with a Custom Function.

Shutter Release

Soft-touch electromagnetic release

Self Timer

10-sec. or 2-sec. delay

Shutter Lag Time

1. During SW-1 ON, time lag between SW-2 ON and start of exposure:
Approx. 0.059 sec.
* During silent shooting, approx. 0.108 sec.
* With flash, approx. 0.086 sec.
* During silent shooting with flash, approx. 0.108 sec.
2. Time lag between simultaneous SW-1/SW-2 ON and start of exposure: Approx. 0.186 sec.
* During silent shooting, approx. 0.230 sec.
* With flash, approx. 0.236 sec.
* During silent shooting with flash, approx. 0.255 sec.

External Speedlite**EOS Dedicated Speedlite**

E-TTL II autoflash with all EX Series Speedlites

Zooming to Match Focal Length

Provided

Flash Exposure Compensation

±3 stops in 1/3- or 1/2-stop increments

FE Lock

Provided

External Flash Settings

The camera can set the following with Speedlite 600EX-RT, 580EX II, 430EX II, 320EX, 270EX II, or 270EX:

(1) External flash control

* Flash mode, sync setting, FEB (not possible with 270EX II/270EX), flash exposure compensation, E-TTL II, zoom, wireless master flash (not possible with 430EX II/ 270EX), and clear settings.

* With the Speedlite 600EX-RT, radio wireless control is possible.

(2) Flash Custom Function setting**PC Terminal**

Provided (no polarity)

Drive System**Drive Modes**

Single, High-speed continuous, Low-speed continuous, Silent Single Shooting, Silent continuous shooting, and Self-timer (10 sec. self-timer/remote control, or 2-sec. self-timer/remote control)

Continuous Shooting Speed

High-speed: Maximum approx. 5.0 shots/sec.

Low-speed: Maximum approx. 3.0shots/sec.

Silent continuous shooting: Maximum approx. 3.0 shots/sec.

Maximum Burst

Image Recording Quality	Crop/Aspect Ratio	Image File Size (Approx. MB)	Possible Shots (Approx.)	Maximum Burst (Approx.)			
				CF Card: 8 GB		SD Card: 8 GB	
				Standard	High-speed (UDMA 7)	Standard	High-speed (UHS-I)
Large/Fine	Full-frame	14.1	510	31	510 (Full)	31	510 (Full)
	1.3x crop	8.5	840	110	840 (Full)	120	840 (Full)
	1.6x crop	5.5	1,310	1,310 (Full)	1,310 (Full)	1,310 (Full)	1,310 (Full)
	1:1 (aspect ratio)	9.4	760	76	760 (Full)	85	760 (Full)
	4:3 (aspect ratio)	12.5	570	No value data for Live View shooting.			
	16:9 (aspect ratio)	11.9	600				
Large/Normal	Full-frame	7.0	1,030	1,030 (Full)	1,030 (Full)	1,030 (Full)	1,030 (Full)
M1/Fine	Full-frame	10.9	660	45	660 (Full)	49	660 (Full)
M1/Normal	Full-frame	5.5	1,310	1,310 (Full)	1,310 (Full)	1,310 (Full)	1,310 (Full)
M2/Fine	Full-frame	7.1	1,010	1,010 (Full)	1,010 (Full)	1,010 (Full)	1,010 (Full)
M2/Normal	Full-frame	3.5	2,030	2,030 (Full)	2,030 (Full)	2,030 (Full)	2,030 (Full)
S1/Fine	Full-frame	4.5	1,590	1,590 (Full)	1,590 (Full)	1,590 (Full)	1,590 (Full)
S1/Normal	Full-frame	2.3	3,120	3,120 (Full)	3,120 (Full)	3,120 (Full)	3,120 (Full)
S2	Full-frame	1.2	5,600	5,600 (Full)	5,600 (Full)	5,600 (Full)	5,600 (Full)
S3	Full-frame	0.3	20,380	20,380 (Full)	20,380 (Full)	20,380 (Full)	20,380 (Full)
RAW	Full-frame	60.5	100	12	14	12	14
	1.3x crop	60.5	100	12	14	12	14
	1.6x crop	60.5	100	12	14	12	14
	1:1 (aspect ratio)	60.5	100	12	14	12	14
	4:3 (aspect ratio)	60.5	100	No value data for Live View shooting.			
	16:9 (aspect ratio)	60.5	100				
mRAW	Full-frame	44.0	140	12	14	12	14
sRAW	Full-frame	29.8	190	14	15	14	14
RAW + Large/FINE	Full-frame	60.5 + 14.1	87	12	12	12	12
	1.3x crop	60.5 + 8.5	94	12	14	12	14

	1.6x crop	60.5 + 5.5	98	12	14	12	14
	1:1 (aspect ratio)	60.5 + 9.4	93	12	14	12	14
	4:3 (aspect ratio)	60.5 + 12.5	89	No value data for Live View shooting.			
	16:9 (aspect ratio)	60.5 + 11.9	90				
mRAW + Large/FINE	Full-frame	44.0 + 14.1	110	11	12	11	12
sRAW + Large/FINE	Full-frame	29.8 + 14.1	140	14	14	14	14

* The number of possible shots and maximum burst apply to an 8 GB card based on Canon's testing standards.

* The image file size, number of possible shots, and maximum burst will vary depending on the shooting conditions (aspect ratio 3:2, subject, memory card brand, ISO speed, Picture Style, etc.).

* The "F" after the number indicates that continuous shooting is possible until the card becomes full.

Live View Functions

Shooting Modes

Still photo and video recording

Focusing

1. Contrast AF
2. Manual Focus

Metering Modes

1. Evaluative metering (315-zone)
2. Partial metering (approx. 6.4% of Live View screen)
3. Spot metering (approx. 2.8% of Live View screen)
4. Center-weighted average metering

*AE lock possible.

*The active metering timer can be changed.

Metering Range

Metering range: EV 0 - EV 20 (At 73°F / 23°C, ISO 100)

Grid Display

Three grid display provided

1. 9 sections
2. 24 sections
3. 9 sections + diagonal lines

Exposure Simulation

Provided

Silent Shooting

Provided (Mode 1 and Mode 2)

Video Shooting

File Format

MOV

MPEG-4 AVC / H.264
Variable (averaged) bit rate

File Size

Recording Sizes:
1920 x 1080 (Full HD), 1280 x 720 and 640 x 480

Frame Rates

[1920 x 1080]: 30 fps / 25 fps / 24 fps
[1280 x 720]: 60 fps / 50 fps
[640 x 480]: 30 fps / 25 fps

Continuous Shooting Time

Continuous Shooting Time Based on 8GB Memory Card:				
Movie Recording Size		Total Recording Time		File Size (MB/min.)
		8GB		
1920 x 1080	29.97 fps 25.00 fps 23.98 fps	ALL-I	11 min.	654
	29.97 fps 25.00 fps 23.98 fps	IPB	33 min.	255
1280 x 720	59.94 fps 50.00 fps	ALL-I	13 min.	583
	59.94 fps 50.00 fps	IPB	38 min.	196
640 x 480	29.97 fps 25.00 fps	IPB	1 hr. 37 min.	78

* If the recording time reaches 29 min. 59 sec., the movie shooting will stop automatically.

* There is no 4 GB file size limit for when the shooting stops automatically.

Focusing

Same as focusing with Live View shooting

* During movie shooting or if movie cropping has been set, the image cannot be magnified for manual focusing.

Range

Manual Settings:

Normal ISO Speeds: ISO 100-6400 (in 1/3-stop or whole-stop increments)

Expanded ISO Speeds: L: equivalent to ISO 50, H: equivalent to ISO 12800

* For [Highlight tone priority], the settable ISO speed range will be ISO 200-6400.

* ISO speed safety shift possible with Custom Function.

* For movie shooting, the maximum expanded ISO speed is also ISO 12800.

Auto Settings:

A+: ISO 100-3200 (No Flash) / ISO 100-6400 (With Flash)

P/Tv/Av/M: ISO 100-6400*1 (No Flash) / ISO 400 Fixed*1,*2, *3

B: ISO 400 Fixed (No Flash) / ISO 400 Fixed*1,*2, *3

*1: It depends on [Minimum] and [Maximum] of [Auto ISO range].

*2: If overexposure would occur with fill flash, the minimum ISO speed is set to ISO 100 (except for M and B).

*3: Auto set for ISO 400-1600 in the P mode with external Speedlite set for bounce flash.

Exposure Control

Shooting Mode	Frame Rate	Shutter Speed (sec.)	Aperture	ISO Speed (Recommended Exposure Index)
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		Auto Setting	Manual Setting	Auto Setting	Manual Setting	Auto Setting	Manual Setting
A+ Program AE for movie shooting	29.97, 25.00, 24.00, 23.98	1/4000–1/30	–	Yes	–	ISO 100–6400 ^{*1}	–
	59.94, 50.00	1/4000–1/60	–		–		–
P, B, Program AE for movie shooting	29.97, 25.00, 24.00, 23.98	1/4000–1/30	–	Yes	–	ISO 100–6400 (H1: 12800) ^{*1}	–
	59.94, 50.00	1/4000–1/60	–		–		
TV Movie Shutter-priority AE	29.97, 25.00, 24.00, 23.98	–	1/4000–1/30	Yes	–	ISO 100–6400 ^{*2}	–
	59.94, 50.00	–	1/4000–1/60		–		
AV Movie aperture-priority AE	29.97, 25.00, 24.00, 23.98	1/4000–1/30	–	–	Yes	ISO 100–6400 (H1: 12800) ^{*1}	–
	59.94, 50.00	1/4000–1/60	–	–			
M Movie manual exposure	29.97, 25.00, 24.00, 23.98	–	1/4000–1/30	–	Yes	ISO 100–6400 ^{*3}	100–6400 1/3 or 1-stop increments (H 12800) ^{*3}
	59.94, 50.00	–	1/4000–1/60	–			

ISO speed for still photos during movie shooting:

*1: ISO 100 – ISO 3200

*2: ISO 100 – ISO 6400

*3: Same as the ISO speed used for movie shooting.

Exposure Compensation

Up to ± 3 stops in 1/3-stop increments

* For movies, even if exposure compensation has been set beyond ± 3 stops, exposure compensation up to only ± 3 stops will be applied.

* For still photos, exposure compensation up to ± 5 stops can be applied.

LCD Monitor

Type

TFT color, liquid-crystal monitor

Monitor Size

3.2-inches (Screen aspect ratio 3:2)

Approx. 8.11cm (7.13cm width, 5.19cm height)

Pixels

Approx. 1.04 million dots

Coverage

Approx. 100%

Approx. 170° vertically and horizontally

Brightness Control

Auto: Brightness adjusted automatically by the light sensor

* Adjustable to one of three levels: Darker, Standard, Brighter

Manual: Adjustable to one of seven brightness levels

Coating

Clear View LCD II

* Glass surface has an anti-reflective AR coating.

Interface Languages

25 (English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukraine, Turkish, Arabic, Thai, Simplified/Traditional Chinese, Korean, Japanese)

Playback

Display Format

Single image, Single image + Image-recording quality/shooting information, histogram, 4- or 9-image index, magnified view (approx. 1.5x-10x), rotated image (auto/manual), image jump (by 10/100 images, index screen, by shooting date, by folder), two-image comparative display, slide show (all images/selected by date/folder), star rating

Highlight Alert

With single-image display (Info.) and single-image display, overexposed highlight areas will

Quick Control Function

Items

The following functions can be set:

Shutter speed, aperture, ISO speed, exposure compensation, AEB, flash exposure compensation, AF point selection (including AF area selection modes), Picture Style, White Balance, WB Correction, metering mode, Auto Lighting Optimizer, recording function switching, image-recording quality, AF mode, drive mode, and Custom Controls (camera controls/buttons customization).

Image Protection and Erase

Protection

Erase protection can be applied or canceled for a single image, all images in a folder or all images in the card

Erase

Erase a single image, selected images, all images in a folder, all images in a card or erase only unprotected images

Direct Printing

Compatible Printers

PictBridge-compatible printers

Printable Images

RAW and JPEG images complying to Design rule for Camera File System

-Movies cannot be printed

DPOF: Digital Print Order Format

DPOF

Version 1.1 compatible

Direct Image Transfer

Compatible Images

JPEG and RAW images and movie

For RAW+JPEG, only the RAW or JPEG image or both images can be transferred

Customization

Custom Functions

16 Custom Functions settable with the camera

Custom Controls

The following camera controls can be customized by assigning the desired function: Shutter button halfway pressing, AF-ON button, AE lock button, Depth-of-field preview button, lens AF Stop button, Multifunction button, SET button, Main Dial, Quick Control Dial, and Multi-controller

Camera User Settings

Current camera settings can be registered to C1, C2 and C3 on the Mode Dial (Automatic registration update is possible)

My Menu Registration

Up to six top-tier menu options and Custom Function settings can be registered

Interface

USB Terminal

For personal computer communication and direct printing (USB 3.0)

Video Out Terminal

(1) Video OUT terminal: NTSC/PAL selectable

(2) mini-HDMI OUT terminal

Extension System Terminal

For connection to WFT-E7A (Version 2) and GPS Receiver GP-E2

Gigabit-Ethernet

The RJ-45 jack is not built-in and is only available via the Wireless File Transmitter WFT-E7A (version 2)

Power Source

Battery

One Battery Pack LP-E6

AC power can be supplied with the AC Adapter Kit ACK-E6

Battery Life

1) Camera body only:

Shooting Method	Temperature	Possible Shots
Viewfinder Shooting	73°F/ 23°C	Approx. 700
	32°F/ 0°C	Approx. 660
Live View Shooting	73°F/ 23°C	Approx. 220

	32°F/ 0°C	Approx. 210
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1) With Battery Grip:

Shooting Method	Battery	Temperature	Possible Shots
Viewfinder Shooting	LP-E6 x 2	73°F/ 23°C	Approx. 1,400
		32°F/ 0°C	Approx. 1,320
	Size AA/LR6 Alkaline Batteries	73°F/ 23°C	Approx. 140
		32°F/ 0°C	Approx. 14
	Size AA/Ni-MH Batteries	73°F/ 23°C	Approx. 680
		32°F/ 0°C	Approx. 630
Live View Shooting	LP-E6 x 2	73°F/ 23°C	Approx. 440
		32°F/ 0°C	Approx. 420
	Size AA/LR6 Alkaline Batteries	73°F/ 23°C	?
		32°F/ 0°C	?

* Based on CIPA testing standards

Battery Check

Automatic battery check when the power switch is turned on:

Displayed in 6 levels:

- Battery level displayed on LCD panel and in viewfinder.
- Battery information can be checked with the [Battery info.] menu
- If Battery Grip BG-E11 is used with size AA/LR6 batteries; the battery level is displayed in four levels instead.

Power Saving

Power turns off after the set time (1, 2, 4, 8, 15 or 30 minutes) of non-operation elapses.

Date/Time Battery

CR1616 lithium battery

Start-up Time

Approx. 0.1 sec

Dimensions and Weight

Dimensions (W x H x D)

Approx. 5.98 x 4.58 x 3.01 in. (152.0 x 116.4 x 76.4mm)

Weight

Approx. 32.80 oz. / 930g (Based on CIPA standards)

Approx. 29.80 oz./ 845g (Body only)

Operating Environment

Working Temperature Range

32-104°F/0-40°C

Working Humidity Range

85% or less