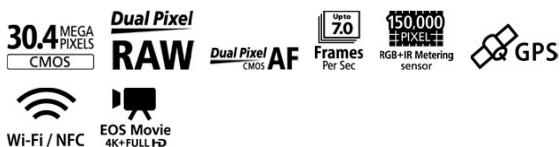


EOS 5D Mark IV



Pursue perfection

Flexibility without compromise, enabling you to pursue the perfect moment.



- A 30-megapixel sensor delivers images that are packed with detail, even in the brightest highlights and darkest shadows.
- Dual Pixel Raw is an alternative file format that lets photographers fine-tune image quality after it's been captured.
- Low-light performance is improved throughout the ISO sensitivity range, right up to the max ISO 32,000 setting (expandable to ISO 102,400).
- A Digital Lens Optimizer works together with Lens Aberration Correction to compensate for optical phenomena, including the camera's optical low-pass filter, for incredible image quality.

Product Range



EOS 5D Mark IV



EOS 5DS



EOS 5DS R

EOS 5D Mark IV

EOS 5DS
EOS 5DS R
EOS-1D X Mark II



Technical Specifications

IMAGE SENSOR

Type	36 mm x 24 mm CMOS
Effective Pixels	Approx. 30.4 megapixels
Total Pixels	Approx. 31.7 megapixels
Aspect Ratio	3:2
Low-Pass Filter	Built-in/Fixed
Sensor Cleaning	EOS integrated cleaning system
Colour Filter Type	Primary Colour

IMAGE PROCESSOR

Type	DIGIC 6+
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LENS

Lens Mount	EF (excludes EF-S / EF-M lenses)
Focal Length	Equivalent to 1.0x the focal length of the lens

FOCUSING

Type	TTL-secondary image-forming phase-difference detection system with dedicated AF sensor
AF System/ Points	61 Point / max of 41 cross-type AF points inc 5 dual cross type at f/2.8 and 61 points / 21 cross-type AF points at f/8 ⁽¹¹⁾ The number of cross-type AF points will differ depending on the lens.
AF working range	EV -3 - 18 (at 23°C & ISO100)
AF Modes	One Shot AI Focus AI Servo AF
AF Point Selection	Automatic selection: All 61 point AF (based on EOS iTR AF setting) Manual selection: Single point AF (selectable points 61, 15, 9 or cross type only points selectable) Manual selection: Single point Spot AF Manual selection: AF point Expansion 4 points (up, down, left, right) Manual selection: AF point Expansion surrounding 8 points Manual selection: Zone AF (all AF points divided into 9 focusing zones) Manual selection: Large Zone AF (all AF points divided into 3 focusing zones) AF points can be selected separately for vertical and horizontal shooting
Selected AF point display	transparent LCD in viewfinder and shown on Quick Control screen
AF Lock	Locked when shutter button is pressed half way or AF ON is pressed in One Shot AF mode. Using customised button set to AF stop in AI servo
AF Assist Beam	Emitted by an optional dedicated Speedlite
Manual Focus	Selected on lens
AF Microadjustment	Manual: Enter adjustment +/- 20 steps (wide and tele setting for zoom lenses) Adjust all lenses by same amount Adjust up to 40 lenses individually Adjustments remembered for lens by serial number

EXPOSURE CONTROL

Metering modes	Approx. 150,000-pixel RGB+IR metering sensor, 252-zone metering, EOS Intelligent Subject Analysis system (1) Evaluative metering (linked to All AF point) (2) Partial metering (approx. 6.1% of viewfinder at centre) (3) Spot metering: Center spot metering (approx. 1.3% viewfinder at centre) AF point-linked spot metering not provided (4) Centre weighted average metering
Metering Brightness Range	EV 0 - 20 (at 23°C, ISO100, with evaluative metering)
AE Lock	Auto: In the One-Shot AF mode with evaluative metering, AE lock takes effect when focus is achieved Manual: By AE lock button in P, Av, Tv and M modes +/-5 EV in 1/3 or 1/2 stop increments (can be combined with AEB).
Exposure Compensation	+/-3 EV in 1/3 or 1/2 stop increments
AEB	Yes. Flicker detected at a frequency of 100 Hz or 120 Hz.
Anti-flicker shooting	Maximum continuous shooting speed may decrease Auto 100-32000 (in 1/3-stop or whole stop increments)
ISO Sensitivity ⁽⁸⁾	ISO can be expanded to L:50, H1: 51200, H2: 102400,

SHUTTER

Type	Electronically-controlled focal-plane shutter
Speed	30-1/8000 sec (1/2 or 1/3 stop increments), Bulb (Total shutter speed range, Available range varies by shooting mode) Soft touch electromagnetic release
Shutter Release	

WHITE BALANCE

Type	Auto white balance with the imaging sensor
Settings	AWB (Ambience priority/White priority), Daylight, Shade, Cloudy, Tungsten light, White Fluorescent light, Flash, Custom, Colour Temperature Setting White balance compensation: 1. Blue/Amber +/-9 2. Magenta/ Green +/-9 Yes, 1 setting can be registered +/-3 levels in single level increments 3, 2, 5 or 7 bracketed images per shutter release Selectable Blue/Amber bias or Magenta/ Green bias
Custom White Balance	
WB Bracketing	

VIEWFINDER

Type	Pentaprism
Coverage	Approx. 100%
(Vertical/Horizontal)	
Magnification	Approx. 0.71x ⁽⁴⁾
Eye point	Approx. 21mm (from eyepiece lens centre)
Dioptre Correction	-3 to +1 m ⁻¹ (dioptr)
Focusing Screen	Fixed, with information Transparent LCD overlay
Mirror	Quick-return half mirror
Viewfinder Information	AF information: Single/Spot AF points, AF Frame, AF status, Focus indicator, AF mode, AF point selection, AF point registration Exposure information: Shutter speed, aperture value, ISO speed (always displayed), AE lock, exposure level/compensation, flash metering, flash metering circle, exposure warning, AEB, metering mode, shooting mode Flash information: Flash ready, high-speed sync, FE lock, flash exposure compensation, red-eye reduction light. Image information: Card information, maximum burst (2 digit display), Highlight tone priority (D+), JPEG/RAW indicator, Dual Pixel RAW, Digital Lens Optimizer. Composition information: Grid, Electronic level Other information: Battery check, Warning symbol, Flicker Detection, drive mode, white balance Yes, with Depth of Field preview button On strap
Depth of field preview	
Eye piece shutter	

LCD MONITOR

Type	8.10 cm (3.2") Clear View LCD II, approx. 1620K dots
Coverage	Approx. 100%
Viewing Angle	Approx. 170° vertically and horizontally
(horizontally/vertically)	
Coating	Anti-reflection and Anti-smudge. Reinforced glass incorporated
Brightness Adjustment	Manual: Adjustable to one of seven levels Color Tone Adjument: 4 settings
Touch-screen operations	Capacitive method with menu functions, Quick Control settings, playback operations, and magnified display. AF point selection in Live View and Movies, touch shutter is possible in Live View still photo shooting. (1) Quick Control Screen (2) Camera settings (3) Dual Axis Electronic Level (4) Custom Quick Control Screen

Display Options

FLASH

Modes	E-TTL II Auto Flash, Metered Manual
X-sync	1/200sec
Flash Exposure Compensation	+/- 3EV in 1/3 increments with EX series Speedlites
Flash Exposure Bracketing	Yes, with compatible External Flash
Flash Exposure Lock	Yes
Second Curtain	Yes
Synchronisation	
HotShoe/ PC terminal	Yes / Yes
External Flash Compatibility	E-TTL II with EX series Speedlites, wireless multi-flash support via camera menu screen
External Flash Control	

Technical Specifications

SHOOTING

Modes

Scene Intelligent Auto, Program AE, Shutter priority AE, Aperture priority AE, Manual (Stills and Movie), Bulb and Custom (x3)

Picture Styles

Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)

Colour Space

sRGB and Adobe RGB

Image Processing

Highlight Tone Priority
Auto Lighting Optimizer (4 settings)
Long exposure noise reduction
High ISO speed noise reduction (4 settings)
Lens optical correction⁽³⁾:
- Peripheral illumination correction (during/after still photo shooting, during Video only)
- Chromatic aberration correction (during/after still photo shooting, during Video only)
- Distortion correction (during/after still photo shooting)
- Diffraction correction (during/after still photo shooting)
- Digital Lens Optimizer (during/after still photo shooting)
Resize to M, S1, S2 or S3⁽⁶⁾
Cropping: JPEG images can be cropped (Aspect ratios 3:2, 4:3, 16:9, 1:1)
- 45 cropping sizes selectable, from 11% to 95% (diagonal)
- Switch between vertical and horizontal cropping orientation
- Cropping frame can be moved using touch screen operation
RAW image processing⁽⁷⁾
Multiple exposure
Single, Continuous High, Continuous Low, Silent Single, Silent Continuous High, Silent Continuous Low, Self timer (2s+remote, 10s+remote)
Max. Approx. 7fps. with full AF / AE tracking, speed maintained for up to unlimited number of JPEGs or 21 RAW images^{(1) (2) (10)}
Max. 4.3fps in Live View mode with AF Tracking
Bull-in, number of shots selectable from 1-99 or unlimited (Selectable interval time - 1sec to 99hr 59mins 59sec). Bulb timer possible (Selectable time - 1sec to 99hr 59mins 59sec)

Drive modes

Single, Continuous High, Continuous Low, Silent Single, Silent Continuous High, Silent Continuous Low, Self timer (2s+remote, 10s+remote)

Continuous Shooting

Max. Approx. 7fps. with full AF / AE tracking, speed maintained for up to unlimited number of JPEGs or 21 RAW images^{(1) (2) (10)}

Interval timer

Max. 4.3fps in Live View mode with AF Tracking
Bull-in, number of shots selectable from 1-99 or unlimited (Selectable interval time - 1sec to 99hr 59mins 59sec). Bulb timer possible (Selectable time - 1sec to 99hr 59mins 59sec)

LIVE VIEW MODE

Type

Electronic viewfinder with image sensor

Coverage

Approx. 100% (horizontally and vertically)

Frame Rate

29.97 fps (may increase when AF is performed)

Focusing

Manual Focus (Magnify the image 5x or 10x at any point on screen)
Autofocus: Dual Pixel CMOS AF (Face Detection and Tracking AF, FlexiZone - Single, FlexiZone - Multi), available with all EF lenses and Touch shutter

Metering

Real-time evaluative metering with image sensor (31.5-zone)
Partial metering (approx. 6.3% of Live View screen)
Spot metering (approx. 2.7% of Live View screen)
Center-weighted average metering
Active metering timer can be changed

Display Options

4 levels available through INFO. button: No information, Basic shooting information, Advanced shooting information and Advanced shooting information with Histogram
Multiple Exposure status also available in Multiple Exposure mode

FILE TYPE - Stills

Still Image Type

JPEG: 3 compression options
RAW: RAW, M-RAW, S-RAW and Dual Pixel RAW (14bit, Canon original RAW 2nd edition)
Complies with Exif 2.30 and Design rule for Camera File system 2.0
Complies with Digital Print Order Format [DPOF] Version 1.1
Yes, any combination of RAW + JPEG possible, separate formats to separate cards possible including
Dual Pixel RAW +JPEG

RAW+JPEG simultaneous recording

Image Size

JPEG:

3:2 ratio (L) 6720x4480, (M1) 4464x2976, (S1) 3360x2240, (S2) 1696x1280, (S3) 640x480
4:3 ratio (L) 5952x4480, (M1) 3968x2976, (S1) 2976x2240, (S2) 1920x1280, (S3) 720x480
16:9 ratio (L) 6720x3776, (M1) 4464x2512, (S1) 3360x1888, (S2) 1920x1080, (S3) 720x408
1:1 ratio (L) 4480x4480, (M1) 2976x2976, (S1) 2240x2240, (S2) 1280x1280, (S3) 480x480

RAW:

(RAW) 6720x4480, (M-RAW) 5040x3360, (S-RAW) 3360x2240

New folders can be manually created and selected

(1) Consecutive numbering

(2) Auto reset

(3) Manual reset

Folders

File Numbering

EOS Movie

Movie Type

MOV Video: 4K (17:9) 4096 x 2160 - Motion JPEG (internal recording only), Full HD - MPEG4 AVC / H.264 variable (average) bit rate, Audio: Linear PCM

MP4 Video: Full HD (16:9) 1920 x 1080 - MPEG4 AVC/H.264, Audio: AAC

4K (17:9) 4096 x 2160 (29.97, 25, 24, 23.98 fps) Motion JPEG
Full HD (16:9) 1920 x 1080 (59.94, 50, 29.97, 25, 23.98 fps) intra or inter frame (13)

Full HD (16:9) 1920 x 1080 HDR (29.97, 25 fps) inter frame (13)

Full HD (16:9) 1920 x 1080 (29.97, 25) lite inter frame

HD (16:9) 1280 x 720 (119.9, 100 fps) intra frame

4K - YCbCr4:2:2 (8 bit)

Full HD / HD - YCbCr4:2:0 (8 bit)

4K and Full HD - Max duration 29min 59sec. (excluding High Frame Rate movies). No 4 GB file limit with exFAT CF card
MOV Video: HD - 1280 x 720 at 100fps or 119.9fps

Recorded as 1/4-speed slow motion movie

Single scene maximum recording up to 7 min 29 sec.

8.8 megapixel JPEG still image frame grab from 4K movie possible

MOV:

4K (29.97p/25.00p/24.00p/23.98p): Approx. 500 Mbps

Full HD (59.94p/50.00p)/ALL-I: Approx. 180 Mbps

Full HD (59.94p/50.00p)/IPB Approx. 60 Mbps

Full HD (29.97p/25.00p/24.00p/23.98p)/ALL-I: Approx. 90 Mbps

Mbps

Full HD (29.97p/25.00p/24.00p/23.98p)/IPB (Standard):

Approx. 30 Mbps

HD (119.9p/100.0p)/ALL-I: Approx. 160 Mbps

MP4:

Full HD (59.94p/50.00p)/IPB (Standard): Approx. 60 Mbps

Full HD (29.97p/25.00p/24.00p/23.98p)/IPB (Standard):

Approx. 30 Mbps

Full HD (29.97p/25.00p)/IPB (Light): Approx. 12 Mbps

Built-in monaural microphone (48KHz, 16 bit x 2 ch)

External monitor only, External Monitor only without information display or Simultaneous on camera and external monitor

Full HD recording only, uncompressed YCbCr 4:2:2, 8-bit, sound output via HDMI is also possible

Dual Pixel CMOS AF with Face Detection and Tracking AF, Movie Servo AF

Manual Focus

4K - Auto: 100-12800, H: 25600, H: 32000, H1: 51200,

H2: 102400,

Full HD / HD - Auto: 100-25600, H: 32000, H1: 51200, H2:102400

Microphone

HDMI Display

HDMI Output

Focusing

ISO

Built-in GPS

Geotag Information

Positioning Modes

Longitude, Latitude, Elevation, Coordinated Universal Time
Mode 1: Camera continues to receive GPS signals at regular intervals when power is switched off

Mode 2: GPS is switched off when power is switched off

Intervals of 1 sec., 5 sec., 10 sec., 15 sec., 30 sec., 1 min.,

2 min. or 5 min

Position Update Timing

Technical Specifications

Position Accuracy

Within approx. 30 m/98.4 ft (Based on good GPS satellite reception conditions on a clear day with no surrounding obstructions)

Compatible Satellite Navigation Systems

- GPS satellites (USA)
- GLONASS satellites (Russia)
- Quasi-Zenith Satellite Michibiki (Japan)

Log Files Format Log File Usage

NMEA Format. One log file per day based
Transfer log data to memory card and copy it to a computer
Use Map Utility to append the log file to the images
Not provided

Digital Compass

Not provided

OTHER FEATURES

Custom Functions Metadata Tag

17 Custom Functions with 46 settings
User copyright information (can be set in camera)
Image rating (0-5 stars)
IPTC data (registered with EOS Utility)
Image transfer with caption (Caption registered with EOS Utility)

Yes / Yes

Yes

No

Yes

LCD Panel / Illumination

Water / Dust resistance

Voice Memo

Intelligent Orientation Sensor

Playback zoom

Display Formats

1.5x - 10x in 15 steps

(1) Single image

(2) Single image with information (2 levels)

Basic - Shooting information (shutter speed, aperture, ISO and Image quality)

Detailed - Shooting information (shutter speed, aperture, ISO, metering Image, quality and file size), Lens information, Brightness and RGB histogram, White balance, Picture Style, Color space and noise reduction, Lens optical correction, GPS information

(3) 4 image index

(4) 9 image index

(5) 36 image index

(6) 100 image index

(7) Jump Display (1, 10 or 100 images, Date, Folder, Movies, Stills, Protected images, Rating)

(8) Movie edit

(9) RAW processing

(10) Rating

Slide Show

Image selection: All images, by Date, by Folder, Movies, Stills, Protected images or Rating

Playback time: 1/2/3/5/10 or 20 seconds

Repeat: On/Off

Brightness: Yes

RGB: Yes

Yes

Histogram

Highlight Alert

Image Erase

Image Erase Protection

Self Timer

Menu Categories

Single image, Selected images, Folder, Card

Erase protection of Single image, Folder or Card

2 or 10 sec.

(1) Shooting menu 1 - 6

(2) AF Menu 1 - 5

(3) Playback menu 1 - 3

(4) Setup menu 1 - 5

(5) Custom Functions menu 1 - 5

(6) My Menu (1 - 5 user selectable)

Menu Languages

25 Languages

English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukrainian, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean and Japanese

Firmware Update

Update possible by the user (Camera, Lens, WFT, External Speedlite)

INTERFACE

Computer

WiFi

SuperSpeed USB 3.0

Wireless LAN (IEEE802.11b/g/n), (2.4 GHz only), with Dynamic NFC support ⁽¹²⁾ Features supported - FTP/FTPS, EOS Utility, SmartPhone, Upload to Web, Wireless printing

Other

HDMI mini out (Type C, HDMI-CEC compatible), External Microphone In / Line In (Stereo mini jack), Headphone socket (Stereo mini jack), N3-type terminal (remote control terminal)

DIRECT PRINT

PictBridge

Yes (Via Wireless LAN only)

STORAGE

Type

1x CompactFlash Type I (UDMA 7 compatible)
(Incompatible with Type II and Microdrive)
1x SD/SDHC/SDXC and UHS-I

SUPPORTED OPERATING SYSTEM

PC & Macintosh

Windows 7 (excl. Starter Edition) Windows 8 and Windows 10 OS X v10.7-10.11

SOFTWARE

Image Processing

Digital Photo Professional 4.5 or later (RAW Image Processing)

Other

EOS Utility 3.5 or later (inc. Remote Capture), Picture Style Editor, Map Utility, EOS Lens Registration Tool, EOS Web Service Registration Tool, Canon Camera connect app (iOS/ Android)

POWER SOURCE

Batteries

Battery life

Rechargeable Li-ion Battery LP-E6N (supplied) / LP-E6
Approx. 900 shots (at 23°C) ⁽⁵⁾
Approx. 850 (at 0°C)

Battery Indicator

Power saving

Power Supply & Battery Chargers

6 levels + percentage

Power turns off after 1, 2, 4, 8, 15 or 30mins

Battery charger LC-E6E (supplied), Battery charger LC-E6, AC Adapter AC-E6N and DC Coupler DR-E6, AC Adapter Kit ACK-E6N/ACK-E6, Car Battery Charger CBC-E6

PHYSICAL SPECIFICATIONS

Body Materials

Magnesium Alloy body and polycarbonate with glass fiber Prism cover

Operating Environment

Dimensions (WxHxD)

Weight (body only)

0 - 40 °C, 85% or less humidity

150.7 x 116.4 x 75.9 mm

Approx. 890 g

ACCESSORIES

Viewfinder

EyeCup Eg, Eg-series Dioptic Adjustment Lens with Rubber Frame Eg, Anti Fog Eyepiece Eg, Angle Finder C
Wireless File Transmitter WFT-E7B

Wireless File Transmitter

Lenses

Flash

All EF lenses (excluding EF-S / EF-M lenses)

Canon Speedlites (90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX III 550EX, 580EX, 580EX II, 600EX, 600EX-RT, 600EX-II-RT, Macro-Ring-Lite MR-14EX, Macro Ring Lite MR-14EX II, Macro Twin Lite MT-24EX, Speedlite Transmitter ST-E2, Speedlite Transmitter ST-E3-RT)

Remote Controller/ Switch

Remote control with N3 type contact, Wireless Controller LC-5 and Speedlite 600EX-II-RT

Other

BG-E20 battery grip, Hand Strap E2, Connect Station CS100

Footnotes

⁽¹⁾ Large/Fine resolution

⁽²⁾ Based on Canon's testing conditions, JPEG, ISO 100, Standard Picture Style. Maximum fps and buffer capacity may be reduced depending on the cameras settings, light level, subject, memory card brand and capacity, image recording quality, ISO speed, drive mode, Picture Style, Custom functions etc.

⁽³⁾ Not possible with M-RAW and S-RAW

⁽⁴⁾ with 50mm lens at infinity, -1 m⁻¹ dpt

⁽⁵⁾ Viewfinder shooting. Based on the CIPA Standard and using the battery supplied with the camera, except where indicated

⁽⁶⁾ Frame grab images from 4K movies and images shot in S3 quality cannot be resized

⁽⁷⁾ RAW image processing during image Playback only with RAW and Dual Pixel RAW only

⁽⁸⁾ Recommended Exposure Index

⁽¹⁰⁾ Figures quoted are when used with UDMA 7 Compact flash memory card

⁽¹¹⁾ The number of AF points, cross-type AF points, and dual cross-type AF points vary depending on the lens used

⁽¹²⁾ Wi-Fi use may be restricted in certain countries or regions

All data is based on Canon standard testing methods except where indicated. Subject to change without notice.

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English edition

Canon Europa NV 2016