

Clifton Cameras Product Specification

Canon EOS 5D Mark IV DSLR Camera Full Spec

Specifications in detail

Image Sensor

Type

36 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

Type

DIGIC 6+

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/8¹

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

Exposure Compensation

+/-5 EV in 1/3 or 1/2 stop increments (can be combined with AEB).

AEB

+/-3 EV in 1/3 or 1/2 stop increments

Anti-flicker shooting

Yes. Flicker detected at a frequency of 100 Hz or 120 Hz. Maximum continuous shooting speed may decrease

ISO Sensitivity

Auto 100-32000 (in 1/3-stop or whole stop increments)

ISO can be expanded to L:50, H1: 51200, H2: 102400,²

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)

Shutter Release

Soft touch electromagnetic 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

Custom White Balance

Yes, 1 setting can be registered

WB Bracketing

'+/-3 levels in single level increments
3, 2, 5 or 7 bracketed images per shutter release
Selectable Blue/Amber bias or Magenta/ Green bias

Viewfinder

Type

Pentaprism

Coverage (Vertical/Horizontal)

Approx. 100%

Magnification

Approx. 0.71x³

Eyepoint

Approx. 21mm (from eyepiece lens centre)

Dioptre Correction

-3 to +1 m⁻¹ (dioptré)

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, spot 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

Depth of field preview

Yes, with Depth of Field preview button

Eyepiece shutter

On strap

LCD Monitor

Type

8.10cm (3.2") Clear View LCD II, approx. 1620K dots

Coverage

Approx. 100%

Viewing Angle (horizontally/vertically)

Approx 170° vertically and horizontally

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.

Display Options

- (1) Quick Control Screen
- (2) Camera settings
- (3) Dual Axis Electronic Level
- (4) Custom Quick Control Screen

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 Synchronisation

Yes

HotShoe/ PC terminal

Yes / Yes

External Flash Compatibility

E-TTL II with EX series Speedlites, wireless multi-flash support

External Flash Control

via camera menu screen

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 correction⁴:

- Peripheral illumination correction, Chromatic aberration correction (during/after still photo shooting, during Video only)

- Distortion correction, Diffraction correction, Digital Lens Optimizer (during/after still photo shooting)

Resize to M, S1, S2 or S3⁵

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 processing⁶

Multiple exposure

Drive modes

Single, Continuous High, Continuous Low, Silent Single, Silent Continuous, 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^{7 8 9}

Max. 4.3fps in Live View mode with AF Tracking

Interval timer

Built-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 (315-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

RAW+JPEG simultaneous recording

Yes, any combination of RAW + JPEG possible, separate formats to separate cards possible including Dual Pixel RAW +JPEG

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

Folders

New folders can be manually created and selected

File Numbering

(1) Consecutive numbering

(2) Auto reset

(3) Manual reset

EOS Movie

Movie Type

MOV Video: 4K (17:9) 4096 x 2160 - Motion JPEG (internal recording only)¹⁰, Full HD, 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

Movie Size

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

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

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

Colour Sampling (Internal recording)

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

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

Movie Length

4K and Full HD - Max duration 29min 59sec. (excluding High Frame Rate movies). No 4GB file limit with exFAT CF card

High Frame Rate Movie

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 7min 29sec.

4K Frame Grab

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

Bitrate / Mbps

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

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

Microphone

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

HDMI Display

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

HDMI Output

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

Focusing

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

Manual Focus

ISO

4K - Auto: 100-12800, H: 25600, H: 32000, H1: 51200, H2: 102400,

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

Built-In GPS

Geotag Information

Longitude, Latitude, Elevation, Coordinated Universal Time

Positioning Modes

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

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

NMEA Format. One log file per day based

Log File Usage

Transfer log data to memory card and copy it to a computer

Use Map Utility to append the log file to the images

Digital Compass

Not provided

Other Features

Custom Functions

17 Custom Functions with 46 settings

Metadata Tag

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)

LCD Panel / Illumination

Yes / Yes

Water/ Dust resistance

Yes

Voice Memo

No

Intelligent Orientation Sensor

Yes

Playback zoom

1.5x - 10x in 15 steps

Display Formats

(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

Histogram

Brightness: Yes

RGB: Yes

Highlight Alert

Yes

Image Erase

Single image, Selected images, Folder, Card

Image Erase Protection

Erase protection of Single image, Folder or Card

Self Timer

2 or 10 sec.

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

SuperSpeed USB 3.0

Wi-Fi

Wireless LAN (IEEE802.11b/g/n), (2.4 GHz only), with Dynamic NFC support¹¹ 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 SP1 (excl. Starter Edition), Windows 8.1 and Windows 10
OS X v10.9-10.11

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

Rechargeable Li-ion Battery LP-E6N (supplied) / LP-E6

Battery life

Approx. 900 shots (at 23°C)¹²

Approx. 850 (at 0°C)

Battery Indicator

6 levels + percentage

Power saving

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

Power Supply & Battery Chargers

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

Accessories

Viewfinder

Eyecup Eg, Eg-series Dioptic Adjustment Lens with Rubber Frame Eg, Anti Fog Eyepiece Eg, Angle Finder C

Wireless File Transmitter

Wireless File Transmitter WFT-E7B

Lenses

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

Flash

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

All data is based on Canon standard testing methods except where indicated.



1. The number of AF points, cross-type AF points, and dual cross-type AF points vary depending on the lens used
2. Recommended Exposure Index
3. with 50mm lens at infinity, -1m-1 dpt
4. Not possible with M-RAW and S-RAW
5. Frame grab images from 4K movies and images shot in S3 quality cannot be resized
6. RAW image processing during image Playback only with RAW and Dual Pixel RAW only
7. Large/Fine resolution
8. 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.
9. Figures quoted are when used with UDMA 7 Compact flash memory card
10. Minimum card write speed required for 4K 30p recording: CF UDMA 7 – 100MB/sec, SD UHS-1 – 90MB/sec or higher
11. Wi-Fi use may be restricted in certain countries or regions
12. Viewfinder shooting. Based on the CIPA Standard and using the battery supplied with the camera, except where indicated