

EOS-1D X Mark II





CHALLENGE WHAT'S POSSIBLE

EOS-1D X Mark II, the new flagship DSLR engineered to put the ultimate combination of image quality, resolution and speed in the palm of your hand. Featuring a new 20.2 MP full frame CMOS sensor and new AI Servo AF III+, as well as 4K video capture up to 60p. This blend of power and performance makes the camera an essential companion for virtually all professional specialisms.

Low Light Image Quality

Boasting a wide and versatile ISO range – an incredible 100 to 51200, expandable from 50 up to 409600 – the EOS-1D X Mark II excels in all lighting environments. The EOS-1D X Mark II can capture subjects with exceptional image quality thanks to a new 20.2MP CMOS sensor.

4K Video Capture

Canon's heritage in 4K movies culminates in the EOS-1D X Mark II, giving film-makers the option of shooting 4K (4096x2160) in a variety of frame rates up to 60fps to the CFast 2.0™ card.

Speed and Performance

Crafted to give photographers a competitive edge from the second they shoot, the EOS-1D X Mark II establishes a new benchmark for speed – shooting 14 frames per second (fps) with full AF/AE tracking and 16 fps in Live View mode – ideal for capturing high-speed subjects, whether in the wild, or at world-class sporting events.

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EOS-1D X Mark II

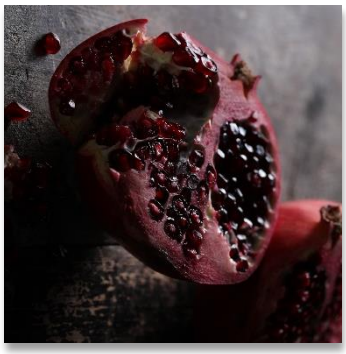
Challenge Whats Possible

Up to 14.0 Frames Per Sec



Breaking the boundaries of high speed shooting, the EOS-1D X Mark II is able to shoot 14 frames per second with full AF/AE tracking and in RAW, equipping you to capture the exact moment of a sporting event, or a burst of emotion

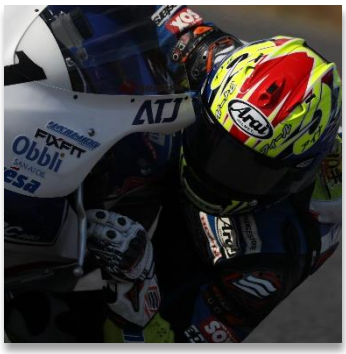
ISO 51200



Boasting a wide and versatile ISO range – an incredible 100 to 51200, expandable from 50 up to 409600 – the EOS-1D X Mark II excels in all lighting environments, from the brightest through to near darkness

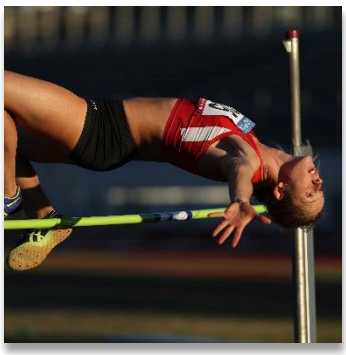
Max. 61 point

High Density Reticular AF II



The EOS-1D X Mark II features a 61-Point High Density Reticular AF II system with 41 cross-type AF points, which covers an expanded area and focuses under low light up to -3EV

DiG!C 6+ DUAL



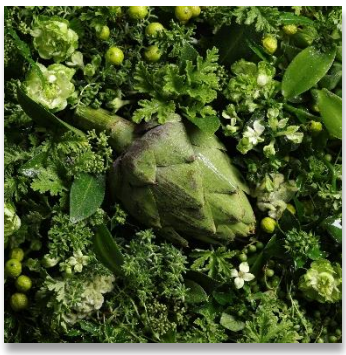
The EOS-1D X Mark II is the most responsive EOS DSLR to date, thanks in part to the new Dual "DIGIC 6+" processors providing high-speed processing of the vast image data captured by the sensor

EOS Movie 4K+FULL HD



Canon's heritage in 4K movies culminates in the EOS-1D X Mark II, giving film-makers the option of shooting 4K (4096x2160) in a variety of frame rates up to 60fps to the CFast 2.0™ card

20.2 MEGA PIXELS CMOS



Capture subjects with exceptional image quality with a new 20.2MP CMOS sensor

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Approx. 100% Viewfinder

Intelligent Viewfinder II with approx 100% frame coverage lets photographers shoot & change settings whilst looking through the viewfinder so you wont need to take your eyes off the action

4K Frame Grab

Decisive moments from a 60fps 4K scene can be extracted as a high resolution 8.8MP still, giving you even more control over the exact moment of capture

GPS

Built-in GPS records shooting locations in EXIF data, helping pros keep an accurate record of their shoots. Both Ethernet wired LAN and SuperSpeed USB 3.0 give you the choice of how images are shared – via FTP or direct to computers.

360,000 PIXEL RGB+IR Metering sensor

A new 360,000 pixel RGB metering sensor with infra-red sensitivity ensures that images are correctly exposed under a range of lighting conditions, even if the light source flickers

Multiple Exposure

In camera Multiple Exposure modes that mimic the multiple exposure effects available with film cameras while providing additional, exclusively digital options

120p High Frame Rate FULL HD Movie

The EOS-1D X Mark II supports Full HD (1920x1080p) movie shooting at an incredible 120fps, ideal for slow motion scenes

Dual Pixel CMOS AF

Film-makers can enjoy fast and smooth AF in 4K and Full HD shooting thanks to Canon's Dual Pixel CMOS AF technology and Movie Servo AF, while the touch panel LCD enables you to quickly select AF points when shooting movies.

Up to 16.0 Frames Per Sec LiveView Mode

The EOS-1D X Mark II can shoot up to 16fps in Live View mode without AF. With the new CFast 2.0™ card capability, the camera can deliver a burst of unlimited JPEGs or 170 RAW images in continuous high speed shooting

CF + CFast Dual Card Slots

A CFast 2.0™ card slot supports high speed recording and is used to enable 16 fps still image shooting, as well as 4K/60P and Full HD/120P recording.

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Technical Specifications

EOS-1D X Mark II

IMAGE SENSOR	
Type	35.9 x 23.9 mm CMOS
Effective Pixels	Approx. 20.2 megapixels
Total Pixels	Approx. 21.5 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	Dual "DIGIC 6+"
LENS	
Lens Mount	EF (excludes EF-S 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 Servo AF (AI Servo AF III+)
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: Sngle 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	Superimposed 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
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. 360,000-pixel RGB+IR metering sensor, 216-zone metering. EOS Intelligent Subject Analysis system (1) Evaluative metering (linked to All AF point) (2) Partial metering (approx. 6.2% of viewfinder at centre) (3) Spot metering: Center spot metering (approx. 1.5% viewfinder at centre) AF point-linked spot metering Multi-spot metering (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 (8)	Auto 100-51200 (in 1/3-stop or whole stop increments) ISO can be expanded to L:50, H1: 102400, H2: 204800, H3: 409600

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 (Ambeince 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, 5 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. .76x(4)
Eyepoint	Approx. 20mm (from eyepiece lens centre)
Dioptre Correction	-3 to +1 m-1 (dioptre)
Focusing Screen	Interchangeable. Standard Focusing Screen Ec-C6 provided. Can be changed to Ec-A, B or L
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+). Composition information: Grid, Electronic level Other information: Battery check, Warning symbol, Flicker Detection, drive mode, white balance, JPEG/RAW indicator
Depth of field preview	Yes, with Depth of Field preview button
Eyepiece shutter	Built-in
LCD MONITOR	
Type	8.11cm (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
Touch-screen operations	Capacitive method. During Live View shooting and Movie shooting for AF Point Selection / Switching and for Magnified View. Touch-screen can be disabled
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	1/250sec
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

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Technical Specifications

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SHOOTING	
Modes	Program AE , Shutter priority AE, Aperture priority AE, Manual (Stills and Movie), Bulb, 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 - Chromatic aberration correction - Distortion correction (during/after still photo shooting) - Diffraction correction (during/after still photo shooting) - Digital Lens Optimizer (after still photo shooting) Resize to M1, M2 or S (6) Cropping: JPEG images can be cropped (Aspect ratio is fixed - 3:2 or 2:3) - 41 cropping sizes selectable, from 13% 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
Drive modes	Single, Continuous High, Continuous Low, Silent single, Silent Continous High, Silent Continuous Low, Self timer (2s+remote, 10s+remote)
Continuous Shooting	Max. Approx. 14fps. with full AF / AE tracking, speed maintained for up to unlimited number of JPEGs or 170 RAW images, with CFast 2.0™ card (1) (2) (10) Max. 16fps in Live View mode with mirror locked up and exposure and AF locked on first frame

LIVE VIEW MODE	
Type	Electronic viewfinder with image sensor
Coverage	Approx. 100% (horizontally and vertically)
Frame Rate	29.97 fps
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), available with all EF lenses
Metering	Real-time evaluative metering with image sensor (315-zone) Partial metering (approx. 6.5% of Live View screen) Spot metering (approx. 2.8% of Live View screen) Center-weighted average metering Active metering timer can be changed
Display Options	3 levels available through INFO. button: No information, Basic shooting information, Histogram Multiple Exposure status also avaible in Multiple Exposure mode

FILE TYPE - STILLS	
Still Image Type	JPEG: 10 compression options RAW: RAW, M-RAW, S-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
Image Size	JPEG: (L) 5472x3648, (M1) 4368x2912, (M2) 3648x2432, (S) 2736x1824 RAW: (RAW) 5472x3648, (M-RAW) 4104x2736, (S-RAW) 2736x1824
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 - Motion JPEG (internal recording only), Full HD - MPEG4 AVC / H.264 variable (average) bit rate, Audio: Linear PCM MP4 Video: Full HD - MPEG4 AVC/H.264, Audio: AAC
Movie Size	4K (17:9) - 4096 x 2160 Full HD (16:9) - 1920 x 1080
Frame Rate	119.9p/59.94p/29.97p/24.00p/23.98p (with NTSC) 100.0p/50.00p/25.00p/24.00p (with PAL) 119.9p/100.0p in Full HD quality High Frame Rate movie only

EOS MOVIE	
Colour Sampling (Internal recording)	4K - YCbCr4:2:2 (8 bit) Full 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 or CFast card
High Frame Rate Movie	MOV Video: Full HD - 1920 x 1080 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 (59.94p/50.00p): Approx. 800 Mbps 4K (29.97p/25.00p/24.00p/23.98p): Approx. 500 Mbps Full HD (119.9p/100.0p)/ALL-I: Approx. 360 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 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, H1: 51200, H2: 102400, H3: 204800 Full HD - Auto: 100-25600, H: 51200, H1: 102400, H2: 204800

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 Update Timing	Intervals of 1 sec., 5 sec., 10 sec., 15 sec., 30 sec., 1 min., 2 min. or 5 min.
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	34 Custom Functions with 104 settings
Metadata Tag	User copyright information (can be set in camera) Image rating (0-5 stars) Image transfer with caption (Caption registered with EOS Utility)
LCD Panel / Illumination	Yes / Yes
Water/ Dust resistance	Yes
Voice Memo	Up to 30sec per image - 48Khz/16 Bit or 8Khz/8 Bit
Intelligent Orientation Sensor	Yes
Playback zoom	1.5x - 10x

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Technical Specifications

EOS-1D X Mark II

OTHER FEATURES	
Display Formats	(1) Single image (2) Single image with information (2 levels - Basic and Detailed) Lens information 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) 100image 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, 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 Categories	(1) Shooting menu 1 - 6 (2) AF Menu 1 - 5 (3) Playback menu 1 - 3 (4) Setup menu 1 - 4 (5) Custom Functions menu 1 - 8 (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	SuperSpeed USB 3.0
Other	HDMI mini out (Type C, HDMI-CEC compatible), System Extension Terminal (for WFT-E8 and WFT-E6), External Microphone In / Line In (Stereo mini jack), Headphone socket (Stereo mini jack), RJ-45 (gigabit ethernet), N3-type terminal (remote control terminal)

DIRECT PRINT	
Canon Printers	Canon Compact Photo Printers and PIXMA Printers
PictBridge	Yes

STORAGE	
Type	1x CompactFlash Type I (UDMA 7 compatible) (Incompatible with Type II and Microdrive) 1x CFast 2.0™

SUPPORTED OPERATING SYSTEMS	
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 (RAW Image Processing)
Other	EOS Utility 3 (inc. Remote Capture), Picture Style Editor

POWER SOURCE	
Batteries	Rechargeable Li-ion Battery LP-E19 (supplied) / LP-E4N / LP-E4
Battery life	Approx. 1210 shots (at 23° C) (5) Approx. 1020 (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-E19 (supplied), AC Adapter AC-E19, DC Coupler DC-E19, AC Adapter kit ACK-E4

ACCESSORIES	
Viewfinder	Eyecup Eg, Eg-series Dioptric Adjustment Lens with Rubber Frame Eg, Anti Fog Eyepiece Eg, Angle Finder C
Wireless File Transmitter	Wireless File Transmitter WFT-E8 Wireless File Transmitter WFT-E6
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, 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-RT
Other	Hand Strap E2, Connect Station CS100

PHYSICAL SPECIFICATIONS	
Body Materials	Magnesium Alloy body covers
Operating Environment	0 – 45 ° C, 85% or less humidity
Dimensions (WxHxD)	158 x 167.6 x 82.6mm
Weight (body only)	Approx. 1340 g

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

1 Large/Fine(Quality 8) 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, -1m-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 S quality cannot be resized

7 RAW image processing during image Playback only

8 Recommended Exposure Index

10 Figures quoted are when used with CFast 2.0™ cards

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

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