

# EOS Ra The Full Frame Mirrorless Camera For Astrophotography

The EOS Ra has been created to enhance transmission of H $\alpha$  rays (wavelength 656.28 nm), making it roughly four times more sensitive than the EOS R to capture high-precision images of the deep-red wavelengths emitted by nebulae, without any special camera alterations.







### **EOS Ra**







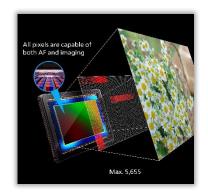
A 30.3 megapixel Full Frame Canon CMOS sensor delivers incredible image quality and detail from highlights and shadows

#### OLED **EVF** 3,690,000 dots



Never take your eyes off the shot thanks to a 3.69 million dot 0.5" OLED Electronic viewfinder which is designed for more immersive shooting

# **Dual Pixel** AF



Canon's Dual Pixel CMOS AF delivers
Auto Focus in as little as 0.05 secs
with 5655 available AF point
positions. Plus, experience smooth AF
transitions and exceptional tracking
performance in 4K movie mode.







Bluetooth maintains a connection with your phone after initial pairing and switches smartly to Wi-Fi for image download or remote shooting via the Canon Camera Connect app





The high resolution 2.1 million dot, 3.15" vari-angle LCD screen with full touch control, helps you find new angles, review images and control auto focus with ease





Capture cinematic 4K 30p movies with Canon Log and 10-bit output via HDMI in 4K with 4:2:2 compression for flexible editing and easy colour matching with Cinema EOS cameras.



## TECHNICAL SPECIFICATIONS

EOS Ra Specifications	
Туре	Digital single long very seffers AE/AE
Type:	Digital single-lens non-reflex AF/AE camera
Recording media:	SD/SDHC/SDXC memory card
	* UHS-II and UHS-I cards supported.
Image sensor size:	Approx. 36.0x24.0 mm
Compatible lenses:	Canon RF and EF lens product groups
	* EF/EF-S lenses supported with a mount adapter attached (EF-M lenses not supported)
Effective angle of view:	With RF/EF lenses: Approximately equivalent to the indicated focal length
	With EF-S lenses: Approx. 1.6 times the indicated focal length
Lens mount:	Canon RF mount
Image Sensor	
Type:	CMOS sensor (supports Dual pixel CMOS AF)
F"	Approx. 30.3 megapixels
Effective pixels:	* Rounded to the nearest 100,000.
Astrophotography Features:	Enhanced transmission of Hα rays (wavelength 656.28 nm)
Aspect ratio:	3:02
Dust deletion:	Auto/Manual, Appending Dust Delete Data
Recording System	
Recording format:	Design rule for Camera File System (DCF) 2.0
lmage type:	JPEG, RAW (CR3, a Canon 14-bit RAW format)
Image type:	RAW+JPEG simultaneous recording possible
	L (Large): Approx. 30.1 megapixels (6720x4480)
	M (Medium): Approx. 13.3 megapixels (4464x2976)
	S1 (Small 1): Approx. 7.5 megapixels (3360x2240)
Pixels recorded:	S2 (Small 2): Approx. 3.8 megapixels (2400x1600)
	RAW: Approx. 30.1 megapixels (6720x4480)
	C-RAW: Approx. 30.1 megapixels (6720x4480)
	* Rounded to the nearest 100,000.
Dual Pixel RAW setting:	Available
Crop/aspect ratio:	Cropped shooting and an aspect ratio can be set: Full-frame, Approx. 1.6x (crop), 1:1 (aspect ratio), 4: (aspect ratio), 16:9 (aspect ratio)
Folder creation and	Available
selection: File name:	Preset code, User setting 1, User setting 2
File numbering:	Continuous, Auto reset, Manual reset
Image Processing Durir	, ,
image i rocessing burn	
Picture Style:	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined 1–3
White balance:	Auto (Ambience priority), Auto (White priority), Press (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx. 2500–10000 K)
vviille Balariee.	White balance correction and white balance bracketing features provided
	*Flash color temperature information transmission possible
Automatic image	Auto Lighting Optimizer provided
brightness correction:	Applicable to high ISO speed shots and long
Noise reduction:	exposures
Highlight tone priority:	Available
Lens aberration correction:	Peripheral illumination correction, Distortion correction, Digital Lens Optimizer, Chromatic aberration correction, Diffraction correction

Autofocus	
Focus method:	Dual pixal CMOS AF
AF method:	Dual pixel CMOS AF  Face+Tracking, 1-point AF, Expand AF area (vertically/horizontally), Expand AF area (around), Zone AF, Large Zone AF (vertical), Large Zone AF (horizontal)
Available AF point positions:	Max. 5,655
Available AF point positions: Available AF areas when	Max.143
automatically selected: Touch & drag AF:	
	Available
Magnified view:	Approx. 5x/10x
Focus distance display: Manual focus (MF):	With RF lenses MF peaking, focus guide
[Still photo shooting]	wii peaking, locus guide
AF operation:	One-Shot AF, Servo AF
Auto AF operation switching:	menu
Eye Detection AF:	Available
Continuous AF:	Available
	Horizontal: Approx. 88%, Vertical: Approx. 100%
AF area:	Horizontal: Approx. 80%, Vertical: Approx. 80%  * Varies depending on factors such as the lens
	and aspect ratio used  EV -6 to 18 (at room temperature, ISO 100, One-
Focusing brightness range:	Shot AF)
Servo AF characteristics:	Tracking sensitivity, Acceleration/deceleration tracking, and AF point auto switching
AF-assist beam:	Built-in LED lamp
[Movie recording]	
AF area:	[4K] Horizontal: Approx. 80%, Vertical: Approx. 100% [Full HD/HD] Horizontal: Approx. 88%, Vertical:
Focusing brightness range:	Approx. 100%  EV -4 to 18 (at room temperature, ISO 100, One-
Movie Servo AF:	Shot AF) Available
Movie Servo AF	
characteristics:	Tracking sensitivity, AF speed
Exposure Control	
	Real-time metering using the image sensor
	384-zone (24x16) metering
	Still photo shooting:  - Evaluative metering (linked to all AF points)
	· Partial metering (approx. 6.1% of screen, at center)
Metering mode:	· Spot metering (approx. 2.7% of screen, at center)
	· Center-weighted average metering
	Movie recording:
	Center-weighted average and Evaluative metering with the image sensor
	* Automatically set by the focus method
	Still photo shooting: EV -3 to 20 (at room temperature, ISO 100)
Focusing brightness range:	Movie recording: EV -1 to 20 (at room temperature, ISO 100, center-weighted average metering)
Shutter:	Electronically-controlled, focal-plane shutter
Shutter speed:	1/8000 sec. to 30 sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/200 sec.
	* Setting range differs when recording movies

# TECHNICAL SPECIFICATIONS

Exposure Control (	continued)
	Still photo shooting:
Shooting mode:	Scene Intelligent Auto, Flexible-priority AE, Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure, Custom shooting modes (C1/C2/C3)
	Movie recording:
	Scene Intelligent Auto, Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Custom shooting modes (C1/C2/C3)
	Still photo shooting:
	Scene Intelligent Auto: Automatically set within ISO 100–12800
	Fv/P/Tv/Av/M/BULB: ISO Auto, manually set within ISO 100–40000 (in 1/3- or 1-stop increments), expandable to L (equivalent to ISO 50), H1 (equivalent to ISO 51200), or H2 (equivalent to ISO 102400)
	* With highlight tone priority set, the minimum limit will be ISO 200.
	Movie recording:
	[4K]
	Scene Intelligent Auto: Automatically set within ISO 100–12800
ISO speed (recommended	P/Tv/Av: Automatically set within ISO 100–12800, expandable to H2 (equivalent to ISO 102400)
(recommended exposure index):	M: ISO Auto (automatically set within ISO 100–12800), manually set within ISO 100–12800 (in 1/3- or 1-stop increments), expandable to H2 (equivalent to ISO 102400)
	[Full HD/HD]
	Scene Intelligent Auto: Automatically set within ISO 100–25600
	P/Tv/Av: Automatically set within ISO 100–25600, expandable to H2 (equivalent to ISO 102400)
	M: ISO Auto (automatically set within ISO 100–25600), manually set within ISO 100–25600 (in 1/3- or 1-stop increments), expandable to H2 (equivalent to ISO 102400)
	* With highlight tone priority set, the minimum limit will be ISO 200
	* Setting range differs when recording time-lapse movies
	Still photo shooting:
ISO apped pottings:	ISO speed range, Auto range, Minimum shutter speed
ISO speed settings:	Movie recording:
	ISO speed range, Range for 4K, ISO Auto, 4K ISO Auto, Time-lapse ISO Auto
	Still photo shooting:
Exposure	Manual: ±3 stops in 1/3- or 1/2-stop increments AEB: ±3 stops in 1/3- or 1/2-stop increments (can be
compensation:	combined with manual exposure compensation)
	Movie recording: ±3 stops in 1/3- or 1/2-stop increments Still photo shooting:
AE lock:	Auto: AE lock when focus is achieved can be enabled or disabled for each metering mode with a Custom Function
	Manual: With AE lock button
	Movie recording: With AE lock button
Flicker reduction:	Available in still photo shooting
Bulb timer:	Bulb exposure time settable
HDR shooting:	Dynamic range adjustment: Auto, ±1, ±2, ±3  Effects: Natural, Art standard, Art vivid, Art bold, Art embossed
	Auto image alignment: Available
NA IC. I	Shooting options: Function/control priority, Continuous shooting priority
Multiple exposures:	Number of multiple exposures: 2 to 9 exposures
	Multiple-exposure control: Additive, Average, Bright, Dark
Silent shutter:	Available
Touch shutter:	Available
Av 1/8-stop	Available in movie recording

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Drive System	
Drive mode:	Single shooting, High-speed continuous shooting, Low- speed continuous shooting, Self-timer: 10 sec./remote
	control, Self-timer: 2 sec./remote control High-speed continuous shooting: Max. approx. 8.0 shots/sec.
	* Lower continuous shooting speed when reducing flicker, when set to Dual Pixel RAW or Servo AF, or during flash
Continuous shooting speed:	photography.  * The continuous shooting speed for high-speed continuous shooting may be lower, depending on conditions such as these: battery level, temperature, flicker reduction, Dual Pixel RAW shooting, Silent LV shooting, shutter speed, aperture, subject conditions, brightness, AF operation, type of lens, use of flash, and shooting settings.
	Low-speed continuous shooting: Max. approx. 3.0 shots/sec.  JPEG Large/Fine: Approx. 100 shots (Approx. 100 shots)
	RAW: Approx. 34 shots (Approx. 47 shots) RAW+JPEG Large/Fine: Approx. 34 shots (Approx. 39
Max. burst:	shots)  * Measured under conditions and with an SD card conforming to Canon testing standards (32 GB standard/UHS-II card, High-speed continuous shooting, Full-frame still photo cropping/aspect ratio, ISO 100, without Dual Pixel RAW, Standard Picture Style).  * Figures in parentheses are the number of shots when a
High and disaless	Canon's standard testing UHS-II SD card is used.
High-speed display: External Speedlite	Available
Compatible	EL/EV : 0 III
Speedlites:	EL/EX series Speedlites
Flash metering:	E-TTL II autoflash
Automatic firing:	Available with Speedlites equipped with this feature
Safety FE:	Available
Flash exposure	±3 stops in 1/3- or 1/2-stop increments
compensation:	· ·
FE lock:	Available
Continuous shooting	Available with Speedlites equipped with this feature
priority mode: PC terminal:	Not provided
Flash control:	Flash function settings, Flash Custom Function settings
Flash control: Movie Recording	
Flash control:	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate
Flash control:  Movie Recording  Recording format:  Video:	Flash function settings, Flash Custom Function settings MP4
Flash control:  Movie Recording  Recording format:	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC
Flash control:  Movie Recording  Recording format:  Video:	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)
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Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance requirements	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 30 Mbps/UHS-I, UHS Speed Class 3 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance requirements (writing/reading	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 30 Mbps/SD Speed Class 4 or higher  Full HD (29.97p/25.00p/25.00p/Light (IPB)
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance requirements (writing/reading	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 30 Mbps/UHS-I, UHS Speed Class 3 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance requirements (writing/reading	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 30 Mbps/SD Speed Class 4 or higher  Full HD (29.97p/25.00p/Light (IPB)  : Approx. 12 Mbps/SD Speed Class 4 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance requirements (writing/reading	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 30 Mbps/DD Speed Class 4 or higher  Full HD (29.97p/25.00p)/Light (IPB)  : Approx. 12 Mbps/SD Speed Class 4 or higher  Full HD (19.9p/100.0p)/For editing (ALL-I)  : Approx. 160 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (19.9p/100.0p)/For editing (ALL-I)  : Approx. 160 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 160 Mbps/UHS-I, UHS Speed Class 3 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance requirements (writing/reading	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 30 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 30 Mbps/SD Speed Class 4 or higher  Full HD (29.97p/25.00p/124.00p/23.98p)/Standard (IPB)  : Approx. 12 Mbps/SD Speed Class 4 or higher  Full HD (29.97p/25.00p/124.00p/23.98p)/Standard (IPB)  : Approx. 12 Mbps/SD Speed Class 4 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 160 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 160 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 10 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance requirements (writing/reading	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 30 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 30 Mbps/SD Speed Class 4 or higher  Full HD (29.97p/25.00p)/Light (IPB)  : Approx. 12 Mbps/SD Speed Class 4 or higher  Full HD (29.97p/25.00p)/Light (IPB)  : Approx. 160 Mbps/UHS-I, UHS Speed Class 3 or higher  Full (19.9p4)/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 10 or higher  HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 10 or higher  HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 10 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance requirements (writing/reading	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 30 Mbps/SD Speed Class 4 or higher  Full HD (29.97p/25.00p)/Light (IPB)  : Approx. 12 Mbps/SD Speed Class 4 or higher  HD (119.9p/100.0p)/For editing (ALL-I)  : Approx. 160 Mbps/UHS-I, UHS Speed Class 3 or higher  HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 10 or higher  HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 10 or higher  HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 4 or higher  HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 4 or higher  HD (59.94p/50.00p)/Standard (IPB)  : Approx. 80 Mbps/SD Speed Class 4 or higher
Flash control:  Movie Recording Recording format: Video: Audio:  Movie recording size:  Frame rate:  Compression method:  Bit rate/Card performance requirements (writing/reading	Flash function settings, Flash Custom Function settings  MP4  MPEG-4 AVC/H.264, variable (average) bit rate  For editing (ALL-I): linear PCM  Standard (IPB), Light (IPB): AAC  4K (3840x2160), Full HD (1920x1080), HD (1280x720)  High Frame Rate movies: HD  HDR movies:  With RF/EF lenses: Full HD  With EF-S lenses and movie cropping: HD  Time-lapse movies: 4K/Full HD  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 used for High Frame Rate movies  For editing (ALL-I), Standard (IPB), Light (IPB)  4K (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 480 Mbps/UHS-II, Video Speed Class 60 or higher  4K (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 120 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 180 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (59.94p/50.00p)/Standard (IPB)  : Approx. 60 Mbps/SD Speed Class 10 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 90 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/For editing (ALL-I)  : Approx. 30 Mbps/UHS-I, UHS Speed Class 3 or higher  Full HD (29.97p/25.00p/24.00p/23.98p)/Standard (IPB)  : Approx. 30 Mbps/SD Speed Class 4 or higher  Full HD (29.97p/25.00p)/Light (IPB)  : Approx. 12 Mbps/SD Speed Class 4 or higher  Full HD (29.97p/25.00p)/Light (IPB)  : Approx. 160 Mbps/UHS-I, UHS Speed Class 3 or higher  Full (19.9p4)/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 10 or higher  HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 10 or higher  HD (59.94p/50.00p)/For editing (ALL-I)  : Approx. 80 Mbps/SD Speed Class 10 or higher

#### TECHNICAL SPECIFICATIONS

Movie Recording	j (cont)	
	Built-in stereo mics, external stereo mic jack provided	
Sound recording:	Sound-recording level adjustable, wind filter provided,	
	attenuator provided	
Headphone:	Headphone terminal provided, volume adjustable	
Cropped movies: Movie digital IS:	Available Available (Enable/Enhanced)	
HDR movies:	Available	
Time-lapse movie		
Time code:	Can be appended	
Canon Log:	Available for card recording (when set to 8-bit) and HDMI output (when set to 8-bit/10-bit)	
HDMI output:	Image output without information display available * 4K output supported; Auto/1080p selectable	
Remote control sh	nooting: Available	
Still photo shooting	g: Not available during movie recording	
Screen		
Type: Screen size and d	TFT color, liquid-crystal monitor Approx. 8.01 cm (3.15 in.) (3:2) with approx. 2.1 million	
Field of view (cove	dots Still photo shooting: Approx. 100% vertically/horizontally erage): (when set to JPEG Large)	
	Movie recording: Approx. 100% vertically/horizontally Opening: Approx. 0–175°	
Angular adjustmer		
Brightness adjustr		
Color adjustment:	Warm tone, Standard, Cool tone 1, Cool tone 2	
Display performan		
Interface language Touch-screen pan		
Viewfinder	ioi.  Oapaoiiive serisiiiy	
Type:	OLED color electronic viewfinder	
Screen size and d	dots: 0.5-inch (4:3) with approx. 3.69 million dots Still photo shooting: Approx. 100% vertically/horizontally	
Field of view (cove	erage): (eyepoint: approx. 23 mm; set to JPEG Large) Movie recording: Approx. 100% vertically/horizontally	
Magnification: Eyepoint:	Approx. 0.76x (-1 m <sup>-1</sup> with 50mm lens at infinity) Approx. 23 mm (from eyepiece lens center at -1 m <sup>-1</sup> )	
Dioptric adjustmer range:	Approx4.0 to +2.0 m <sup>-1</sup> (dpt)	
Brightness adjustr	ment: Manual (5 levels)	
Color adjustment:	Warm tone, Standard, Cool tone 1, Cool tone 2	
Playback Image display format:	Single-image display (without shooting information), Single-image display (with basic information), Single-image display (Shooting information displayed: Detailed information, Lens/histogram, White balance, Picture Style 1, Picture Style 2, Color space/noise reduction, Lens aberration correction 1, Lens aberration correction 2, Image transfer information, GPS information, IPTC information), Index display (4/9/36/100 images)	
l Cala Cala A a la ata	* Customizable shooting information display	
Highlight alert: AF point display:	Overexposed highlights blink Available	
Grid display:	3 types	
Magnified view:	Approx. 1.5x–10x, initial magnification and position settable	
Image search:	Search conditions settable (by rating, date, folder, protected, file	
Image browsing	type)  1 image, 10 images, Specified number, Date, Folder, Movies,	
method:	Stills, Protect, Rating	
Image rotation:	Available	
Image protection:		
Rating:	Available	
Movie playback: Start/end movie	Available	
scene editing:	Available	
4K movie frame grab:	Extraction of specified movie frames and saving as JPEG images	
Slide show:	All images or images matching the search conditions are played back automatically.	
In-camera RAW image processing:	RAW and C-RAW image processing possible Brightness adjustment, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image- recording quality, Color space, Lens aberration correction (Peripheral illumination correction, Distortion correction, Digital Lens Optimizer, Chromatic aberration correction, Diffraction correction)	
	correction)	
Resizing:	correction) Available	
Resizing: Cropping: Print ordering:	·	

Customization Features	
Custom Functions:	19 functions, customization of button, dial, and M-Fn bar operation
Custom shooting modes:	Still photo C1/C2/C3 modes, movie C1/C2/C3 modes
My Menu:	Up to 5 screens can be registered
Copyright information:	Text entry and appending possible
IPTC information: Interface	Can be appended
	SuperSpeed USB (USB 3.1 Gen 1) equivalent, USB
Digital terminal:	Type-C Computer communication, charging with USB Power Adapter PD-E1
HDMI mini OUT terminal:	Type C (auto switching of resolution)
External microphone IN terminal:	3.5 mm diameter stereo mini-jack Directional Stereo Microphone DM-E1 or commercially-available external microphone connectable
Remote control terminal:	Compatible with Remote Switch RS-60E3
Wireless remote control:	Compatible with Wireless Remote Control BR- E1 (via Bluetooth)
Wireless Features	,
[Wi-Fi]	IEEE 000 445 /c/c
Standards compliance:	IEEE 802.11b/g/n DS-SS modulation (IEEE 802.11b), OFDM
Transmission method:	modulation (IEEE 802.11g/n)
Transmission frequency (central frequency):	Frequency: 2412 to 2462 MHz
	Channels: 1–11  Camera access point mode, infrastructure*
Connection method:	* Wi-Fi Protected Setup supported
Security:	Authentication method: Open system, Shared key, WPAWPA2-PSK Encryption: WEP, TKIP, AES
Compatible devices/services:	Smartphones, computers, Wi-Fi printers, Web
[Bluetooth]	services
Standards compliance:	Bluetooth Specification Version 4.1 compliant (Bluetooth low energy technology)
Transmission method:	GFSK modulation
Compatible devices:	
	GFSK modulation Smartphones, wireless remote controls  Battery Pack LP-E6N/LP-E6, quantity 1  *AC power usable with household power outlet accessories.  *USB Power Adapter PD-E1 enables in-camera
Compatible devices: Power	GFSK modulation Smartphones, wireless remote controls  Battery Pack LP-E6N/LP-E6, quantity 1 *AC power usable with household power outlet accessories.
Compatible devices: Power  Battery:	GFSK modulation Smartphones, wireless remote controls  Battery Pack LP-E6N/LP-E6, quantity 1  *AC power usable with household power outlet accessories.  *USB Power Adapter PD-E1 enables in-camera charging of LP-E6N.  Power source, Battery level, Shutter count, Recharge performance, Battery registration possible  Approx. 370 shots at room temperature (+23°C/73°F), approx. 350 shots at low temperatures (0°C/32°F)  *Using a fully charged Battery Pack LP-E6N,
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Compatible devices:  Power  Battery:  Battery information:  Number of possible shots:  Movie recording time available:  Dimensions and Weight  Dimensions (WxHxD):	GFSK modulation Smartphones, wireless remote controls  Battery Pack LP-E6N/LP-E6, quantity 1  *AC power usable with household power outlet accessories.  *USB Power Adapter PD-E1 enables in-camera charging of LP-E6N.  Power source, Battery level, Shutter count, Recharge performance, Battery registration possible  Approx. 370 shots at room temperature (+23°C/73°F), approx. 350 shots at low temperatures (0°C/32°F)  *Using a fully charged Battery Pack LP-E6N, with display set to [Smooth]  Total approx. 2 hr. 20 min. at room temperature (+23°C/73°F)  Total approx. 2 hr. 10 min. at low temperatures (0°C/32°F)  *With a fully-charged Battery Pack LP-E6N, Movie Servo AF enabled, and 4K/Full HD set.  Approx. 135.8x98.3x84.4 mm / 5.35x3.87x3.32 in.  Approx. 660 g / 23.28 oz. (including battery
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Compatible devices:  Power  Battery:  Battery information:  Number of possible shots:  Movie recording time available:  Dimensions and Weight Dimensions (WxHxD):  Weight:  Operating Environment Working temperature range: Working humidity:	GFSK modulation Smartphones, wireless remote controls  Battery Pack LP-E6N/LP-E6, quantity 1 *AC power usable with household power outlet accessories. *USB Power Adapter PD-E1 enables in-camera charging of LP-E6N. Power source, Battery level, Shutter count, Recharge performance, Battery registration possible Approx. 370 shots at room temperature (+23°C/73°F), approx. 350 shots at low temperatures (0°C/32°F) *Using a fully charged Battery Pack LP-E6N, with display set to [Smooth] Total approx. 2 hr. 20 min. at room temperature (+23°C/73°F) Total approx. 2 hr. 10 min. at low temperatures (0°C/32°F) *With a fully-charged Battery Pack LP-E6N, Movie Servo AF enabled, and 4K/Full HD set.  Approx. 135.8x98.3x84.4 mm / 5.35x3.87x3.32 in. Approx. 660 g / 23.28 oz. (including battery pack and card)/Approx. 580 g / 20.46 oz. (body only)  0–40 °C (32–104 °F) 85 % or less
Compatible devices:  Power  Battery:  Battery information:  Number of possible shots:  Movie recording time available:  Dimensions and Weight Dimensions (WxHxD):  Weight:  Operating Environment Working temperature range: Working humidity:  All the data above is based & Imaging Products Association Dimensions and weight liste weight for camera body only).	GFSK modulation Smartphones, wireless remote controls  Battery Pack LP-E6N/LP-E6, quantity 1 *AC power usable with household power outlet accessories. *USB Power Adapter PD-E1 enables in-camera charging of LP-E6N. Power source, Battery level, Shutter count, Recharge performance, Battery registration possible Approx. 370 shots at room temperature (+23°C/73°F), approx. 350 shots at low temperatures (0°C/32°F) *Using a fully charged Battery Pack LP-E6N, with display set to [Smooth] Total approx. 2 hr. 20 min. at room temperature (+23°C/73°F) Total approx. 2 hr. 10 min. at low temperatures (0°C/32°F) *With a fully-charged Battery Pack LP-E6N, Movie Servo AF enabled, and 4K/Full HD set.  Approx. 135.8x98.3x84.4 mm / 5.35x3.87x3.32 in. Approx. 660 g / 23.28 oz. (including battery pack and card)/Approx. 580 g / 20.46 oz. (body only)  0–40 °C (32–104 °F)

the respective lens manufacturer.