

Specifications

Mode	
Sensor	CMOS image sensor (single panel)
Size	1.0-inch (16.0mm on the diagonal)
Total Pixels	Approx. 13.36 megapixels (4224 x 3164)
Number of Effective Pixels	Movies: approx. 8.29 megapixels (3840 x 2160) Photos: approx. 12 megapixels (4000 x 3000)
Filter	RGB primary color filter (Bayer array)
Lens (CANON 4K VIDEO LENS)	
Magnification	10x
Nominal Focal Length	8.9–89mm
35mm Equivalent	[Movies] 27.3–273mm [Photos (4:3)] 24.1–241mm
F Number	f/2.8–5.6
Aperture	8-blade iris diaphragm
Shutter	Mechanical shutter incorporated
ND Filter	1 unit (single density)
Image Stabilizer	Optical system + electronic system
Operating Rings	Focus ring / zoom ring
Exposure	
Exposure Mode	AUTO / Programmed AE (P) / Shutter-priority AE (Tv) / Aperture-priority AE (Av) / Manual Exposure (M) / SCN (Portrait / Sports / Night / Snow / Beach / Sunset / Low Light / Spotlight / Fireworks)
Other	EXP lock / AE shift / Highlight AE
Focus	
Mode	AF / Manual (focus ring)
AF System	TTL-video signal sensing system
Other	Face detection & tracking, AiAF (in photo mode), PUSH AF, touch focus function provided
LCD Monitor	
3.0-inch (7.66cm on the diagonal) color LCD (with 3:2 aspect ratio) Approx. 1,030,000 dots, 100% view field coverage Electrostatic capacitance-type touch panel, variable-angle supported	
Viewfinder	
Not available (but viewfinder unit comes with it)	
White Balance	
Auto / Daylight / Shade / Cloudy / Fluorescent / Fluorescent H / Tungsten / Color Temperature Setting / Set (1/2)	

Minimum Illumination		
NTSC	Full Auto Mode: Approx. 6.4 lux (Frame Rate: 59.94i, Shutter Speed: 1/60) Full Auto Mode: Approx. 3.2 lux (Frame Rate: 29.97p, Shutter Speed: 1/30) Full Auto Mode: Approx. 2.56 lux (Frame Rate: 23.98p, Shutter Speed: 1/24) Manual Mode: 0.05 lux (Frame Rate: 59.94i/29.97p/23.98p, Shutter Speed: 1/2, Gain: 42 dB)	
Movie Recording (Video Format: XF-AVC)		
File Format	MXF	
Video Compression Formats	MPEG-4 AVC/H.264	
Video Quality	(1) 4K recording (size: 3840 x 2160), (2) HD recording (size: 1920 x 1080)	
Bit Rate/Frame Rate	(1) 4K Movie Recording	
	305 Mbps	NTSC: 29.97P / 23.98P / 24.00P
	205 Mbps	
	(2) HD Recording	
	50 Mbps	NTSC: 59.94P
	35 Mbps	NTSC: 29.97P / 23.98P / 59.94i / 24.00P
Color Sampling	YCC422, 8-bit	
Audio	Linear PCM (16-bit / 48 kHz), 2 channels	
Rec Media for Photos		
Image Type Size	JPEG [3:2] 4000 x 2664 (10.66M) [4:3] 4000 x 3000 (12M) / 640 x 480 (VGA) [16:9] 3840 x 2160 (8.29M)	
Other	Photo recording in movie recording movie and photo capture during movie playback also possible (In these cases, the image size will be the same as the size of the images in which the movies are recorded and played back.) Single-image shooting, continuous shooting or AF continuous shooting available with drive mode setting.	
Recording Media		
CFast™	4K recording	
SD Card	Recording of HD video images, photos (JPEG), menus, etc. possible	
ISO/Gain Setting		
ISO 160–20000 / 0.0 dB – 42 dB gain Auto ISO limit / AGC limit functions incorporated		
Time Code		
Count-up Operation Mode	Drop frame* or non-drop frame Rec run, free run, regeneration *NTSC model only	
Image Customizing (Settings that Give the Images a Particular “Look”)		
(1) For movie recording: Standard, Cinema EOS Std., Neutral, Production Camera, Color Matrix off, Canon Log, EOS Std., Wide DR, High-brightness Priority, User Settings (1/2) (2) For taking photos: Standard, Portrait, Landscape, Neutral, Fidelity Setting, Sepia, Monochrome, Clear, Autumn Leaves, User Settings (1/2)		

Other	
Rotary grip (90° rotation forward/backward), Slow & Fast motion recording, pre-recording (only during HD recording), interval recording (only when taking photos), powered IS, enlarged display (/position movement), color bar, peaking display, zebra display, FUNC. customizing, assign buttons (x3), marker displays, color bar, digital teleconverter (2x), GPS support (GP-E2), view assist (with high-brightness priority set as the "look"), WFM	
Playback	
Playback Operations	Normal playback, fast forward (at speeds of x5, x15, x60), fast reverse (at speeds of x5, x15, x60), frame forward, frame reverse, forward skip, reverse skip
Index Displays	3x4 index screen [4K movies, HD movies, photo playback indexes]
Other	Enlargement zooming (in photo mode), HD image extraction playback (in 4K movie playback mode)
Edit	Deletion only
Wi-Fi®	
5 GHz/2.4 GHz dual band	
Accessory Shoe	
Microphone Adapter MA-400 (cold shoe)	
Terminal	
HDMI OUT connector, USB connector, MIC jack, headphones jack, AUDIO connector, DC-IN socket	
Image Processing Platform	
DIGIC DV 5	
Power Supply-related Specs	
Battery Pack*: LP-E6N (7.2V, 1865 mAh) Battery Charger: LC-E6, LC-E6E AC Adapter CA-945 * Interchangeable with EOS models (5D Mark III, 6D, 5DS, 5DS R, 60D, 70D, 7D Mark II)	