

# specifications for canon digital slr camera eos-70d (18-135)



## Technical Details

<b>Type</b>	
Type	Digital, single-lens reflex, AF/AE camera with built-in flash
Recording media	SD memory card, SDHC memory card*, SDXC memory card* * UHS-I cards compatible.
Image sensor size	Approx. 22.5 x 15.0mm
Compatible lenses	Canon EF lenses (including EF-S lenses) * Excluding EF-M lenses (35mm-equivalent focal length is approx. 1.6 times the lens focal length)
Lens mount	Canon EF mount
<b>Image Sensor</b>	
Type	CMOS sensor
Effective pixels	Approx. 20.20 megapixels

Aspect ratio	3:2	
Dust delete feature	Auto, Manual, Dust Delete Data appending	
<b>Recording System</b>		
Recording format	Design rule for Camera File System (DCF) 2.0	
Image type	JPEG, RAW (14-bit Canon original), RAW+JPEG simultaneous recording possible	
Recorded pixels	Large:	Approx. 20.00 megapixels (5472 x 3648)
	Medium:	Approx. 8.90 megapixels (3648 x 2432)
	S1 (Small 1):	Approx. 5.0 megapixels (2736 x 1824)
	S2 (Small 2):	Approx. 2.50 megapixels (1920 x 1280)
	S3 (Small 3):	Approx. 350,000 pixels (720 x 480)
	RAW:	Approx. 20.0 megapixels (5472 x 3648)
	M-RAW:	Approx. 11.0 megapixels (4104 x 2736)
	S-RAW:	Approx. 5.0 megapixels (2736 x 1824)
Create / Select a folder	Possible	
<b>Image Processing</b>		
Picture style	Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3	
White balance	Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color temperature setting (approx. 2500-10000 K), White balance correction, and White balance bracketing possible  * Flash color temperature information transmission enabled	
Noise reduction	Applicable to long exposures and high ISO speed shots	
Automatic image brightness correction	Auto Lighting Optimizer	
Highlight tone priority	Provided	
Lens peripheral illumination	Peripheral illumination correction, Chromatic aberration	

correction	correction
<b>Viewfinder</b>	
Type	Eye-level pentaprism
Coverage	Vertical / Horizontal approx. 98% (with Eye point approx. 22mm)
Magnification	Approx. 0.95x ( $-1\text{m}^{-1}$ with 50mm lens at infinity)
Eye point	Approx. 22mm (from eyepiece lens center at $-1\text{m}^{-1}$ )
Built-in dioptic adjustment	Approx. $-3.0 - +1.0 \text{ m}^{-1}$ diopter
Focusing screen	Fixed
	Provided
Electronic level	Displayable before and during shooting
Mirror	Quick-return type
Depth-of-field preview	Provided
<b>Autofocus</b>	
Type	TTL secondary image-registration, phase-difference detection with the dedicated AF sensor
AF points	19 (All cross-type focusing*) * Except with certain lenses
Focusing brightness range	EV $-0.5 - 18$ (with center AF point, at room temperature, ISO 100)
Focus operation	One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF)
AF-assist beam	Small series of flashes fired by built-in flash
<b>Exposure Control</b>	
Metering modes	63-zone TTL full-aperture metering <ul style="list-style-type: none"> <li>• Evaluative metering (linked to all AF points)</li> <li>• Partial metering (approx. 7.7% of viewfinder at center)</li> <li>• Spot metering (approx. 3.0% of viewfinder at center)</li> <li>• Center-weighted average metering</li> </ul>
Metering brightness range	EV 1 - 20 (at room temperature, ISO 100)
Exposure control	Program AE (Scene Intelligent Auto, Flash Off, Creative Auto, Special scene [Portrait, Landscape, Close-up, Sports, Night Portrait, Handheld Night Scene, HDR Backlight Control], Program), Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure
ISO speed	Basic Zone modes: ISO 100 - ISO 6400 set

(Recommended exposure index)		automatically
	Landscape:	ISO 100 - ISO 1600 set automatically
	Handheld Night Scene:	ISO 100 - ISO 12800 set automatically
	P, Tv, Av, M, B: Auto ISO, ISO 100 - ISO 12800 (in 1/3- or whole-stop increments), or ISO expansion to H (equivalent to ISO 25600)	
Exposure compensation	Manual:	±5 stops in 1/3- or 1/2-stop increments
	AEB:	±3 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)
AE lock	Auto:	Applied in One-Shot AF mode with evaluative metering when focus is achieved
	Manual:	By AE lock button
<b>HDR Shooting</b>		
Dynamic range adjustment	Auto, ±1 EV, ±2 EV, ±3 EV	
Auto image align	Possible	
<b>Multiple Exposures</b>		
Number of multiple exposures	2 to 9 exposures	
Multiple-exposure control	Additive, Average	
<b>Shutter</b>		
Type	Electronically-controlled, focal-plane shutter	
Shutter speeds	1/8000 sec. to 30 sec. (total shutter speed range; available range varies by shooting mode), Bulb, X-sync at 1/250 sec.	
<b>Drive System</b>		
Drive modes	Single shooting, High-speed continuous shooting, Low-speed continuous shooting, Silent single shooting, Silent continuous shooting, 10-sec. self-timer/remote control, 2-sec. self-timer/remote control	
Continuous shooting speed	High-speed continuous shooting:	Max. approx. 7.0 shots/sec.
	Low-speed continuous shooting:	Max. approx. 3.0 shots/sec.

	Silent continuous shooting:	Max. approx. 3.0 shots/sec.
Max. burst	JPEG Large/Fine:	Approx. 40 shots (approx. 65 shots)
	RAW:	Approx. 15 shots (approx. 16 shots)
	RAW+JPEG Large/Fine:	Approx. 8 shots (approx. 8 shots)
	* Figures are based on Canon's testing standards (ISO 100 and Standard Picture Style) and an 8 GB card. * Figures in parentheses apply to an UHS-I compatible 8 GB card based on Canon's testing standards.	
<b>Flash</b>		
Built-in flash	Retractable, auto pop-up flash	
	Guide No.:	Approx. 12/39.4 (ISO 100, in meters / feet)
	Flash coverage:	Approx. 17mm lens angle of view
	Recycling time approx. 3 sec.	
External Speedlite	Compatible with EX-series Speedlites	
Flash metering	E-TTL II autoflash	
Flash exposure compensation	±3 stops in 1/3- or 1/2-stop increments	
FE lock	Provided	
PC terminal	None	
Flash control	Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings Wireless flash control via optical transmission	
<b>Live View Shooting</b>		
Aspect ratio settings	3:2, 4:3, 16:9, 1:1	
Focus methods	Dual Pixel CMOS AF system/Contrast-detection AF system (Face+Tracking, FlexiZone-Multi, FlexiZone-Single), Phase-difference detection with the dedicated AF sensor (Quick mode), Manual focus (approx. 5x and 10x magnified view possible for focus check)	
Metering modes	Evaluative metering (315 zones), Partial metering (approx. 10.3% of Live View screen), Spot metering (approx. 2.6% of Live View screen), Center-weighted average metering	
Metering brightness range	EV 0 - 20 (at room temperature, ISO 100)	
Creative filters	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect	

Silent shooting	Provided (Mode 1 and 2)	
Touch shutter	Provided	
Grid display	Three types	
<b>Movie Shooting</b>		
Recording format	MOV	
Movie compression	MPEG-4 AVC / H.264 Variable (average) bit rate	
Audio recording format	Linear PCM	
Recording size and frame rate	1920 x 1080 (Full HD):	30p / 25p / 24p
	1280 x 720 (HD):	60p / 50p
	640 x 480 (SD):	30p / 25p
	* 30p: 29.97 fps, 25p: 25.00 fps, 24p: 23.98 fps, 60p: 59.94 fps, 50p: 50.00 fps	
File size	1920 x 1080 (30p / 25p / 24p) / IPB:	Approx. 235 MB/min.
	1920 x 1080 (30p / 25p / 24p) / ALL-I:	Approx. 685 MB/min.
	1280 x 720 (60p / 50p) / IPB:	Approx. 205 MB/min.
	1280 x 720 (60p / 50p) / ALL-I:	Approx. 610 MB/min.
	640 x 480 (30p / 25p) / IPB:	Approx. 78 MB/min.
	* Card reading/writing speed necessary for movie shooting: IPB: at least 6 MB per sec./ALL-I: at least 20 MB per sec.	
Focusing	Same as focusing with Live View shooting * Quick mode disabled during movie shooting	
Digital zoom	Approx. 3x-10x	
Metering modes	Center-weighted average and Evaluative metering with the image sensor	
Metering brightness range	EV 0 - 20 (at room temperature, ISO 100)	
Exposure control	Autoexposure shooting (Program AE for movies) and manual exposure	
Exposure compensation	±3 stops in 1/3-stop increments (±5 stops for still photos)	
ISO speed (Recommended exposure index)	For autoexposure shooting: 1. ISO 100 - ISO 6400 set automatically.	

	In Creative Zone modes, the upper limit is expandable to H (equivalent to ISO 12800). For manual exposure shooting: Auto ISO (ISO 100 - ISO 6400 set automatically), ISO 100 - ISO 6400 set manually (1/3- and whole-stop increments), expandable to H (equivalent to ISO 12800)
Time code	Supported
Drop frames	Compatible with 60p / 30p
Video snapshots	Settable to 2sec. / 4sec. / 8sec.
Sound recording	Built-in stereo microphone, External stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided
Grid display	Three types
Still photo shooting	Possible
<b>LCD Monitor</b>	
Type	TFT color, liquid-crystal monitor
Monitor size and dots	Wide 7.7 cm (3.0-in) (3:2) with approx. 1.04 million dots
Birghtness adjustment	Manual (7 levels)
Electronic level	Provided
Interface languages	25
Touch screen technology	Capacitive sensing
Feature guide / Help	Displayable
<b>Image Playback</b>	
Image display formats	Single image display, Single image + Info display (Basic info, shooting info, histogram), 4-image index, 9-image index
Highlight alert	Overexposed highlights blink
AF point display	Possible
Grid display	Three types
Zoom magnification	Approx. 1.5x - 10x
Image browsing methods	Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating
Image rotate	Possible
Rating	Provided
Movie playback	Enabled (LCD monitor, video/audio OUT, HDMI OUT),

	built-in speaker
Slide show	All images, by date, by folder, by movies, by stills, by rating
Background music	Selectable for slide shows and movie playback
Image protect	Possible
<b>Post-Processing of Images</b>	
In-camera RAW image processing	Brightness correction, White balance, Picture Style, Auto Lighting Optimizer, High ISO speed noise reduction, JPEG image-recording quality, Color space, Peripheral illumination correction, Distortion correction, Chromatic aberration correction
Creative filters	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect
Resize	Possible
<b>Direct Printing</b>	
Compatible printers	PictBridge-compatible printers
Printable images	JPEG and RAW images
Print ordering	DPOF Version 1.1 compatible
<b>Custom Functions</b>	
Custom functions	23
My Menu registration	Possible
Custom shooting modes	Register under Mode Dial C
Copyright information	Entry and inclusion enabled
<b>Interface</b>	
Audio / Video OUT / Digital terminal	Analog video (Compatible with NTSC/PAL)/stereo audio output Computer communication, Direct printing (Hi-Speed USB or equivalent), GPS Receiver GP-E2 connection
HDMI mini OUT terminal	Type C (Auto switching of resolution), CEC-compatible
External microphone IN terminal	3.5mm diameter stereo mini-jack
Remote control terminal	For Remote Switch RS-60E3
Wireless remote control	Compatible with Remote Controller RC-6
Eye-Fi card	Compatible
<b>Power</b>	
Battery	Battery Pack LP-E6 (Quantity 1) * AC power can be supplied via AC Adapter Kit ACK-E6.



	* With Battery Grip BG-E14 attached, size-AA/LR6 batteries can be used.	
Battery information	Remaining capacity, Shutter count, Recharge performance, and Battery registration possible	
Number of possible shots (Based on CIPA testing standards)	With viewfinder shooting:	Approx. 920 shots at room temperature (23°C / 73°F), approx. 850 shots at low temperatures (0°C / 32°F)
	With Live View shooting:	Approx. 210 shots at room temperature (23°C / 73°F), approx. 200 shots at low temperatures (0°C / 32°F)
Movie shooting time	Approx. 1 hr. 20 min. at room temperature (23°C / 73°F), approx. 1 hr. 20 min. at low temperatures (0°C / 32°F) * With a fully-charged Battery Pack LP-E6.	
<b>Dimensions and Weight</b>		
Dimensions (W x H x D)	Approx. 139.0 x 104.3 x 78.5 mm / 5.5 x 4.1 x 3.1 in.	
Weight	Approx. 755 g / 26.7 oz. (CIPA Guidelines), approx. 675 g / 23.8 oz. (Body only)	
<b>Operating Environment</b>		
Working temperature range	0°C - 40°C / 32°F - 104°F	
Working humidity	85% or less	

- All the data above is based on Canon's testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines.
- Dimensions, maximum diameter, length and weight listed above are based on CIPA Guidelines (except weight for camera body only).
- Product specifications and the exterior are subject to change without notice.
- If a problem occurs with a non-Canon lens attached to the camera, consult the respective lens manufacturer.

### **Product Description :**

The **Canon EOS 70D DSLR Camera** features a 20.2 megapixel APS-C CMOS sensor and DIGIC 5+ image processor to ensure high-resolution images and excellent low-light sensitivity. Both the sensor and processor work together to produce well-detailed, clear imagery that exhibits natural tonality and color gradations with minimal noise when working in difficult lighting conditions. The processor also provides notable speed throughout the camera system, including the ability to record up to 7 fps in full-resolution, quickened AF speeds, and full HD 1080p video recording in multiple frame rates with manual exposure and audio level control.



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