

TECHNICAL SPECIFICATIONS

EOS M50

IMAGE SENSOR		AE Lock	Auto: In One-shot AF mode with evaluative metering exposure is locked when focus is achieved. Manual: By AE Lock Button in creative zone modes.
Type	22.3 x 14.9mm CMOS	Exposure Compensation AEB	+/-3 EV in 1/3 stop increments 3 shots, +/- 2 EV, 1/3-stop increments (can be used together with Exposure Compensation)
Effective Pixels	Approx. 24.1 megapixels	ISO Sensitivity (8)	ISO AUTO (100 - 6400), 100 - 25600 in 1/3 stop increments. ISO can be expanded to 51200
Total Pixels	Approx 25.8 megapixels		4K Movie: ISO AUTO (100 - 6400), 100 - 6400 in 1/3-stop increments. Full HD and HD Movie: ISO AUTO (100 - 12800), ISO 100 - 12800 in 1/3-stop increments. ISO can be expanded to 25600
Aspect Ratio	3:2	SHUTTER	
Low-Pass Filter	Built-in/Fixed	Type	Electronically controlled focal-plane shutter
Sensor Cleaning	EOS integrated cleaning system	Speed	30 - 1/4000 sec (1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode)
Colour Filter Type	Primary Colour	WHITE BALANCE	
		Type	Auto white balance with the imaging sensor
IMAGE PROCESSOR		Settings	Auto (Ambience Priority), Auto (White Priority), Daylight, Shade, Cloudy, Tungsten light, White Fluorescent light, Flash, Custom, Colour Temperature (100 Kelvin increments)
Type	DIGIC 8	Custom White Balance	Yes, 1 setting can be registered
LENS		VIEWFINDER	
Lens Mount	EF-M (EF and EF-S lenses compatible via Mount adapter EF-EOS M)	Type	0.39-type OLED Electronic Viewfinder
Focal Length	Equivalent to 1.6x the focal length of the lens	Coverage (Vertical/Horizontal)	Approx. 2,360,000 dots
Image Stabilisation	Optical Image Stabilizer on compatible lens	Eyepoint	Approx 100%
	Movie: In-camera Digital IS available. Further stabilisation enhancements from lenses compatible with Dynamic IS	Dioptr Correction	Yes
		Viewfinder Information	Customisable and toggle via INFO. Button (1) Liveview image with exposure info (2) Liveview image with basic info (3) Liveview image with full info
FOCUSING		Depth of field preview	Yes
Type	Dual Pixel CMOS AF System, Phase detection pixels built onto imaging sensor ⁽²⁰⁾	LCD MONITOR	
	Contrast detection method is used during 4K Movie Servo AF	Type	7.5 cm (3.0") Touchscreen LCD (TFT), 3:2 aspect ratio. Approx. 1,040,000 dots. Electrostatic capacitive type. Vari-Angle
AF System/ Points	Maximum 143/99 points depending on lens.	Coverage	Approx 100%
	Max 25 frames in Zone AF ⁽¹⁵⁾	Brightness Adjustment	Adjustable to one of seven levels
	Freely position 1 AF point/ 1 AF Zone via manual selection (area available lens dependent)	Display Options	Customisable and toggle via INFO. Button (1) Liveview image with exposure info (2) Liveview image with basic info (3) Liveview image with full info
AF working range	EV -2 - 18 (at 23 °C, ISO 100, with EF-M 22mm f/2 STM)	FLASH	
AF Modes	One-Shot AF and Servo AF	Built-in Flash GN (ISO 100, meters)	5
AF Point Selection	Face + Tracking: Face and subject tracking via automatic recognition/ manual selection via touchscreen. Automatic selection over AF points when no face recognised within frame.	Built-in Flash Coverage	Maximum coverage at approx. 15mm (35mm equivalent: approx. 24mm)
	Eye AF available in One Shot AF	Built-in Flash recycle time	Approx. 3 seconds ⁽²⁷⁾
	Smooth Zone AF: Manual zone selection, plus automatic selection over AF points within selected zone		
Selected AF point display	1-point AF: Manual selection via touchscreen/ buttons		
AF Lock	Indicated on LCD monitor/ EVF		
AF Assist Beam	Locked when shutter button is pressed half way or customisable AE Lock Button		
Manual Focus	via LED assist beam		
	With EF & EF-S lenses - Select via AF/MF switch on lens		
	With EF-M lenses - Select via dedicated MF Button/ other customisable buttons (toggle AF/MF).		
	MF Peaking available		
	AF+MF available (Manual focus adjustment after One-Shot AF)		
	Magnify image available during MF (5x or 10x)		
EXPOSURE CONTROL			
Metering modes	Real-time metering from the image sensor (1) Evaluative metering (384 zones) (2) Partial metering at center (approx. 6.4% of Live View Screen) (3) Center weighted average metering (4) Spot metering (approx. 2.8% of Live View Screen)		
Metering Range	Center weighted only in Movie recording Still image: EV 0 - 20 (at 23 °C, ISO 100) Movie: EV 0 - 20 (at 23 °C, ISO 100)		



TECHNICAL SPECIFICATIONS

EOS M50

Modes	Auto (E-TTL II)	Movie Length	Max duration 29min 59sec, Max file size 4GB
Red-Eye Reduction	Yes - with red eye reduction lamp	Folders	New folders can be created and selected
X-sync	1/200 sec	File Numbering	(1) Continuous, Auto Reset (2) Manual Reset
Flash Exposure Compensation	+/- 2 EV in 1/3 increments	OTHER FEATURES	
Flash Exposure Lock	Yes	Custom Functions	9 customisable buttons
Second Curtain Synchronisation	Yes	Metadata Tag	User copyright information (Author's Name, Copyright Details) Image rating (0-5 stars)
HotShoe/ PC terminal	Yes/No	Playback zoom	15 steps plus smooth pinch-to-zoom
External Flash Compatibility	E-TTL II with EX series Speedlites, wireless multi-flash support	Display Formats	(1) Single image with information (toggle options) (2) Single image (3) Index display (4/9/36/100 images) (4) Jump Display (1/10/custom number image, by shot date, by rating, by folder, by movies only, protected only)
External Flash Control	Via camera setting/ flash setting menu	Slide Show	Playback time: 1/2/3/5/10/30 seconds Repeat: On/Off Transition Effects: Off, Slide in 1-2, Fade 1-3 Brightness/ RGB
SHOOTING		Histogram	Yes
Modes	Scene Intelligent Auto, Hybrid Auto, Creative Assist, SCN(Self-Portrait, Portrait, Smooth Skin, Landscape, Sports, Close-up, Food, Panning, Handheld Night Scene, HDR Backlight Control, Silent Mode), Creative Filters (Grainy B/W, Soft Focus, Fish-eye Effect, Water painting effect, Toy camera effect, Miniature effect, HDR Art standard, vivid, bold, embossed), Program AE, Shutter priority AE, Aperture priority AE, Manual exposure, Movie (Movie auto exposure, Movie manual exposure, Time-lapse movie)	Highlight Alert	Erase: Single image, Selected images, Selected range, All images Protection: Selected images, Selected range, All images, Unprotect all images
Picture Styles	Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Defined (x3)	Image Erase/Protection	(1) Shooting menu (x8) (2) Playback menu (x4) (3) Setup menu (x5) (4) Display menu (5) My Menu
Colour Space	sRGB and Adobe RGB	Menu Categories	29 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, Malay, Vietnamese, Indonesian, Hindi, Japanese
Image Processing	Highlight Tone Priority (standard and enhanced) Auto Lighting Optimizer (4 settings) Long exposure noise reduction High ISO speed noise reduction (4 settings + Multi Shot NR) Lens peripheral illumination correction Chromatic aberration correction Diffraction correction	Menu Languages	Firmware update possible by the user.
Drive modes	Creative Assist: Presets Background Blur (5 settings) Brightness (19 levels) Contrast (9 levels) Saturation (9 levels) Color Tone 1 & 2 (19 levels) Monochrome (Off/Black and white/Sepia/Blue/Purple/Green)	Firmware Update	
Continuous Shooting	Single, High-Speed Continuous, Low-Speed Continuous, Self timer (2s, 10s, Custom, Remote) One shot AF: Approx. 10 shots/sec for up to 33 frames in JPEG and 10 frames in RAW ⁽²¹⁾ With Servo AF: Approx. 7.4 shots/sec for up to approx 47 frames in JPEG ⁽²²⁾	INTERFACE	
LIVE VIEW MODE		Computer	Hi-Speed USB (Micro USB)
Coverage	Approx. 100% (horizontally and vertically)	Other	Wireless LAN (IEEE802.11b/g/n), (2.4 GHz only, 1-1 ch), with Dynamic NFC support ⁽¹⁷⁾ Bluetooth [®] (Specification version 4.1, Bluetooth low energy technology) ⁽²³⁾⁽²⁴⁾
FILE TYPE		DIRECT PRINT	HDMI (Micro - Type-D connector), HDR output to compatible TV supported
Still Image Type	JPEG: Fine, Normal (Exif 2.31 compliant) / Design rule for Camera File system (2.0) RAW: RAW (CR3 14-bit), Digital Print Order Format (DPOF) Version 1.1 compliant	Canon Printers	Canon Compact Photo Printers and PIXMA Printers supporting PictBridge
RAW+JPEG simultaneous recording	Yes, RAW + various JPEG compression possible	PictBridge	Canon Compact Photo Printers and PIXMA Printers supporting PictBridge
Image Size	RAW: (3:2) 6000 x 4000, (4:3) 5328 x 4000, (16:9) 6000 x 3368, (1:1) 4000 x 4000 JPEG 3:2: (L) 6000 x 4000, (M) 3984 x 2656, (S1) 2976 x 1984, (S2) 2400 x 1600 JPEG 4:3: (L) 5328 x 4000, (M) 3552 x 2664, (S1) 2656 x 1992, (S2) 2112 x 1600 JPEG 16:9: (L) 6000 x 3368, (M) 3984 x 2240, (S1) 2976 x 1680 (S2) 2400 x 1344 JPEG 1:1: (L) 4000 x 4000, (M) 2656 x 2656, (S1) 1984 x 1984, (S2) 1600 x 1600	STORAGE	SD, SDHC, SDXC (UHS-I compatible)
Movie Type	In-camera RAW processing & Image Resize available in playback MP4 [Video: MPEG-4 AVC/H.264, Audio: MPEG-4 AAC-LC (stereo)]	SUPPORTED OPERATING SYSTEM	Windows 10 / 8.1 / 8 / 7 SP1 ⁽²⁴⁾ Mac OS X 10.9 / 10.10 / 10.11 / 10.12
Movie Size	4K - 3840 x 2160 (23.98, 25 fps) Full HD - 1920 x 1080 (59.94, 50, 29.97, 25, 23.976 fps) HD - 1280 x 720 (119.9, 100, 59.94, 50 fps)	PC & Macintosh	For Wi-Fi connection to a PC: Windows 10 / 8.1 / 8 / 7 SP1 Mac OS X 10.9 / 10.10 For Image Transfer Utility: Windows 10 / 8.1 / 8 / 7 SP1 Mac OS X 10.9 / 10.10 / 10.11 / 10.12
		SOFTWARE	Digital Photo Professional Picture Style Editor, EOS Utility, Image Transfer Utility
		Image Processing	Camera Connect app available on iOS and Android devices ⁽²⁵⁾
		Other	



TECHNICAL SPECIFICATIONS

EOS M50

POWER SOURCE

Batteries

1 x Rechargeable Li-Ion Battery LP-E12

Battery life

Approx. 235 shots (at 23°C, AE 50%, FE 50%)^[1]
Eco Mode: Approx. 370 shots
Movie Recording: Approx. 85 mins
Playback time when playing back a slideshow of still images: Approx. 4 hrs

Battery Indicator

4 levels

Power saving

Display off (15, 30 sec or 1, 3, 5, 10, 30 mins)
Auto Power Down (30 sec or 1, 3, 5, 10 mins, Disable)
Viewfinder off (1, 3 min, disable)
ECO mode

Power Supply & Battery Chargers

Battery charger LC-E12E

Compact Power Adapter CA-PS700
DC Coupler DR-E12

PHYSICAL SPECIFICATIONS

Body Materials

Polycarbonate

Operating Environment

0 – 40 °C, 85% or less humidity

Dimensions (WxHxD)

116.3 x 88.1 x 58.7mm

Weight (body only)

Approx 387g (black), 390g (white), CIPA testing standard including battery and memory card

ACCESSORIES

Cases / Straps

Body Jacket EH32-CJ (beige)
Body Jacket EH32-CJ (light brown)
Neck Strap EM-E2 (black)
Neck Strap EM-E2 (white)
Neck Strap EM-200DB

Lenses

EF-M lenses
All EF and EF-S lenses compatible via Mount adapter EF-EOS M

Flash

Canon Speedlites (including 90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX III, 430EX III-RT, 550EX, 580EX, 580EX II, 600EX, 600EX-RT, 600EX II-RT, Macro-Ring-Lite, MR-14EX II, Macro Twin Lite MT-24EX, Speedlite Transmitter ST-E2, Speedlite Transmitter ST-E3-RT)

Remote Controller/ Switch

Off-Camera Shoe Cord OC-E3, Speedlite Bracket SB-E2

Other

Bluetooth Remote BR-E1
Interface cable IFC-400PCU
Mount Adapter EF-EOSM

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. Varies depending on the subject, memory card brand and capacity, image recording quality, ISO speed, drive mode, Picture Style, Custom functions etc.

^[3] Compatible with large memory card capacities, including cards of 2GB and more (camera may require firmware update).

^[4] with 50mm lens at infinity, -1m⁻¹ dpt

^[5] Based on the CIPA Standard and using the batteries and memory card format supplied with the camera, except where indicated

^[6] Memory card and battery door only

^[7] with EF300mm f/2.8L IS USM at 50kph

^[8] Recommended Exposure Index

^[9] Environmental protection

^[10] Maximum fps and buffer capacity may be reduced depending on the cameras settings and light level

^[11] Peripheral Cross type AF points will not function as a cross type AF points with the following lenses: EF 35-80mm f4.5-5.6 (II/III/USM), EF35-105mm f4.5-5.6 (USM), EF 80-200mm f4.5-5.6 (II)

^[12] With Battery strength 75% or higher

^[13] Viewfinder Information

^[14] Hybrid CMOS AF III covers an area of approx. 80% Vertical x 70% Horizontal of the frame

^[15] Maximum number of AF frame is dependent on selected image aspect ratio

^[16] Sustained continuous shooting function requires compatible SDHC/SDXC UHS Speed Class 1 memory card, total number of frames captured varies depending on camera settings, type of lens used, battery charge and light level. Shooting stops automatically with the 1000th frame

^[17] Wi-Fi use may be restricted in certain countries or regions.

^[18] Hybrid CMOS AF II covers an area of approx. 80% Vertical x 70% Horizontal of the frame

^[19] Maximum burst during continuous shooting are measured based on Canon's testing standards (3:2 aspect ratio, ISO 200 and Standard Picture Style)

^[20] Dual Pixel CMOS AF - AF is possible over an area of approx. 80% Vertical x 80% Horizontal of the frame

^[21] Continuous shooting speed is measured with EF-M 15-45mm f/3.5-6.3 IS STM and requires SDHC/SDXC UHS Speed Class 1 memory card. Total number of frames captured and continuous shooting speed may vary depending on camera exposure settings, type of lens used, battery level, light level and memory card used.

^[22] Continuous shooting speed is measured with EF-M 15-45mm f/3.5-6.3 IS STM and requires SDHC/SDXC UHS Speed Class 1 memory card. Under Servo AF, maximum continuous shooting speed and total number of frames captured depends on subject condition, camera settings and lens used

^[23] Equipped with Bluetooth[®] low energy technology. The Bluetooth[®] word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Canon Europe Ltd. is under license. Other trademarks and trade names are those of their respective owners.

^[24] Software applications compatible with Windows 10 in Windows 10 Desktop Mode only

^[25] Bluetooth functionality with Camera Connect app requires smart device to be equipped with Bluetooth version 4.0 (or later). Also requires smart device to be using operating system iOS 8.4 (or later) or Android 5.0 (or later)

^[26] Require Remote Controller Adapter RA-E3

^[27] When battery is fully charged

^[28] Maximum continuous shooting speed with 1/500 sec. or faster shutter speed.



Canon Inc.
canon.com
Canon Europe
canon-europe.com
English edition
Canon Europa NV 2018