TECHNICAL SPECIFICATIONS

EOS M50 Mark II

IMAGE SENSOR
Type	22.3 x 14.9mm CMOS
Effective Pixels	Approx. 24.1 megapixels
Total Pixels	Approx 25.8 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	DIGIC 8

LENS
Lens Mount	EF-M (EF and EF-S lenses compatible via Mount adapter EF-EOS M)
Focal Length	Equivalent to 1.6x the focal length of the lens
Image Stabilisation	Optical Image Stabilizer on compatible lens Movie: In-camera Digital IS available. Further stabilisation enhancements from lenses compatible with Dynamic IS

FOCUSING
Type	Dual Pixel CMOS AF System. Phase detection pixels built onto imaging sensor [1] Contrast detection method is used during 4K Movie Servo AF
AF System/Points	Maximum 3975 positions Maximum 143/99 points available for automatic selection in Face+Tracking mode. May vary depending on settings. Max 25 frames in Zone AF [2] Freely position 1 AF point/ 1 AF Zone via manual selection (area available lens dependent)
AF working range	EV -4 - 18 (at 23 °C, ISO 100, with EF-M 32mm f/1.4 STM)
AF Modes	One-Shot AF and Servo AF
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. Eye AF available Zone AF: Manual zone selection, plus automatic selection over AF points within selected zone 1-point AF / Spot AF: Manual selection via touchscreen/ buttons
Selected AF point display	Indicated on LCD monitor/ EVF
AF Lock	Locked when shutter button is pressed half way or customisable AE Lock Button
AF Assist Beam	via LED assist beam
Manual Focus	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. 5.8% of Live View Screen) (3) Center weighted average metering (4) Spot metering (approx. 2.9% of Live View Screen) Partial and spot metering not available in movie
Metering Range	Still image: EV -2 - 20 (at 23 °C, ISO 100) Movie: EV 0 - 20 (at 23 °C, ISO 100)

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.
Exposure Compensation	+/-3 EV in 1/3 stop increments
AEB	3 shots, +/- 2 EV, 1/3-stop increments (can be used together with Exposure Compensation)
ISO Sensitivity [3]	ISO AUTO (minimum 100, maximum can be set between 400 - 25600 except in Scene Intelligent Auto and Creative Filter mode max 6400, and Flash On 1600), 100 - 25600 in 1/3 stop increments. ISO can be expanded to 51200
	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

SHUTTER
Type	Electronically controlled focal-place shutter
Speed	30 - 1/4000 sec (1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode)

WHITE BALANCE
Type	Auto white balance with the imaging sensor
Settings	Auto (Ambience Priority), Auto (White Priority), Daylight, Shade, Cloudy, Tungsten light, White Fluorescent light, Flash, Custom, Colour Temperature (100 Kelvin increments) White balance compensation: 1. Blue/Amber +/-9 levels 2. Magenta/ Green +/-9 levels
Custom White Balance	Yes, 1 setting can be registered

VIEWFINDER
Type	0.39-type OLED Electronic Viewfinder Approx. 2,360,000 dots
Coverage (Vertical/Horizontal)	Approx 100%
Eyepoint	Approx 22mm
Dioptre 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 Customisable settings: Grid overlay (x3 formats), Histogram (Brightness/ RGB), Electronic Level, Multi aspect ratios
Depth of field preview	Yes

LCD MONITOR
Type	7.5 cm (3.0") Touchscreen LCD (TFT). 3:2 aspect ratio. Approx. 1,040,000 dots. Electrostatic capacitive type. Vari-Angle
Coverage	Approx 100%
Brightness Adjustment	Adjustable to one of seven levels
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 Customisable settings: Grid overlay (x3 formats), Histogram (Brightness/ RGB), Electronic Level, Multi aspect ratios, Hints and Tips

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TECHNICAL SPECIFICATIONS

EOS M50 Mark II

FLASH	
Built-in Flash GN (ISO 100, meters)	5
Built-in Flash Coverage	Maximum coverage at approx. 15mm (35mm equivalent: approx. 24mm)
Built-in Flash recycle time	Approx. 3 seconds [4]
Modes	Auto (E-TTL II)
Red-Eye Reduction	Yes
X-sync	1/200 sec
Flash Exposure Compensation	+/- 2 EV in 1/3 increments
Flash Exposure Lock	Yes
Second Curtain Synchronisation	Yes
HotShoe/ PC terminal	Yes/No
External Flash Compatibility	E-TTL II with EX series Speedlites, wireless multi-flash support
External Flash Control	Via camera setting/ flash setting menu
SHOOTING	
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)
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 (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 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)
Drive modes	Single, High-Speed Continuous, Low-Speed Continuous, Self timer (2s, 10s, Remote)
Continuous Shooting	One shot AF: Approx. 10 shots/sec for up to 36 frames in JPEG and 10 frames in RAW [5]
LIVE VIEW MODE	
Coverage	Approx. 100% (horizontally and vertically)
FILE TYPE	
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
RAW+JPEG simultaneous recording	Yes, RAW + various JPEG compression possible

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
Movie Type	MP4 [Video: MPEG-4 AVC/H.264, Audio: MPEG-4 AAC-LC (stereo)]
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)
Movie Length	Max duration 29min 59sec, Max file size 4GB
Folders	New folders can be created and selected
File Numbering	(1) Continuous, Auto Reset (2) Manual Reset
OTHER FEATURES	
Custom Functions	9 customisable buttons
Metadata Tag	User copyright information (Author's Name, Copyright Details) Image rating (0-5 stars)
Playback zoom	15 steps plus smooth pinch-to-zoom
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)
Slide Show	Playback time: 1/2/3/5/10/30 seconds Repeat: On/Off Transition Effects: Off, Slide in 1-2, Fade 1-3
Histogram	Brightness/ RGB
Highlight Alert	Yes
Image Erase/Protection	Erase: Single image, Selected images, Selected range, All images Protection: Selected images, Selected range, All images. Unprotect all images
Menu Categories	(1) Shooting menu (x8) (2) Playback menu (x4) (3) Setup menu (x5) (4) Display menu (5) My Menu
Menu Languages	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
Firmware Update	Firmware update possible by the user.
INTERFACE	
Computer	Hi-Speed USB (Micro USB)
Other	Wireless LAN (IEEE802.11b/g/n), (2.4 GHz only, 1-11 ch) [6] Bluetooth® (Specification version 4.1, Bluetooth low energy technology) [7] [8] HDMI (Micro - Type-D connector), HDR output to compatible TV supported

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DIRECT PRINT

Canon Printers
Canon Compact Photo Printers and PIXMA Printers supporting PictBridge

PictBridge
Canon Compact Photo Printers and PIXMA Printers supporting PictBridge

STORAGE

Type
SD, SDHC, SDXC (UHS-I compatible)

SUPPORTED OPERATING SYSTEM

PC & Macintosh
See support pages for up-to-date information

SOFTWARE

Image Processing
Digital Photo Professional

Other
Picture Style Editor, EOS Utility, Image Transfer Utility
Camera Connect app available on iOS and Android devices [8]

POWER SOURCE

Batteries
1 x Rechargeable Li-ion Battery LP-E12

Battery life
Viewfinder: Approx. 250 shots
(at 23°C, AE 50%, FE 50%) [9]
Live view: Approx 305 shots
(at 23°C, AE 50%, FE 50%) [9]
4K Movie Recording: Approx. 95 mins
Full HD Movie Recording: Approx 130 mins
Playback time when playing back a slideshow of still images: Approx. 3 hrs 45 mins

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-E12
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), 388g (white), CIPA testing standard including battery and memory card

ACCESSORIES

Cases / Straps
Camera Jacket EH32-CJ (beige)
Camera Jacket EH32-CJ (light brown)
Neck Strap EM-E2 (light brown)
Neck Strap EM-E2(BW) (brown)
Neck Strap EM-E2(BK) (black)
Neck Strap EM-E2(WH) (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 EL100, 90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX III, 430EX III-RT, 470EX-AI, 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) Off-Camera Shoe Cord OC-E3, Speedlite Bracket SB-E2

Remote Controller/ Switch
Bluetooth Remote BR-E1

Other
Interface cable IFC-600PCU
Mount Adapter EF-EOSM

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

Footnotes:-

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

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

[3] Recommended Exposure Index

[4] When battery is fully charged

[5] 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.

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

[7] Equipped with Bluetooth® low energy tec
hnology. 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.

[8] Bluetooth functionilty 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)

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

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