



EOS M50 Mark II

Specifications

Type	
Type	Digital single-lens non-reflex AF/AE camera with built-in flash
Image Processor	DIGIC 8
Recording Media	SD/SDHC/SDXC memory cards • UHS-I compatible
Compatible Lenses	Canon EF-M lens group * Using mount adapter EF-EOS M: Canon EF or EF-S lenses. * RF mount lenses cannot be used.
Lens Mount	Canon EF-M mount
Image Sensor	
Type	CMOS sensor (supporting Dual Pixel CMOS AF)
Effective Pixels	Approx. 24.1 megapixels
Total Pixels	Approx. 25.8 megapixels
Aspect Ratio	3:2 (Horizontal:Vertical)
Screen Size	Approx. 22.3 x 14.9mm (APS-C)
Recording System	
File Format	Design rule for Camera File system 2.0, Exif 2.31 compliant, Supports time difference information
Data Type	RAW (Canon .CR3, 14-bit); C-RAW (Canon .CR3) and JPEG (8-bit) (12-bit A/D conversion for RAW images in continuous shooting mode)

Recording Pixels	<p>Large: Approx. 24.00 Megapixels Medium: Approx. 10.60 Megapixels Small 1: Approx. 5.90 Megapixels Small 2: Approx. 3.80 Megapixels RAW / C-RAW: Approx. 24.00 Megapixels</p> <p>3:2 Aspect Ratio Large: Approx. 24 MP (6000 x 4000) Medium: Approx. 10.6 MP (3984 x 2656) Small 1: Approx. 5.9 MP (2976 x 1984) Small 2: Approx. 3.8 MP (2400 x 1600) RAW / C-RAW: Approx. 24 MP (6000 x 4000)</p> <p>4:3 Aspect Ratio Large: Approx. 21.3 MP (5328 x 4000) Medium: Approx. 9.5 MP (3552 x 2664) Small 1: Approx. 5.3 MP (2656 x 1992) Small 2: Approx. 3.4 MP (2112 x 1600) RAW / C-RAW: Approx. 24 MP (6000 x 4000)</p> <p>16:9 Aspect Ratio Large: Approx. 20.2 MP (6000 x 3368) Medium: Approx. 8.9 MP (3984 x 2240) Small 1: Approx. 5.0 MP (2976 x 1680) Small 2: Approx. 3.2 MP (2400 x 1344) RAW / C-RAW: Approx. 24 MP (6000 x 4000)</p> <p>1:1 Aspect Ratio Large: Approx. 16 MP (4000 x 4000) Medium: Approx. 7.1 MP (2656 x 2656) Small 1: Approx. 3.9 MP (1984 x 1984) Small 2: Approx. 2.6 MP (1600 x 1600) RAW / C-RAW: Approx. 24 MP (6000 x 4000)</p> <ul style="list-style-type: none"> • The recording pixels number is rounded to the whole number nearest to 10,000 or 1,000.
RAW+JPEG Simultaneous Recording	Simultaneous recording of any combination of RAW/C-RAW/ and JPEG image recording quality is supported.
Folder Setting	Creating new folders and selecting folders in the card is possible.
File Numbering	Continuous, Auto Reset

Still Photo File Size / Number of Possible Shots / Maximum Burst for Continuous Shooting	Image Quality	Image File Size (approx. MB)	Possible Shots (approx.)* ¹	Maximum Burst (approx.)* ¹
	Large (Fine)	8.4	3600	36
	Large (Normal)	4.5	6610	35
	Medium (Fine)	4.6	6480	34
	Medium (Normal)	2.6	11400	34
	Small 1 (Fine)	3.1	9690	34
	Small 1 (Normal)	1.8	16010	34
	Small 2	1.8	16340	34
	RAW	27.2	1120	10
	C-RAW	15.8	1930	16
	RAW + Large (Fine)	27.2 + 8.4	850	10
C-RAW + Large (Fine)	15.8 + 8.4	1250	14	

^{*1} The number of possible shots and maximum burst apply to a UHS-I compliant 32GB card based on Canon testing standards.
^{*2} File size, number of possible shots, and maximum burst vary depending on shooting conditions (including subject, ISO speed, Picture Style, and Custom Function).

Image Processing During Shooting

Picture Style	<ul style="list-style-type: none"> • Auto • Standard • Portrait • Landscape • Fine Detail • Neutral • Faithful • Monochrome • User Defined 1–3
White Balance	<ul style="list-style-type: none"> • Auto (Ambience priority/White priority) • Daylight • Shade • Cloudy*¹ • Tungsten light • White fluorescent light • Flash • Color temperature • Custom (Custom WB)*² • White Balance Shift — blue~amber and/or magenta~green; ± 9 levels <p>^{*1} Effective also in twilight and sunset. ^{*2} Custom white balance is not available for monochrome images and images with Creative filters applied.</p>
Noise Reduction	<ul style="list-style-type: none"> • High ISO speed NR — Disable, Low, Standard, High, or Multi-shot NR possible (Applies to all ISO speeds) • Long Exposure noise reduction (at shutter speeds 1 second and longer) — Disable, Enable, or Enhanced
Automatic Image Brightness Correction	Auto Lighting Optimizer (Disable, Low, Standard, or High) (Not available if Highlight Tone Priority is active)
Highlight Tone Priority	Still photo shooting(Disable, Enable or Enhanced) Movie recording (Disable, Enable)

Lens Aberration Correction	<ul style="list-style-type: none"> • Peripheral illumination correction • Distortion correction • Digital Lens Optimizer (DLO) • Chromatic aberration correction • Diffraction correction 				
Creative Assist	<p>During shooting (in Scene Intelligent Auto):</p> <ul style="list-style-type: none"> • Vivid, Soft, Warm, Cool, Green, Shine, Lime, Peach, B&W, Blue, Purple • Image Creation Effects — Background blur, Brightness, Contrast, Saturation, Color Tone 1, Color-tone 2, Monochrome <p>Creative Assist during playback (RAW or C-RAW images):</p> <ul style="list-style-type: none"> • Auto 1, Auto 2, Auto 3, Vivid, Soft, Warm, Cool, Green, Shine, Lime, Peach, B&W, Blue, Purple, Normal • Image Creation Effects — Brightness, Contrast, Saturation, Color tone 1, Color tone 2, Monochrome 				
Autofocus					
Type	Dual Pixel CMOS AF (1-point AF, Spot AF, Face+Tracking priority AF, Zone AF)				
AF Points	Still photo shooting: Up to 143 zones (Maximum) Video shooting: Up to 117 zones (Maximum)				
Focusing Brightness Range	Still photo shooting: EV -4–18 (at Center AF point, room temperature, ISO 100, f/1.4, in One-Shot AF) Video shooting: EV -2–18 (When set to Face+Tracking. Except for Miniature effect movie).				
AF Operation	One-Shot AF, Servo AF, or Manual Focus				
Touch & Drag AF	Supported (When [Tap to select subject] is disabled)				
Tap to Select Subject	<p>Tap the area on the right of the active touch area to switch to the subject on the right, the area on the left to switch to the subject on the left.</p> <table border="1"> <tr> <td>Face+Tracking Tap to select subject</td> <td>Enable / Disable</td> </tr> <tr> <td>Active Touch Area</td> <td>Right, Left, Top, Bottom, Top right, Bottom right, Top left, Bottom left</td> </tr> </table> <p>* Can be set when [Touch & Drag AF] is disabled.</p>	Face+Tracking Tap to select subject	Enable / Disable	Active Touch Area	Right, Left, Top, Bottom, Top right, Bottom right, Top left, Bottom left
Face+Tracking Tap to select subject	Enable / Disable				
Active Touch Area	Right, Left, Top, Bottom, Top right, Bottom right, Top left, Bottom left				
AF Assist Beam	Built-in LED lamp				
Exposure Control					
Metering Modes	384-zone (24x16) metering using the image sensor.				
Brightness Metering Range	Stills: EV -2–20 (at room temperature 73°F/23°C, ISO 100) Video: EV 0–20 (at room temperature 73°F/23°C, ISO 100)				
Exposure Control	<p>Via SHOOTING MODE in menu:</p> <ul style="list-style-type: none"> • Program AE, Shutter-priority AE, Aperture-priority AE, or Manual (B is selected as shutter speed setting in Manual mode) 				
ISO Speed Range (Recommended Exposure Index)	Stills: ISO 100–25600 (in 1/3-stop increments) Video: ISO 100-12800; H: 25600				
Exposure Compensation	Manual: ±3 stops in 1/3-stop increments				
AE Lock	Manual, Auto (exposure locked after focusing, in One-Shot AF with Evaluative metering)				

Shutter											
Type	Electronically controlled focal-plane shutter * Electronic 1st / mechanical 2nd curtain * Except when Silent Mode is set Rolling shutter, using the image sensor * Electronic shutter * When Silent Mode is set										
Shutter Speeds	Creative Zone: 1/4000 to 30 sec., bulb *X-sync at 1/200 sec. Basic Zone: 1/4000 to 1 sec. * Varies depending on shooting mode										
Flash Units											
Built-in Flash	Manual pop-up flash (Max. Guide Number approx. 16.4 [ft] / 5.0 [m], at ISO 100)										
Flash Metering Mode	Evaluative (Face Priority) / Evaluative / Average										
Flash Exposure Compensation	±2 stops in 1/3-stop increments										
FE Lock	Provided										
Continuous Shooting Priority (CSP) mode	Supported * EL-100 Mode dial set to ON * Flash mode set to CSP * ISO speed is automatically set to ISO Auto										
External Flash	<ul style="list-style-type: none"> • EX and EL series Speedlites • Speedlite Transmitter ST-E3-RT • Speedlite Transmitter ST-E2 • Off-Camera Shoe Cord OC-E3 										
Drive, Self-timer System											
Drive Mode and Continuous Shooting Speed (Approx.)	<table border="1"> <thead> <tr> <th>Single Shooting</th> <th>Single Shooting</th> </tr> </thead> <tbody> <tr> <td>Continuous Shooting</td> <td>When set to ONE SHOT AF: Max. Approx. 10 shots/sec.*¹ When set to SERVO: Max. Approx. 7.4 shots/sec.*¹</td> </tr> <tr> <td>Self-timer: 10 sec. / Remote Control</td> <td>Single shooting with a remote control*²</td> </tr> <tr> <td>Self-timer: 2 sec.</td> <td>Shoots 2 sec. after the shutter button is pressed</td> </tr> <tr> <td>Self-timer: Continuous</td> <td>Takes the specified number of shots 10 sec. after the shutter button is pressed</td> </tr> </tbody> </table>	Single Shooting	Single Shooting	Continuous Shooting	When set to ONE SHOT AF: Max. Approx. 10 shots/sec.* ¹ When set to SERVO: Max. Approx. 7.4 shots/sec.* ¹	Self-timer: 10 sec. / Remote Control	Single shooting with a remote control* ²	Self-timer: 2 sec.	Shoots 2 sec. after the shutter button is pressed	Self-timer: Continuous	Takes the specified number of shots 10 sec. after the shutter button is pressed
	Single Shooting	Single Shooting									
	Continuous Shooting	When set to ONE SHOT AF: Max. Approx. 10 shots/sec.* ¹ When set to SERVO: Max. Approx. 7.4 shots/sec.* ¹									
	Self-timer: 10 sec. / Remote Control	Single shooting with a remote control* ²									
	Self-timer: 2 sec.	Shoots 2 sec. after the shutter button is pressed									
Self-timer: Continuous	Takes the specified number of shots 10 sec. after the shutter button is pressed										
* ¹ Conditions for maximum continuous shooting speed are as follows: fully charged Battery Pack LP-E12, shutter speed: 1/1000 sec. or faster, room temperature (73°F/23°C), 12 bit											
* ² BR-E1: Supported / RC-6: Not supported											
Self-timer Mode	Off, 2-second self-timer, 10-second self-timer, Continuous timer										
Live View Functions											
Aspect Ratio Settings	3:2, 4:3, 16:9, 1:1 (Frame Grab images from 4K movies cannot be cropped)										
Focus Mode	AF, MF, AF+MF (Manual focus after One-Shot AF) MF peaking provided										
Continuous AF	Provided										
Touch Shutter	Provided										
Grid Display	Off / 3x3 / 6x4 / 3x3+diag										
Depth of Field Preview	Provided										
Video Shooting											
Recording System	MP4										

File Format	Video: MPEG-4 AVC / H.264 • Variable (averaged) bit rate Audio: AAC							
Live Streaming	Supported							
Recording Size and Frame Rate	Movie Recording		Resolution	Frame Rate (fps)¹	Compression Format	Audio	Recording Format	
	4K (UHD)^{*1}		3840 x 2160	23.98	IPB (Standard)	AAC	MP4	
	Full HD		1920 x 1080	59.94 29.97 23.98				
	HD		1280 x 720	59.94				
	Hybrid Auto	Full HD	1920 x 1080	59.94 29.97 23.98				
		HD	1280 x 720	59.94				
	Video Snapshot	Full HD	1920 x 1080	29.97 23.98				
	Miniature Effect Movies^{*2}	Full HD	1920 x 1080	29.97 23.98				
	High Frame Rate Movies^{*2*3}	HD	1280 x 720	119.88				
	Time-lapse Movies^{*2*3}	4K^{*1}	3840 x 2160	29.97	ALL-I	-		
Full HD		1920 x 1080	29.97					
^{*1} The image is cropped around the center of the image sensor. ^{*2} Sound recording, Movie Servo AF, Movie Digital IS, and Movie Auto Level are disabled. ^{*3} AF disabled during shooting.								
Movie Exposure Modes	Movie Auto Exposure; Movie Manual Exposure							
Metering Mode	Evaluative metering / Center-weighted metering (when no faces are detected)							
Exposure Compensation	±3 stops in 1/3-stop increments							
ISO Speed (Recommended Exposure Index)	ISO 100- Maximum 6400/12800 H:25600							
Miniature Effect Movie	Provided (Full HD 1920 x 1080, 29.97 fps)							
Still Image Shooting	Provided (Possible with Hybrid Auto setting; HD 1280 x 720 at 29.97 fps)							
Continuous Shooting Time	Video Recording Size			32GB	128GB	File Size (approx.)		
	4K (3840 x 2160)	23.98 fps	IPB (Standard)	35 min.	2 hr. 21 min.	120 Mbps 861 MB/min.		
		Full HD (1920 x 1080)		59.94 fps	1 hr. 10 min.	4 hr. 43 min.	60 Mbps 432 MB/min.	
	29.97 fps 23.98 fps			2 hr. 20 min.	9 hr. 23 min.	30 Mbps 217 MB/min.		
	HD (1280 x 720)	59.94 fps		2 hr. 42 min.	10 hr. 49 min.	26 Mbps 188 MB/min.		
		119.88 fps		1 hr. 22 min.	5 hr. 28 min.	52 Mbps 372 MB/min.		
	[*] Limitations of video shooting: continuous shooting is possible until the memory card becomes full or the recording length for one video reaches approx. 29 minutes and 59 seconds (or 7 min. 29 sec. for a HD High Frame Rate Movie). [*] Recording bit rate of movie images only, sound data not included.							
Sound Recording	Built-in stereo microphones, recording level adjustable, wind filter provided, attenuator provided							

Card Performance Requirements	Video Recording Size			SD card
	4K (UHD) (3840 x 2160)	IPB (standard)	23.98 fps	UHS-I, UHS speed Class 3 or higher
	Full HD (1920 x 1080)	IPB (standard)	59.94 fps	SD Speed Class 10 or higher
		IPB (standard)	29.97 fps	SD Speed Class 6 or higher
	HD (1280 x 720)	IPB (standard)	59.94 fps	SD Speed Class 4 or higher
			119.88 fps	SD Speed Class 10 or higher
Time-lapse move 4K (UHD) (3840 x 2160)	ALL-I	29.97 fps	Read speed of 40 MB/s or higher	
Time-lapse move Full HD (1920 x 1080)		29.97 fps	Read speed of 20 MB/s or higher	

Screen (Monitor)	
Type	TFT color, liquid-crystal monitor
Menu Magnification	Double-tap-based supported * You can double-tap with two fingers to zoom in on the area centered between the two double-tapped points.
Screen Size	3.0-inch type
Dots	Approx. 1.04 million dots
Brightness Adjustment	Manually adjustable to one of seven brightness levels
Angle of View	Approx. 170° vertically and horizontally
Interface Languages	29 (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)
Hints & Tips	Displayable

Playback Functions	
Playback Methods	Playback on camera's LCD screen <ul style="list-style-type: none"> • HDMI playback to compatible TVs - (AV cables not supported) • Playback on computer screen - (requires compatible software)
Playback Display Options	<ul style="list-style-type: none"> • Single image, or 4, 9, 36, or 100-image index • Viewing options via INFO button: full image, full image with basic info, thumbnail image with histogram and detailed shooting info, RGB and Brightness histograms with lens info
Zoom Magnification	Approx. 1.5x to 10.0x (Can be activated by double-tapping)
Image Browsing Methods	<ul style="list-style-type: none"> • Single image • 10 images • Specified number (1-100 images) • Date • Folder • Movies • Still images • Protected images • Ratings
Image Rotate	Provided
Rating	Provided (Off, 1~5 stars)

Video Playback	Provided (with built-in speaker)
Playback Time	Approx. 4 hr. 55 min. * With a fully charged LP-E12 * Time when playing back a slideshow of still photos
Slideshow	<ul style="list-style-type: none"> • All images • Repeat: Enable / Disable • Slideshow of images after selection from the search list • Background music: Off / On
Post-processing of Images	
Creative Filters	<ul style="list-style-type: none"> • Grainy B/W • Soft focus • Fish-eye effect • Art bold effect • Water painting effect • Toy camera effect • Miniature effect
Cropping	Cropping frame movement: Vertical / Horizontal Cropping range: Up to 42 sizes Tilt correction Aspect ratio (3:2, 16:9, 4:3, 1:1, 2:3, 9:16, 3:4) * Frame grab images from 4K movies cannot be cropped.
Resize	M, S1, S2 * Frame grab images from 4K movies cannot be resized.
Red-eye Reduction	Provided
Direct Printing	
Compatible Printers	PictBridge
Printable Images	<ul style="list-style-type: none"> • JPEG • RAW / C-RAW
Custom Functions	
Custom Functions	5 Available
Customizable Buttons	Stills :Shutter button, AE lock button, Multi-function button, Movie button, Exposure comp. button, AF/MF button, Flash button, Erase button. Movie:AE lock button, Multi-function button, Exposure comp. button, AF/MF button, Flash button, Erase button
Copyright Info	Provided
Interface	
Digital Terminal	USB Micro-B (Hi-Speed USB 2.0 compliant)
HDMI OUT Terminal	Type D (resolution switches automatically) <ul style="list-style-type: none"> • HDMI output while recording (shooting screen without sound) provided • CEC not supported
Wireless Remote Control	<ul style="list-style-type: none"> • Compatible with Wireless Remote Control BR-E1 • Not compatible with accessories using the infrared transmission system of Remote Controller RC-6

Wi-Fi® (Wireless LAN)	
Standards Compliance	IEEE 802.11b/g/n
Transmission Method	DS-SS modulation (IEEE 802.11b), OFDM modulation (IEEE 802.11g/n)
Transmission Frequency (Central Frequency)	Frequency: 2412–2462 MHz Channels: 1–11 ch
Connection Method and Security	<p>(1) Infrastructure mode</p> <ul style="list-style-type: none"> a. WPA2-PSK <ul style="list-style-type: none"> i. AES ii. TKIP b. WPA-PSK <ul style="list-style-type: none"> i. AES ii. TKIP c. Open <ul style="list-style-type: none"> i. WEP ii. None d. Wi-Fi® Protected Setup compliant <p>(2) Camera access point mode</p> <ul style="list-style-type: none"> a. WPA2-PSK <ul style="list-style-type: none"> i. AES b. Open <ul style="list-style-type: none"> i. None
Network Functions	
Supported Wireless Functions	<ul style="list-style-type: none"> • Connect to compatible smart phone or tablet • Remote-control camera from compatible mobile device • Remote-control camera with optional Canon BR-E1 Remote Controller • Send still images or video files to mobile device • Upload images to Web service • Send images to compatible computer • Print to compatible Wi-Fi enabled printer • Geo-tag in-camera images with GPS data from compatible smart phone (Bluetooth required)
Transfer Images Between Cameras	Not Possible
Connection to Smart phones	Connect with free Canon Camera Connect app (Android and iOS versions available for compatible mobile devices)
Wireless Connection Types	Wi-Fi® and Bluetooth v. 4.2 (low-energy)

Power Supplies					
Battery	Battery Pack LP-E12				
Number of Photos Taken		Shooting Method	Temperature	Shooting Conditions	
				AE: 100% (Flash off)	
				Flash 50%	
	Possible shots for still photo shooting	Viewfinder Shooting	73°F / 23°C	Approx. 275 shots	Approx. 250 shots* ¹
			32°F / 0°C	Approx. 245 shots	Approx. 230 shots
	On-screen Shooting	73°F / 23°C	Approx. 320 shots	Approx. 305 shots* ¹	
		32°F / 0°C	Approx. 305 shots	Approx. 280 shots	
<p>* With a fully charged LP-E12 battery. * With [Display performance: Power saving] (default setting). *¹ CIPA testing standards compliant.</p>					
Dimensions and Weight					
Dimensions (W x H x D)	Approx. 4.58 x 3.47 x 2.31 in. (116.3 x 88.1 x 58.7mm) • CIPA compliant.				
Weight	<p>Black: Approx. 13.65 oz. / 387g (Including battery pack and memory card) Approx. 12.35 oz. / 350g (Body only)</p> <p>White: Approx. 13.69 oz. / 388g (Including battery pack and memory card) Approx. 12.38 oz. / 351g (Body only)</p> <p>* Without body cap *¹: Based on CIPA guidelines</p>				
Operating Environment					
Working Temperature Range	32–104°F / 0–40°C				
Working Humidity Range	85% or less				