

**Canon**

# EOS M50

Help Guide

ENGLISH

## Specifications

### Type

Category ..... Digital single-lens non-reflex AF/AE camera

### Image Sensor

Image size  
Shooting screen size  
(Recording image size)..... Approx. 22.3 x 14.9 mm

Number of pixels  
Camera Effective Pixels  
(Pixels may decrease due  
to image processing)..... Approx. 24.1 megapixels  
Total Pixels..... Approx. 25.8 megapixels

Aspect ratio..... 3:2

Dust removal feature (Auto/Manual)..... Provided

### Focus Control

AF method ..... Face+Tracking AF, Zone AF,  
1-point AF

Face+Tracking AF  
AF points (max.)  
(Switches automatically depending  
on the lens type)..... 143/99 points

Zone AF  
AF frames (max.) ..... 25 frames

Focusing Brightness Range  
(room temperature 23 °C/73 °F, ISO 100,  
when using EF-M22mm F2 STM)

EV value ..... -2 - 18

### Focus operation

#### Still Image

TTL autofocus..... One-Shot AF, Servo AF  
Continuous AF ..... Provided  
MF (Manual focus)..... MF peaking, Electronic manual  
focus on lens (focus is manually  
adjusted after One-Shot AF  
operation)

#### Movie

MF (Manual focus)..... MF peaking, Electronic manual  
focus on lens (focus is manually  
adjusted after One-Shot AF  
operation)

Movie servo AF (Fixed to AF

for High Frame Rate Movies)..... Provided

Magnified display in Live View..... Approx. 5x / Approx. 10x

Touch & drag AF ..... Provided

Eye detection AF (Fixed to One-Shot AF)... Provided

AF-assist Beam ..... Built-in LED lamp

### Exposure Control

#### Metering mode

Still Image ..... Real-time metering using the  
image sensor (Evaluative  
metering, Partial metering, Spot  
metering, Center-weighted  
average)

Movie ..... Real-time metering using the  
image sensor (Center-weighted  
average)

Brightness metering range (room temperature 23 °C/73 °F, ISO 100)

Still Image EV value ..... 0 - 20

Movie EV value ..... 0 - 20

#### Exposure control

Still Image ..... Program AE, Shutter priority AE,  
Aperture priority AE, Manual  
exposure

Exposure control

Still Image

- Exposure compensation .....±3 stop in 1/3-stop increments
- Program Shift..... Provided
- AE lock ..... Manual/Auto
- AE Bracketing .....±2 stop in 1/3-stop increments  
(Can be used together with manual compensation)

Movie

- Exposure compensation .....±3 stop in 1/3-stop increments
- AE lock ..... Manual

ISO speed (recommended exposure index)

Still Image

ISO Auto Range

- Min. speed (AUTO mode).....ISO 100
- Max. speed (AUTO mode).....ISO 6400
- Max. speed limit setting  
in ISO Auto ..... P mode, Tv mode, Av mode,  
M mode, When movie manual exposure is selected

Available speed settings (P mode)

- Min. speed .....ISO 100
- Max. speed .....ISO 25600
- Expanded .....ISO 51200
- Number of stop(s) that  
can be set..... 1/3-stop

Movie

4K (3840 x 2160)

- Auto settings
  - Min. speed .....ISO 100
  - Max. speed .....ISO 6400
- Manual settings
  - Min. speed .....ISO 100
  - Max. speed .....ISO 6400
  - Expanded .....ISO 6400

Full HD (1920 x 1080)

- Auto settings
  - Min. speed .....ISO 100
  - Max. speed .....ISO 12800
- Manual settings
  - Min. speed .....ISO 100
  - Max. speed .....ISO 12800
  - Expanded .....ISO 25600

HD (1280 x 720)

- Auto settings
  - Min. speed .....ISO 100
  - Max. speed .....ISO 12800
- Manual settings
  - Min. speed .....ISO 100
  - Max. speed .....ISO 12800
  - Expanded .....ISO 25600

## White Balance

WB settings.....Auto (Ambience priority, White priority), Day Light, Shade, Cloudy, Tungsten light, White fluorescent light, Flash, Custom, Color temperature

White balance correction ..... Provided

## Shutter

Method.....Electronically controlled focal-plane shutter (Focal-plane, Touch Shutter)

Silent shutter..... Provided

Shutter Speed

BULB (Shooting mode : M Only)..... Provided

Total shutter speed range

Max. Tv ..... 30 sec.

Min. Tv ..... 1/4000 sec.

Fastest synchronized shutter speed with flash..... 1/200 sec.

## Flash

Built-in Flash

Type..... Manual pop-up flash

Specification

Guide number (ISO 100/m)..... Gno. Approx. 5

Flash control ..... E-TTL II metering, Red-eye reduction

## Viewfinder/Monitor

Electronic color viewfinder

Screen Size ..... 0.39 type

Number of dots ..... Approx. 2.36 million dots

Monitor

Type ..... TFT color liquid crystal

Screen Size ..... 3.0 type

Number of dots ..... Approx. 1.04 million dots

Depth-of-field preview ..... Provided

## Shooting

Image Processing

Noise reduction

Long exposure shots ..... At exposure of one second and above and at bulb exposure

High ISO speed shots..... At any ISO Speed

Image correction

Auto Lighting Optimizer ..... Provided

Highlight tone priority ..... Provided

Lens correction

(EF-M lens has in-lens correction data) .... Peripheral illumination correction, Distortion correction, Digital lens optimizer, Chromatic aberration correction, Diffraction correction

Picture Style..... Auto, Standard, Portrait, Landscape, Fine Detail, Neutral, Faithful, Monochrome, User Def.1, User Def.2, User Def.3

## Continuous shooting

Drive Mode ..... Single shooting, High-speed continuous shooting, Low-speed continuous shooting

### Shooting speed

#### One-Shot AF

High-speed continuous shooting speed ..... Max.: approx. 10.0 shots/sec.










Low-speed continuous shooting speed ..... Max.: approx. 4.0 shots/sec.

#### Servo AF

High-speed continuous shooting speed ..... Max.: approx. 7.4 shots/sec.

Low-speed continuous shooting speed ..... Max.: approx. 4.0 shots/sec.

### Maximum number of shots at burst

	Approx. 33 shots
	
	Approx. 30 shots
	
	Approx. 29 shots
	
	Approx. 30 shots
	
	Approx. 10 shots

## Recording

File Format..... DCF-compliant DPOF compatible (Version 1.1)

### Data type

#### Still Images

Recording Format..... Exif 2.31 (DCF 2.0)

Image (RAW images taken in continuous shooting are A/D converted into 12-bit format.)..... JPEG/RAW (CR3 a Canon 14-bit RAW format)

#### Movies

Recording Format..... MP4

Video..... MPEG-4 AVC/H.264  
Variable (average) bit rate

Audio ..... MPEG-4 AAC-LC (stereo)

Built-in microphone..... Stereo

Rec. level adjustment ..... Provided

Wind Filter

(when using built-in microphone)..... Provided

Attenuator ..... Provided

Number of shots per a memory card  
 Still Image (Measured at ISO100)  
 Using a 32 GB (UHS-I) memory card

Image quality	Number of shots per a memory card (Approx.)
	3651 shots
	6782 shots
	6645 shots
	11741 shots
	9948 shots
	16455 shots
	16874 shots
	1084 shots
	835 shots

Movies  
 Using a 32 GB (UHS-I) memory card

Image quality	Recording file size (Approx.)	Recordable time per a memory card (Approx.)
	15000 KB/sec.	35 min. 33 sec.
	7500 KB/sec.	1 hr. 11 min. 7 sec.
	3750 KB/sec.	2 hr. 22 min. 13 sec.
	6500 KB/sec.	1 hr. 22 min. 3 sec.
	3250 KB/sec.	2 hr. 44 min. 6 sec.

- Continuous recording is possible until the memory card becomes full or a single recording reaches approx. 29 minutes and 59 seconds. (Or when a single or recording reaches approx. 7 minutes and 29 seconds.)

Recording Media.....	SD/SDHC/SDXC memory cards
Create Folder.....	Immediately, Folder selection
File Numbering .....	Continuous, Auto Reset, Manual reset

## Playback

Zoom magnification display	
Zoom magnification .....	Min.: approx. 1.5 x Max.: approx. 10.0 x
Movie playback .....	Built-in speaker
Highlight alert/ Overexposed highlights blink.....	Provided
Rating .....	Provided
Protect .....	Provided
In-camera RAW image processing .....	Provided
Frame grab (4K movies only) .....	Provided
Image browsing methods.....	Single image, Jump 10 images, Set number of shots, Date, Folder, Movies, Stills, Protected images, Image search (Rating, Date, Protected images, Type of file)
Slideshow .....	All images, Slideshow of images after selection from the search list
Post-processing of images (Possible only with images taken with same model).....	Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect), Resize, Cropping (Tilt correction), Red-Eye Correction

## Customizing

Customizable buttons and controls..... Shutter button, Cross button (up, down, left, right), AE lock button, M-Fn button, Movie button

Copyright Info ..... Provided

## Power

Battery Pack ..... LP-E12

Number of Still Image Shots

(CIPA compliant : room temperature 23 °C/73 °F)

Monitor On..... Approx. 235 shots (Approx. 290 shots when power saving is enabled)

Electronic color viewfinder On ..... Approx. 235 shots (Approx. 290 shots when power saving is enabled)

Number of Still Image Shots (Eco Mode On)

Monitor On..... Approx. 370 shots (Approx. 425 shots when power saving is enabled)

Movie Recording Time

(CIPA compliant : room temperature 23 °C/73 °F)

Monitor On..... Approx. 85 min.

Electronic color viewfinder On ..... Approx. 85 min.

Movie Recording Time (Continuous Shooting)\*

Monitor On..... Approx. 130 min.

Electronic color viewfinder On ..... Approx. 130 min.

\* Total shooting time when shooting is performed under the following conditions:

- Using default AUTO Mode
- Without using zooming and other operations
- When max. recording time per movie is reached and recording stops/resumes automatically

Playback Time (Time when playing back

a slideshow of still images)..... Approx. 4 hr.

## Interface

Wired

Digital terminal

(Hi-Speed USB compliant) ..... Micro USB

HDMI OUT terminal ..... Type D

HDMI output while recording (shooting screen without sound)

HDMI output to HDR compatible TVs (Movie playback not supported.

JPEG images are not displayed in HDR)

Wireless

NFC ..... NFC Forum Type 3/4 Tag compliant (Dynamic)

Bluetooth

Compliance standards ..... Bluetooth Ver. 4.1 (Bluetooth low energy technology)

Transmission scheme ..... GFSK modulation scheme

Wi-Fi

Compliance standards ..... IEEE 802.11b (DS-SS modulation), IEEE 802.11g (OFDM modulation), IEEE 802.11n (OFDM modulation)

Transmission frequency

Frequency..... 2401 - 2473 MHz

Channels ..... 1 - 11 ch

Security

Infrastructure mode ..... WPA2-PSK (AES/TKIP), WPA-PSK (AES/TKIP), WEP  
\* Wi-Fi Protected Setup compliant

Camera access point mode..... WPA2-PSK (AES)

## Operating Environment

Temperature..... Min.: 0 °C (32 °F),  
Max.: 40 °C (104 °F)  
Humidity..... Available humidity: 85 % or less

## Dimensions (CIPA compliant)

W ..... Approx. 116.3 mm (Approx. 4.6 in.)  
H ..... Approx. 88.1 mm (Approx. 3.5 in.)  
D ..... Approx. 58.7 mm (Approx. 2.3 in.)

## Weight (CIPA compliant)

Black  
Including Battery Pack,  
Memory Card ..... Approx. 387 g (Approx. 13.7 oz.)  
Camera Body Only ..... Approx. 351 g (Approx. 12.4 oz.)

White  
Including Battery Pack,  
Memory Card ..... Approx. 390 g (Approx. 13.8 oz.)  
Camera Body Only ..... Approx. 354 g (Approx. 12.5 oz.)

## Battery Pack LP-E12

Type ..... Rechargeable lithium-ion battery  
Rated voltage..... 7.2 V DC  
Battery capacity ..... 875 mAh  
Working temperature range ..... Charging:  
5 °C - 40 °C (41 °F - 104 °F)  
Shooting:  
0 °C - 40 °C (32 °F - 104 °F)

## Battery Charger LC-E12/LC-E12E

Compatible battery..... Battery Pack LP-E12  
Recharging time..... Approx. 2 hours (at room  
temperature)  
Rated input ..... 100 - 240 V AC (50/60 Hz)  
Rated output ..... 8.4 V DC / 540 mA  
Working temperature range ..... 5 °C - 40 °C (41 °F - 104 °F)

- 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.