Canon
SEE IMPOSSIBLE

EOS REBEL T7i

Specifications

Type	
Type	Digital AF/AE single-lens reflex camera with built-in flash
Recording Media	SD/SDHC/SDXC memory cards • SD speed class-compatible • UHS-I compatible • High-speed writing is supported when a UHS-I compatible SD card is used. • Compatible with Eye-Fi Cards. • Multimedia cards (MMC) cannot be used (card error will be displayed).
Image Format	Approx. 22.3 x 14.9mm (APS-C Size)
Compatible Lenses	Canon EF lenses (including EF-S lenses, excluding EF-M lenses)
Lens Mount	Canon EF mount
Image Sensor	
Type	CMOS sensor (supporting Dual Pixel CMOS AF)
Pixels	Effective pixels: Approx. 24.2* Megapixels Total pixels: Approx. 25.8* Megapixels * Rounded to the nearest 100,000.
Pixel Unit	Approx. 3.72 µm square
Aspect Ratio	3:2 (Horizontal:Vertical)
Color Filter System	RGB primary color filters
Low Pass Filter	Installed in front of the image sensor, non-detachable
Dust Deletion Feature	(1) Self Cleaning Sensor Unit • Removes dust adhering to the low-pass filter. • Self-cleaning activated automatically (in-progress display for approx. 2 sec.) when power is turned on or off. Manual operation also possible (in-progress display for approx. 7 sec.). • After the cleaning is performed, the camera will automatically restart (power OFF to ON). (2) Dust Delete Data acquisition and appending • The coordinates of the dust adhering to the low-pass filter are detected by a test shot and appended to subsequent images. • The dust coordinate data appended to the image is used by the provided software to automatically erase the dust spots. (3) Manual cleaning
Recording System	
Recording Format	Compliant to Design rule for Camera File system 2.0 and EXIF 2.3

File Size	3:2 Aspect Ratio Large: 6000 x 4000 Medium: 3984 x 2656 Small 1: 2976 x 1984 Small 2: 2400 x 1600 RAW: 6000 x 4000 4:3 Aspect Ratio Large: 5328 x 4000 Medium: 3552 x 2664 Small 1: 2656 x 1992 Small 2: 2112 x 1600 RAW: 6000 x 4000 16:9 Aspect Ratio Large: 6000 x 3368 Medium: 3984 x 2240 Small 1: 2976 x 1680 Small 2: 2400 x 1344 RAW: 6000 x 4000 1:1 Aspect Ratio Large: 4000 x 4000 Medium: 2656 x 2656 Small 1: 1984 x 1984 Small 2: 1600 x 1600 RAW: 6000 x 4000
File Numbering	The following three types of file numbering method can be set: (1) File numbering method Continuous numbering • The numbering of captured images will continue even after you replace the camera's card. Auto reset • When you replace the camera's card, the numbering will be reset to start from 0001. If the new card already contains images, the numbering will continue from the last recorded image in the card. (2) Manual reset • Resets the file number to 0001, and creates a new folder automatically.
RAW + JPEG Simultaneous Recording	Simultaneous recording is possible using a combination of RAW and JPEG (Large).
Color Space	sRGB/Adobe RGB
Picture Style	(1) Auto (2) Standard (3) Portrait (4) Landscape (5) Fine Detail (6) Neutral (7) Faithful (8) Monochrome (9) User Def. 1–3 • In Basic Zone modes, [Auto] will be set for <Fish-eye effect> and <HDR art standard> of the <Creative filters> mode, and [Standard] will be set for other modes. • In Creative Zone modes, you can select or set the Picture Style. • [Auto] is the default setting for [User Def. 1–3].

White Balance	
Settings	(1) Auto (Ambience priority / White priority) (2) Daylight (3) Shade (4) Cloudy* (5) Tungsten light (6) White fluorescent light (7) Flash (8) Custom (Custom WB) * Effective also in twilight and sunset.
Auto White Balance	Option between ambience priority and white priority settings
Color Temperature Compensation	Blue/amber bias: ±9 levels Magenta/green bias: ±9 levels • Corrected in reference to the current WB mode's color temperature.
Viewfinder	
Type	Eye-level SLR (with fixed pentamirror)
Coverage	At approx. 19mm eyepoint

Aspect ratio		
	3.2	Approx. 95% vertically/horizontally
	4:3	Approx. 95% vertically/horizontally
	16:9	Approx. 93% vertically Approx. 95% horizontally
	1:1	Approx. 95% vertically/horizontally

Magnification	Approx. 0.82x / 23.2° (with 50mm lens at infinity, $-1m^{-1}$)
Eye Point	Approx. 19mm (at $-1m^{-1}$ from the eyepiece lens center)
Dioptric Adjustment Correction	Adjustable from approx. -3.0 to $+1.0m^{-1}$ (dpt)
Focusing Screen	Fixed
Mirror	Quick-return all-surface half mirror
Viewfinder Information	Displayed with transparent liquid crystal (1) AF point information • Including Area AF frame (2) Spot metering circle (3) Electronic level (4) Grid (5) Aspect line (6) Flicker detection
Depth of Field Preview	Provided with depth of field preview button
Autofocus (During viewfinder shooting)	
Type	TTL secondary image-forming phase-difference detection system with AF-dedicated sensor

AF Points

Up to 45 points (cross-type AF points: max. 45)

AF Points and AF Patterns	AF Points (max.)
Dual cross-type AF points supporting f/2.8 and f/5.6	1
Cross-type AF points supporting f/5.6	45
AF points supporting f/8	27 (Cross-type AF point 9)

- The number of AF points, cross-type AF points and dual cross-type AF points varies depending on the lens used.
- Note that, with aspect ratio of 1:1, the maximum number of AF points becomes 35. (Each left and right end line of AF points in total of ten are not usable.)

AF Working Range

Conditions: One-Shot AF, at 73°F/23°C, ISO 100 (based on Canon's testing standards and environment)

AF Point	Brightness
One center AF point focusing supporting f/2.8	EV -3 to 18
One center AF point focusing supporting f/5.6	EV -1 to 18
Peripheral AF points focusing supporting f/5.6	EV -0.5 to 18

Focusing Modes

(1) Autofocus
1. One-Shot AF
2. Predictive AI Servo AF (AI Servo AF II)
3. AI Focus AF
   - Switches between One-Shot AF and AI Servo AF automatically.

(2) Manual focus

AF Point Selection

(1) Single-point AF (Manual selection)
- The checkmark cannot be removed from this option.

(2) Zone AF (Manual selection of zone)
- All the AF points are divided into nine focusing zones.

(3) Large Zone AF (Manual selection of zone)
- All the AF points are divided into three focusing zones.

(4) Automatic selection AF (45 points)

AF Assist Beam

Intermittent firing of built-in flash
Effective range

Center	Approx. 13.1 ft. / 4.0m
Periphery	Approx. 11.5 ft. / 3.5m

- With an EOS-dedicated Speedlite attached, the Speedlite's AF-assist beam is emitted instead.

Exposure Control

Metering Mode

7560-pixel RGB+IR metering sensor
63-zone (9 x 7) metering
(1) Evaluative metering (linked to all AF points)
(2) Partial metering (center, approx. 6.0% of viewfinder)
(3) Spot metering (center, approx. 3.5% of viewfinder)
(4) Center-weighted average metering

Metering Range

EV 1–20 (room temperature, ISO 100, evaluative metering)

Exposure Control Systems

(1) Creative Zone
- 1) Program AE (Shiftable)
- 2) Shutter-priority AE
- 3) Aperture-priority AE
- 4) Manual exposure (including bulb)

(2) Basic Zone
- 1) Scene Intelligent Auto (Program AE / non-shiftable)
- 2) Flash Off
- 3) Creative Auto
- 4) Portrait
- 5) Landscape
- 6) Close-up
- 7) Sports
- 8) Special Scene
  - i. Group Photo
  - ii. Kids
  - iii. Food
  - iv. Candlelight
  - v. Night Portrait
  - vi. Handheld Night Scene
  - vii.HDR Backlight Control
- 9) Creative Filters
  - i. Grainy B/W
  - ii. Soft Focus
  - iii. Fish-eye Effect
  - iv. Water Painting Effect
  - v. Toy Camera Effect
  - vi. Miniature Effect
  - vii. HDR Art Standard
  - viii. HDR Art Vivid
  - ix. HDR Art Bold
  - x. HDR Art Embossed

ISO Speed Range

Manual Setting

Normal ISO Speed	ISO 100–25600 (in whole-stop increments)
Expanded ISO Speed	ISO 51200

• For [Highlight tone priority], the settable ISO speed range will be ISO 200–25600.

Auto ISO Speed Settings

Shooting Mode		ISO Settings		
		No Flash	Flash (built-in)*2	Flash (external)*2
Scene Intelligent Auto, Creative Auto		ISO 100–6400	ISO 400–3200	ISO 400–1600
Flash Off		ISO 100–6400	–	–
Portrait, Close-up		ISO 100–6400	ISO 400–1600	ISO 400–1600
Landscape		ISO 100–6400	–	ISO 400–1600
Sports		ISO 100–6400	–	ISO 400–1600
SCN	Group Photo	ISO 100–6400	ISO 400–3200	ISO 400–1600
	Kids, Food, Night Portrait	ISO 100–6400	ISO 400–1600	ISO 400–1600
	Candlelight, HDR Backlight Control	ISO 100–6400	–	AF-assist beam only
	Handheld Night Scene	ISO 100–12800	ISO 400–6400	ISO 400–6400
Creative Filters	Grainy B/W, Soft Focus, Fish-eye Effect, Water Painting Effect, Toy Camera Effect, Miniature Effect	ISO 100–6400	ISO 400–3200	ISO 400–1600
	HDR Art Standard, HDR Art Vivid, HDR Art Bold, HDR Art Embossed	ISO 100–6400	–	AF-assist beam only
P, Tv, Av, M		ISO 100–25600*1	ISO 400–1600*1	ISO 400–1600*1
With bulb exposures		ISO 400	ISO 400	–

*1 It depends on [Maximum] of [ISO Auto].
*2 If fill-in flash will cause overexposure, ISO 100 or a higher ISO will be set.

Exposure Compensation	Manual: ±5 stops in 1/3- or 1/2-stop increments* AEB: ±3 stops in 1/3- or 1/2-stop increments * Up to ±2 stops, indicated in the viewfinder. * Up to ±3 stops when [Shooting screen: Guided] is set.
AE Lock	(1) Auto AE lock • In the One-Shot AF mode with evaluative metering, AE lock takes effect when focus is achieved. (2) Manual AE lock • In the P, Tv, Av and M modes, enabled with the AE lock button. (Press again to update.) • Possible with all metering modes.
Shutter	
Type	Vertical-travel, mechanical, focal-plane shutter with all speeds electronically-controlled
Shutter Speed	1/4000 to 30 sec., bulb (total shutter speed range. Available range varies by shooting mode.) X-sync at 1/200 sec.
Shutter Release	Soft-touch electromagnetic release
Self Timer	10-sec. delay, 2-sec. delay
Shutter Lag Time	(1) With SW-1 ON, time lag between SW-2 ON and start of exposure: approx. 0.070 sec. (2) Time lag between simultaneous SW-1/SW-2 ON and start of exposure: approx. 0.250 sec. • Time lag with the aperture stopped down by 3 stops or less from the open aperture. Excludes AF operation time.
External Speedlite	
Flash Metering	E-TTL II autoflash (Evaluative, Average), FE Lock
Flash Exposure Compensation	±2 stops in 1/3- or 1/2-stop increments
FE Lock	Provided
External Flash Settings	(1) External flash control • Flash firing, E-TTL II metering, Flash mode, Wireless functions, Flash zoom, Shutter synchronization, Flash exposure compensation, Flash exposure bracketing and Clear settings. • The radio wireless flash functions can be set from the camera. (2) External flash Custom Function setting • The setting options for both (1) and (2) will differ depending on the Speedlite used.
Drive System	
Drive Modes and Continuous Shooting Speed during Viewfinder Shooting	(1) Single shooting (2) High-speed continuous shooting • Max. approx. 6.0 fps. • Maximum continuous shooting speed with 1/500 sec. or faster shutter speed, maximum aperture (varies depending on the lens), Anti-flicker shooting set to Disable, with a fully-charged Battery Pack LP-E17 and at room temperature (73°F/23°C). • With the AF mode set to One-Shot AF and the Image Stabilizer turned off when using the following lenses: EF 300mm f/4L IS USM, EF 28–135mm f/3.5–5.6 IS USM, EF 75–300mm f/4–5.6 IS USM, EF 100–400mm f/4.5–5.6L IS USM. (3) Low-speed continuous shooting • Max. approx. 3.0 fps (4) Self-timer: 10 sec./remote control (5) 2 sec. self-timer (6) Continuous shooting after 10-sec. self-timer (2 to 10 shots)

Maximum Burst

Image-recording Quality	Image File Size (approx. MB)	Possible Shots (approx.)	Maximum Burst (approx.)	
			Standard	High-speed (UHS-I)
Large (Fine)	7.6	950	190	Full
Large (Normal)	3.9	1840	Full	Full
Medium (Fine)	4.1	1790	Full	Full
Medium (Normal)	2.0	3480	Full	Full
Small 1 (Fine)	2.6	2730	Full	Full
Small 1 (Normal)	1.3	5260	Full	Full
Small 2	1.8	3810	Full	Full
RAW	29.4	210	21	27
RAW + Large (Fine)	29.4 + 7.6	170	19	23

- The number of possible shots and maximum burst (standard) apply to an 8GB card based on Canon's testing standards. The maximum burst (High-speed) apply to a 16GB card based on Canon's testing standards.
- The file size, number of possible shots and maximum burst vary depending on shooting conditions (aspect ratio of 3:2, subject, memory card brand, ISO speed, Picture Style, etc.)
- "Full" indicates that shooting is possible until the card becomes full.

Live View Functions

Shooting Modes	Still photo shooting and video shooting
Focusing	(1)Dual Pixel CMOS AF • Dual Pixel CMOS AF is possible with all EF and EF-S lenses. • Contrast AF is not provided. (2)Manual focus • Magnifying the image by 5x or 10x for manual focus possible.
Metering Modes	Real-time metering with image sensor • AE lock possible. The metering timer can be changed. (1)Evaluative metering (315-zone) (2)Partial metering (center, approx. 6.0% of viewfinder) (3)Spot metering (center, approx. 2.6% of viewfinder) (4)Center-weighted average metering • AE lock possible. The active metering timer can be changed.
Metering Range	EV 0–20 (room temperature, ISO 100, evaluative metering)
Grid Display	(1)Off (2)3x3 (3)6x4 (4)3x3+diag

Video Shooting

File Format	MP4 Video: MPEG-4 AVC / H.264 • Variable (averaged) bit rate Audio: AAC MOV: ALL-I (FHD 29.97, time-lapse movies only)

Video Recording Size and Frame Rates

NTSC		
1920 x 1080	59.954 fps	IPB (Standard)
	29.97 fps	IPB (Standard)
		IPB (Light)
	23.98 fps	IPB (Standard)
1280 x 720	59.94 fps	IPB (Standard)
	29.97 fps	IPB (Light)
640 x 480	29.97 fps	IPB (Standard)
	29.97 fps	IPB (Light)

Continuous Shooting Time

Video Recording Size			Total Recording Time on Card (approx.)			File Size (approx.)	Bit Rate (approx.)
			4GB	16GB	64GB		
1920 x 1080	59.94 fps	IPB (Standard)	8 min.	35 min.	2 hrs. 21 min.	431 MB/min.	60 Mbps
	29.97 fps 23.98 fps	IPB (Standard)	17 min.	1 hr. 10 min.	4 hrs. 41 min.	216 MB/min.	30 Mbps
	29.97 fps	IPB (Light)	43 min.	2 hrs. 53 min.	11 hrs. 35 min.	87 MB/min.	12 Mbps
1280 x 720	59.94 fps	IPB (Standard)	20 min.	1 hr. 21 min.	5 hr. 24 min.	184 MB/min.	26 Mbps
	29.97 fps	IPB (Light)	2 hr. 5 min.	8 hrs. 20 min.	33 hrs. 22 min.	30 MB/min.	4 Mbps
640 x 480	29.97 fps	IPB (Standard)	57 min.	3 hrs. 50 min.	15 hrs. 20 min.	66 MB/min.	9 Mbps
	29.97 fps	IPB (Light)	2 hrs. 43 min.	10 hrs. 53 min.	43 hrs. 32 min.	23 MB/min.	3 Mbps
HDR Movie 1920 x 1080	29.97 fps	IPB (Standard)	17 min.	1 hr. 10 min.	4 hrs. 41 min.	216 MB/min.	30 Mbps
Time-Lapse Movie 1920 x 1080	29.97 fps	ALL-I	5 min.	23 min.	1 hr. 33 min.	654 MB/min.	90 Mbps

• If the recording time reaches 29 min. 59 sec., the movie shooting stops automatically.
• Movie shooting does not stop automatically even if the file size reaches 4GB.
(When an SDXC card is formatted in exFAT, a movie will be recorded in a single movie file even if it exceeds 4GB.)

Focusing	(1) Dual Pixel CMOS AF • Contrast AF is not provided. (2)Manual focus • Magnifying the image by 5x or 10x for manual focus possible (not possible during movie shooting).
Range	Full range (0–255)

Exposure Control

Shooting Mode	Frame Rate	Shutter Speed (sec.)		Aperture Value		ISO Speed (recommended exposure index)	
		Auto Setting	Manual Setting	Auto Setting	Manual Setting	Auto Setting	Manual Setting
Program AE for movie shooting in Basic Zone modes*	29.97, 23.98	1/4000–1/30		Yes		ISO 100–12800	
	59.94	1/4000–1/60		Yes		ISO 100–6400 or ISO 100–12800 (H: 25600)	
Program AE for movie shooting in Creative Zone modes	29.97, 23.98	1/4000–1/30					
	59.94	1/4000–1/60					
Manual exposure for movie shooting	23.98		1/4000–1/25		Yes	ISO 100–6400 or ISO 100–12800 (H: 25600)	ISO 100–12800 (H: 25600)
	29.97		1/4000–1/30				
	59.94		1/4000–1/60				

* In Basic Zone modes, exposure control is exerted as appropriate for the detected scene.

Exposure Compensation	Up to ±3 stops in 1/3- or 1/2-stop increments
LCD Monitor	
Type	TFT color, liquid-crystal monitor
Monitor Size	3.0-inch (screen aspect ratio of 3:2) Approx. 3.03 in./7.70cm diagonal (approx. 2.51 in./6.37cm width, approx. 1.67 in/4.25cm height)
Dots	Approx. 1.04 million dots
Coverage	Approx. 95%* * When the aspect ratio is 16:9, vertical viewfinder coverage is approx. 93%.
Brightness Control	Adjustable to one of seven brightness levels
Coating	Clear View LCD II • Anti-smudge coating applied. • Anti-reflection coating not applied.
Interface Languages	25 (English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukraine, Turkish, Arabic, Thai, Simplified/Traditional Chinese, Korean, Japanese)
Playback	
Display Format	(1) Single-image display • No information display • Basic information display • Detailed shooting information display o Basic shooting information o Lens information and RGB histogram o White balance o Picture Style and sharpness o Contrast, color saturation and color tone o Color space and noise reduction o Lens aberration correction o GPS information (when GPS Receiver is used) (2)Index display • 4-image • 9-image • 36-image • 100-image

Highlight Alert	With detailed information display, overexposed highlight areas with no image data will blink.
Histogram	Brightness and RGB
Quick Control Function	
Items	Pressing the Quick Control button displays the Quick Control screen during viewfinder shooting, Live View shooting, movie shooting and playback. After selecting an item, you can select contents by operating the Main Dial.
Image Protection and Erase	
Protection	(1)Single image (select image) (2)Select range (3)All images in a folder (4)All images in a card (5)All found images (only during image search)
Erase	Except protected images (1) Select image to erase (2)Select range (3)All images in a folder (4)All images in a card (5)All found images (only during image search)
Direct Printing	
Compatible Printers	PictBridge-compatible printers (wireless LAN only)
Printable Images	JPEG images compliant to Design rule for Camera File System • RAW images can be printed. • Movies cannot be printed.
Digital Print Order Format	
DPOF	Compliant to DPOF Version 1.1
Customization	
Custom Functions	15 Custom Functions with 44 settings settable with the camera
Custom Controls	Functions can be assigned to the following control parts: • Shutter button (halfway pressing) • AE lock button • SET button
My Menu Registration	• Up to six top-tier menu options and Custom Function settings can be registered. • Up to five My Menu tabs can be added. My Menu tab overall operations: • Adding a tab • Deleting tabs in a batch • Deleting all tab items • Setting the menu display My Menu tab detailed operations: • Selecting item to register • Sorting registered items • Deleting selected registered items • Deleting registered items in a batch • Deleting tabs • Changing a tab name (16 ASCII characters)
Interface	
USB Terminal	Hi-Speed USB (USB 2.0) • For PC communication • For GP-E2 connection • For Connect Station connection

USB Terminal	Hi-Speed USB (USB 2.0) • For PC communication • For GP-E2 connection • For Connect Station connection
Video Out Terminal	Type C (resolution switches automatically) • Video is not displayed unless the video format appropriate for the connected TV set, [NTSC] or [PAL], is set.
Extension System Terminal	3.5mm diameter stereo mini jack • Directional Stereo Microphone DM-E1 connection
Power Source	
Battery	Battery Pack LP-E17 x 1 • With the AC Adapter AC-E6N and DC Coupler DR-E18, AC power operation is possible.
Battery Life	

Mode	Shooting Method	Battery	Temperature	Shooting Condition	
				AE 100%	AE 50% / FA 50%
Camera body only	Viewfinder shooting	LP-E17	At 73°F/23°C	Approx. 820	Approx. 600
			At 32°F/0°C	Approx. 770	Approx. 550
	Live View shooting	LP-E17	At 73°F/23°C	Approx. 310	Approx. 270
			At 32°F/0°C	Approx. 270	Approx. 230

Battery Check	Automatic battery check when the power switch is turned ON. Displayed in 4 levels.
Power Saving	Power turns off after the set time (10/30* or 30 sec., 1, 2, 4, 8 or 15 min.) of non-operation elapses * Normally 10 sec. is set. 30 sec. will be set for function setting, Live View shooting, image playback, etc.
Date/Time Battery	Built-in secondary battery When fully-charged, the date/time can be maintained for approx. 3 months • Recharge time: approx. 8 hrs. o To become capable to maintain the right date/time for 3 months after main battery power depletion.
Start-up Time	Approx. 0.2 sec. (based on CIPA testing standards)
Dimensions and Weight	
Dimensions (W x H x D)	Approx. 5.16 x 3.93 x 3.00 in. (131.0 x 99.9 x 76.2mm) • CIPA compliant.
Weight	Approx. 18.77 oz. / 532g (including battery pack and SD memory card) Approx. 17.11 oz. / 485g (body only)
Operating Environment	
Working Temperature Range	32–104°F / 0–40°C
Working Humidity Range	85% or less