Canon

Delighting You Always

Great expectations begin here

EOS 50D

Always at the forefront of imaging technology, the EOS 50D is truly a camera that demands respect. Featuring a groundbreaking 15.1-Megapixel CMOS sensor and the latest state-of-the-art DIGIC 4 Digital Image Processor, it captures everything from the finest details to the quickest of movements at an excellent resolution and with incredible colour accuracy.

Add to that cutting-edge functions such as the Live View Mode with Live Face Detection AF, the improved EOS Integrated Cleaning System, as well as various image enhancing features, you have a complete and extremely versatile digital SLR camera that will surpass all your expectations.

DiG!C 4 · 15.1 MEGA PIXELS · ISO 12800 · 6.3fps · 9 AiAF · CA · LiveView MODE · Auto Lighting Optimizer · EOS Integrated Cleaning System

KEY FEATURES OF **EOS 50D**

New DIGIC 4 Digital Image Processor

- Rapid processing speeds for faster imaging performance
- 14-bit image processing provides greater colour gradation and accurate colour reproduction

15.1-Megapixel CMOS Sensor

- Captures finely detailed high-resolution images with ease
- Excellent low-light performance up to ISO 12800

6.3fps Continuous Shooting & 9-point Cross-type AF

- Shoot 6.3fps up to a maximum of 90 shots in JPEG with a UDMA CF Card
- Achieve quick and precise focusing with 9-point cross-type AF sensor

Innovative Live View Mode

- New Live Face Detection AF Mode plus 2 other AF modes
- Dedicated Live View Mode button and intuitive control
- Operates precisely with the new 3" 920,000-dot Clear View LCD

Image Enhancement Features

- Highlight Tone Priority preserves more valuable fine details
- Advanced Auto Lighting Optimizer corrects image brightness and contrast levels
- Lens Peripheral Illumination Correction ensures uniform exposure across image

before

after

New EOS Integrated Cleaning System

- Comprehensive measures to minimise effects of dust particles on images
- New anti-dust fluorine coating on Low Pass Filter
- Includes Self Cleaning Sensor Unit and Dust Delete Function

Improved Ease Of Use

- New Creative Auto mode for users starting out in photography
- Quick Control screen offers convenient way of changing shooting settings
- HDMI output for viewing your images on HD displays

Comprehensive EOS System

- Over 50 interchangeable auto-focus EF Lenses from wide to telephoto, prime and zoom

- Extensive range of accessories such as Speedlite flashes and battery grips
- Full package of software supports photography workflow

SPECIFICATIONS

Type

Type	Digital AF/AE SLR camera with built-in flash
Recording media	Type I or II CF Card, UDMA-compatible * Recording to USB external media enabled with Wireless File Transmitter WFT-E3/E3A attached
Image sensor size	22.3 x 14.9mm
Compatible lenses	Canon EF lenses (including EF-S lenses) (35mm-equivalent focal length is approx. 1.6 times the lens focal length)
Lens mount	Canon EF mount

Image Sensor

Type	CMOS sensor
Pixels	Effective pixels: Approx. 15.10 megapixels Total pixels: Approx. 15.50 megapixels
Aspect ratio	3:2
Color filter system	RGB primary color filter
Low-pass filter	Located in front of the image sensor, non-removable
Dust deletion feature	(1) Self Cleaning Sensor Unit (2) Manual cleaning of sensor (3) Dust Delete Data appended to the captured image

Recording System

Recording format	Design rule for Camera File System 2.0
Image type	JPEG, RAW (14bit Canon original)
RAW+JPEG simultaneous recording	Provided (Three RAW types and six JPEG types can be set in any combination)
File size	(1) Large/Fine: Approx. 5.0 MB (4752 x 3168 pixels) (2) Large/Normal: Approx. 2.5 MB (4752 x 3168 pixels) (3) Medium/Fine: Approx. 3.0 MB (3456 x 2304 pixels) (4) Medium/Normal: Approx. 1.6 MB (3456 x 2304 pixels) (5) Small/Fine: Approx. 1.7 MB (2352 x 1568 pixels) (6) Small/Normal: Approx. 0.9 MB (2352 x 1568 pixels) (7) RAW: Approx. 20.2MB (4752 x 3168 pixels) (8) sRAW1: Approx. 12.6MB (3267 x 2178 pixels) (9) sRAW2: Approx. 9.2MB (2376 x 1584 pixels) * Exact file sizes depend on the subject, ISO speed, Picture Style, etc.
Folder setting	Folder creation/selection enabled
File numbering	Consecutive numbering, auto reset, manual reset
Recording functions via WFT-E3/E3A	With a CF card in the camera and a USB external media connected to the WFT-E3/E3A, the following functions will be available: (1) Standard (2) Automatic switching of recording media (3) Separate recordings according to image-recording quality (4) Recording images having the same size (5) Backup to external recording media

Image Processing

Color space	sRGB, Adobe RGB
Picture Style	Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3
White Balance	Auto, daylight, shade, cloudy, tungsten light, white fluorescent light, flash, custom, color temperature setting (2500-10000K)
Auto white balance	Auto white balance with the image sensor
Color temperature compensation	White balance correction: +/-9 stops in full-stop increments White balance bracketing: +/-3 stops in full-stop increments * Blue/amber direction or magenta/green direction possible
Color temperature information transmission	Provided
Noise reduction	Applicable to long exposures and high ISO speed shots
Automatic image brightness correction	Auto Lighting Optimizer
Highlight tone priority	Provided
Lens peripheral illumination correction	Provided
Add original image verification data	Provided (Verified by optional Original Data Security Kit OSK-E3)

Viewfinder

Type	Eye-level pentaprism
Coverage	Vertical/Horizontal approx. 95%
Magnification	Approx. 0.95x (-1 m^{-1} with 50mm lens at infinity)
Eyepoint	Approx. 22 mm (from eyepiece lens center)
Built-in dioptric adjustment	-3.0 - +1.0 m^{-1} (diopter)
Focusing screen	Interchangeable, Ef-A standard focusing screen provided (2 types sold separately)
Mirror	Quick-return half mirror (Transmission: reflection ratio of 40:60, no mirror cut-off with EF 600mm f/4L IS USM or shorter lenses)
Viewfinder information	AF information (AF points, focus confirmation light), exposure information (shutter speed, aperture, AE lock, exposure level, ISO speed, exposure warning, spot metering circle), flash information (flash ready, FP flash, FE lock, flash exposure compensation), image information (Highlight tone priority(D+), monochrome shooting, white balance correction, maximum burst, CF card information)
Depth-of-field preview	Enabled with depth-of-field preview button

AutoFocus

Type	TTL-CT-SIR with a CMOS sensor (TTL Secondary image-registration, phase detection)
AF points	9 (Cross-type)
Metering range	EV -0.5-18 (at 23°C, ISO 100)
Focus modes	(1) One-Shot AF (ONE SHOT) (2) AI Servo AF (AI SERVO) (3) AI Focus AF (AI FOCUS) (4) Manual focusing (MF)
AF point selection	Automatic selection, manual selection
Selected AF point display	Superimposed in viewfinder and indicated on top LCD panel
AF-assist beam	Small series of flashes fired by built-in flash Effective range: Approx. 4.0m at center, approx. 3.5m at periphery
AF Microadjustment	Possible

Exposure Control

Metering modes	35-zone TTL full aperture metering (1) Evaluative metering (linkable to any AF point) (2) Partial metering (approx. 9% of viewfinder at center) (3) Spot metering (approx. 3.8% of viewfinder at center) (4) Center-weighted average metering
Metering range	EV 1-20 (at 23°C with EF 50mm f/1.4 USM lens, ISO 100)
Exposure control	Program AE (Full Auto, Portrait, Landscape, Close-up, Sports, Night Portrait, Flash Off, Creative Auto, Program), shutter-priority AE, aperture-priority AE, auto depth-of-field AE, manual exposure, E-TTL II autoflash
ISO speed (Recommended Exposure Index)	Basic Zone modes: ISO 100-1600 set automatically Creative Zone modes: Equivalent to ISO 100-3200 (in 1/3-stop increments), Auto, or ISO speed can be expanded to ISO 6400 or ISO 12800
Exposure compensation	Manual: +/-2 stops in 1/3- or 1/2-stop increments (can be combined with AEB) AEB: +/-2 stops in 1/3- or 1/2-stop increments
AE lock	Auto: Applied in One-Shot AF mode with evaluative metering when focus is achieved Manual: By AE lock button in all metering modes

Shutter

Type	Electronically-controlled, focal-plane shutter
Shutter speeds	1/8000 to 1/60sec. (All shooting modes), X-sync at 1/250 sec. 1/8000 to 30 sec., bulb (Total shutter speed range. Available range varies by shooting mode.)
Shutter release	Soft-touch electromagnetic release
Self-timer	10-sec. or 2-sec. delay

Built-in Flash

Type	Retractable, auto pop-up flash
Flash Metering	E-TTL II autoflash
Guide No.	13 (ISO 100, in meter)
Recycle Time	Approx. 3 sec.
Flash-ready indicator	Flash-ready icon lights in viewfinder
Flash Coverage	17mm lens angle of view
FE Lock	Provided
Flash exposure compensation	+/-2 stops in 1/3- or 1/2-stop increments

External Speedlite

Compatible flash	EX-series Speedlites
Flash metering	E-TTL II autoflash
Flash exposure compensation	+/-2 stops in 1/3- or 1/2-stop increments
FE lock	Provided
External flash settings	Flash function settings, Flash C.Fn settings
PC terminal	Provided
Zooming to match lens focal length	Provided

Drive System

Drive modes	Single, High-speed continuous, Low-speed continuous, and Self-timer (10-sec or 2-sec delay)
Continuous shooting speed (Approx.)	High-speed: Max. 6.3 shots/sec., Low-speed: Max. 3 shots/sec.
Max. burst	JPEG(Large/Fine): Approx. 60 (Approx. 90), RAW: Approx. 16 (Approx. 16), RAW+JPEG(Large/Fine): Approx. 10 (Approx. 10) * Base on Canon's testing standards with 2GB CF card, ISO 100 and Standard Picture Style. * Figures in parentheses apply to an UDMA 2GB CF card based on Canon's testing standards

Live View Functions

Shooting modes	(1) Live View Shooting (2) Remote Live View shooting (with a personal computer installed with EOS Utility)
Focusing	(1) Quick mode (Phase-difference detection) (2) Live mode (Contrast detection) (3) Live Face detection AF mode (Contrast detection) (4) Manual focusing (5x/10x magnification possible)
Metering modes	Evaluative metering with the image sensor
Metering range	EV 0-20 (at 23°C with EF 50mm f/1.4 USM lens, ISO 100)
Magnified view	Mangifiable by 5x or 10x at AF point
Grid display	Two grid displays provided
Exposure simulation	Provided
Silent Shooting	Provided (Mode 1 and 2)

LCD Monitor

Type	TFT color liquid-crystal monitor
Monitor size	3.0 inch
Dots	Approx. 920,000 dots (VGA)
Coverage	Approx. 100%
Brightness adjustment	7 levels provided
Interface languages	25

Image Playback

Display format	Single image, single image + info (image-recording quality , shooting information, histogram), 4- or 9-image index, magnified view (approx. 1.5x - 10x), rotated image, image jump (by 10/100 images, 1 screen, shooting date or folder)
Highlight alert	Provided (Overexposed highlights blinks)
Histogram	Brightness, RGB
AF point display	Provided

Image Protection and Erase

Protect	Single images can be erase-protected or not
Erase	Single image, checkmarked images, or all images in the CF card can be erased (except protected images) at one time

Direct Printing

Compatible printers	PictBridge-compatible printers
Printable images	JPEG image compliant to Design rule for Camera File System (DPOF printing possible) and RAW/sRAW images captured with the EOS 50D
Print ordering	DPOF Version 1.1 compatible

Direct Image Transfer

Compatible images	JPEG and RAW/sRAW images * Only JPEG images can be transferred as wallpaper on the personal computer screen

Customization

Custom Functions	Total 25
Camera user settings	Register under Mode Dial's C1 and C2 positions
My Menu registration	Provided

Interface

Digital terminal	For personal computer communication and direct printing (USB 2.0 Hi-Speed)
Video OUT terminal	NTSC/PAL selectable
HDMI mini OUT terminal	Type C
Remote Control Terminal	Compatible with remote control via N3-type terminal
Extension system terminal	For connection to WFT-E3/E3A

Power Source

Battery	Battery Pack BP-511A x1 * AC power can be supplied via AC Adapter Kit ACK-E2 (optional) * With Battery Grip BG-E2N or BG-E2 attached, size-AA can be used
Battery life	[Number of shots - approx.]

Temperature	Shooting Condition	
	No Flash	50% Flash used
At 23°C	800	640
At 0°C	640	540

* The above figures apply with a fully-charged Battery Pack BP-511A
* The figures above are based on CIPA (Camera and Imaging Products Association) testing standards

Battery check	Automatic
Power saving	Provided. Power turns off after 1, 2, 4, 8, 15, or 30 min.
Date/Time battery	One CR2016 lithium battery
Startup Time	Approx. 0.1 sec.

Dimensions & Weight

Dimensions (W x H x D)	145.5 x 107.8 x 73.5 mm
Weight (Approx.)	730g (body only, battery: 82g)

Operating Environment

Working temperature range	0°C- 40°C
Working humidity:	85% or less

* All the specifications above are based on Canon's testing standards.
* The camera's specifications and physical appearance are subject to change without notice.

Canon

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