Canon

Delighting You Always

EOS 400D DIGITAL

IN A CLASS OF ITS OWN


DISP.
MENU
JUMP
Canon
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EOS
CANON ZOOM LENS EF-S 18-55mm 1:3.5-5.6 II
CANON INC.
400D
DIGITAL
SIMPLY

THE UNANIMOUS CHOICE

400D DIGITAL

UNMATCHED

Explore new limits with the Canon EOS 400D, a 10.1-megapixel digital single-lens reflex (DSLR) camera that features Canon's renowned DIGIC II imaging processor, and the new EOS Integrated Cleaning System – Canon's comprehensive measures against dust problem. The EOS 400D is supported by the complete Canon EOS system with the world's largest lens system of over 60 interchangeable lenses* and extensive range of accessories including the acclaimed E-TTL II flash system – providing limitless growing creativity options for you to explore.

* Auto Focus lenses as of Jan 2006

No matter if you are a serious hobbyist or an advanced amateur, the EOS 400D is the perfect tool for you. Explore new techniques and master new skills – the EOS 400D gives you greater control to create the perfect final image. EOS 400D is an easy-to-operate high performance DSLR with many user-friendly features to enhance your overall shooting experience.

Drawing on a rich heritage of over 70 years as the leader in photographic and imaging technologies, Canon is trusted by professionals all over the world. EOS 400D is capable of shooting high-resolution images conveying every subtlest nuance of colour, light and shadow.

Full compatibility with the comprehensive Canon EOS system ensures that your investment into DSLR photography with the EOS 400D is one that grows together with you.

ADVANCED CANON TECHNOLOGIES

High Performance 10.1M CMOS Sensor

Canon's renowned CMOS sensor technology has been time-tested and well proven for its superiority for high-end digital photography. For the EOS 400D, Canon newly developed a large, single-plate, APS-C sized, 10.1-Megapixel CMOS sensor. Capturing superb image resolution and depth of detailing, this high-performance CMOS sensor has a screen size of 22.2 x 14.8 mm, thereby offering an effective angle of view that is 1.6x the focal length of a normal EF lens. The number of effective pixels is 3,888 x 2,592 with a wider dynamic range to capture shadow detail and highlight detail at the same time.

This new CMOS sensor possesses high light sensitivity, offering a wide range of ISO speeds from 100 to 1600. The on-chip noise reduction circuitry on the CMOS sensor found in higher-end EOS DSLR models minimises interference from electrical noise, produces high quality images with low noise, even during exposures of one second or longer, and high ISO speeds.

DIGIC II Imaging Processor

Canon's advanced DIGIC II imaging processor is a technological marvel. In order to process the wealth of image data from the 10.1-Megapixel CMOS sensor, the DIGIC II works with ultra-fast processing speed. Fast and highly precise, DIGIC II uses proprietary Canon algorithms in a natural reproduction process to transform raw image data into images with stunning clarity and true-to-life colour reproduction.

It's amazing how Canon engineers have successfully packed so much into this chip – enhanced noise reduction circuitry detects and alleviates false colours and moiré, thus ensuring image colours and details are faithfully reproduced.

Conventional CMOS

Canon's CMOS with optical low-pass filter

Superb 3-layer Optical Low-pass Filter

The EOS 400D features a high-performance, 3-layer optical low-pass filter (LPF) system that forms a single sealed unit together with the CMOS sensor. The LPF effectively minimises false colours and moiré – the chromatic aberrations that cause purple fringing. This 3-layer LPF was developed specifically for use with high pixel count CMOS sensors, facilitating light reception by multiple pixels for more detailed light patterns and excellent resolution. The LPF incorporates a hybrid infrared cut filter, which uses an infrared absorbent glass to prevent the false red colouration caused by infrared light.

White Balance

The EOS 400D makes it easy for you to obtain the correct colour temperature. The White Balance Compensation function which makes getting the right white balance as simple as pressing a button. White Balance Bracketing function snaps three shots consecutively at different white balance compensations, allowing you to choose the best shot and is extended to include the magenta/green bias direction. White balance correction of both blue/amber and magneta/green has ±9 levels for fine adjustments.

AWB Auto

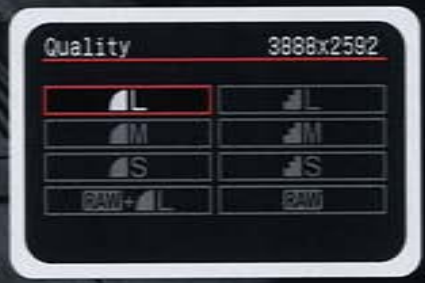
Adobe RGB & sRGB Colour Space

Images can be processed directly for the industry print standard Adobe RGB or the more standard sRGB, and are compatible with DCF 2.0 and Exif 2.21 standards for greater flexibility. A range of in-camera image processing parameters optimises JPEG file for direct printing or post processing. Photographers can choose to do further post-production to customise images to achieve their exact requirements.

8 Recording Modes, JPEG or RAW, JPEG+RAW Simultaneous Recording

Photographers have the option of recording images in the widely used JPEG or Canon's proprietary RAW; or both JPEG and RAW simultaneously.

When a smaller file size is preferable, shooting JPEG is ideal. The immediate benefits are files that can be easily shared across users and computers. On the other hand, Canon's proprietary RAW (CR2) employs loss-less compression to ensure the highest possible image quality, providing a wider range of tones and details for brighter highlights and deeper contrasts. RAW files comply with the DCF 2.0 and Exif 2.21 specifications for Adobe RGB and can be converted into standard JPEG or TIFF files.



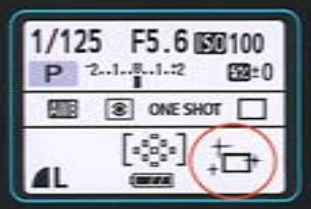
EOS INTEGRATED CLEANING SYSTEM

EOS | Integrated Cleaning System

Once dust settles on the surface of the low-pass filter placed in front of the CMOS sensor, the dust are photographed together with the image, hence forming unwanted shadows of dust on the image. The EOS 400D comes with an EOS Integrated Cleaning System (EOS I.C.S.) to provide photographer with comprehensive measures against dust problems in the form of both hardware (Self Cleaning Sensor Unit) and application software (Dust Delete Function). Manual sensor cleaning can also be performed with a lens blower.

Self Cleaning Sensor Unit

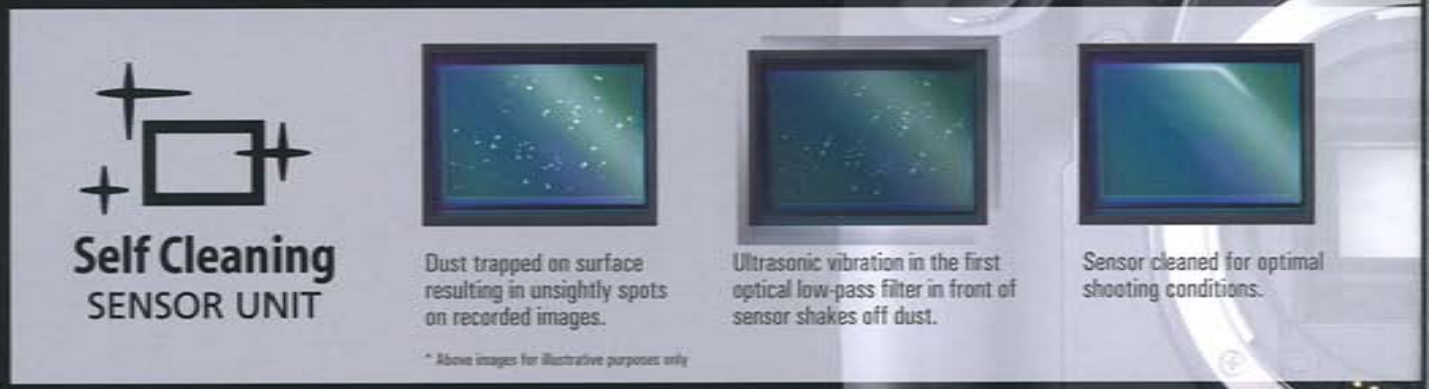
The Self Cleaning Sensor Unit uses the piezoelectric element to generate ultrasonic vibrations in the first optical low-pass filter in front of the CMOS sensor, hereby shaking off dust. The removed dust that falls from the Self Cleaning Sensor Unit adheres to the attachment component for dust collection around the low-pass filter to prevent it from adhering to the sensor again. The Self Cleaning Sensor Unit can be automatically activated when the power is switched on or off to clean before and after shooting is completed. It is also possible for immediate activation of the Self Cleaning Sensor Unit manually at any time whenever dust seems to pose a problem. An animated 'sensor cleaning' icon is displayed on the LCD monitor during self-cleaning to indicate operating state.



Power ON

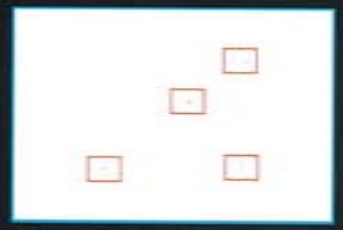
Power OFF

Sensor cleaning activated automatically when power is switched on or off.

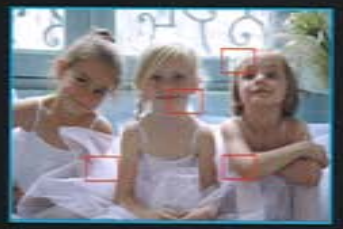


Dust Delete Function

Extremely sticky dust which we refer as 'difficult dust' can be made inconspicuous in taken images by EOS 400D. The EOS 400D detects and registers the location and the size of the dust adhering to the low-pass filter and then append this information (dust delete data) to the image taken. The Digital Photo Professional 2.2 (DPP 2.2) software detects this data appended to the image to execute dust deletion at the location of the image where the dust have been detected.



Shoot a white background for the EOS 400D to detect and register location and size of dust



The DPP 2.2 uses this information to perform dust deletion

Erase dust in image for perfect picture

No action is too fast for the EOS 400D. Rapid 3-fps continuous shooting for dramatic story-telling.

PERFORMING AT THE SPEED OF LIGHT

Shoot Faster

Freeze action with shutter speed of 1/4000 second

The Canon EOS 400D provides plenty of speed for ensuring you never miss a never-to-be-repeated photo opportunity. It is capable of ultra-fast processing speed as it uses Canon's super fast DIGIC II imaging processor with a high-capacity DRAM buffer memory that enables fast continuous shooting of up to 3 frames per second with a max burst of 27 JPEG (Large/Fine) or approximately 10 RAW images*. The DIGIC II processor powers up the EOS 400D in a nearly instantaneous start-up time of only 0.2 seconds.

EOS 400D is capable of a maximum shutter speed of 1/4000 sec and maximum X-Sync speed of 1/200 sec. Using a fast shutter speed combined with high ISO light sensitivity setting, you can capture fast moving action clearly. At the other end of the spectrum, the longest shutter speed is 30 seconds for accurately capturing the mood and tenor of night scenes.

* Based on Canon's testing standard with a 512 MB CF card

Thanks to DIGIC II and its intelligent camera features, the EOS 400D offers:

- **0.2 sec. Start-Up Time**
- **3-fps Continuous Shooting**
- **1/4000sec. Maximum Shutter Speed**

High-precision 9-point AF system

Of course, speed is nothing without control. The EOS 400D offers both!

High-Precision 9-Point AF System

Get the control you need over your shooting with help from the extremely fast, high precision, 9-point AF system as found in higher-end models. With any f/2.8 or larger aperture lenses, the centre AF point works as a high-precision, cross-type sensor for extraordinary focusing precision. The AF can operate under ambient lighting ranging from EV-0.5 to EV18.

This high precision AF with f/2.8 support and AF cross sensor with f/5.6 support both adopted for the central ranging point. Every shot with the EOS 400D is sharply edged with accurate detail – even when shooting fast moving action. Choose any of the 9 focusing points with the Selectable AF or direct the camera to automatically select the focusing point.

TOTAL SHOOTING CONTROL

Intelligent Exposure Control

Stepping up to a digital SLR, offers you a whole new level of satisfaction and control. One of the main attractions of a DSLR is the extra shooting control, you get to shoot exactly the way you want to – exploring different settings to create a variety of moods and effects. The EOS 400D offers 3 metering modes for precise exposure control to achieve the best shot under different lighting conditions.

Evaluative Metering

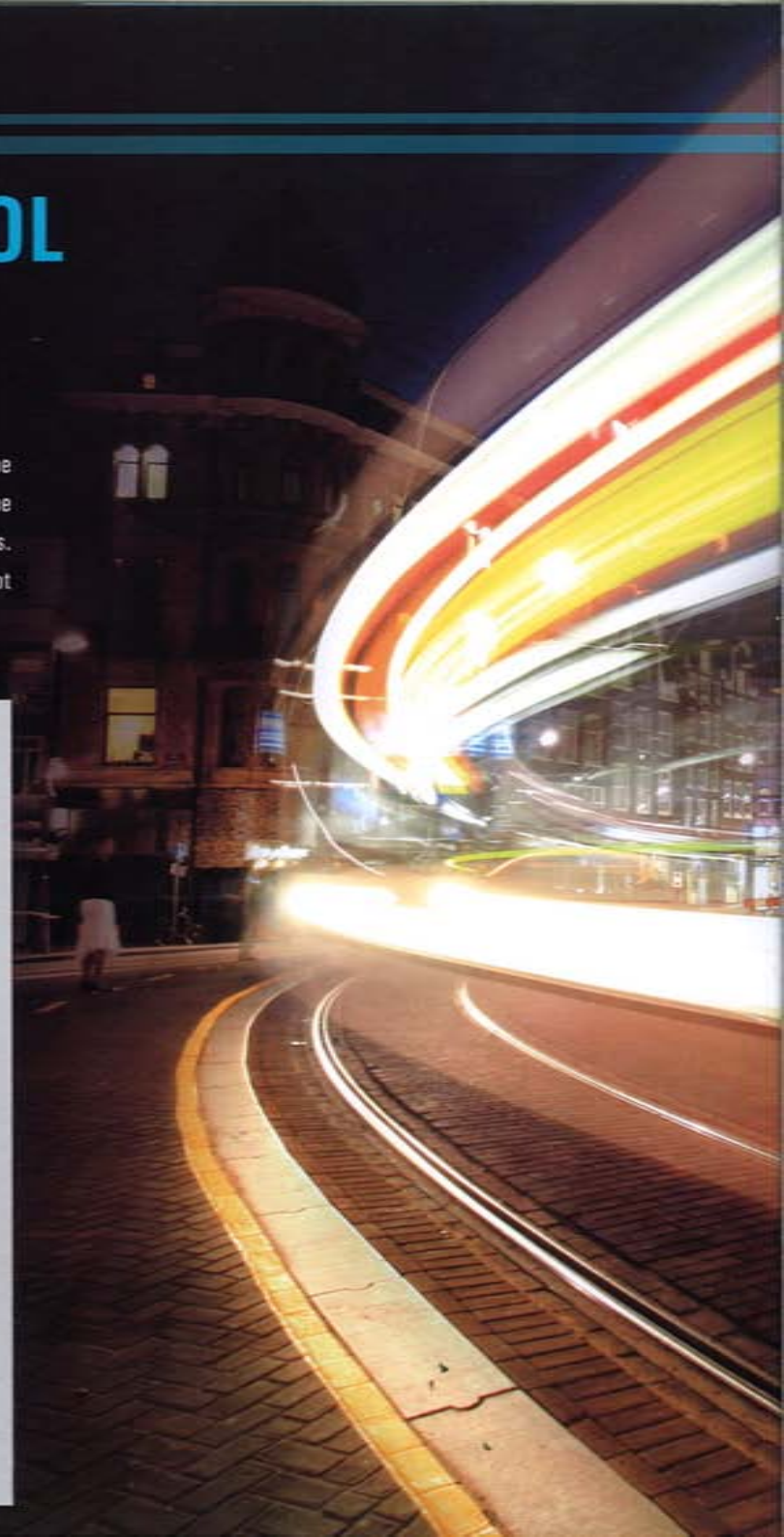
35-zone Evaluative Metering analyses light in the image being composed, with a particular emphasis on the AF point selected, automatically prioritizing the subject for light metering. In this mode, drastic shifts in lighting will be automatically compensated with exposure setting.

Partial Metering

Partial Metering uses approximately 9% of the image for light metering, as specified by a circle in the centre of the viewfinder.

Centre-weighted Average Metering

Widely used by professional photographers, Centre-weighted Average Metering analyses light in the entire image composition, with the emphasis placed on the image centre.



Shooting Modes

A wide range of shooting modes optimize camera settings to suit different shooting situations. Shooting modes are accessed via the top-mounted control dial on the EOS 400D and feature the following:

Full Auto	The camera chooses the optimal combination of shutter speed and aperture
Program AE	The photographer adjusts the aperture and shutter combination, while maintaining a constant exposure value
Shutter-Priority AE (Tv)	The photographer chooses the shutter speed, the camera adjusts aperture accordingly
Aperture-Priority AE (Av)	The photographer chooses the aperture value, the camera adjusts shutter speed accordingly
Auto Depth-of-Field	The photographer uses the camera to create a custom "zone of sharpness"

Other modes include **Portrait, Landscape, Close-up, Sports, Night Portrait, Manual & Flash Off.**


Landscape


Close-up


Flash Off

Exposure Compensation

The Canon EOS 400D uses a number of different exposure compensation tools. Choose from Manual Exposure Compensation; Auto Exposure Bracketing; White Balance Bracketing; or Exposure Lock.

The EOS 400D's light metering abilities are complemented by Canon's acclaimed E-TTL II flash metering system. Whether using the built-in, flush-mounted flash on the EOS 400D or a compatible EX-Series Speedlite external flash, E-TTL II provides accurate and stable flash exposures.

Canon's Picture Style

The New 'Digital Film'

Picture Style provides the photographer with intuitive presets and lets you create the colours you want intelligently. The EOS 400D allows you to achieve your creative vision by defining the precise processing parameters with Canon's Picture Style function – the new 'digital film'. Just like how conventional film photographers used to choose different types of film to match their shooting objectives, you can now use the Picture Style function in the EOS 400D to choose your desired style: Standard, Portrait, Landscape, Neutral, Faithful and Monochrome. Each Picture Style automatically selects the appropriate camera settings for that specific shooting condition. Select the optimal Picture Style is like selecting the best film for the subject or desired photographic expression.

Customizing Picture Style

Users can also select and adjust Picture Style according to their own preferences, using the SET button to define 3 custom styles. Menu settings allow the following Picture Style parameters to be changed:

Sharpness	**– 7 adjustment levels**
Contrast	**– 9 adjustment levels**
Colour density	**– 9 adjustment levels**
Hue	**– 9 adjustment levels**

Picture Style






Standard	Portrait	Landscape	Neutral	Faithful	Monochrome
Vivid, sharp and crisp images that appear sharply focused	Warm and lifelike skin tones with a softer focus	Vivid blue skies and greenery with a sharp, crisp focus	Natural colour reproduction and more subdued images	Highly accurate colour reproduction and sharpness that is faithful to the original	Black-and-white or sepia images

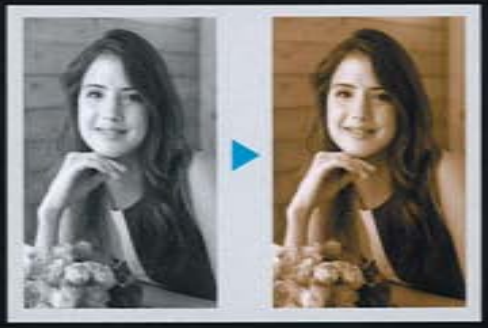
Download More Picture Style Files

More Picture Style file downloads are available for expanding your freedoms of photographic expression. You can take your creative possibilities to new heights by applying more Picture Style files downloaded from Canon's website such as Twilight, Emerald, Nostalgia, Autumn and Clear.

Autumn

Monochrome

A Monochrome mode on the EOS 400D lets you shoot in black-and-white, thus taking the guesswork out of black-and-white photography and reducing the need for extensive post-processing. There are also filter and toning effects for enhanced creative expressions.



Black & White Sepia

Filter Effects:
Yellow, Orange, Red & Green

Toning Effects:
Sepia, Blue, Purple & Green

INTELLIGENT DESIGN

Weighing only 510g, yet feeling reassuringly sturdy in the hand, the EOS 400D is designed for robust field use. Controls are intelligently laid out for superb ease-of-use, incorporating feedback from previous Canon DSLR models.

The EOS 400D retains the classic form of a single-lens reflex camera, with a black body that is specially coated with high quality coating to prevent scratches. Thicker and rubber slip guard added for the thumb holding for improved grip.

Large 2.5" LCD Monitor

EOS 400D uses an extra-bright, large high precision 2.5" LCD monitor with approximately 230,000 pixels with a wide viewing angle of 160° in all direction for significantly improved visibility. With a larger display area, it is much easier to verify image focus and read the displayed information while offering 7 adjustable levels of brightness.

Viewfinder

The 0.8x viewfinder on the EOS 400D provides approximately 95% coverage and uses a precision matte screen for easier manual focusing and tighter compositions. The screen also facilitates auto focusing.

Enhanced Playback Functions

- Quick Review function allows image enlargement/reduction
- Enhanced information screen - A histogram chart displays image brightness or RGB information
- Image being reviewed automatically rotates to match the orientation of the camera
- More Jump functions allow users to quickly review stored images by jumping forward and back with increments of 10/100 images or by date taken
- Error warning displays to show the cause and recommended countermeasures
- New User Interface (UI) for ease of use and operations
  - DISP button for access to shooting and playback functions
  - Power LED for easy reference of the start-up state at a glance
  - Display Off Sensor where the LCD monitor is automatically switch off when it detects the user's face approaching the viewfinder
  - Improved LCD monitor displayed information such as ISO speed, AF frame and WB adjustment
  - User-friendly setting screen designed for easy reading
  - Color display is changed during exposure correction
  - Display of various mode names such as AF mode, Metering mode

Enhanced Recording Functions

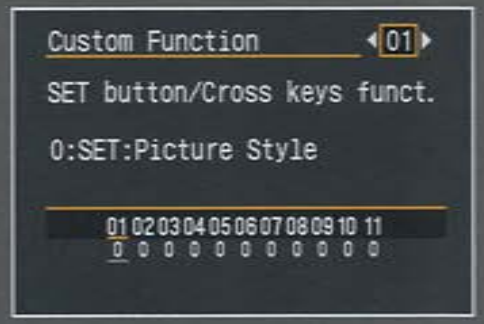
- Improved noise reduction function for long exposures
- Improved folder management
  - 9999 images per folder
  - File numbering Manual Reset function added

Enhanced Shooting Functions

- Single-shot AE/AF lock for consecutive shots
- Separate FE lock icon displayed in the viewfinder
- 4-step battery level display
- Full range of Custom functions & settings
  - 11 Custom functions with 29 settings

CUSTOM FUNCTIONS

C.Fn	Custom Function	No.	Setting
01	SET button / Cross Keys Funct.	0	SET: Picture Style
		1	SET: Quality
		2	SET: Flash Exp Comp
		3	SET: Playback
		4	Cross keys: AF Frame Selec.
02	Long Exposure Noise Reduction	0	Off
		1	Auto
		2	On
03	Flash Sync. Speed in Av Mode	0	Auto
		1	1/200 sec. (Fixed)
04	Shutter/AE Lock Button	0	AF/AE Lock
		1	AE Lock/AF
		2	AF/AF Lock, No AE Lock
		3	AE/AF, No AE Lock
05	AF-assist Beam	0	Emits
		1	Does Not Emit
		2	Only External Flash Emits
06	Exposure Level Increments	0	1/3-stop
		1	1/2-stop
07	Mirror Lockup	0	Disable
		1	Enable
08	E-TTL II	0	Evaluative
		1	Average
09	Shutter Curtain Sync.	0	1st-curtain Sync.
		1	2nd-curtain Sync.
10	Magnified View	0	Image Playback Only
		1	Image Review and Playback
11	LCD Display When Power ON	0	Display
		1	Retain Power OFF Status



C.Fn-01: Assigns the function to the SET button or to the cross keys for shooting.

CONNECTIVITY & PRINTING FUNCTIONS

Printing Options

Fully leverage the abilities of your Canon EOS 400D by pairing it with a Canon PictBridge printer. The advantages of direct Canon-to-Canon printing synergies are clear. Direct printing via PictBridge using the USB 2.0 High-speed cable allows you to unplug immediately after print job is sent — no more waiting around for the print job to be completed. Many other direct printing functions are also available:

- Contact sheet style 35-image index printing
- Printing with shooting information
- 20-image index printing with shooting information
- Red-eye reduction function
- Face-brightening correction function
- Addition of supported paper sizes
- Improved printing effects
- Adjustment of printing parameters
- Addition of supported paper

Print/Share Button

The Print/Share button allows you to do simple direct printing and direct image transfer functions, for direct printing to all PictBridge-compliant printers and transfers to the computer respectively.

USB · BUBBLE JET DIRECT · DIRECT PRINT · Exif Print · PictBridge

OPTIONAL LENSES & ACCESSORIES

EF 70-200mm f/4L IS USM

The EF 70-200mm f/4L IS USM is a powerful telephoto zoom lens equipped with Image Stabilizer for unparallel gain in shutter speed equivalent to 4 stops. Befitting the L-series lens, images are produced with chromatic aberrations effectively corrected for superior quality. The EF 70-200mm f/4L IS USM is designed with dust-proof and moisture-proof structures for rugged outdoor operations.

EF 50mm f/1.2L USM

The EF 50mm f/1.2L USM is a ultra-large aperture standard lens targeted at professionals and advanced amateurs looking to attain high resolution and high contrast images. Featuring a circular aperture, this lens produces excellent background blur for stunning portrait and wedding photography. A premium "L" series lens, the EF 50mm f/1.2L USM guarantees superb image quality.

EOS System

Complete EOS system with over 60 interchangeable lenses.

Car Battery Charger CBC-NB2

Conveniently charges batteries in car for added flexibility especially in outdoor shoot where power points are not available.

Battery Grip BG-E3

Designed for better grip and easier shooting from a vertical orientation with the vertical orientation control. The ability to use size AA batteries provides added flexibility and mobility for great outdoor shoot.

Semi-Hard Case EH18-L

Accomodate the EOS 400D with a specific assortment of lenses.

E-TTL II

The E-TTL II flash metering system weighs and averages the flash metering information from both ambient light and preflash readings. E-TTL II enables consistent flash exposures even if the subject contains radical changes in colour or reflectivity.

Battery Charger CB-2LWE

Wide Strap EW-100DB II

Tripod Mount Ring AII (W)

Improved locking mechanism for more secure mount. Lenses compatible:

- EF 70-200mm f/4L IS USM
- EF 70-200mm f/4L USM
- EF 400mm f/5.6L USM

Bundled Software

- EOS Digital Solution Disk Ver.13.0
  - **Zoom Browser EX (Ver. 5.7)**
  - **Image Browser (Ver. 5.7)**
  - **Digital Photo Professional (Ver. 2.2),**
    A RAW finishing application for pros or high-level amateurs; support Dust Delete Function; RGB tone curve adjustment function strengthened for expanded range of effectiveness.
  - **EOS Utility (Ver. 1.1)**
  - **Photostitch (Ver. 3.1)**
  - **PTP TWAIN/WIA driver**
- Application Usage Explanation CD

NOMENCLATURE

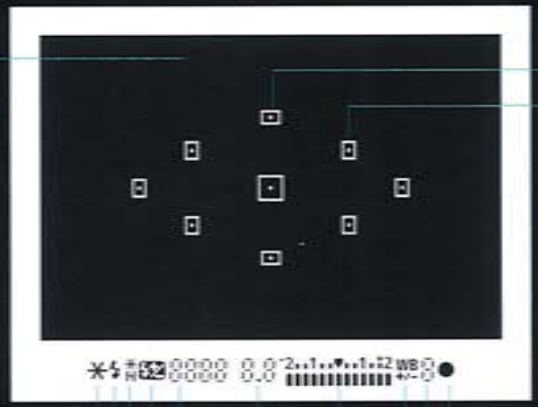
- Mode Dial
- Power Switch
- Main Dial
- Shutter Button
- Red-Eye Reduction / Self-timer Lamp
- Remote Control Sensor
- Grip
- Lens
- Flash-sync Contacts
- Hot Shoe
- Built-in Flash / AF-assist Beam
- Flash Button
- Lens Release Button
- Depth-of-field Preview Button
- Nameplate

- Eyecup
- Viewfinder Eyepiece
- Display-Off Sensor
- Print/Share Button
- Camera Setting Display On/Off/ Info/Trimming Orientation Button
- Menu Button
- Jump Button
- Playback Button
- Erase Button
- LCD Monitor
- Dioptric Adjustment Knob
- Aperture/Exposure Compensation Button
- AE Lock/FE Lock/ Index/Reduce Button
- Strap Mount
- AF Point Selection/Enlarge Button
- ISO Speed Set Button
- CF Card Slot Cover
- AF Mode Selection Button
- Setting Button/ Picture Style Selection Button
- Cross Keys
- White Balance Selection Button
- Metering Mode Selection Button
- Access Lamp
- Drive Mode Selection Button

LCD PANEL INFORMATION

- Shutter Speed
- Shooting Mode
- White Balance
  - Auto
  - Daylight
  - Shade
  - Cloudy
  - Tungsten Light
  - White Fluorescent Light
  - Flash
  - Custom
  - WB Correction
- Custom Function
- White Balance Bracketing
- Image-recording Quality
  - L Large/Fine
  - L Large/Normal
  - M Medium/Fine
  - M Medium/Normal
  - S Small/Fine
  - S Small/Normal
  - L+RAW RAW +Large/Fine
  - RAW RAW
- Metering Mode
  - Evaluative
  - Partial
  - Center-weighted Average
- Battery Check
- Exposure Level
- Exposure Compensation Amount
- AEB Level
- Aperture
- AEB
- ISO Speed
- Flash Exposure Compensation
- Drive Mode
  - Single
  - Continuous
  - Self-timer/Remote Control
- Red-Eye Reduction
- Beeper
- Shots Remaining
- Shots Remaining During WB Bracketing
- Self-timer Countdown
- Bulb Exposure Time
- Monochrome Shooting
- AF Mode
  - (ONE SHOT) ONE-SHOT AF
  - (AI FOCUS) AI FOCUS AF
  - (AI SERVO) AI SERVO AF
- AF Point Selection

VIEWFINDER INFORMATION



- Focusing Screen
- AF Point Display Indicator <>
- AF Points
- AE Lock
  AEB In Progress
- Flash-ready
  Improper FE Lock Warning
- High-speed Sync (FP Flash)
- FE lock/FEB In Progress
- Flash Exposure Compensation
- Shutter Speed
  FE Lock (FEL)
  Busy (buSY)
  Built-in Flash Recycling (buSY)
- Aperture
- CF Card Full Warning
  CF Card Error Warning
  No CF Card Warning
- Exposure Level
  Exposure Compensation Amount
  AEB Level
  Red-Eye Reduction Lamp On
- Focus Confirmation Light
- Maximum Burst
- White Balance Correction

SPECIFICATIONS

• Type
Type: Digital, single-lens reflex, AF/AE camera with built-in flash
Recording media: Type I or II CF card
Image sensor size: 22.2 x 14.8mm
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

• Imaging Element
Type: High-sensitivity, high-resolution, large single-plate CMOS sensor
Pixels: Effective pixels: Approx. 10.10 megapixels; Total pixels: Approx. 10.50 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) Sensor cleaning: Auto
(2) Sensor cleaning: Manual
(3) Dust delete data appended to image data

• Recording System
Recording format: Design rule for Camera File System 2.0 & EXIF 2.21
Image: JPEG, RAW (12bit)
RAW+JPEG simultaneous recording: Provided
File size:

(1)	Large/Fine:	Approx. 3.8MB (3888 x 2592 pixels)
(2)	Large/Normal:	Approx. 2.0MB (3888 x 2592 pixels)
(3)	Medium/Fine:	Approx. 2.3MB (2816 x 1880 pixels)
(4)	Medium/Normal:	Approx. 1.2MB (2816 x 1880 pixels)
(5)	Small/Fine:	Approx. 1.3MB (1936 x 1288 pixels)
(6)	Small/Normal:	Approx. 0.7MB (1936 x 1288 pixels)
(7)	RAW:	Approx. 9.8MB (3888 x 2592 pixels)

*Exact file sizes depend on the subject, ISO speed, Picture Style, etc.
File numbering: Consecutive numbering, auto reset, manual reset
Color space: sRGB, Adobe RGB
Picture Style: Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3
Interface: USB Port (USB 2.0 Hi-Speed): For connection to a personal computer and direct printing
Video OUT terminal (NTSC/PAL)

• White Balance
Type: Auto, daylight, shade, cloudy, tungsten, white fluorescent light, flash, custom
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 bias or magenta/green bias possible
Color temperature information transmission: Provided

• Viewfinder
Type: Eye-level pentamirror
Coverage: Vertical/Horizontal approx. 98%
Magnification: Approx. 0.8x (-1 diopter with 50mm lens at infinity)
Eyepoint: Approx. 21 mm
Built-in diopter adjustment: -3.0 - +1.0 diopter
Focusing screen: Fixed, precision matte
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, exposure warning), flash information (flash ready, high-speed sync, FE lock, flash exposure compensation), white balance correction, maximum burst, CF card information
Depth-of-field preview: Enabled with depth-of-field preview button

• Autofocus
Type: TTL secondary image-registration, phase detection
AF points: 9 AF points
Working range: EV -0.5 - 18 (at 23°C/73°F, ISO 100)
Focus modes: One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing (MF)
AF point selection: Auto, manual
Selected AF point display: Superimposed in viewfinder and indicated on LCD monitor
AF-assist beam: Small series of flashes fired by built-in flash
Effective range: Approx. 4.0m/13.1ft. at center, approx. 3.5m/11.5ft. at periphery

• Exposure Control
Metering modes: 35-zone TTL full aperture metering
- Evaluative metering (linkable to any AF point)
- Partial metering (approx. 9% of viewfinder at center)
- Center-weighted average metering
Metering range: EV 1 - 20 (at 23°C/73°F 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, Program), shutter-priority AE, aperture-priority AE, depth-of-field AE, manual exposure, E-TTL II autoflash
ISO speed: Basic Zone modes: ISO 100 - 400 set automatically
Creative Zone modes: Equivalent to ISO 100 - 1600 (in 1-stop increments)
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: 1/4000 to 30 sec. (1/3- and 1/2-stop increments), bulb, X-sync at 1/200 sec.
Shutter release: Soft-touch electromagnetic release
Self-timer: 10-sec. Delay
Remote control: Remote Switch RS-60E3
Remote Controller RC-5/RC-1

• Built-in Flash
Type: Retractable, auto pop-up flash
Flash metering: E-TTL II autoflash
Guide No.: 13/43 (ISO 100, in meters/feet)
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
EOS-dedicated Speedlite: E-TTL II autoflash with EX-series Speedlite
Zooming to match lens focal length: Provided

• Drive System
Drive modes: Single, Continuous, and Self-timer
Continuous shooting speed: Max. 3 shots per sec.
Maximum burst: JPEG (Large/Fine): Approx. 27, RAW: Approx. 10, RAW+JPEG (Large/Fine): Approx. 9
*Based on Canon's testing conditions with a 512MB CF card
* Varies depending on the subject, ISO speed, Picture Style, etc.

• LCD Monitor
Type: TFT color liquid-crystal monitor
Monitor size: 2.5 in.
Pixels: Approx. 230,000
Coverage: Approx. 100%
Brightness adjustment: 7 levels provided
Interface languages: 15

• Image Playback
Display format: Single image, shooting information, 9-image index, magnified view (approx. 1.5x - 10x), autoplay, image rotation, and jump (by 10 or 100 images, by date)
Highlight warning: In the shooting information mode, any overexposed highlight areas with no image information will blink
Histogram: Brightness, RGB

• Image Protection and Erase
Protect: Single images can be erase-protected or not.
Erase: One image or all images in the CF card can be erased (except protected images)

• Direct Printing
Compatible printers: PictBridge, CP Direct, and Bubble Jet Direct-compatible printers
Printable images: JPEG images (DPOF printing possible)
Easy Printing feature: Provided

• DPOF: Digital Print Order Format
DPOF: Version 1.1 compatible

• Direct Image Transfer
Compatible images: JPEG and RAW images
* Images to be used for wallpaper on the personal computer screen must be JPEG images

• Customization
Custom Functions: 11 Custom Functions with 29 settings

• Power Source
Battery: Battery Pack NB-2LH, quantity 1
* AC power enabled with AC Adapter ACK-DC20
* With Battery Grip BG-E3, size-AA batteries can be used

Battery life: [Number of shots - approx.]

Temperature	Shooting Conditions	
	No Flash	50% Flash Use
At 23°C / 73°F	500	360
At 0°C / 32°F	370	260

* The above figures apply when a fully-charged Battery Pack NB-2LH is used
* The figures above are based on CIPA (Camera & Imaging Products Association) testing standards

Battery check: Auto
Power saving: Provided
Power turns off after 30 sec., 1, 2, 4, 8, or 15 min.
Date/Time battery: One CR2016 lithium battery
Startup time: Approx. 0.2 sec.

• Dimensions and Weight
Dimensions (W x H x D): 126.5 x 94.2 x 65 mm / 5.0 x 3.7 x 2.6 in.
Weight: Approx. 510 g / 18 oz. (body only)

• Operation Environment
Working temperature range: 0°C - 40°C / 32°F - 104°F
Working humidity: 85% or less

• Battery Pack NB-2LH
Type: Rechargeable lithium-ion battery
Rated voltage: 7.4 V DC
Battery capacity: 720 mAh
Dimensions (W x H x D): 33.3 x 16.2 x 48.2 mm / 1.3 x 0.6 x 1.9 in.
Weight: Approx. 43 g / 1.5 oz.

• Battery Charger CB-2LWE
Compatible battery: Battery Pack NB-2LH
Recharging time: Approx. 90 min.
Rated input: 100 - 240 V AC, 50/60 Hz
Rated output: 8.4 V DC
Working temperature range: 0°C - 40°C / 32°F - 104°F
Working humidity: 85% or less
Dimensions (W x H x D): 91 x 56 x 20.5 mm / 3.6 x 2.2 x 0.8 in.
Weight: Approx. 61 g / 2.2 oz. (without power cord)

• EF-S 18-55mm f/3.5-5.6 II
Angle of view: Diagonal extent: 74°20' - 27°50'
Horizontal extent: 64°20' - 23°20'
Vertical extent: 49°30' - 18°40'
Lens construction: 11 elements in 9 groups
Minimum aperture: f/22 - 36
Closest focusing distance: 0.28 m / 0.92 ft.
Maximum magnification and field of view: 18mm: 0.10x (248 x 161 mm / 9.8 x 6.3 in.)
55mm: 0.28x (81 x 54 mm / 3.2 x 2.1 in.)
Filter size: 67mm
Hood: EW-60C
Diameter x length: 68.5 x 66 mm / 2.7 x 2.6 in.
Weight: Approx. 190 g / 6.7 oz.
Case: LP814

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

Compatible Operating Systems and Computer Environments

SOFTWARE	Windows				Macintosh		
	98SE	ME	2000	XP	OS X 10.2	OS X 10.3	OS X 10.4
EOS Utility	-	-	O	O	O	O	O
Digital Photo Professional	-	-	O	O	O	O	O
ZoomBrowser	O	O	O	O	-	-	-
CameraWindow MC	O	O	O	O	O	O	O
RAW Image Task	O	O	O	O	O	O	O
PhotoStitch	O	O	O	O	O	O	O
ImageBrowser	-	-	-	-	O	O	O

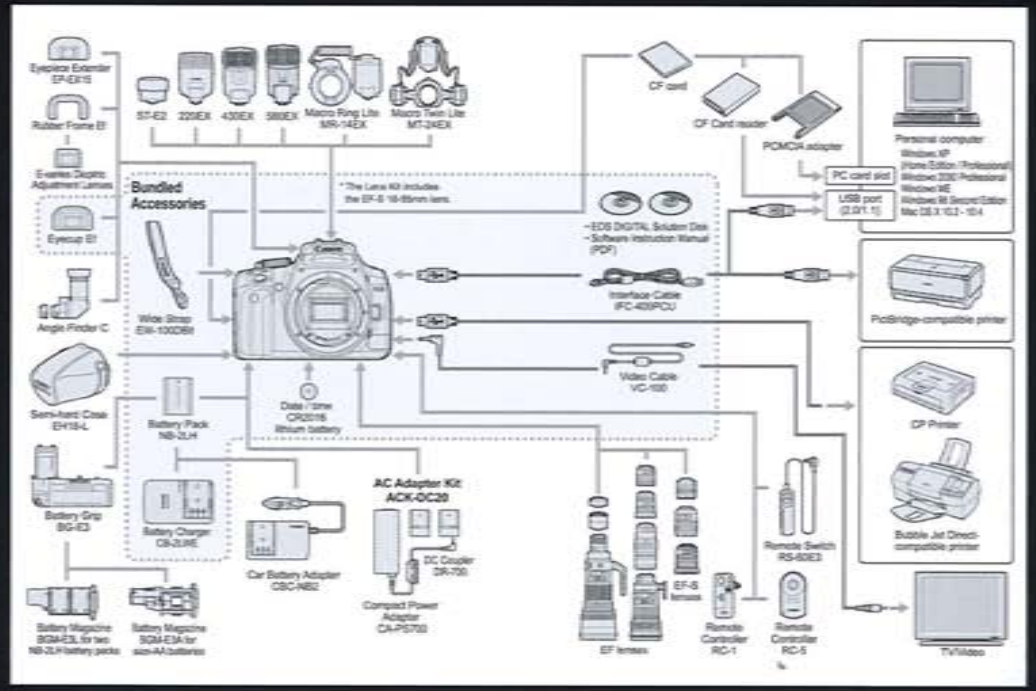
*Macintosh: Intel Mac (Universal Binary) supported
Windows: Vista support schedule under consideration

Recording Quality & File Size

Image-recording Quality		Pixels (Approx.)	Image	Compression Rate	Single Image Size (Approx. MB)	Possible Shots (Approx.)
Large	Fine	3888 x 2592 (10.10 megapixels)	JPEG	Low Compression	3.8	130
	Normal			High Compression	2.0	249
Medium	Fine	2816 x 1880 (5.30 megapixels)		Low Compression	2.3	216
	Normal			High Compression	1.2	410
Small	Fine	1936 x 1288 (2.50 megapixels)		Low Compression	1.3	376
	Normal			High Compression	0.7	709
RAW		3888 x 2592 (10.10 megapixels)	RAW	RAW: Loseless Compression	9.8	50
RAW +Large/Fine		-	RAW+JPEG		-	36

*The number of possible shots is based on Canon's testing standards and 512MB CF card.
*The single image size and number of possible shots will vary depending on the subject, shooting mode, ISO speed, Picture Style, etc.
*Since monochromatic shooting produces smaller file sizes than colour, the number of possible shots will be higher.

System Chart



EOS 400D DIGITAL

Canon

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