



# EOS 60Da DIGITAL SLR CAMERA

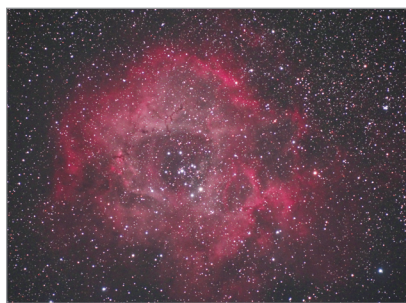
## A Star Performer

A DSLR optimized for astrophotography, Canon's EOS 60Da, the successor to the wildly popular EOS 20Da, is designed for astronomers, photographers and hobbyists who want to capture the beauty of the night sky. Engineered to ensure accurate depictions of the reddish hues when photographing diffuse nebulae and other cosmic phenomena with increased sensitivity at the hydrogen-alpha ( $H\alpha$ ) wavelength (656nm), the camera also features the same advances of the EOS 60D DSLR, including a Vari-angle 3.0-inch Clear View LCD monitor for Live View compositions, an amazing 18.0 Megapixel CMOS sensor, an ISO range of 100-6400 (expandable to 12800) and more. A newly bundled Remote Controller Adapter RA-E3 allows compatibility with the optional Timer Remote Controller TC-80N3.



## Key Features

- ▶ Increased spectral sensitivity for astrophotography, IR cut filter is modified to achieve three times the hydrogen-alpha ( $H\alpha$ ) sensitivity of the EOS 60D, allowing crisp, clear images of reddish, diffuse nebulae.
- ▶ 18.0 Megapixel CMOS (APS-C) sensor, ISO 100-6400; expandable to ISO 12800(H) and high performance **DiGIC-4** Image Processor for exceptional image quality and low noise.
- ▶ Vari-angle 3.0-inch Clear View LCD monitor (3:2) with approximately 1,040,000 dots delivers comfortable shooting at high or low angles and detailed focusing during Live View astrophotography.



*The EOS 60Da features a modified IR filter and a low-noise sensor with heightened hydrogen-alpha sensitivity.*

- ▶ Compatible with Canon's extensive family of EF and EF-S lenses and select EOS accessories.

## Recommended For:

- ▶ Astronomers
- ▶ Astrophotography
- ▶ Education

# EOS 60Da



# EOS 60Da DIGITAL SLR CAMERA

PRODUCT NAME: EOS 60Da ITEM CODE: 6596B002 UPC CODE: 013803151701

## SPECIFICATIONS

SPECIFICATIONS	TYPE	Digital, AF/AE single-lens reflex, camera with built-in flash A-SWD5ZWB600	
	RECORDING MEDIA	SD/SDHC/SDXC memory cards	
	IMAGE FORMAT	Approx. 0.88 x 0.59 in. / 22.3 x 14.9mm (APS-C size)	
	COMPATIBLE LENSES	Canon EF and EF-S Lenses (35mm-equivalent focal length is approx. 1.6x the lens focal length)	
	LENS MOUNT	Canon EF mount	
IMAGE SENSOR	TYPE	High-sensitivity, high-resolution, large single-plate CMOS sensor	
	PIXELS	Effective: Approx. 18.0 Megapixels: 5200 (H) x 3462 (V) pixels	
	TOTAL PIXELS	Approx. 19.0 Megapixels: 5432 (H) x 3492 (V) pixels	
	ASPECT RATIO	3:2 (Horizontal:Vertical)	
	COLOR FILTER SYSTEM	RGB primary color filters	
	INFRARED-BLOCKING FILTER	Modified to achieve a hydrogen-alpha(H $\alpha$ ) light (656nm) transparency approximately three times higher than the EOS 60D	
	EOS INTEGRATED CLEANING SYSTEM	(1) Self Cleaning Sensor Unit <ul style="list-style-type: none"> <li>Removes dust adhering to low-pass filter.</li> <li>Self-cleaning executed automatically (taking about 2 sec.) when power is turned on or off. Manual execution also possible (taking about 6 sec.).</li> <li>Low-pass filter has a fluorine coating.</li> </ul> (2) Dust Delete Data acquisition and appending <ul style="list-style-type: none"> <li>The coordinates of the dust adhering to the low-pass filter are detected by a test shot and appended to subsequent images.</li> <li>The dust coordinate data appended to the image is used by the provided software to automatically erase the dust spots.</li> </ul> (3) Manual cleaning	
		RECORDING FORMAT	Design Rule for Camera File System 2.0 and EXIF 2.3
	RECORDING SYSTEM	IMAGE FORMAT	Still Image: JPEG, RAW (14-bit Canon Original), M-RAW, S-RAW, RAW+JPEG, M-RAW+JPEG, S-RAW+JPEG Video: MOV (Image data: H.264; Audio: Linear PCM)
		PICTURE STYLE	Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Defined 1-3
SETTINGS		Auto (AWB), Daylight, Shade, Cloudy, Tungsten light, Fluorescent light, Flash*, Custom (Custom WB), Color Temperature	
WHITE BALANCE	AUTO WHITE BALANCE	Auto white balance with the image sensor	
	COLOR TEMPERATURE COMPENSATION	Blue/amber bias: $\pm 9$ levels Magenta/green bias: $\pm 9$ levels	
AUTOFOCUS	TYPE	TTL-CT-SIR AF-dedicated CMOS sensor	
	AF POINTS	All nine AF points are cross-type (center AF point with dual cross sensor for f/2.8)	
	AF WORKING RANGE	EV -0.5 to 18 (at 73°F/23°C and ISO 100)	
	FOCUSING MODES	(1) Autofocus · One-Shot AF · Predictive AI Servo AF · AI Focus AF (Switches between One-Shot AF and AI SERVO AF automatically) (2) Manual focus (MF)	
	SELECTED AF POINT DISPLAY	Indicated by superimposed display in the viewfinder and on the LCD panel	
EXPOSURE CONTROL	METERING MODES	Max. aperture TTL metering with 63-zone SPC with the following selectable modes: (1) Evaluative metering (linked to all AF points) (2) Partial metering (center, approx. 6.5% of viewfinder) (3) Spot metering (center, approx. 2.8% of viewfinder) (4) Center-weighted average metering	
	METERING RANGE	EV 0 to 20 (at 73°F / 23°C with 50mm f/1.4 lens at ISO 100)	
	SHUTTER	TYPE Vertical-travel, mechanical, focal-plane shutter with all speeds electronically-controlled	
	SHUTTER SPEEDS	1/8000 to 1/60 sec., X-sync at 1/250 sec 1/8000 to 30 sec., bulb	
BUILT IN FLASH	TYPE	Auto pop-up, retractable, built-in flash in the pentaprism	
	FLASH METERING SYSTEM	E-TTL II autofocus	
EXTERNAL SPEEDLITE	EOS DEDICATED SPEEDLITE	E-TTL II autofocus with all EX Series Speedlites	
	FLASH EXPOSURE COMPENSATION	$\pm 3$ stops in 1/3- or 1/2-stop increments	
VIDEO SHOOTING	FILE FORMAT	MPEG-4 AVC / H.264, Variable (averaged) bit rate	
	FILE SIZE	Recording Sizes: 1920 x 1080 (Full HD), 1280 x 720 and 640 x 480	
DIRECT PRINTING	COMPATIBLE PRINTERS	PictBridge-compatible printers	
	PRINTABLE IMAGES	RAW and JPEG images complying to Design rule for Camera File System	
LCD MONITOR	TYPE	TFT color, Vari-angle LCD monitor (3.2)	
	MONITOR SIZE	3.0-inches	
	PIXELS	Approx. 1.04 million dots	
POWER SOURCE	BATTERY	One Battery Pack LP-E6, AC power can be supplied with the AC Adapter Kit ACK-E6	
	DATE/TIME BATTERY	Built-in secondary battery	
	START-UP TIME	Approx. 0.1 sec	
DIMENSIONS AND WEIGHT	DIMENSIONS (W X H X D)	Approx. 5.69 x 4.17 x 3.09 in. (144.5 x 105.8 x 78.6mm)	
	WEIGHT	Approx. 755g (CIPA) (26.6 oz.), Approx. 675g (body only) (23.8 oz.)	

\*Automatically adjusted by the built-in flash and EX-series Speedlite with color temperature communication feature. Set to approx. 6000K if the flash unit does not have the color temperature communication feature.

## BUNDLED ACCESSORIES

### REMOTE CONTROL ADAPTER RA-E3

Canon's Remote Control Adapter RA-E3, which comes packaged with the EOS 60Da, provides the ability to connect a Canon Timer Remote Control such as the TC-80N3 (as shown to the right).



### AC ADAPTER KIT ACK-E6

Canon's AC Adapter Kit ACK-E6, which comes packaged with the EOS 60Da, allows the camera to be powered through an AC wall outlet or a battery-powered inverter, ideal for long exposure image or video capture at home or in the field.



## OPTIONAL ACCESSORIES

### TIMER REMOTE CONTROLLER TC-80N3



The optional TC-80N3 Timer Remote Control is ideal for controlling time exposures longer than 30 seconds as well as capturing a series of consecutive time exposures that can be composited during post-processing for improved image quality. This is especially useful when the camera body is connected to a telescope (third-party accessories required) or an EF super telephoto lens.

### BATTERY GRIP BG-E9



**The BG-E9 is an important option that can greatly increase shooting time**

Canon's Battery Grips are an essential option for professional photographers who travel with their camera, shoot portraits, sports or work in-studio. Battery Grips provide an optional power pack for EOS Cameras and allow users to load one or two LP-E6 battery packs. With two packs or six AA batteries, the already impressive battery life offers increased shooting time. This is especially useful when taking advantage of the camera's Movie mode or Live View mode - operating modes that use more power. Canon Battery Grips like the BG-E9 are also designed with a multi-controller, while all Battery Grips provide full vertical shooting controls that can be turned on or off independently, as the photographer needs to enhance camera handling, especially for shooting vertical pictures.

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