In Full Color



Canon EOS Rebel T6/1300D





Get up to speed on your camera's settings

Shoot with auto mode or explore manual settings

Discover the keys to better images

Julie Adair King

Canon EOS Rebel T6/1300D





Canon EOS Rebel T6/1300D

dummies

by Julie Adair King



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Introduction

n 2003, Canon revolutionized the photography world by introducing the first digital SLR camera (dSLR) to sell for less than \$1,000, the EOS Digital Rebel/300D. The camera delivered exceptional performance and picture quality, earning it rave reviews and multiple industry awards. No wonder it quickly became a best-seller.

That tradition of excellence and value lives on in the EOS Rebel T6/1300D. Like its ancestors, this baby offers a range of controls for experienced photographers plus an assortment of tools designed to help beginners be successful. For added fun, this Rebel offers some cool Wi-Fi functions, including one that enables you to send pictures wirelessly to your smartphone and to use your phone as a camera remote control.

About This Book

The T6/1300D is so feature-packed that sorting out everything can be a challenge. For starters, you may not even be sure what SLR means, let alone have a clue about what all the menu options and other camera features do. If you're like many people, you may be so overwhelmed that you have never taken your camera out of its automatic shooting mode. And that's a shame because you can enjoy so much more creativity and success by moving beyond auto mode.

Therein lies the point of *Canon EOS Rebel T6/1300D For Dummies*. In this book, you can discover not only what each bell and whistle on your camera does but also when, where, why, and how to put it to best use. Unlike many photography books, this one doesn't require any previous knowledge of photography or digital imaging to make sense of concepts. In classic *For Dummies* style, everything is explained in easy-to-understand language, with lots of illustrations to help clear up any confusion.

In short, what you have in your hands is the paperback version of an in-depth photography workshop tailored specifically to your Canon picture-taking power-house. Whether your interests lie in taking family photos, exploring nature and travel photography, or snapping product shots for your business, you'll get the information you need to capture the images you envision.

How This Book Is Organized

This book is organized into four parts, each devoted to a different aspect of using your camera. Although chapters flow in a sequence that's designed to take you from absolute beginner to experienced user, I also tried to make each chapter as self-standing as possible so that you can explore topics that interest you in any order you please. The next sections offer a brief preview of what you can find in each of the four parts.

Part 1: Fast Track to Super Snaps

This part contains chapters that help you get up and running:

- >> Chapter 1 offers a brief overview of camera controls and walks you through initial setup and customization steps.
- >> Chapter 2 explains basic picture-taking options, such as shutter-release mode and image quality settings.
- >> Chapter 3 shows you how to use the camera's simplest exposure modes, including Scene Intelligent Auto, Creative Auto, and scene modes (Portrait, Sports, Close-up, and so on).

Part 2: Taking Creative Control

Chapters in this part help you unleash the full creative power of your camera, showing you how to adjust exposure, color, and focus and also how to take advantage of movie-recording features.

- >> Chapter 4 covers the all-important topic of exposure, helping you to understand such fundamentals as f-stops and shutter speed and also exploring ways to deal with exposure problems.
- >> Chapter 5 explains your camera's focusing features and also shows you how to manipulate depth of field (the distance over which focus appears sharp in a photograph).
- >> Chapter 6 details your camera's color controls, including the White Balance and Picture Style options.

- >> Chapter 7 provides a quick-reference guide to shooting strategies for specific types of pictures: portraits, action shots, landscape scenes, and close-ups.
- >> Chapter 8 explains how to record and play movies.

Part 3: Working with Picture Files

As its title implies, this part discusses after-the-shot topics.

- >> Chapter 9 covers picture playback features, including options for customizing what you see on the screen in playback mode. I also explain how to understand exposure-evaluation tools known as *histograms*.
- >> Chapter 10 explains how to rate, protect, and delete photos and then helps you transfer pictures from your camera to your computer or smartphone. This chapter also introduces you to the free Canon photo software and discusses ways to process files that you shoot in the Raw format and prepare pictures for online sharing.

Part 4: The Part of Tens

In famous For Dummies tradition, the book concludes with two top-ten lists containing additional bits of information.

- >> Chapter 11 reveals ten ways to customize your camera that aren't covered in earlier chapters.
- >> Chapter 12 takes a look at ten features that, though not found on most "Top Ten Reasons I Bought My Camera" lists, are nonetheless interesting, useful on occasion, or a bit of both.

Beyond the Book

When you have a minute or two to go online, visit www.dummies.com and enter the text "Canon EOS Rebel T6/1300D For Dummies Cheat Sheet" in the search box. Along with information about the book, you should find a link to a Cheat Sheet, which provides a handy reference guide to important camera settings and terms. You can print the Cheat Sheet and carry it in your camera bag or download it so that you can read it even if you don't have Internet access.

Icons Used in This Book

Like other books in the *For Dummies* series, this book uses the following icons to flag especially important information:



A Tip icon flags information that will make your life easier. You'll save time, effort, money, or other valuable resources, including your sanity.





This icon highlights important information that's especially worth storing in your brain's long-term memory or to remind you of a fact that may have been displaced from that memory by another pressing fact.



If we present a detail that's useful mainly for impressing your geeky friends (but otherwise not critical for you to retain), we mark it with this icon.

TECHNICA



When you see this icon, look alive. It indicates a potential danger zone that can result in much wailing and teeth-gnashing if it's ignored.

WARNING

Additionally, replicas of some of your camera's buttons and onscreen graphics appear in the margins and in some tables. I include these images to provide quick reminders of the appearance of the button or option being discussed.

Where to Go From Here

To wrap up this preamble, I want to stress that if you initially think that digital photography is too confusing or too technical for you, you're in very good company. *Everyone* finds this stuff a little mind-boggling at first. Take it slowly, experimenting with just one or two new camera settings or techniques at first. Then, every time you go on a photo outing, make it a point to add one or two more shooting skills to your repertoire. With some time, patience, and practice, you'll soon wield your camera like a pro, dialing in the necessary settings to capture your creative vision almost instinctively.

So without further ado, I invite you to grab your camera and a cup of whatever it is you prefer to sip while you read and then start exploring the rest of this book. Your Rebel T6/1300D is the perfect partner for your photographic journey, and I thank you for allowing me, in this book, to serve as your tour guide.

Fast Track to Super Snaps

IN THIS PART . . .

Familiarize yourself with the basics of using your camera, from attaching lenses to navigating menus.

Find out how to select the exposure mode, Drive mode, and Image Quality (resolution and file type), and monitor important settings while shooting.

Discover options available for flash photography.

Get step-by-step help with shooting your first pictures in Scene Intelligent Auto mode.

Take more creative control by using scene modes and Creative Auto mode.

IN THIS CHAPTER

Preparing the camera for its first outing

Getting acquainted with camera features

Viewing and adjusting camera settings

Setting a few basic preferences

Chapter 1

Getting Upand Running

f you're like many people, shooting for the first time with a dSLR (digital single-lens reflex) camera produces a blend of excitement and anxiety. On one hand, you can't wait to start using your new equipment, but on the other, you're a little intimidated by all its buttons, dials, and menu options.

Well, fear not: This chapter provides the information you need to start getting comfortable with your Rebel T6/1300D. The first section walks you through initial camera setup. Following that, you can get an overview of camera controls, discover how to view and adjust camera settings, work with lenses and memory cards, and get my take on some basic setup options.

Preparing the Camera for Initial Use

After unpacking your camera, you have to assemble a few parts. In addition to the camera body and the supplied battery (be sure to charge it before the first use),

you need a lens and a memory card. Later sections in this chapter provide details about lenses and memory cards, but here's what you need to know up front:

- >> Lens: Your camera accepts Canon EF and EF-S model lenses. The 18–55mm kit lens sold as a bundle with the camera body falls into the EF-S category; some retailers are also offering a deal that includes the 75–300mm Canon EF lens. If you want to buy a non-Canon lens, check the lens manufacturer's website to find out which lenses work with your camera.
- >> SD (Secure Digital), SDHC, or SDXC memory card: The SD stands for Secure Digital; the HC and XC for High Capacity and eXtended Capacity. The different labels reflect how many gigabytes (GB) of data the card holds. SD cards hold less than 4GB; SDHC, 4GB to 32GB; and SDXC, greater than 32GB.

With camera, lens, battery, and card within reach, take these steps:

1. Turn the camera off.

2. Attach a lens.

First, remove the caps that cover the front of the camera and the back of the lens. Then locate the proper *lens mounting index* on the camera body. Your camera has two of these markers, one red and one white, as shown in Figure 1-1. Which marker you use to align your lens depends on the lens type:

- Canon EF-S lens: The white square is the mounting index.
- Canon EF lens: The red dot is the mounting index.

Your lens also has a mounting index; align that mark with the matching one on the camera body,

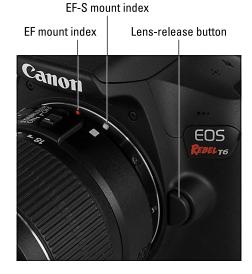


FIGURE 1-1:
Align the mounting index on the lens with the one on the camera body.

as shown in Figure 1-1, which features the 18–55mm EF-S lens. Place the lens on the camera mount and rotate the lens toward the lens-release button, labeled in the figure. You should feel a solid click as the lens locks into place.

3. Install the battery and memory card into the compartment on the bottom of the camera.

Hold the battery with the gold contacts facing down and the Canon label oriented toward the back of the camera. Then slide it into the compartment

and gently push it in until the battery-release switch closes.

I labeled the switch in Figure 1-2.
(To remove the battery, you must first push the release switch.)

Orient the memory card as shown in Figure 1-2 (the label faces the back of the camera). Push the card gently into the slot and close the cover.

4. Turn the camera on and adjust the settings.

When you power up the camera for the first time, the monitor displays a screen asking you to set the date, time, and time zone. To adjust the values on the screen, use the Set button and the four keys surrounding it — known as cross keys.



Battery-release switch

FIGURE 1-2:

Insert the memory card with the label facing the back of the camera.

Press the left or right cross keys to highlight an option box; press Set to activate the box. Press the up/down keys to change the value in the box and then press Set again. Lather, rinse, and repeat until you adjust all the settings. Highlight the OK box and press Set.

Adjust the viewfinder to your eyesight.

Tucked above the right side of the rubber eyepiece that surrounds the viewfinder is a dial that enables you to adjust the viewfinder focus to accommodate your eyesight.

Officially known as a *diopter adjustment dial,* it's highlighted in Figure 1-3.

If you don't take this step, subjects may appear sharp in the viewfinder when they aren't actually in focus, and vice versa.





FIGURE 1-3: Rotate this dial to set the viewfinder focus for your eyesight.



TECHNICAL STUEF

DECODING CANON LENS TERMINOLOGY

When you shop for Canon lenses, you may encounter these lens specifications:

- EF and EF-S: EF stands for electro focus; the S stands for short back focus. And that
 simply means the rear element of the lens is closer to the sensor than with an EF
 lens. The good news is that your T6/1300D works with both of these Canon lens
 types. However, you can't put an EF-S lens on Canon cameras that have only an EF
 mount, which include current high-end camera bodies.
- **IS:** Indicates that the lens offers *image stabilization*, a feature that helps prevent blur that can result from camera shake when you handhold the camera.
- **STM:** Refers to *stepping motor technology*, an autofocusing system that's designed to provide smoother, quieter autofocusing.

Here's how to properly adjust the viewfinder: Remove the lens cap, look through the viewfinder, and press the shutter button halfway to display data at the bottom of the viewfinder. Then rotate the diopter adjustment dial until the data appears sharpest. The markings in the center of the viewfinder, which relate to autofocusing, also become more or less sharp. (In dim lighting, the built-in flash may pop up when you depress the shutter button halfway; just close the flash unit after you complete the viewfinder adjustment.)

That's all there is to it — the camera is now ready to go. From here, I recommend that you keep reading the rest of this chapter to familiarize yourself with the main camera features. But if you're anxious to take a picture right away, I won't think any less of you if you skip to Chapter 3, which guides you through the process of using the camera's automatic shooting modes. Just promise that at some point, you'll read the pages in between, because they actually do contain important information.

Exploring External Camera Features

If you're new to dSLR photography, some aspects of using your camera, such as working with the lens, may be unfamiliar. But even if you've used a dSLR before, it pays to spend time before your first shoot with a new camera to get familiar with its controls. To that end, the upcoming pages provide an overview of the T6/1300D's external bells and whistles.

Topside controls

Your virtual tour begins on the top of the camera, shown in Figure 1-4. Here's a guide to the many bits and pieces found there, starting in the upper-right corner and traveling clockwise:

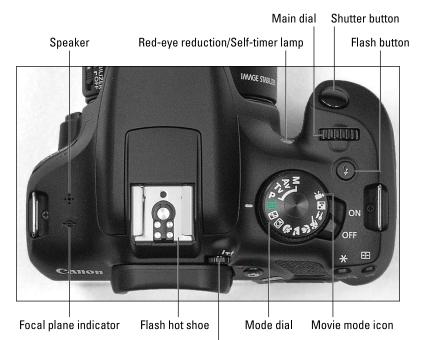


FIGURE 1-4: Here's a guide to controls found on top of the camera.

Diopter-adjustment dial

Red-eye reduction/Self-timer lamp: When you set your flash to Red-Eye Reduction mode, this lamp emits a brief burst of light prior to the real flash — the idea being that your subjects' pupils will constrict in response to the light, thus lessening the chances of red-eye. If you use the camera's self-timer feature, the lamp lights during the countdown period before the shutter is released. See Chapter 2 for more details about Red-Eye Reduction flash mode and the self-timer function.

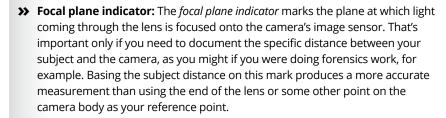


TIP

>> Shutter button: You no doubt already understand the function of this button. But you may not realize that when you use autofocus and autoexposure, you need to use a two-stage process when taking a picture: Press the shutter button halfway, pause to let the camera set focus and exposure, and then press the rest of the way to capture the image. You'd be surprised how many people mess up their pictures because they press that button with one quick jab, denying the camera the time it needs to set focus and exposure.

The beep you may hear is the camera telling you it was able to focus and is ready to take the photo.

- >> Main dial: You use this dial when selecting many camera settings. (Specifics are provided throughout the book.) In fact, this dial plays such an important role that you'd think it might have a more auspicious name, but Main dial it is.
- >> Flash button: Press this button to raise the built-in flash in the advanced exposure modes (P, Tv, Av, and M).
 - >> On/Off switch: I won't insult your intelligence by explaining what this switch does. But note that even when the switch is in the On position, the camera automatically goes to sleep after 30 seconds of inactivity to save battery power. You can adjust this timing via the Auto Power Off option on Setup Menu 1.
 - >> Mode dial: Rotate this dial to select an exposure mode, which determines whether the camera operates in fully automatic, semi-automatic, or manual exposure mode when you take still pictures. To shift to Movie mode, rotate the dial so that it aligns with the movie mode icon, labeled in Figure 1-4. Chapter 2 provides an overview of the still photography exposure modes; Chapter 8 covers movie recording.
 - >> Viewfinder diopter-adjustment dial: Use this dial (shown close-up in Figure 1-3) to adjust the viewfinder focus to your eyesight.
 - >> Flash hot shoe: This is the connection for attaching an external flash and other accessories such as the GP-E2 GPS Receiver.

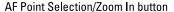


>> Speaker: When you play a movie that contains audio, the sound comes wafting through these little holes.

Back-of-the-body controls

Traveling over the top of the camera to its back, you encounter the smorgasbord of controls shown in Figure 1-5.





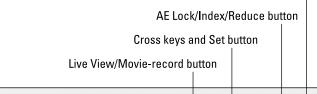




FIGURE 1-5:
Having lots
of external
buttons makes
accessing
the camera's
functions
easier.

Exposure Compensation/Delete button | Playback button | Card access light

Quick Control button | Wi-Fi indicator



TI

Buttons with a white icon perform shooting mode functions; buttons with blue icons are used in playback. Some buttons sport dual colors, meaning that they come into play for both functions.



REMEMBER

Throughout this book, pictures of some buttons appear in the margins to help you locate the button being discussed. So even though I provide the official names in the following list, don't worry about getting all those straight right now. Note, however, that some buttons have multiple names because they serve multiple purposes depending on whether you're taking pictures, reviewing images, recording a movie, or performing some other function. In this book, I take the approach used in the camera instruction manual, which is to reference the button according to the name that relates to the current function. Again, though, the margin icons help you know exactly which button you're to press.

With that preamble out of the way, it's time to explore the camera back, starting at the top-right corner and working westward (well, assuming that your lens is pointing north, anyway):





>> AF Point Selection/Magnify button: In certain shooting modes, you press this button to specify which autofocus points you want the camera to use when establishing focus. (Chapter 5 tells you more.) In Playback mode, covered in Chapter 9, you use this button to magnify the image display (thus the plus sign in the button's magnifying glass icon).



>> AE Lock/Index/Reduce button: During shooting, you press this button to lock autoexposure (AE) settings, as covered in Chapter 4, and to lock flash exposure (FE), a topic I discuss in Chapter 2.

This button also serves two image-viewing functions: It switches the display to Index mode, enabling you to see multiple image thumbnails at once, and it reduces the magnification of images when displayed one at a time.



>> Live View/Movie-record button: Press this button to shift to Live View mode, which enables you to compose your pictures using the monitor instead of the viewfinder. When shooting movies, you press this button to start and stop recording. (You must first set the Mode dial to the Movie position.)



After you shift to Live View or Movie mode, certain buttons perform different functions than they do for viewfinder photography. I spell out the differences when showing you how to use Live View and movie features throughout the book.

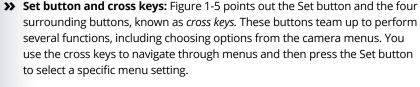


>> Exposure Compensation/Erase button: In the P, Tv, and Av exposure modes, you press this button while rotating the Main dial to adjust exposure compensation, a feature that enables you to tell the camera to produce a brighter or darker photo on your next shot. If you shoot in the M exposure mode, you press the button while rotating the Main dial to change the aperture setting (f-stop). Chapter 4 discusses both issues.

During playback, press this button to erase pictures — thus the blue trash-can symbol, the universal sign for "dump it." See Chapter 10 for details.



- >> Q (Quick Control) button: Press this button to display the Quick Control screen, which gives you one way to adjust picture settings. See "Changing Settings via the Quick Control Screen," later in this chapter, for help.
- >> DISP button: In Live View, Movie, and Playback modes, pressing this button changes the picture-display style. When menus are displayed, pressing the button brings up the Camera Settings display, also covered later in this chapter.





In this book, the instruction "Press the left cross key" means to press the one to the left of the Set button, "press the right cross key" means to press the one to the right of the Set button, and so on.

During viewfinder photography — that is, when you're using the viewfinder and not the monitor to frame your shots — the cross keys also have individual responsibilities, which are indicated by their labels:

- Press the up cross key to change the ISO setting. Detailed in Chapter 4, this exposure-related control determines how sensitive the camera is to light. You can adjust this setting only when shooting in the P, Tv, Av, and M exposure modes. (If the Mode dial is set to one of those modes and nothing happens when you press this cross key or any other buttons, give the shutter button a half-press and release it to wake up the camera.)
- Press the right cross key to adjust the AF mode. This option controls one
 aspect of the camera's autofocus behavior, as outlined in Chapter 5. Again,
 you can access this setting only in P, Tv, Av, and M shooting modes.
- Press the left cross key to change the Drive mode. The Drive mode settings enable you to switch the camera from single-frame shooting to continuous capture or self-timer/remote-control shooting. See Chapter 2 for details.
- Press the down cross key to change the White Balance setting. The White
 Balance control, explained in Chapter 6, enables you to ensure that colors
 are rendered accurately. The White Balance setting is also off-limits unless
 the Mode dial is set to P, Tv, Av, or M, but Chapters 3 and 6 show you some
 options for modifying colors in some of the other shooting modes.

For Live View and Movie shooting, the cross keys perform actions related to autofocusing; I get into those details in Chapter 5.



- >> Playback button: Press this button to switch the camera into picture-review mode.
- >> Menu button: Press this button to access the camera menus.
- >> Wi-Fi indicator: This lamp lights to indicate an active Wi-Fi connection.

 Chapter 10 explains the Wi-Fi feature that enables you to transfer pictures to a smartphone or tablet. Chapter 12 details the other Wi-Fi possibilities, which include using your phone or tablet as a wireless trigger for the camera's shutter button.

>> Card access light: This light glows while the camera is recording data to the memory card. Don't power off the camera or remove the memory card while the light is lit; you may damage the card or camera.

Front-left features

The front-left side of the camera sports three important features, labeled in Figure 1-6:

- >> Lens-release button: Press this button to disengage the lens from the lens mount so that you can remove it from the camera. While pressing the button, rotate the lens toward the shutter-button side of the camera to dismount the lens.
- >> Microphone: This cluster of holes leads to the camera's microphone. See Chapter 8 for details about choosing microphone settings.
- >> Connection ports: Hidden under the cover labeled *port access door* in Figure 1-6 are inputs for connecting the camera to various devices. Figure 1-7 labels each connection.
 - when recording movies, be careful not to cover the microphone with your finger.
 - attach a remote-control unit
 such as the Canon Remote Switch RS-60E3 wired controller here.
 - The RS-60E3 currently sells for under \$30 and is a worthwhile investment for long-exposure shooting (such as nighttime shots and fireworks). By using the remote control, you eliminate the chance that the action of your finger on the shutter button moves the camera enough to blur the shot, which is especially problematic during long exposures.
 - Digital terminal (USB and GPS connection terminal): You use this terminal to connect the camera to a computer via the supplied USB cable for picture downloading. (Chapter 10 offers details.) This terminal is also used for attaching the optional Canon GP-E2 GPS (Global Positioning System) unit, which mounts on the hot shoe and connects here.



Microphone



TIP