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Rebel T2i/550D
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***Canon® EOS
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**by Julie Adair King
with Dan Burkholder**



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About the Authors

Julie Adair King is the author of many books about digital photography and imaging, including the best-selling *Digital Photography For Dummies*. Her most recent titles include a series of *For Dummies* guides to popular digital SLR cameras, including the *Canon Rebel T1i/500D*, *XSi/450D*, *XS/1000D*, and *XTi/400D*. Other works include *Digital Photography Before & After Makeovers*, *Digital Photo Projects For Dummies*, *Julie King's Everyday Photoshop For Photographers*, *Julie King's Everyday Photoshop Elements*, and *Shoot Like a Pro!: Digital Photography Techniques*. When not writing, King teaches digital photography at such locations as the Palm Beach Photographic Centre. A graduate of Purdue University, she resides in Indianapolis, Indiana.

Dan Burkholder was one of the first photographic artists to embrace digital technology in the early 1990s. His personal journey from photography's mechanical era to one of pixels and computers has always been inclusive as he strives for new and exciting ways to blend the best of what the medium presents. Dan's workshops, books, and articles have inspired creative photographers all over the world. His most recent fine art photography starts with iPhone camera images that come to life as handmade platinum-palladium over gold leaf prints. Most importantly, Dan can't wait to see what happens next in the world of photography.

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Introduction

In 2003, when Canon introduced the first less-than-\$1,000 digital SLR camera, the EOS Digital Rebel/300D, it revolutionized the camera scene. For the first time, photography enthusiasts could enjoy the benefits of digital SLR photography without breaking the bank. And even at the then-unheard-of price, 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 T2i/550D. Like its ancestors, this baby offers the range of advanced controls that experienced photographers demand plus an assortment of tools designed to help beginners be successful as well. Adding to the fun, this camera also brings a brand-new feature to the Rebel line: the option to record high-definition digital movies.

This Rebel is so feature-packed, in fact, that sorting out everything can be a challenge, especially if you're new to digital photography or SLR photography, or both. For starters, you may not even be sure what SLR means or how it affects your picture taking, let alone have a clue about all the other techie terms you encounter in your camera manual — resolution, aperture, white balance, and format, for example. And, if you're like many people, you may be so overwhelmed by all the controls on your camera that you haven't yet ventured beyond fully automatic picture-taking mode. That's a shame because it's sort of like buying a Porsche Turbo and never pushing it past 50 miles per hour.

Therein lies the point of *Canon EOS Rebel T2i/550D 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, either. 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 powerhouse. 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.

A Quick Look at What's Ahead

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, we also tried to make each chapter as self-standing as possible so that you can explore the topics that interest you in any order you please.

The following sections offer brief previews of each part. If you're eager to find details on a specific topic, the index shows you exactly where to look.

Part I: Fast Track to Super Snaps

Part I contains four chapters that help you get up and running with your Rebel T2i/550D:

- ✓ Chapter 1, "Getting the Lay of the Land," offers a tour of the external controls on your camera, shows you how to navigate camera menus to access internal options, and walks you through initial camera setup and customization steps.
- ✓ Chapter 2, "Taking Great Pictures, Automatically," shows you how to get the best results when using the camera's fully automatic exposure modes, including Portrait, Sports, and Landscape. The camera also features the new Creative Auto mode, which makes it easy for you to take a little more artistic control over your photos.
- ✓ Chapter 3, "Controlling Picture Quality," introduces you to a setting that's critical whether you shoot in automatic or manual mode: The Quality setting affects resolution (pixel count), file format, file size, and picture quality.
- ✓ Chapter 4, "Monitor Matters: Picture Playback, Live View, and Movie Mode" explains how to review your pictures on the camera monitor, delete unwanted images, and protect your favorites from accidental erasure. In addition, this chapter introduces you to Live View shooting, in which you can use your monitor as a viewfinder, and explains your camera's movie-recording features.

Part II: Taking Creative Control

Chapters in this part help you unleash the full creative power of your camera by moving into semiautomatic or manual photography modes.

- ✓ Chapter 5, “Getting Creative with Exposure and Lighting,” covers the all-important topic of exposure, starting with an explanation of three critical exposure controls: aperture, shutter speed, and ISO. This chapter also discusses your camera’s advanced exposure modes (P, Tv, Av, M, and A-DEP), explains exposure options such as metering mode and exposure compensation, and offers tips for using the built-in flash.
- ✓ Chapter 6, “Manipulating Focus and Color,” provides help with controlling those aspects of your pictures. Look here for information about your camera’s automatic and manual focusing features as well as for details about color controls, such as White Balance and the Picture Style options.
- ✓ Chapter 7, “Putting It All Together,” summarizes all the techniques explained in earlier chapters, providing a quick-reference guide to the camera settings and shooting strategies that produce the best results for specific types of pictures: portraits, action shots, landscape scenes, close-ups, and more.

Part III: Working with Picture Files

This part of the book, as its title implies, discusses the often-confusing aspect of moving your pictures from camera to computer and beyond.

- ✓ Chapter 8, “Downloading, Organizing, and Archiving Your Photos,” guides you through the process of transferring pictures from your camera memory card to your computer’s hard drive or other storage device. Just as important, this chapter explains how to organize and safeguard your photo files.
- ✓ Chapter 9, “Printing and Sharing Your Photos,” helps you turn your digital files into “hard copies,” covering both retail and do-it-yourself printing options. This chapter also explains how to prepare your pictures for online sharing and, for times when you have the neighbors over, how to display your pictures on a television screen.

Part IV: The Part of Tens

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

- ✓ Chapter 10, “Ten Fast Photo-Editing Tricks,” shows you how to fix less-than-perfect images using the free software provided with your camera. You can find out how to remove red-eye, adjust color and exposure, crop your photos, and more.

- ✓ Chapter 11, “Ten Special-Purpose Features to Explore on a Rainy Day,” presents information about some camera features that, though not found on most “Top Ten Reasons I Bought My Rebel T2i/550D” lists, are nonetheless interesting, useful on occasion, or a bit of both.

Icons and Other Stuff to Note

If this isn't your first *For Dummies* book, you may be familiar with the large, round icons that decorate its margins. If not, here's your very own icon-decoder ring:



- ✓ A Tip icon flags information that saves you time, effort, money, or another valuable resource, including your sanity.
- ✓ We apply this icon either to introduce 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.
- ✓ 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.
- ✓ Lots of information in this book is of a technical nature — digital photography is a technical animal, after all. But if we present a detail that's useful mainly for impressing your geeky friends, we mark it with this icon.

Additionally, we need to point out a few other details that will help you use this book:

- ✓ **Other margin art:** Replicas of some of your camera's buttons and onscreen graphics also appear in the margins of some paragraphs and in some tables. We include these images to provide quick reminders of the appearance of the button or option being discussed.
- ✓ **Software menu commands:** In sections that cover software, a series of words connected by an arrow indicates commands you choose from the program menus. For example, if a step tells you, “Choose File→Print,” click the File menu to unfurl it and then click the Print command on the menu.

✓ **Camera firmware:** *Firmware* is the internal software that controls many of your camera's operations. This book was written using version 1.0.6 of the firmware, which was the most current at the time of publication.

Occasionally, Canon releases firmware updates, and you should check its Web site (www.canon.com) periodically to find out whether any updates are available. (Chapter 1 tells you how to determine which firmware version your camera is running.) Firmware updates typically don't carry major feature changes — they're mostly used to solve technical glitches in existing features. An exception to this rule is in the new world of high-definition video; some recent Canon firmware updates have included neat and useful video (and sound) recording improvements. If you download an update, be sure to read the accompanying description of what it accomplishes so that you can adapt this book's instructions as necessary.

About the Software Shown in This Book

Providing specific instructions for performing photo organizing and editing tasks requires that we feature specific software. In sections that cover file downloading, organizing, printing, and e-mail sharing, we selected Canon EOS Utility along with Canon ZoomBrowser EX (for Windows users) and ImageBrowser (for Mac users). These programs are part of the free software suite that ships with your camera.

Rest assured, though, that the tools used in these programs work similarly in other programs, so you should be able to easily adapt the steps to whatever software you use. (Of course, we recommend that you read your software manual for details.)

eCheat Sheet

As a little added bonus, you can find an electronic version of the famous *For Dummies* Cheat Sheet at www.dummies.com/cheatsheet/canoneosrebel2i550d. The Cheat Sheet contains a quick-reference guide to all the buttons, dials, switches, and exposure modes on your T2i/550D. Log on, print it out, and tuck it in your camera bag for times when you don't want to carry this book with you.

Practice, Be Patient, and Have Fun!

To wrap up this preamble, we 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. Playfulness with your camera is encouraged!

We know that it's hard to believe when you're just starting out, but it truly isn't long before everything starts to come together. 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.

Without further ado, we 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 T2i/550D is the perfect partner for your photographic journey, and Julie and Dan thank you for allowing them, in this book, to serve as your tour guides.

Part I

Fast Track to Super Snaps



In this part . . .

Making sense of all the controls on your Rebel T2i/550D isn't a task you can complete in an afternoon — or, heck, in a week or maybe even a month. But that doesn't mean you can't take great-looking pictures today. By using your camera's point-and-shoot automatic modes, you can capture terrific images with very little effort. All you do is compose the scene, and the camera takes care of almost everything else.

This part shows you how to take best advantage of your camera's automatic features and also addresses some basic setup steps, such as adjusting the viewfinder to your eyesight and getting familiar with the camera menus, buttons, and dials. In addition, chapters in this part explain how to obtain the *best* picture quality whether you shoot in an automatic mode or a manual mode, how to review photos, and how to use your camera's Live View and movie-making features.



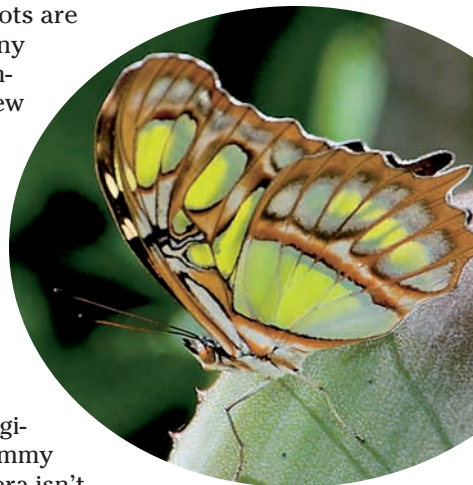
Getting the Lay of the Land

In This Chapter

- ▶ Attaching and using an SLR lens
- ▶ Adjusting the viewfinder's focus
- ▶ Working with camera memory cards
- ▶ Getting acquainted with external camera controls
- ▶ Decoding viewfinder and monitor information
- ▶ Selecting options from menus
- ▶ Using the Shooting Settings and Quick Control displays
- ▶ Customizing basic camera operations

For many people, getting your first *serious* camera means moving from a point and shoot (and some point and shoots are very capable) to an SLR (single-lens reflex). As with any growth spurt, the excitement of the move is often tempered with a bit of anxiety. Sure, you can do lots of new things with your dSLR (digital SLR), but along with that newfound capability comes a barrage of new buttons, knobs, LCD menus, and mechanical knick-knacks. Heck, this may be the first time you've even changed lenses on a camera — a big step in itself. Sure, you have the camera manual by your side, but it can be written in a cold or complicated way, making the learn-to-use-your-new-camera experience even more challenging.

If the Rebel T2i is both your first SLR *and* your first digital camera, you're getting something of a double-whammy in the New Stuff department. Fear not, your new camera isn't nearly as complicated as your first inspection may suggest. With some practice and the help of this chapter (which introduces you to each external control), you'll find yourself nestling in comfortably with your new camera, making your photography more exciting and natural than ever.



This chapter also guides you through the process of mounting and using an SLR lens, working with digital memory cards, and navigating your camera's internal menus. Finally, the end of the chapter walks you through options that enable you to customize many aspects of your camera's basic operation.



Before you start exploring this chapter, be sure that you fully charge your camera battery and then install it into the battery chamber on the bottom of the camera. You've probably already done this, but if not and you need help, the front part of the camera manual provides details.

Getting Comfortable with Your Lens

One of the biggest differences between a point-and-shoot camera and an SLR camera is the lens. With an SLR, you can swap out lenses to suit different photographic needs, going from an extreme close-up lens to a super-long telephoto, for example. Additionally, an SLR lens has a movable focusing ring that lets you focus manually instead of relying on the camera's autofocus mechanism. Even this basic difference extends your picture-making opportunities in big ways.

Of course, those added capabilities mean that you need a little background information to take full advantage of your lens. To that end, the next three sections explain the process of attaching, removing, and using this critical part of your camera.

Attaching a lens

Your camera can accept two categories of Canon lenses: those with an EF-S design and those with a plain-old EF design.



The EF stands for *electro focus*; the S, for *short back focus*. And *that* simply means the rear element of the lens is closer to the sensor than with an EF lens. And no, you don't need to remember what the abbreviation stands for — just make sure that if you buy a Canon lens other than the one sold with the camera, it carries either the EF or EF-S specification. (The letters are part of the lens name; for example, the kit lens name is EF-S 18–55mm IS, and IS stands for image stabilization, a feature we explain later in this chapter.) If you want to buy a non-Canon lens, check the lens manufacturer's Web site to find out which lenses work with the Rebel T2i/550D.

Whatever lens you choose, follow these steps to attach it to the camera body:

1. Remove the cap that covers the lens mount on the front of the camera. (Twist counterclockwise, just like you're removing a bottle cap.)
2. Remove the cap that covers the back of the lens (counterclockwise again).
3. Locate the proper lens mounting index on the camera body.

A *mounting index* is simply a marker that tells you where to align the lens with the camera body when connecting the two. 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.

If you buy a non-Canon lens, check the lens manual for help with this step.



Figure 1-1: Which index marker you should use depends on the lens type.

4. Align the mounting index on the lens with the correct one on the camera body.

The lens also has a mounting index. Figure 1-2 shows the one that appears on the so-called *kit lens* — the EF-S 18–55mm IS zoom lens that Canon sells as a unit with the Rebel T2i/550D. If you buy a different lens, the index marker may be red or some other color, so again, check the lens instruction manual.

5. Keeping the mounting indexes aligned, position the lens on the camera's lens mount.

When you do so, grip the lens by its rearmost collar, as shown in Figure 1-2.

6. Turn the lens in a clockwise direction until the lens clicks into place.

In other words, turn the lens toward the lens-release button (see Figure 1-1), as indicated by the red arrow in Figure 1-2.

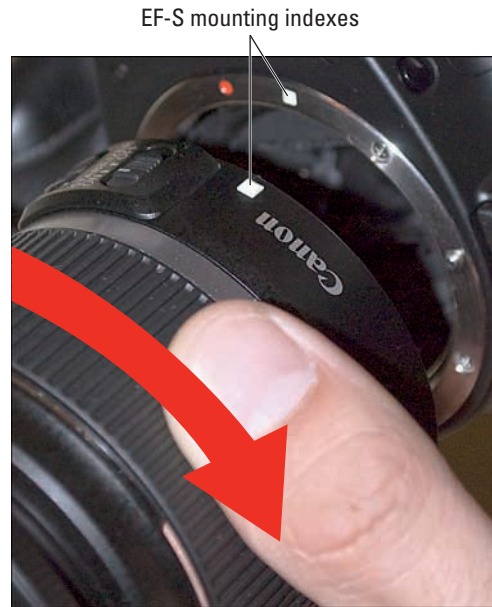


Figure 1-2: Place the lens in the lens mount with the mounting indexes aligned.



Always attach (or switch) lenses in a clean environment to reduce the risk of getting dust, dirt, and other contaminants inside the camera or lens. Changing lenses on the beach on a windy day, for example, isn't a good idea. For added safety, point the camera body slightly down when performing this maneuver, as shown in the figure. Doing so helps prevent any flotsam in the air from being drawn into the camera by gravity.

Removing a lens

To detach a lens from the camera body, take these steps:

- 1. Locate the lens-release button on the front of the camera, labeled in Figure 1-1.**
- 2. Grip the rear collar of the lens.**

In other words, hold onto the stationary part of the lens that's closest to the camera body.