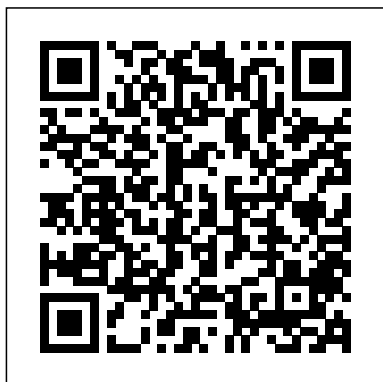


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# Manual Focus Vs Autofocus Lens

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*Understanding Exposure, Fourth Edition*  
John Wiley & Sons

While focusing your camera seems like it should be a no-brainer—there's autofocus, after all!—it's often not a simple task.

Depending on the shooting situation, your camera, and the countless scenarios that can “throw off” the focus, the task of achieving sharp images with great focus

can be deceptively challenging. If you're a passionate photographer eager to learn the best ways to achieve tack-sharp focus in your images, these 50 focus-based principles are exactly what you need to take your work to the next level. With photographer and author John Greengo as your guide, you'll quickly learn nearly four dozen techniques for achieving focus in every shooting situation. You'll learn:

- How to optimize autofocus no matter what kind of camera you have (DSLR or mirrorless)
- How to master manual focus
- Which focus modes and focus areas work best for different situations
- How to use your camera's autofocus aids, such as magnification and focus peaking
- Techniques to keep your camera stable,

either handheld or on a tripod

- How shutter speed and aperture affect sharpness

Written in the author's friendly and approachable style, and illustrated with examples that clearly show how each technique can help you capture great photos, *50 Things Photographers Need to Know About Focus* is designed to be an effective, fast, and fun way to learn how to achieve great focus in your images—no matter what situation.

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## Chapter 10: Advanced Focusing Techniques

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#### 50 Things Photographers Need to Know

#### About Focus Taylor & Francis

Award-winning photographer Stuart Franklin's exploration of how we, as humans, are driven to visually document our experiences and the world around us. Stuart Franklin took one of the most powerful photographs of the twentieth century - the 'tank man' in Tiananmen Square, Beijing, 1989. From his insightful position as a photographer, Franklin explores why we are driven to visually document our experiences and the world around us. He focuses on photography but traces this universal need through art, literature and science. Looking at photojournalism, war photography and work recording our culture, Franklin identifies some of its driving impulses: curiosity, outrage, reform and ritual; the search for evidence, for beauty, for therapy; and the immortalization of memory. As our understanding of 'documentary' continues to expand, Franklin considers photographic staging - where, perhaps, the future of the genre may lie: in search of truth over fact. "This book traces what I shall call the documentary impulse. Here I mean the passion to record, with fidelity, the

moments we experience and wish to preserve, the things we witness and might want to reform; or simply the people, places or things we find remarkable... Photography (and journalism) practised respectfully has the power to educate us all towards a greater understanding and empathy towards others." —Stuart Franklin  
**Nikon D60** "O'Reilly Media, Inc."

This book explains how to take surreptitious photographs and record video of people and property in a safe and effective manner while producing excellent results. It is the most comprehensive text on clandestine photography available. It takes the reader through conventional as well as the most sophisticated clandestine photography methods in practice today, and it covers the use of all types of equipment ranging from off-the-shelf to the most high-tech equipment available. The

ultra-long-range night vision photography methods discussed in this book were devised by the authors and only exist here. Readers will discover esoteric techniques for photographically recording recognizable human and vehicle plate images from distances of over a mile in both daylight and night conditions. Myriad methods for secretly photographing people and property under diverse and difficult conditions are presented. Readers will discover innovative applications of combinations of old and new photographic-related technologies—some combined in unexpected ways that produce surprising results. It is written and extremely well illustrated in an easy to understand style for all photographers regardless of skill level. The book is

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appropriate for anyone in law enforcement, military operations, and private investigation. It will also benefit government surveillance specialists and those responsible for detecting and thwarting manual clandestine photography.

Wedding Photojournalism: The Business of Aesthetics John Wiley & Sons

Capturing the grandeur of landscapes or mood of a certain natural light is challenging but often the simple details of a texture or color evade photographers most of all. In *Close Up Photography in Nature*, best-selling authors and nature photography pros, John and Barbara Gerlach, share the tips and techniques necessary to successfully photograph the beauty all around you. The Gerlachs are celebrated teachers who understand a photographer's mind so they begin this book with a brief overview of the fundamentals before delving into some of the more advanced and unique challenges of close up photography. Topics covered include: advanced flash techniques specific for close up shooting, as well as a discussion on focus stacking strategies and tilt-shift lenses for getting maximum depth-of-field. The Gerlachs also discuss their strategy of mixing flash with natural light when shooting close up, which opens up all sorts of

photographic possibilities — opening up shadows, creating shadows, separating the subject from the background, reducing contrast between the subject and the background, improving the color rendition, shooting sharper images, and much more. This book will change the way you see the world as well as the way you share it through your work! the world through your work!

The Documentary Impulse Taylor & Francis

Take your best shot with your new Nikon D3300 Congratulations on your new Nikon D3300 DSLR! You probably want to get shooting right away, but first you need to know some basics about the controls and functions. *Nikon D3300 For Dummies* is your ultimate guide to your new camera, packed with everything you need to know to start taking beautiful photographs right out of the gate. Author Julie Adair King draws on a decade of experience in photography instruction, specifically Nikon and Canon, to walk you through the basics and get you started off on the right foot. Your new Nikon D3300 offers full control over exposure settings, but it also includes pre-sets and auto mode options for beginners. *Nikon D3300 For Dummies* guides you through the specifics of each

setting, and teaches you how to determine what controls work best in a given situation. Written specifically for the Nikon D3300, the book discusses only the controls and capabilities available on your model, and shows you where to find them and how to use them. Topics include: Shooting in auto mode, playback options, and basic troubleshooting Working with light, focus, and color, and conquering video mode Picture organization, including file transfer and sharing Tips on photo editing and select features This full-color book includes a variety of photos that demonstrate the effects of different settings, allowing you to develop an eye for matching controls to situations. If you want to get the most out of your new DSLR, *Nikon D3300 For Dummies* is the best, most complete guide on the market.

Nikon D7500 For Dummies John Wiley & Sons Through easy-to-follow lessons, this handy book offers a complete class on digital photography, tailored specifically for people who use the Nikon D90. This is not your typical camera guide: rather than just show you what all the buttons do, it teaches you how to use the D90's features to make great photographs-including professional-looking images of people, landscapes, action shots, close-

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ups, night shots, HD video, and more. With Ben Long's creative tips and technical advice, you have the perfect, camera-bag-friendly reference that will help you capture stunning pictures anywhere, anytime. The Nikon D90 Companion will show you how to: Take creative control and go beyond automatic settings Learn the basic rules of composition Capture decisive moments, including fast-moving objects Discover ways to use a flash indoors and outdoors Learn about different lenses, and the best time to use them Understand the options for shooting RAW, and whether it's right for you Use the D90's ability to shoot high definition video

### A Photographer's Guide to Focus and Autofocus CreateSpace

Photographers! Your guide is here! The demand for high-quality photographs is higher than ever. Whether you 're building your influencer rating online, capturing the moments of a child 's life, or are looking for ways to improve your skills, photography know-how is a must-have skill. Digital Photography For Dummies helps you do more than pointing, shooting, and hoping for the best or slapping a filter on a camera phone shot. This book introduces you to the camera settings and techniques that separate okay pictures from frame-worthy portraits. It then explains how to

apply those skills to capturing your own portraits, landscape shots, and high-action photos. Develop a better eye for image composition Discover how to light photos better, including using natural light Learn to get quick results in auto settings or take full control in manual mode Discover the elements of exposure and how they influence the final product Find instructions on taking a formal or casual portrait Apply basic editing techniques to finalize your image Go beyond photo apps and apply the techniques pros use for their images.

### CLANDESTINE PHOTOGRAPHY

#### Clube de Autores

The difference between getting the shot and missing the shot comes down to split seconds and how you manage your gear and your technique. In Outdoor Action and Adventure Photography professional adventure sports photographer Dan Bailey shows readers how to react quickly to unfolding scenes and anticipate how the subject and the background might converge. Capturing those significant moments to produce powerful imagery that evoke the feel and mood of adventure requires specialized skills and a wide variety

of creative ideas. This book teaches photographers how to think geometrically and how to pull together the elements that make for a successful shot, all while being immersed in the action. The practical manual will improve your technique for creating more compelling adventure imagery, whether you 're shooting ultra-marathoners splattered in mud, rock climbers in a crevasse, or mountain bikers hurtling past you. In this book, you 'll:

- Discover the necessary equipment for shooting action, learn how to use it to its full potential, and develop a comprehensive adventure photography camera system that you can adapt to different shooting situations.
- Learn specific techniques and creative ideas that help you freeze the moment and create images that convey excitement, mood, and the feel of adventure.
- Learn advanced skills that can help you start defining your own particular style of action photography and create a "brand" of photography that 's based around your passion and your vision.
- Examine case studies that break down the process for shooting different types of action subjects and see the nuts and bolts of

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how to create powerful imagery from start to finish.

Yosemite Meditations Essence Pub

Nikon D40/D40x Digital Field Guide is filled with everything you need to know in order to take amazing photographs using your Nikon D40 or Nikon D40x. This full-color portable guide walks you through the essential controls, features, and functions of your Nikon D40 or D40x digital SLR using step-by-step instructions and full-color images of each menu screen. This robust guide not only shows you how to adjust white balance, autofocus, exposure, and choose lenses, it also teaches you when and why you should adjust each of these key settings. The Nikon D40/D40x Digital Field Guide goes beyond camera settings to offer you a refresher guide to the principles of digital photography, covering the essentials of lighting, composition, and exposure. Filled with amazing examples, this book also presents you with a variety of tips and tricks to capturing portraits, candids, sports, travel, macro photography, and much more.

Practical HDRI Yosemite Conservancy

The Handbook of Bird Photography distills the knowledge, talent, and experience of three well-known professional wildlife photographers into one beautifully illustrated volume. Written in a manner that is easy to understand, this book offers fresh insight and practical tips that will broaden horizons for nature and bird

showcasing photographs for which they have received awards in major international wildlife photo competitions. In this book, you'll learn about all of the elements that lead to a great bird photograph, including: The bird photographer's equipment Shooting techniques: exposure, focus, how to show movement and freeze action, etc. In the field: bird behavior, hides, and how to attract birds How to use light and compose and crop images The best sites for finding and photographing birds You'll also learn how to show, share, promote, and sell your photographs. Bird photography is a brilliant way to spend your free time, and for some it's a career. This book helps beginners get the hang of things quickly and accurately, and offers field-specific expertise for more experienced photographers. A Year with My Camera John Wiley & Sons

Fully updated, this edition covers the HDR process from image capture through post-processing for Web and print. "Practical HDRI" is richly illustrated with step-by-step tutorials for creating professional results using the leading HDR software titles.

Nikon D7200 For Dummies Tony Northrup

**MEET YOUR DSLR** There are tons of camera types on the market today—from cheap point-and-shoots to mirrorless interchangeable-lens (ILC) models, from tiny action cams to the camera on your smartphone. But for many dedicated shooters, the obvious first choice in equipment is still a digital single-lens reflex (DSLR) camera. Why? First, DSLRs allow a shooter to frame pictures with precision fairly easily. Second, the sheer number of lens types available lets one camera perform many functions. Like any new piece of equipment, function and controls can take some getting used to. Here ' s an overview of the main controls, as well as a quick peek at what ' s going on inside the camera itself. **MANUAL FOCUS RING** Don ' t want your camera to decide where to focus? Turn this ring. Want to make fine manual focus adjustments while using autofocus? Again, turn this ring. **ZOOM RING** When your DSLR is fitted with a zoom lens, use this ring to adjust for desired focal length—and determine how close or far away a subject in your shot appears. **IMAGE STABILIZATION SWITCH** Located on your lens or the body of your camera, this switch kicks image stabilization on and off. This function allows you to get sharper images of static objects without a tripod or in lower light than might be possible without it. **HOTSHOE** While it sounds like a dated dance move, it ' s actually where you attach a flash or other accessory to your camera. A lot of times, DSLRs come with covers to shield the hotshoe when it ' s not in use. **MODE DIAL** Use this dial to pick a shooting mode. Cede control of exposure

settings to the camera in fully automatic mode, be a control freak in fully manual, or try one of the many preset program modes. **ISO BUTTON** This button controls the light sensitivity of your camera's image sensor. If you're shooting in ultrabright light, use a low ISO (50 – 200), and increase ISO in lower light. FYI, the higher the ISO in use, the more noise—visual distortion, often in the form of grainy or blotchy appearance—your image may have. **AUTOFOCUS BUTTON** Press this button to tell your DSLR to pick which elements in your shot should appear the sharpest. **VIEWFINDER** Peek through the viewfinder to make choices about how to compose and frame your shot. Through it, you'll see a corrected (read: right side up) version of the image that reflects off your camera's reflex mirror. **SHUTTER** Essentially a mechanical curtain, the shutter serves as a movable barrier between a camera's image sensor and its lens. Open the shutter, and your camera's reflex mirror pivots up, allowing an image to hit the image sensor. **PENTAPRISM** Not unlike the brain's visual cortex—the part of your brain that converts images your eyes see as upside down—this pentagon-shape prism flips an image out of reverse before sending it the viewfinder's way. **IMAGE SENSOR** A device covered with pixels (light-sensitive cells), an image sensor measures the intensity and color of an image that has passed through the shutter. Last, the image sensor converts these measurements into digital form—ultimately capturing your shot. **REFLEX MIRROR** When an image enters a lens, it's

upside down. The reflex mirror reflects that image through a focusing screen, in the direction of the pentaprism. **LENS** Detachable lenses change your camera's capabilities by narrowing or widening a circular opening—the size of which is called the aperture—to control the amount of light that enters. Light passes through the lens on its way to the reflex mirror.

**Digital Landscape Photography** Tony Northrup Your guide to capturing that perfect shot The Nikon D7500 has created a buzz in the photography community, gaining recognition for its appealing combination of high-end features and compact size. If you're upgrading your existing dSLR or even purchasing your very first camera, Nikon D7500 For Dummies will help you feel like a pro in no time. This book highlights the importance of understanding all of the basic features of your new camera, before diving into insights about how to take top-notch photos. You'll learn about when and how to use flash, understand exposure, and control focus and depth of field. There is also information on taking expert action, close-up, and landscape shots, and how to access and download those photo files. Photography is a great way to capture lifelong memories, and this book makes it easy to get started. Learn photography terminology Shoot, view, and trim movies Master color controls Discover ways to customize your camera Don't just settle for auto mode; take advantage of all the D7500's amazing features with the help of Nikon D7500 For Dummies!

**Nikon D3300 For Dummies** John Wiley & Sons See the world differently through your new Nikon D5300 Your new Nikon D5300 digital SLR camera represents something about you. It shows that you want something more than a point-and-shoot camera has to offer. You want to take better photos. You want more control. You don't want to rely on editing to make beautiful photographs. Well, there's good news—you now have the right tool to make that happen! Now you need to learn how to use it. The Nikon D5300 has more features and expanded capabilities, and offers you more options for shooting in different situations. Taking advantage of the full complement of controls and settings gives you the power to capture images in new and imaginative ways. Nikon D5300 For Dummies is your ultimate guide to using your new DSLR to its utmost capability. Author Julie Adair King brings her vast experience both as a veteran photographer and a photography teacher to you in this full-color, easy to follow Nikon D5300 guide. Nikon D5300 For Dummies contains more information that you would typically get in a basic photography course, plus information specific to the camera. Over 200 full-color images help illustrate concepts and apply them to the Nikon D5300, making this the ultimate reference for the beginning or veteran photographer. Master controls, basic photography principles, and shooting in auto Get creative with advanced settings and video functions Take charge with manual controls, and understand camera functionality Find tips on editing and sharing

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photos You have an excellent camera. Don't be content with shooting in auto mode forever! Master your DSLR and learn your way around the settings for the most gorgeous photographs you've ever taken. Nikon D5300 For Dummies is your guide to making it all happen.

Digital Photography For Dummies Phaidon Press A must-have, full-color guide to the Nikon D7100 The Nikon D7100 is an ideal camera for beginning photographers who may lack structured photography training but are still eager and determined to take great photos. And that's where this fun-and-friendly guide comes in handy!

Packed with more than 300 full-color photos, this introductory guide begins by helping you get a feel for the camera, get comfortable shooting in auto mode, managing playback options, and handle basic troubleshooting strategies. Veteran author Julie Adair King walks you through the D7100's features and encourages you to take creative control so that you can start capturing stunning pictures immediately. Packs in more than 300 full-color photos that exemplify the basic photo skills needed to get great shots Shares a wealth of information from one of the most popular digital photography authors Walks you through adjusting manual settings to get better results from exposure, lighting, focus, and color Contains an entire chapter on video mode Explains how to send images to a computer for organizing, editing, and sharing Nikon D7100 For Dummies helps you get a grasp on your camera's controls so you can start taking memorable photos today!

#### Macro Photography Amherst Media

If you're a beginner photographer, this book can save you hundreds of dollars. If you're a seasoned pro, it can save you thousands. With access to over 16 HOURS of online video, this book helps you choose the best equipment for your budget and style of photography. In this book, award-winning author and photographer Tony Northrup explains what all your camera, flash, lens, and tripod features do, as well as which are worth paying for and which you can simply skip. Tony provides information specific to your style of photography, whether you're a casual photographer or you're serious about portraits, landscapes, sports, wildlife, weddings, or even macro. For the casual reader, Tony provides quick recommendations to allow you to get the best gear for your budget, without spending days researching. If you love camera gear, you'll be able to dive into 200 pages of detailed information covering Nikon, Canon, Sony, Micro Four-Thirds, Olympus, Samsung, Leica, Mamiya, Hasselblad, Fuji, Pentax, Tamron, Sigma, Yongnuo, PocketWizard, Phottix, Pixel King, and many other manufacturers. Camera technology changes fast, and this book keeps up. Tony updates this book several times per year, and buying the book gives you a lifetime subscription to the updated content. You'll always have an up-to-date reference on camera gear right at your fingertips. Here are just some of the topics covered in the book: What should my first camera be? Which lens should I buy? Should I buy Canon, Nikon, or

Sony? Is a mirrorless camera or a DSLR better for me? Do I need a full frame camera? Is it safe to buy generic lenses and flashes? What's the best landscape photography gear? Which portrait lens and flash should I buy? What gear do I need to photograph a wedding? How can I get great wildlife shots on a budget? Which sports photography equipment should I purchase? Should I buy zooms or primes? Is image stabilization worth the extra cost? Which type of tripod should I buy? Which wireless flash system is the best for my budget? How can I save money by buying used? What kind of computer should I get for photo editing? What studio lighting equipment should I buy? When you buy this book, you'll be able to immediately read the book online. You'll also be able to download it in PDF, .mobi, and .epub formats--every popular format for your computer, tablet, smartphone, or eReader!

#### Langford's Basic Photography Charles C Thomas Publisher

Your plain-English, full-color guide to the Nikon D7200 Your Nikon D7200 comes packed with enough power to satisfy even seasoned photographers. Unfortunately, it doesn't come with an easy guide on how to adjust the camera's settings to get the photos you want. That's where Nikon D7200 For Dummies comes in! Brimming with the tips, tricks, and friendly instruction you'd gain in a basic photography course, it shows you how to get the very most out of your new Nikon D7200—without losing your cool. Written by an experienced photographer and photography

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teacher, this fun, no-nonsense guide quickly gets you up and running on taking your first photos in automatic mode, then moves on to help you grasp more advanced features, like controlling exposure, adjusting color and focus for better results, using scene modes and priority modes, shooting portraits, action shots, outdoor shots, and night images—and so much more. Navigate your camera's buttons, dials, and settings Apply pro tricks to get better color, focus, and sharpness from your images Control exposure settings and jump from auto mode to manual Make sense of tricky material through full-color explanations of core photography concepts If you're the proud new owner of a Nikon D7200, but don't have a ton—or any—experience with cameras, this hands-on guide will have you taking photos like a pro in no time!

Tony Northrup's *DSLR Book: How to Create Stunning Digital Photography* CRC Press

Autofocus changed the way photos are taken, making it easier to capture and keep the subject in sharp focus. Since autofocus was first introduced, it has become much more complicated, offering different focus modes, focus types, and focus points. What started out as a way to simplify the photo-making process has turned into a complicated endeavor with numerous choices and settings. A Photographer's Guide to Focus and Autofocus: From Snapshots to Great Shots is here to answer all your questions about the

focusing system in today's cameras and their various autofocus modes. Photographer Alan Hess covers the simple basics of focus: manual focus versus autofocus, the best focus modes to use, and how focus works in both DSLRs and mirrorless cameras. Then he discusses more advanced topics, including autofocus sensor types, back-button autofocus, and focus for DSLR video. There is much more to autofocus, and focus in general, than just pushing the shutter release button and hoping the image is sharp and in focus. With this book, you'll learn how to get the right focus in your images, no matter what the occasion. Follow along with your friendly and knowledgeable guide, and you will: Learn the top ten things to know about focus, including how to use the focus controls on the camera, how to pick the autofocus point, and when to use pre-focus in your images Address common autofocus issues such as dealing with low contrast or low light, or shooting through obstacles like glass or a fence Develop troubleshooting techniques for what to do when the autofocus doesn't work properly Work with both manual focus and autofocus and learn tricks to achieve better focus in video And once you've got the shot, show it off! Join the book's Flickr group to share your photos and tips at [flickr.com/groups/focusandautofocusfromsnapshotstogreatshots/](https://www.flickr.com/groups/focusandautofocusfromsnapshotstogreatshots/)

Revelation Unveiled John Wiley & Sons

Step into a world of photography that most artists consider magical. The closer you get to things, the more fascinating they become. Unimaginable details can be captured with the aid of special photography techniques and equipment, detailed at length within these pages. Macro photographers play by a different rulebook. The challenges faced from the subject matter, the equipment and even the laws of physics make this an ambitious genre of photography. It can be abstract, it can tell stories, and it can spark your imagination. Author and "Mad Scientist" photographer Don Komarechka covers every area of macro photography, from simple beginnings and tips to help you get the most out of your first macro lens, all the way through a masterclass in the obscure. Topics include: - Redefining the rules of composition - Finding and exploring narratives we ignore - The challenges of magnification - Camera equipment choices and recommendations - Inexpensive ways to get "closer" - Controlling and sculpting light - Overcoming shallow focus - Using water droplets as lenses for enchanted refractions - The art of photographic discovery: "what if?" - Winter macro: snowflakes and freezing soap bubbles - Ultraviolet fluorescence macro - Stereoscopic 3D macro photography - MANY



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more topics down the rabbit hole

Macro Photography Yosemite Conservancy

This delightful little book provides the ideal pause for contemplating the special qualities and values of Yosemite National

Park, as well as other parks and wilderness. Each dazzling full-color photograph, many

of them new for this tenth anniversary edition, is paired with an original quote or

newly selected classic quote about nature, the environment, or America's national

parks. Includes a new foreword by former Yosemite National Park superintendent

Mike Tollefson and the insights of writers, scientists, poets, and leaders such as: David

Brower Gary Snyder Rachel Carson Bernard Devoto John Muir Albert Einstein

Diane Ackerman Terry Tempest Williams Edward Abbey Franklin D. Roosevelt

Fyodor Dostoevsky Cedric Wright Marcel Proust Shelton Johnson Julia Parker Pete

Hamill Sir John Lubbock Dayton Duncan Robinson Jeffers Margaret Eissler Wallace

Stegner Ralph Waldo Emerson Henry David Thoreau Baba Dioum Margaret

Murie Rainer Maria Rilke