

Android Smartphone Photography



Get smarter with your photography skills

Evaluate your camera and choose the best settings

Apply the same tricks pro photographers use



Pro photographer who's conducted 61 international photo shoots



Android Smartphone Photography





Android Smartphone Photography

by Mark Hemmings



Android® Smartphone Photography For Dummies®

Published by: John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030-5774, www.wiley.com

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Published simultaneously in Canada

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Library of Congress Control Number: 2021947170

ISBN: 978-1-119-82490-9 (pbk); ISBN: 978-1-119-82491-6 (ePDF); ISBN: 978-1-119-82492-3 (ePub)

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Introduction

ndroid smartphone photography continues to amaze me. Last night as I was looking up at the brilliant night sky, I was able to photograph the full moon with such magnification that I could see details in the moon's impact craters! Of course the ability to photograph the moon close up is easily done with a larger DSLR or mirrorless camera, but for a smartphone to have advanced to such an extent that you can create decent astro-photographs is amazing.

The good news is that not only are the physical cameras on Android devices getting better each year, but the software that processes your photos within your smartphone also gets better with each software update. I encourage everyone to update their Android smartphones to take advantage of a better photography experience. No matter what kind of Android phone you have, you can create amazing images that you will be very proud of.

Maybe you're someone who has always found the technical side of things easy, but you struggle with capturing emotion, mood, metaphors, and heart in your photographs. Or maybe you're the opposite, where you feel and understand the soul of a particular place, but have a challenging time with the technical side of photography. Regardless of what your challenge is, this book is well-suited to help you both master the artistic and the technical side of Android smartphone photography.

About This Book

Android Smartphone Photography For Dummies is a book written to help you navigate your phone's incredible camera system and discover the heart and soul of smartphone photography. No matter what level of photography experience you have, the goal of this book is to get you excited about the possibility of seeing photo opportunities each day. As your Android smartphone is almost always with you, either in your backpack, purse, schoolbag, or back pocket, you almost always have access to a surprisingly good quality camera. This book offers you the creative and technical tools that will fuel your desire to photograph pretty much daily.

In this book, I show you how to

- >> Control light in its many forms to create the best-looking photos.
- Accentuate your images by applying the Rule of Thirds and other compositional tools.
- >> Initiate Burst mode for sports and street photography to ensure that you get the shot.
- >> Access and use the extra camera features, such as panoramas and selfies.
- >> Navigate your way around all of the Google Photos app settings and options.
- >> Take and edit your photos in the quickest and most accurate way possible.
- Create the best landscape, sports, family, travel, products, and street photographs.
- >> Edit, organize, and share your photos.
- >> Create smooth-looking videos.

I wanted this book to work perfectly for users of all Android makes and models. As of this writing, there are 1,300 brands that produce over 24,000 distinct Android devices. And each brand is able to custom design the look and feel of their Camera app and settings. As it's impossible to create a book that addresses the exact options of all 24,000 Android devices, I've been able to craft this book using the universal Google Photos app. The look of the Google Photos app is mostly consistent throughout all 1,300 Android brands. When the look of the Camera app differs slightly from manufacturer to manufacturer I make sure to explain that your own device may differ slightly in appearance to my examples. But not to worry! The differences are often as minor as the shape or color of an icon, and no more.

To reach the highest number of Android users possible, I created this book using three Android smartphones and both Android 10 and 11 operating systems. These three devices span three segments of the market:

- The single lens Motorola Moto G7 Play using the Android 10 operating system. This budget phone won't be upgraded to Android 11.
- The single lens Google Pixel 4a using the Android 11 operating system. This mid-range phone will eventually be upgraded to Android 12 when the new operating system is released.
- >> The Samsung Galaxy S21 Ultra 5G using the Android 11 operating system. This professional-level smartphone features a very high quality multi-lens camera system.

It's possible that you have a phone from a different manufacturer, such as HTC, Xiaomi, or Sony. As the pre-loaded Google Photos app is universal in its appearance and functionality, you will be more than fine following along with each tip and technique.

It's also important to mention that I took all the photography examples in this book with my previously mentioned three Android smartphone models.

Foolish Assumptions

This book assumes that you may know nothing about smartphone photography, yet is also highly accessible and valuable to those who may consider themselves as advanced amateurs. *Android Smartphone Photography For Dummies* guides you through the best practices of mobile photography, helping you gain a new creative outlet to express yourself!

So to start you out on a path to photographic success, I assume that you

- >> Have an Android smartphone and its operating system is up to date.
- >> You have access to Wi-Fi or use a data plan with your mobile phone provider.

Other than these two presumptions, I explain everything else in the book in great detail so that you never feel overwhelmed or bogged down.

Icons Used in This Book

This book, like all *For Dummies* books, uses icons to highlight certain paragraphs and to alert you to particularly useful information. Here's a rundown of what those icons mean:



A Tip icon means I'm giving you an extra snippet of information that may help you on your way or provide some additional insight into the concepts being discussed.

TIP



The Remember icon points out information that is worth committing to memory.



The Technical Stuff icon indicates geeky stuff that you can skip if you really want to, although you may want to read it if you're the kind of person who likes to have the background info.



The Warning icon helps you stay out of trouble. It's intended to grab your attention to help you avoid a pitfall that may harm your smartphone or photos.

Beyond the Book

In addition to what you're reading right now, this product also comes with a free access—anywhere Cheat Sheet. To get this Cheat Sheet, simply go to www.dummies.com and search for "Android Smartphone Photography For Dummies Cheat Sheet" in the Search box.

Where to Go from Here

Throughout this process of discovering the ins and outs of Android smartphone photography, take inspiration from other photographers who have mastered their preferred photographic genre. Instagram is a good resource for this. However, it's critical that you don't allow yourself to feel bad if your photos are not up to that level. Practice creating photographs every day, if possible, and you will most certainly see your abilities improve radically over a short period of time.

Creativity is in everyone to some degree, and it's often the case that we simply need a guide to kick-start that engine. It's my hope that this book will serve that function and help you to master the technical parts, which will free you to absorb the artistic aspects of smartphone photography. I know that you can do it!

Using Your Camera Straight out of the Box

IN THIS PART . . .

Get an introduction to Android smartphone photography.

Take an Android camera tour.

Set up your Android camera for best results.

Take a deep dive into the Camera app.

- » Discovering the differences between single and multi-lens Android cameras
- » Understanding the differences between the many Android OS manufacturers
- » Taking photos using your phone's built-in camera
- » Viewing, editing, and sharing your photos

Chapter **1**

Introducing Android Smartphone Photography

hether you're brand new to photography using a smartphone, or new to the Android operating system, the aim of this chapter is to familiarize you with the basics so you can get out and start photographing as soon as possible. It's such an incredible feeling to have a powerful camera always with you, in your pocket, bag, or purse. After reading through this introduction to Android cameras, you should feel confident creating images with a smartphone. The photo opportunities await, so get excited about your Android smartphone and its surprisingly high-quality cameras!

Becoming Familiar with Your Android Camera

In the fantastic world of Android-powered mobile devices, you find a wide assortment of lens combinations. Each manufacturer of Android-based smartphones offer a single camera (often with a slightly wide-angle view), and the majority offer what is called a multi-lens combo. It's common these days to see Android smartphones with three cameras plus a front-facing selfie camera.



If you own a single lens Android smartphone, don't feel that you're stuck with creating mediocre photos. The Google Pixel 4a, for example, only has one front-facing camera lens but it beats many of its competitors that have multiple lenses! What is more important than how many lenses your smartphone has is your ability to craft an image. What this means is how you compose your photo, how you use light to your advantage, and the emotion or narrative that you add to your images are skills that usually have more weight than just pure technical knowledge. This book helps you develop those skills, regardless of how many lenses your smartphone has.

The following list explains a rough description of the most common Android smartphone lens combinations. Some smartphones have one lens, some two, some three, and a few have four or more lenses. Multi-lens smartphone camera lenses are usually described as

- >> Ultra-wide: Made for sweeping landscapes or interior architecture.
- >> Wide-angle: This is usually the default general-use lens for all smartphones.
- >> Telephoto: More of a zoomed-in look, great for portraits and nature.
- >> Super-telephoto: Very zoomed-in look, perfect for distant wildlife and even for capturing a full moon!

Single-lens models

When someone mentions that their smartphone has a single lens, they're usually referring to what's called the rear, or back-facing lens, not the *selfie* lens that faces you and allows you to take a photo of yourself (more on selfies in Chapter 2). If your smartphone only has one lens, which is usually called a wide-angle lens, don't feel left out! Most of the great documentary, photojournalism, and street photographers of the past and present have created their best work with a single wide-angle lens. You can do the same.

Figure 1-1 shows off the small but powerful single wide-angle lens on the Google Pixel 4a. Keep in mind that the lens is the darker circle, and the white circle is the flash.



FIGURE 1-1: The singlelens Google Pixel 4a.

Dual-lens models

Dual-lens Android devices are getting harder to find these days. The most popular options are single-lens and triple-lens combinations. Figure 1-2 shows an example of the Xiaomi Mi Mix 2S with its two lenses. This device, plus many other dual-lens devices have a wide-angle view from one lens, and what is often called by the manufacturers a *telephoto* view from the second lens. *Telephoto* usually refers to a view that appears more zoomed-in than what the human eye sees.



If you have a DSLR camera or are familiar with traditional film photography, the use of the word *telephoto* by the manufacturers of dual-lens smartphones is sometimes a bit of a stretch. Often what they call the telephoto lens is actually what photographers call a *normal field of view*, which would be similar to a 50mm prime (non-zooming) lens in traditional photography terms. If you don't know what any of that means, no problem! All you need to know is that the wide-angle lens is great for architecture and landscape photography, and the second telephoto lens is better for portraits and general smartphone photography.

Triple-lens models

While not always the case, a triple-lens Android smartphone usually has an ultrawide, wide, and telephoto lens combination. An ultra-wide lens fits in a lot of the scene in front of you, such as whatever is in front of your feet, the landscape, and a lot of the sky. This camera type is great for vast, expansive landscape photos. The normal wide-angle lens is great for traditional street photography, photojournalism, and documentary work. The telephoto lens view is perfect for portraits and to a certain extent, wildlife.



FIGURE 1-2: The duallens Xiaomi wide-angle and telephoto lenses.

© Xiami Corporation

Figure 1-3 shows the triple-lens design of the Sony Experia 5 II. If you're familiar with full-frame DSLR or SLR cameras, the Experia's three lenses have focal lengths of 16mm, 24mm, and 70mm.



FIGURE 1-3: The Sony Experia 5 II with its triplelens camera combination.

© Sony Corp

Models with more than three lenses

Four lens Android smartphones are very popular, and there are so many great options to choose from. As of the writing of this book, the Samsung S21 Ultra 5G is probably the most highly regarded Android device for photographers, but of course that will change as new devices come on the market. Figure 1-4 shows the S21 Ultra's four lenses, which range from ultra-wide, wide, telephoto, and super telephoto views. Don't be fooled by what appears to be a fifth lens on this Samsung, which is actually a laser autofocus sensor. Many of Samsung's competitors have similar lens combinations and focal lengths. There are also five lens Android smartphones



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FIGURE 1-4: The impressive quad-lens Samsung S21 Ultra 5G.

available, such as the Nokia 9 PureView and no doubt many more in the future.

It may be a bit hard to visualize what all the lens descriptions really mean without a visual example. Figure 1-5 shows the view from each of the Samsung S21 Ultra 5G's four lenses.

ultra-wide-angle 13mm



telephoto 70mm



wide-angle 26mm



super-telephoto 240mm



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FIGURE 1-5: The view from the four types of lenses on the Samsung S21 Ultra 5G.

Taking a Look Around the Camera App

As the author of this book, I've been confronted almost daily with the struggle that each manufacturer has their own *take* on the Android operating system. That means that the appearance of your own Camera app may look slightly different than the three examples that I show you in this section. However, while the shapes and appearances of the icons look different between the manufacturers, the meaning of the icons are usually universal and easy to understand. For example, Figure 1–6 shows the typical view of a budget–friendly Motorola Camera app.



Figure 1-7 shows the appearance of the Google Pixel 4a Camera app. The icons look different than the previously mentioned Motorola Camera app of Figure 1-6. Take a look at both figures and you see that extra camera options are visible at the top of the Motorola screen, but are hidden behind a downward-pointing arrow at the top of the screen on the Google Pixel 4a.



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FIGURE 1-6: The Motorola Moto G7 Play smartphone Camera app appearance.



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FIGURE 1-7: The Google Pixel 4a smartphone camera app appearance.

MORE

Figure 1-8 shows the appearance of the Samsung S21 Ultra 5G Camera app. Again, the icons look different than the two previously mentioned Android smartphones. This Samsung smartphone is considered a *flagship* model, which means that it's geared toward power-users and professionals. Even more camera option icons are visible, and many more are accessible at the bottom of the photo preview by tapping the More icon. Flagship models from any manufacturer have a lot of camera options to give the photographer as much manual control as possible.

To close the Camera app, Android manufacturers have different ways to go about it. For example, if you have a Google Pixel, place your finger or thumb at the bottom of your smartphone screen and swipe in an upward motion. Other smartphones have three icons at the bottom of your screen that perform functions such as opening your previous app and accessing all your apps.



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Taking a Picture

FIGURE 1-8: The Samsung S21 Ultra 5G smartphone Camera app appearance.

Regardless of what Android smartphone you own, the Camera app is always recognizable as an icon in the shape of a traditional camera. The Camera icon is most often visible on your home screen. Some Android smartphone manufacturers require you to long-press the Camera icon for about one second, others allow for a quick tap of the Camera icon, and still others require that you hold the Camera icon and then slide your finger in a slight upward motion. Figure 1-9 shows a typical home screen of a Google Pixel smartphone, with the Camera app at the bottom right.

Alternatively, if you're already within your Android device and you can see all your apps, simply tap the camera icon. Figure 1-10 shows an example of the Camera app icon within the app page.

With your Camera app open, find a good scene that you want to photograph and tap the large white shutter button circle, as shown in Figure 1-11. The term shutter button is a hold-over from traditional SLR and DSLR cameras, where the camera's shutter would physically open and close when the button was pressed. Smartphones don't have physical shutters like bigger cameras; however, the shutter button name has been adopted for smartphones.



FIGURE 1-9: A typical Google Pixel home screen with the Camera app icon.

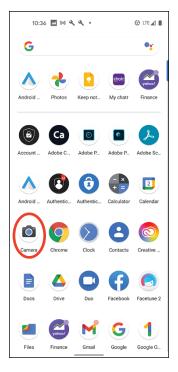


FIGURE 1-10: The Camera app icon within the apps page.



FIGURE 1-11: Tap the shutter button to take a photo.