

JAMES NINO

IPHONE 14 PRO MAX CAMERA MASTERING

SMART PHONE PHOTOGRAPHY TAKING PICTURES LIKE A
PRO EVEN AS A BEGINNER



The Best Alternative iPhone 14 Camera Manual



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Chapter 1

Introducing the iPhone 14 Pro Max

Do you find that you have a hard time taking decent photos using the camera on your iPhone? It's not as difficult as you may imagine. You only need to be familiar with how to adjust the settings on the iPhone camera to be able to also take stunning pictures as many of those who have read this book are now able to do.

You will learn how to capture stunning photographs with your iPhone 14 Pro Max by using the Camera software that comes preinstalled on the device. In addition to this, you will learn about several aspects of the iPhone camera that you were not previously aware existed.

The iPhone 14 Pro Max is not just the most powerful mobile device currently available, it's a lot more. It has tons of new features and updates, some of which everyone was waiting for, and some of which we never knew we needed. Apple's biggest Pro model has amazing cameras, including a new primary sharpshooter with a resolution of 48 megapixels, an always-on display, a compelling Action mode for videos, and exceptional battery life. It's not cheap, but it's the greatest phone that money can buy right now.

The iPhone 14 Pro Max includes the updates that people have been waiting for. The always-on display has been long overdue for an update, but the most significant improvement is really Dynamic Island, which notifies you of incoming notifications and live activities such as your music, timers, turn-by-turn instructions, and animated Face ID prompts.

It is smart, and everyone confesses that it is an enjoyable phone to use. Making use of the new Action mode on the camera to record videos is another enjoyable experience for many users. While other rival smartphones may offer a function like this, the combination of the high video quality and the very stable footage that the iPhone 14 Pro Max provides seems almost magical.

The simplicity with which you are able to swap between numerous phone numbers by utilizing this flagship's eSIM feature is also remarkable. However, some people may be disappointed by the complete absence of a physical SIM card tray in the device.

Considering the astonishing number of new features and upgrades, it will be to your advantage to learn how to use the iPhone 14 Pro Max to its fullest!

The iPhone 14 Pro's Technical Specs

Build

- Colors: Space Black, Silver, Gold, Deep Purple
- SIM: Dual Sim, Dual Standby (Nano-SIM)
- OS: IOS 16
- Weight: 240 g
- Dimensions: 160.7 x 77.6 x 7.9 mm

Processor

- Chipset: Apple A16 Bionic (4 nm)
- GPU: Apple GPU (5-core graphics)
- CPU: Hexa-core (2 x 3.46 GHz Avalanche + 4 x Blizzard)

Display

- Extra Features: Always-On display, 120Hz, HDR10, Dolby Vision, 1000 nits (typ), 2000 nits (HBM)
- Protection: Scratch-resistant glass, oleophobic coating
- Size: 6.7 Inches
- Resolution: 1290 x 2796 Pixels (~460 PPI)
- Technology: LTPO Super Retina XDR OLED Capacitive Touchscreen, Multitouch

Memory

- Card: No
- Built-in: 128/256/512GB 1TB, Built-in, 6GB RAM, NVMe

Camera

- Features: HDR (photo/panorama), Video (4K@24/25/30/60fps, 1080p@25/30/60/120/240fps, 10-bit HDR, Dolby Vision HDR (up to 60fps), ProRes, Cinematic mode (4K@30fps), stereo sound rec.)

- Main: Quad Camera: 48 MP, f/1.8, 24mm (wide), 1/1.28", 1.22 μm, dual pixel PDAF, sensor-shift OIS + 12 MP, f/2.8, 77mm (telephoto), 1/3.5", PDAF, OIS, 3x optical zoom + 12 MP, f/2.2, 13mm, 120° (ultra-wide), 1/2.55", dual pixel PDAF + TOF 3D LiDAR scanner (depth) 48 MP, dual-LED dual-tone flash
- Front: Dual 12 MP, f/1.9, 23mm (wide), 1/3.6", PDAF + SL 3D, (depth/biometrics sensor), HDR, Cinematic mode (4K@30fps), Video (4K@24/25/30/60fps, 1080p@25/30/60/120fps, gyro-EIS)

Connectivity

- Bluetooth: v5.3 with A2DP, LE
- WLAN: Wi-Fi 802.11 a/b/g/n/ac/6, dual-band, hotspot
- GPS: Yes + dual-band A-GPS with GLONASS, BDS, GALILEO, QZSS
- NFC: Yes
- Data: GPRS, Edge, 3G (HSPA 42.2/5.76 Mbps), 4G LTE-A, 5G capable, EV-DO Rev.A 3.1 Mbps
- USB: Lightning, USB 2.0

Features

- Extra: Emergency SOS via satellite (SMS sending/receiving), Ultra-Wideband (UWB) support, Glass back + Gorilla Glass), Glass front + Gorilla Glass), stainless steel frame, Apple Pay (Visa, MasterCard, AMEX certified), IP68 dust/water resistant (up to 6m for 30 mins), Ultra-Wideband (UWB) support
- Messaging: iMessage, SMS (threaded view), MMS, Email, Push Email
- Torch: Yes
- Sensors: Accelerometer, Barometer, Ultra-Wideband (UWB) support, Compass, Face ID, Gyro, Proximity
- Browser: HTML5 (Safari)
- Audio: Lightning to 3.5 mm headphone jack adapter, MP3/WAV/AAX+/AIFF/Apple Lossless player, MP4/H.264 player, Speaker Phone

Battery

- - Fast charging, 50% in 30 min (advertised), USB Power Delivery 2.0, MagSafe wireless charging 15W, Qi magnetic fast wireless charging 7.5W
- Capacity: (Li-ion Non removable), 4323 mAh, (16.68 Wh)

Comparing the iPhone 13 & 14 Pro Max

It is possible to confuse the iPhone 14 Pro Max with the iPhone 13 Pro Max just by looking at them side by side. The magnificent new Deep Purple finish is the only distinguishing feature. That's how identical it is. Nevertheless, certain nuances set them apart.

The iPhone 14 Pro Max has dimensions of 160.7 by 77.6 by 7.85 millimeters, making it a hair thicker, a hair shorter, and somewhat thinner than the previous phones. There is no indication of any of this when you look at or touch the phone; possibly this is because the weight, which is 240 grams, is the same as it was on the iPhone 13 Pro Max.

You receive the quality material experience that Apple offers with the iPhone 14 Pro Max, which consists of a polished stainless-steel frame and frosted glass on the back and front of the device.

From drop tests performed, it was able to demonstrate that the front of the phone is better able to resist drops, whereas the rear glass is less so. The front display is guarded by Apple's transparent Ceramic Shield, which should help protect it from harm.

Throughout the testing, the iPhone 14 Pro Max was inadvertently dropped, but it was able to resist the impact of the fall. Nonetheless, protecting your device with a high-quality case designed for the iPhone 14 Pro Max is definitely a smart idea.

The positioning of buttons for power, sleep, and Siri, as well as the controls for volume and the switch for silent mode, are all the same as they are on the iPhone 13 Pro Max. The most obvious difference is that this test gadget

does not come equipped with a SIM card slot (like all those sold in the US). It results in an appearance that is cleaner and more aesthetically pleasing.

Even though the architecture of the camera array is comparable to that of the iPhone 13, each lens has been made somewhat bigger (maybe by one or two millimeters), which results in the array seeming to be even more massive than it already is. When you compare it with an iPhone XS Max, which has only two cameras arranged in the form of a lozenge, the difference in size becomes more pronounced.

On the bottom of the phone is where you'll find the strong stereo speakers (in the testing, they went to 85db with the second speaker, which is based on the display), as well as the mic grilles and the Lightning port, which somehow survived the redesign. It is difficult to conceive that Apple will be able to circumvent the forthcoming port regulations of the European Union for much longer. As a result, we may see an iPhone with a USB-C port in the coming years.

In addition to all its other features, it is also impervious to dirt and water, it is able to withstand underwater conditions.

With the release of the iPhone 14 Pro Max, Apple keeps improving its product line, according to the DXOMARK Display test suite, the iPhone 14 Pro Max has the world's best display. The performance of the latest handset is superior to that of the iPhone 13 Pro Max in almost every metric, including screen size, battery life, and camera quality.

The display of the latest model is the brightest of all devices that have been evaluated to this point, measuring over 2000 nits. This ensures that information can be seen well, even when viewed in direct sunlight, and the enhanced brightness also enhances the display's overall color reproduction.

Even though there isn't any substantial improvement in the way the new iPhone handles SDR video content, the latest iPhone exhibits progress in fine contrast rendering of HDR content with a much better playback capability than the 13 Pro Max. This is despite the fact that the brightness of SDR video content can still be too low at times.

Aliasing is still kept under much better control on the 14 Pro Max, just as it is on all Apple smartphones in general. However, users may discover that the new form of the notch is distracting and uncomfortable while they are engaged in activities like gaming or watching movies.

Even though the enhanced brightness is not accessible for all media, the Apple iPhone 14 Pro Max is the brightest smartphone that has been tested up to this point. Having said that, the new gadget has a distinct edge over existing smartphones in terms of how easily text can be seen outside. It is still not bright enough even in low-light areas when it's tuned to its default options, but it has excellent smoothness when responding to changing ambient lighting conditions and has improved overall uniformity compared to its immediate predecessor.

When compared to the iPhone 13 Pro Max, the color consistency of the iPhone 14 Pro Max is much improved. When there is not enough light, the material shown on the 14 Pro Max ends up taking on an orange hue. Nonetheless, the color cast of the new gadget is a little bit more neutral than the color cast of its forerunner. The rendering of the 14 Pro Max is superior to that of the 13 Pro Max, which produced yellow-green skin tones under identical lighting circumstances. This is similar to what you will find on the iPhone 14 Pro Max, even though you will notice that skin tones are a bit yellow when seen outside. However, when seen at an angle, the 14 Pro Max takes on a greenish tinge that has a negative influence on the way skin tones are rendered.

The increase in brightness of the iPhone 14 Pro Max enables it to display colors that are more vibrant while maintaining the appropriate levels of depth and shadow. This is in contrast to the iPhone 13 Pro Max, which seems rather washed out.

The control of frame drops on the iPhone 14 Pro Max is comparable to that of the iPhone 13 Pro Max; with both of these devices recording only a limited number of instances of dropped frames during testing. The new model offers improved video playback control compared to its direct

predecessor, and it has a better response when tracking backward or forward on the timeline.

The touch reaction time of the iPhone 14 Pro Max is comparable to that of the iPhone 13 Pro Max but somewhat slower. Additionally, the 14 Pro Max is not quite as smooth as the iPhone 13 Pro Max when it comes to gaming. The Apple iPhone 14 Pro Max has an increased screen-to-body ratio thanks to its new notch design. Nonetheless, the large notch may be distracting for some full-screen activities, such as viewing movies, and many gaming applications that have not yet updated their content to fit the new notch.

iPhone 14 Pro Max's Camera

Although the camera array on the iPhone 14 Pro Max (as well as the iPhone 14 Pro) may seem to be identical to the one on the iPhone 13 Pro Max, the lenses and sensors in each device are unique.

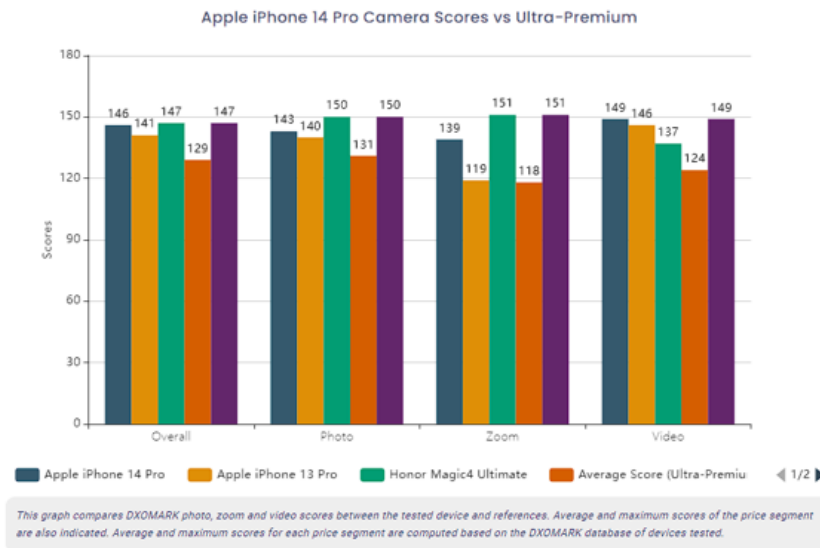
The primary camera, which has quad-pixel resolution and 48 megapixels, is the shining star of this trio. It took Apple several years to develop a sensor with such a high pixel count, and the company is indeed acting as if quad-pixel binning is a recently discovered technique.

It is not that the 108-megapixel primary sensor found in the Samsung Galaxy S22 Ultra uses binning of nine pixels. In both cases, the sensors collect the data from several pixels and combine it into one larger, more richly effective pixel. This results in an improvement in both the colors produced and the way the camera handles low light.

The majority of users will capture photos and videos at the 12MP setting on their iPhone 14 Pro Max. You'll need to dive into the settings to allow full-resolution raw format shooting on the camera. Once you do so, the 'raw' option will appear in the camera's user interface.

Trying to shoot in RAW (or ProRAW, which itself is Apple's intelligent computational fusion of RAW and processor smarts) does not seem to have a significant impact on the picture quality when observed on the iPhone's display. However, this is because shooting in RAW is often a reserved privilege for professional photographers who want to alter uncompressed

images in software like Photoshop or other iPhone apps which will be discussed later in this book.



On the iPhone, raw photos are saved in the form of substantial DNG files. When you open such photographs in the Camera Raw editor of Photoshop, you can make adjustments to the image in minute detail, producing some astonishing visual outcomes. You may also edit raw photographs using the camera software that comes preinstalled on your iPhone, or you can download Adobe Lightroom on your phone or any of the other apps discussed later in this book to give you even more editing flexibility while you're on the move. It's a feature that doesn't get enough attention, and you should definitely experiment with it.

- 48MP Main camera (24mm, f/1.78)
- 12MP Ultra-Wide (13mm, f/2.2)
- 12MP 3x Telephoto (77mm f/2.8)
- 12MP front-facing TrueDepth camera (f/1.9)

Another function is performed by the 48-megapixel sensor. The camera app on the iPhone now has a 2x optical zoom option for users to choose from.

This mode does not utilize the specialized 12MP 3x optical zoom lens; rather, it uses a center 12MP sub-section of the main 48MP sensor to generate what is, in essence, an extra 48mm, f/1.78 aperture lens. The main sensor has 48 million pixels in total.

Because of this, it is capable of providing full-resolution optical zoom without the use of an extra sensor devoted to a 2x magnification. When shooting in portrait mode, photographs created with this lens' larger aperture are superior to those created with the primary lens at its default setting.

Although there is nothing inherently wrong with Apple's 77mm f/2.8 lens with 3x optical zoom (it shoots great photographs), in comparison to the 10x optical zoom that is offered on Samsung's Galaxy S22 Ultra, it seems to be lacking in power. It will produce photographs with a greater degree of grain than just moving close to the primary sensor, and the distinction is pretty noticeable.

Apple just does not have a product that can compete with Samsung's 100x Space Zoom. When it comes to taking photos from a distance, the 15x digital zoom of the iPhone 14 Pro Max is not very useful. However, the company views moon photography more as a novelty than as a need for its product.

Apple has also improved the series' video capabilities, now supporting 4K video playback at 30 frames per second in cinema mode. The result is a film that looks fantastic. If you want to use the new Action mode, you should be aware that it stabilizes highly shaky video by deftly cutting in on material. This makes the mode a helpful tool overall. However, even if we don't know how often we'd use it, it's a nice thing to have.

It is interesting to note that Apple has decided not to implement 8K video recording, which was a feature that was supposed to be included in the lead-up to the debut of the phones. However, although some people would consider this to be a drawback, we consider it to be a blessing. Even the greatest iPhone storage capacity would be swiftly filled up with 8K films, which begs the question: why? How many of your homes are equipped with an 8K television?

A good number of pro customers may indeed benefit from having this function, but we don't believe it will be a need for at least another year, particularly because adding it will increase storage requirements.

In general, Apple's camera system and image-capture capabilities remain top-tier. This means that it maintains Apple's title as trying to offer one of the finest camera phones available, with stunning photos from the 48MP sensor and enhanced macro mode shots. Apple also retains its title as providing one of the best camera smartphones on the market.

The new Photonic Engine from Apple results in superior-looking photographs, this is why pictures taken in low light or using the night setting of a camera appear more appealing.

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