

Mastering the iPhone 12 Pro Max Camera

IPHONE PHOTOGRAPHY
GUIDE TAKING PICTURES
LIKE A PRO EVEN AS A
SMARTPHONE BEGINNER

A photograph of a person's hands holding a vintage-style camera with a lens attached. The person is wearing a white shirt. The background is blurred, suggesting an outdoor setting. The image is partially obscured by a teal banner.

A Complete User Guide for iPhone Photography Lovers



James Nino

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**Mastering The iPhone
12 Pro Max Camera**

«Tektime S.r.l.s.»

Nino J.

Mastering The iPhone 12 Pro Max Camera / J. Nino — «Tektime S.r.l.s.»,

Very often the manuals and user guide that accompany devices tend to provide only basic advice on how to navigate around the iPhone, which means you have to rely on external sources to get the best tricks and tips required to get the best from such devices which is why this book was written to help you get the most out of your iPhone 11 Pro Camera app. *****Mastering the iPhone 12 Pro Max Camera***** The iPhone camera comes with so many hidden features and tricks than what is obvious at first and only with a good book like this can you expose those hitherto hidden features. If you have an iPhone 12 Pro Max and want to join many others who are able to take stunning photos with it, then this book is for you. The triple-lens rear Cameras that protrude from the back of the iPhone 12 Pro Max are incredible but will require that you master the camera setting for you to be able to use it to capture great shots, which is why you should be ordering this book right away because it is going to tell you how to do just that. Very often the manuals and user guide that accompany devices tend to provide only basic advice on how to navigate around the iPhone, which means you have to rely on external sources to get the best tricks and tips required to get the best from such devices which is why this book was written to help you get the most out of your iPhone 11 Pro Camera app. In this book, you will learn; How to use the iPhone 12 Pro Max to take selfies Taking great slofies, QuickTake, Burst and how they improve your iPhone photography Why manual camera settings can improve your picture quality How to access some hidden camera functions that you probably did not expect a phone camera to have Have fun with Memojis and Animojis by creating fun personal replicas Why you should not use the digital zoom and use the optical zoom instead to get the best from your photos. How to use your iPhone with a drone and shoot a full wedding scene This book shows many more functions than you would expect to find on a phone and helps you better utilize your iPhone 12 Pro Max when next you go on a trip, or at the airport, go on vacation, capture important moments, and document the different stages of your child's life. Special Bonus That is not all, at the end of this book, we have a special gift for you,

something we believe you will love. Click the “Add to Cart” to purchase on your closeout or click the “Buy Now” to purchase at least one copy now.

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Introduction

Hey, congratulation on purchasing Mastering the iPhone 12 Pro Max Camera book. This book is a must-have book for anyone who wants to use his or her iPhone 12 Pro Max to start taking stunning photos.

This book will open your eyes to many of the basic functions that the iPhone 12 Pro Max camera can be used for as well as some advanced functions that may not be too obvious to users of the iPhone 12 Pro Max. For those who already have older versions of the iPhone and have difficulty locating some of their favorite icons, this book will show you where they have been moved to and the most effective ways of using them to take amazing pictures.

Quite often, the manuals shipped with our devices tend not to do enough justice to the subject of the device at other times, they can be overwhelming. Many other “Get Started Guides” are sometimes too thin and do not really solve any problem, which is why this book is a real gem.

This book will get you acquainted with the mobile phone you carry around you that you can also use as your photography device whenever you go on a trip, attend an event, visit a location, or casting a scene. Knowing how to get more from the digital camera in your pocket is what this book is about, after all, after spending so much to get your iPhone 12 Pro Max, you naturally would want to get more out of it.

This book will help you know how to use the camera on your iPhone 12 Pro Max better and help you optimize the camera features in a lot more ways than you have ever imagined.

As you open the pages of this book, you will be exposed to a wide range of fantastic photos and video tools that you had probably overlooked as ordinary symbols to a position where you now know how to use them. Not only that, you will be shown how to use the iPhone to video a full wedding ceremony. Lovers of drones will also find a chapter of this book where using the iPhone 12 Pro Max with drones is discussed. Overall, this book tries to cater for everyone including social media freaks.

For those who order this book while on vacation, this book can help you improve on your use of your iPhone camera, especially for those things you did not know it could do. You will find that this book is quite worth the time and money spent on it and highly recommended to anyone who uses their iPhone 12 Pro Max to take pictures.

You can start using your iPhone 12 Pro Max camera and start taking the kind of photos that nobody will even believe were shot by you with an iPhone. If you haven't got your copy and are still hesitating, you should be click the "Buy Now" button to get yours now.

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Chapter 1

Introducing the iPhone 12 Pro



Apple in October of 2020 announced its iPhone 12s' line up, ranging from iPhone 12, iPhone 12 Pro, and iPhone 12 Pro Max. All these smartphones are the best phones you are going to find in the market.

Apple is known for its quality products and they have not disappointed their fans this time too. Everything in the smartphone is at its best. Though Apple had to face critics for not giving a charging adapter along with the smartphones, Apple still managed to satisfy their fans with the awesome design and quality.

The build of the iPhone 12 series reminds us of the iPhone 5s. The sharp cut edges that seem to have been abandoned in subsequent releases after the iPhone 5s was reintroduced in this iPhone and has been the talking point of the phone since then and appreciated by millions of iPhone fans all over the world. It is hard to get your eyes off the attractive form of the phone and the camera set up that characterizes all three phones.

Apple announced everything regarding the cameras in the official event held in October. Guess what; this time, iPhone cameras have added more features than ever experienced in an iPhone.

The stunning features and quality capture have even impressed professional photographers. If you are already from an iPhone family, then you might be aware of the quality of pictures. This time in iPhone 12 series, the inclusion of telephoto lenses has made fans crazy for it.



Figure 1: iPhone 12 Pro Max Lenses

Even though the whole lineup of the iPhone 12 series has got the best of the cameras in their respective segments, however, the iPhone 12 Pro Max has got such remarkable features that serious lovers of photography admire. Being a photography enthusiast, I tend to prefer the iPhone 12 Pro Max camera among the three, mostly because of its size and shape.

The camera setup is incredibly better than previous iPhones and best suits the design of the smartphone body. Be it tapping the low light photos or zooming the street captures; everything is up to mark.

Who doesn't love night portraits? The iPhone 12 Pro Max camera is able to take some of the best night portraits ever taken by a phone camera with its portrait mode. The telephoto lens helps you capture scenes with very little detail. Apple is known for its quality products and they have continued their tradition of quality in this iPhone 12 Pro Max.

Well, you all might be thinking that why am I highlighting iPhone 12 Pro Max cameras again and again. Guys, the iPhone 12 Pro Max's camera have got exceptional features. You can record more spectacular videos using iPhone 12 Pro Max, as it comes equipped with a Dolby vision recording that has 60 times more colors. I would be telling you in detail everything that makes iPhone 12 Pro Max's camera the best in the market right now. If you want to make the best of your iPhone 12 Pro Max cameras, then stick with me to the end of this book.

Using the iPhone 12 Pro Max to take pictures is as easy as it's always been in previous versions of the iPhones only that now you can make it do more than those versions if you only knew how to find your way around the interface. Compared to what you may be used to in earlier versions of the iPhone, some controls and settings in the iPhone 12 Pro Max no longer exist while many others have been moved to new locations, including some changes in the layout of the phone's camera app. The camera app on the iPhone 12 Pro Max is at first glance similar to the old iPhone Camera app only that the new app has a great deal of depth, which makes it able to take crisp photos with minimal effort even when the lighting is limited.

Software and interface changes are not the only things that differentiate the iPhone 12 Pro Max from other iPhone versions. The cameras on the iPhone were already very good at taking great daytime pictures, but the new iPhone 12 Pro Max takes their photography to a whole new level. This is mostly because of the triple-lens setup at the back of the iPhone 12 Pro Max and the supersonic A14 Bionic that enables the phone to expand its capabilities.

To take advantage of these hardware features is an expanded new iOS 14 operating system that enables it to produce crystal clear pictures, among other new functions like the Night mode on all lenses and the Quick Take video. There is also a unique feature that allows users to zoom out on an image even though you had previously captured it with some parts that seem to be missing.

These hardware and software make the iPhone 12 Pro Max to be touted to be one of the best iPhones ever to be produced by Apple when you consider the ingenuity in combining technology with the phone's high-level photography. The majority of the iPhone's 12 Pro functions involve knowing what and how to tap, which is what helps to ensure that the photos shot with the iPhone 12 Pro Max even if taken by a novice come out crisp, amazing and sharp. This phone runs on iOS 14 with a high-level dual-sensor for the rear cameras and is also powered by Apple's new A14 Bionic chip.

The four available colors for the iPhone 12 Pro Max for buyers to choose from include pacific blue, gold, graphite, and silver.



Figure 2: Unboxing the iPhone 12 Pro Max

According to Apple, the iPhone 12 Pro Max is made from the toughest glass ever to grace the glass body of a smartphone and offers an amazing resistance to dust and water with its IP rating of IP68, which helps to improve its reliability and durability.

It's rated to be able to stay up to a depth of water of up to 2M or 6.5 feet for a period of up to 30 minutes. Although an IP68 rating can withstand immersion in water, it is advisable to limit the phone's exposure to water to just splashes, accidental exposure to liquid, and maybe rain.

For sounds, it equally supports Dolby Atmos and Spatial audio, which enables it to offer a truly impressive sound experience.

Design of the iPhone 12 Pro Max Camera

The iPhone 12 series is totally for photos and videos. The sharp design of the device and those three camera lenses along with the LIDAR sensor will surely win your heart. The camera lenses are installed on the top-left corner of the rear side as they were in iPhone 11 pro max.

iPhone 12 Pro Max Cameras

There are 3 cameras on the iPhone 12 Pro Max, including a flashlight and LIDAR Scanner. These cameras include an Ultra-wide camera, a telephoto camera, and a wide camera. These cameras have a 7x zoom and focus lens to make the shots better. Let us have a look at their features and their functions.

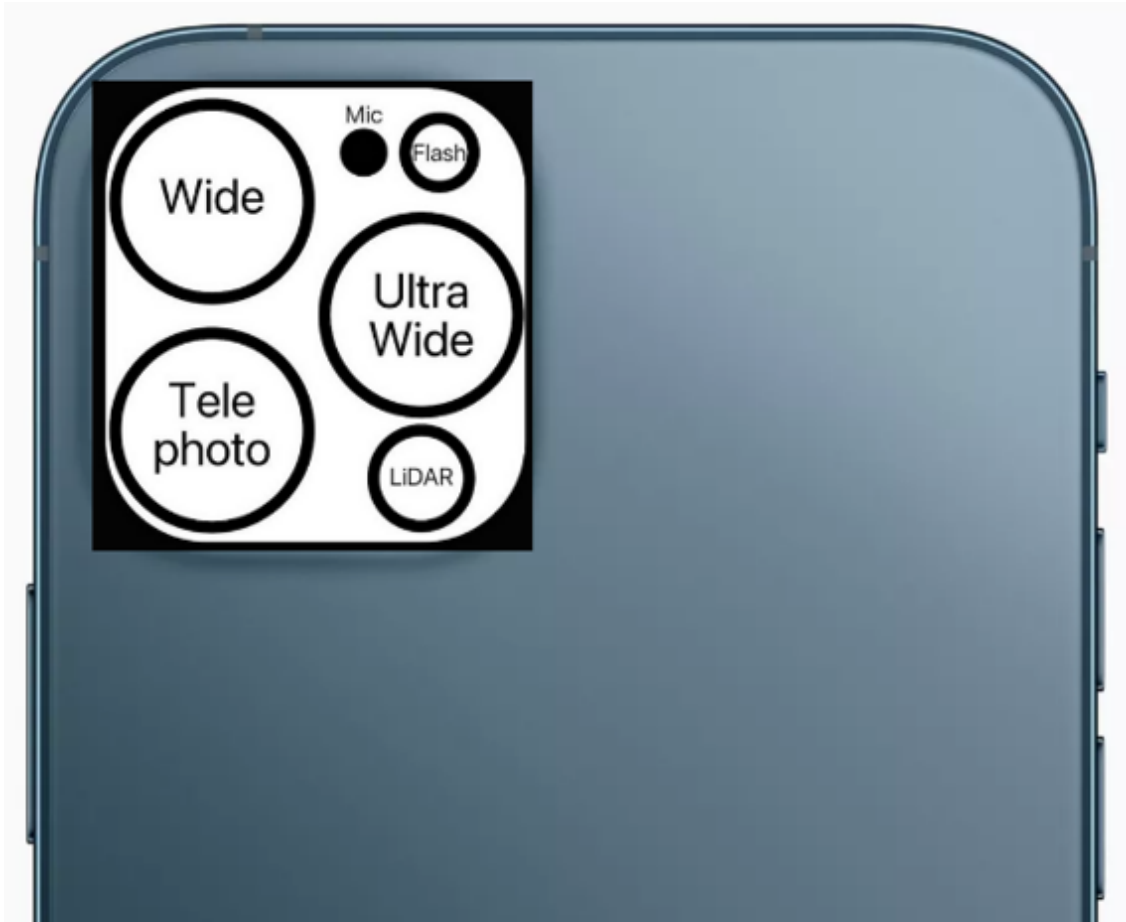


Figure 3: iPhone 12 Pro Max Layout

Ultra-Wide Camera

The ultra-wide camera has a 120-degree field of view that helps you in capturing extra-wide-angle shots.



Figure 4: Identifying the 12MP Ultra-wide Lens

Wide Camera

The wide camera has a 7-element lens with Sensor-shift optical image stabilization and 100 focus pixels.



Figure 5: Identifying the 12MP Wide Lens

Telephoto Camera

The telephoto camera is for taking stunning portraits and square pictures. It consists of a 6-element lens.



Figure 6: Identifying the 12MP Telephoto Lens

The neat and clean design of the iPhone 12 Pro Max makes it look elegant. The cameras are placed in the same position as the iPhone 11 Pro Max, but when compared with the iPhone 11 Pro Max; iPhone 12 Pro Max has a bigger image sensor, a faster main camera lens, and better image stabilization. Autofocus also has an improvement with the LIDAR sensor.

Versatility of the Camera System

The camera hardware is powered by the super A14 Bionic with a new image signal processor, which helps in improving image quality and other popular photography features that are not possible with general cameras. It also includes the Apple Pro Raw, which allows users to exercise better control over colors, details, and dynamic range on the iPhone or other photo editing apps.



Figure 7: iPhone 12 Rear Cameras

The iPhone 12 Pro Max also offers the best quality video shooting through its end-to-end HDR video with Dolby vision up to 60 FPS and comes with better stabilization. Well, more about this will be discussed when we dive more into the video capabilities of the iPhone in the videos section.

Augmented Reality (AR) for Innovative Camera Usage

The new LIDAR scanner measures light distance and makes use of pixel depth information of a view. This helps in faster and more realistic, as well as reliable AR experiences, and also improves autofocus by 7x in low lights for more accuracy and reducing the capture time of the photos. This amazing LIDAR scanner unlocks various night mode portraits, which help in rendering a low light Bokeh effect. This feature has also resulted in programmers creating various apps that take advantage of this innovative feature to create apps that can measure distances between two points.

iPhone 12 Pro Max Tech Specs

Apple has brought a lot of new exciting features and hardware changes in its most recent lineup. If you are someone who is switching from Android to iPhone 12 Pro Max or an existing iPhone user and finding it hard to get used to these newly introduced changes in tech specs and design of iPhone 12 Pro Max, let me walk you through all the new changes - technical aspects and specifications.

The iPhone 12 Pro Max's Technical Specs

The iPhone 12 Pro Max is the biggest, heaviest, and most expensive iPhone to be released by Apple so far. It comes with a 6.7-inch touchscreen shipped with the iOS 14 and powered by a hex-core Apple A14 Bionic CPU. As at the time of writing this book, this processor is acclaimed to be Apple's fastest chip in the market which allows it to give the iPhone 12 its superior performance and support for the graphical demands of the iPhone 12 Pro Max.

The iPhone 12 Pro Max features dual GSM SIMs for Nano-SIM and eSIM cards.

The iPhone 12 Pro Max is a pioneer in its supports for the 5G technology, which is the fastest technology compared to the iPhone 11 Pro's support for the 4G LTE network. This is one of the main features with which no other phone can be compared with the iPhone 12 series.

The Intel modem chip that comes with iPhone 12 Pro Max supports Gigabit-class LTE, 802.12 a/b/g/n/ac Wi-Fi 6 support, Band 40 support, Bluetooth 5.0, and UI ultra-wideband chip for better spatial awareness with better indoor tracking capabilities. It also has sensors that it uses for its gyroscope, ambient light sensor, accelerometer, compass/ magnetometer, barometer, and proximity sensor. Not to be left out is its support for face unlocks with 3D face recognition.

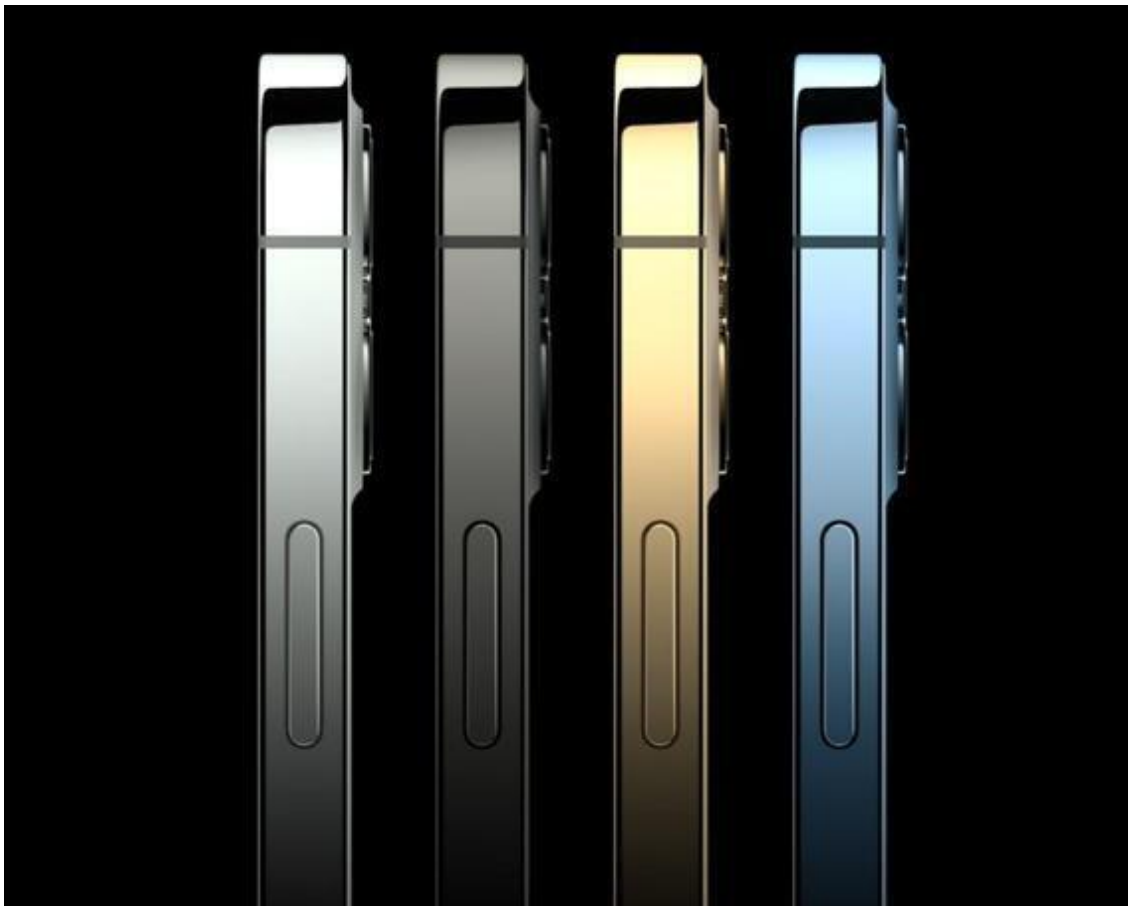


Figure 8: Various Colors for Shipping iPhone 12

The iPhone 12 Pro Max has support for Qi wireless charging, including proprietary MagSafe fast charging.

The battery life of the iPhone 12 Pro Max is terrific and is powered by a non-removable 2815mAh battery.

The iPhone 12's Pro Design and Display

The iPhone 12 Pro Max shares similar physical attributes as its predecessor iPhone 5s but has a noticeable camera bump on its back that houses the triple camera array, which is not present on the iPhone 5s but was introduced in the iPhone 11 series.



Figure 9: iPhone Screen Display with Resolution

Such camera bumps are not entirely new in the mobile phone industry, as a matter of fact, was introduced in the earlier version of iPhone 11 in response to the demands of many iPhone enthusiasts who wanted Apple to improve the quality of the iPhone's camera, especially when compared to other Android phones. However, unlike the camera bump of Samsung Galaxy S10, Huawei P30 Pro, and other Chinese manufacturing competitors, that of the iPhone 12 Pro Max is considerably chunkier.

The phone comes with a resolution of 2788 x 1284 pixels and a pixel density of 458 pixels per inch (PPI) with a contrast ratio of 2M:1 for its LCD. Similar to the iPhone 11 series, Apple continued the "Super Retina XDR" on its iPhone 12 Pro Max OLED Multi-Touch display. The display equally has support for Apple's newest advancement in technology that allows for tapping to wake up or activate the screen, Haptic Touch, swipe gesture in place of the Touch ID Home button, a wide color range that enables it to provide a realistic color and a True Tone, useful in matching the ambient light to the display's white balance.

iPhone 12 Pro Max Camera

If there is one feature that was consistently highlighted as a significant advantage over previous editions of the iPhone, it has to be the iPhone 12 Pro Max's camera or cameras. The iPhone 12 Pro Max comes with three rear cameras that include the standard wide-angle camera, an ultra-wide-angle camera with a 120-degree field of view, and a telephoto camera lens. Switching between these cameras is, however, remarkably easy and can be executed by flips of on-screen buttons.

The ultra-wide-angle camera can capture up to six times more scenes compared to what the standard wide-angle lens can capture from the same distance from the subject, which makes it a good way of capturing architecture images, landscape photos, tight shots, group pictures, and many other creative pictures.



Figure 10: Triple iPhone Camera Array

The iPhone 12 Pro Max's camera interface has also undergone some changes that allow users to have that great user experience when trying to capture scenes outside the frame through the use of the ultra-wide-angle camera. The iPhone 12 Pro Max has a 7x optical zoom in and zooms out the range, and its range of the digital zoom is about 12x. It also contains a LiDAR scanner to provide a better night mode experience.

The portrait mode helps you capture photos with a clear focus on the subject and blurred background with bokeh and depth-control.

The addition by Apple of a new Night Mode that takes advantage of the iPhone's high processing capabilities combined with the new wide camera sensor to create crisp, bright, clear photos even in conditions that have very low lighting.

The iPhone 12 Pro Max also comes with Smart HDR 3, which allows for better recognition of people by differentiating them from the rest of the shot. Even though this feature preserves the

background elements, it tends to ensure that faces retain their natural-looking skin tones, highlights, shadows, and gestures. The Smart HDR 3 uses machine learning in the capturing of natural-looking images that help improve the highlight and shadow detail.

iPhone 12 Pro Max HDR Feature

The iPhone 12 Pro Max was one of the most awaited smartphones of 2020, quite frankly, all variants of the iPhone are flagships when compared with their competitors. The iPhone 12 Pro Max comes with features and specifications that include, but not limited to; super retina XDR OLED, HDR10, 800 nits (typical), 1200 nits (peak) display, 6GB RAM, and the A14 Bionic chip. DxO mark rating for iPhone 12 Pro Max is 128, putting it in one of the top five phones featured till now.

(It has been tested in every condition possible, DXO mark ratings are reliable because of how much work they put into trying out the different features in a phone. They even take pictures at a different time of day to effectively test a phone.)

As already explained; HDR stands for "High dynamic range" and is a way of how an image is further processed.

While HDR is on, every photo you take on your iPhone will be optimized automatically and will be balanced with a better exposure setup. This iPhone 12 Pro Max can take advantage of Dolby Vision HDR recording.

Starting with Dolby's vision, it is the first mobile to feature Dolby HDR video recording. It can shoot and edit as well.

On iPhone 12 Pro Max, you can record Dolby Vision 4K at 60 fps, but iPhone 12 is limited to 30 fps. We talked a lot about HDR, So, what is HDR? The answer is as simple as it gets.

A common scenario would be if you want to take a photo of someone in front of a beautiful scene and when doing so may mean that they'll be exposed to overly bright backlighting. Rather than choosing between where to focus; the background or image, or vice-versa. HDR makes it possible so you can get both in one photoshoot.

Utilizing the HDR Mode On iPhone 12 Pro Max

HDR mode consecutively takes pictures at different exposures such as normal light that allows adjustment for the darkest and brightest details, then taking advantage of its A14 Bionic chip that is able to apply advanced computational mathematics to mix the different shots and produce a stunning photographic effect.

For a person who shoots outdoors, the iPhone 12 Pro Max provides a technology that is called “Smart HDR 3”. Older HDR software was dreadful, at least when compared with the Smart HDR3, which made images look manipulated.

Technically Defining HDR

HDR 3 uses machine learning (ML) technology of the real-world to train its neural engine, a component on its microprocessor A14 Bionic. When you use your iPhone to consistently take pictures of a particular type of scene, after a while it starts to recognize specific scenes and then automatically create the right exposure for each one. So, when you go on your travels, those of mountains, clouds, snow become recognized easily with the help of HDR3.

Putting it in another way, you can shoot something which you have shot before, and it will know by itself what exposure would be better without the need for toning.

There is something called 'Deep Fusion' also, which means instead of just combining images and providing final output. It selects the best pixels for the colors, sharpness, highlights, and shadows before telling the engine to combine those pixels into the final photograph.

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