Wil Calabio

Three Point Shooter

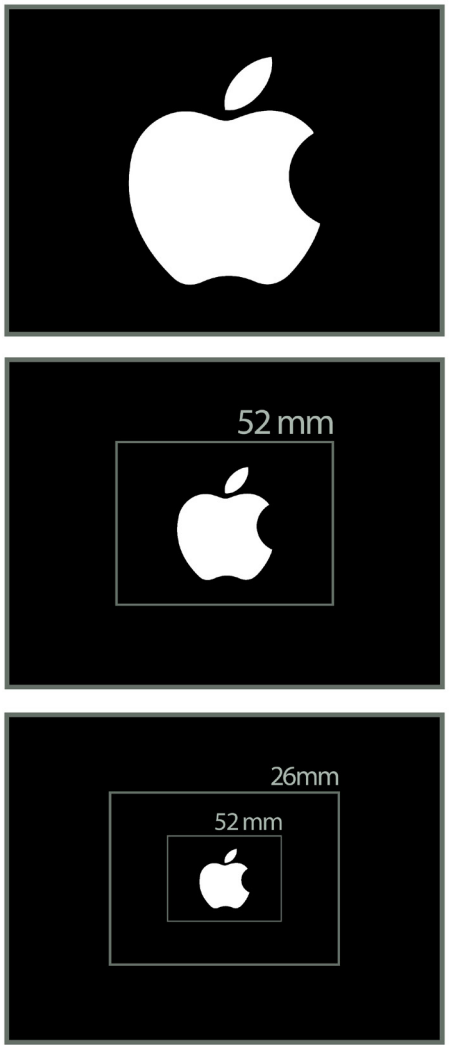
Will the iPhone’s newest camera system get you the shots you need?

Three Point Shooter

Wil Calabio

The **iPhone** was **Apple's** first fabrication of what a smartphone should be like. Steve Jobs revealed this groundbreaking phone back in June 29, 2007 to the public with not only it's iconic touchscreen but also it's camera ability at the time. Since then, Over 13 years the iPhone has progressed significantly to Apple's latest model, the **iPhone 11 Pro** where its camera capabilities have reached phenomenal heights from its predecessors.

But just how good is the latest camera that Apple has produced? Well, luckily we have all the information for you right here. The **iPhone 11 Pro** Is the first to have an astonishing **Triple camera system** by Apple all utilising a **12 megapixel sensor**. The main three are an **ultra-wide, wide, telephoto**, and then even a seperate 4th front-facing (wide) camera. Each lens described by its name has a different focal length and aperture; ultra-wide being **13mm** (2.4 aperture), wide being **26mm** (1.8 aperture), telephoto being **52mm** (2.0 aperture), and front facing camera being **23mm** (2.2 aperture). Each focal length has its own advantages as they open up



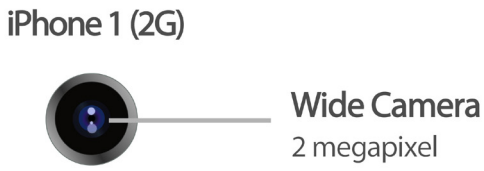
to different ranges of phones view when taking a photo. The impressive **low aperture capabilities** of each camera will benefit in low-light situations as the lower the aperture number-the more light the lens will allow to the sensor to capture. In addition to this, the iPhone 11 pro also has a new **Night Mode** feature where the cameras in the iPhone analyze the available amount of light to create a suitable image. The camera then may take a couple seconds to capture multiple frames and then process them live to produce a welll exposed image.

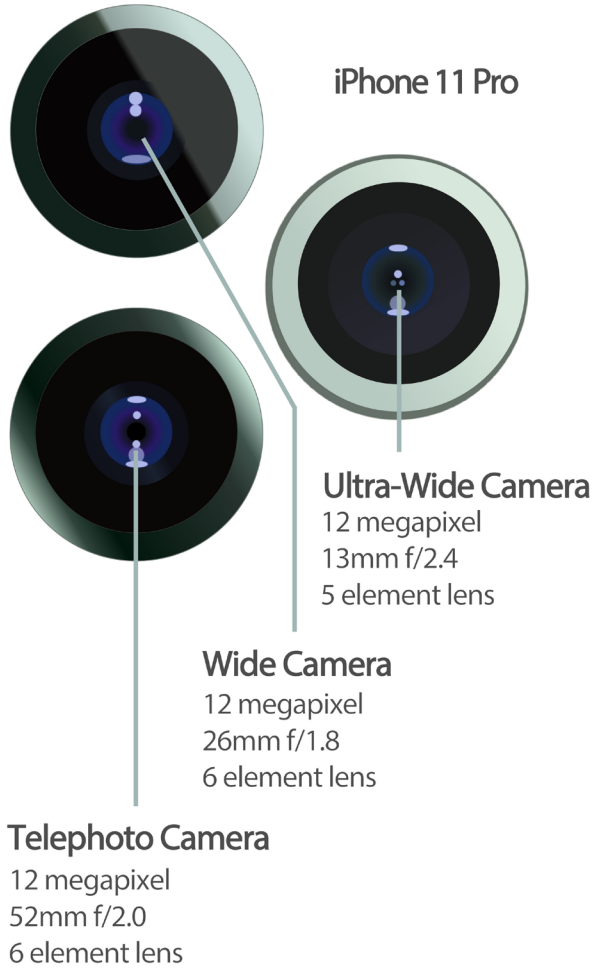
With this knowledge of the iPhone 11 Pro's greatest camera capabilities so far, its exciting to think about what Apple will produce in another 13 years. Basing off the current abilities seen, the future iPhone might even have more cameras built in, or a single camera with an **optical zoom** for greater focal length range. Even a sensor greater than 12 megapixels, or **RAW** image files like proffesional cameras for better post processing data. All we know for now is that the iPhone 11 Pro has come a long way from its 2007 predecesor.

So how good is Apple's newest phone camera compared to its first ever? Let's start off with the first major difference between the two being that the **iPhone 1(2G)** only has one camera compared to the newest 11 pro's 4 different cameras. The original iPhone has a **2 megapixel** sensor which is 6 times smaller than the iPhone 11 Pro's (12 megapixel). The resolution of images between the two is another drastic change as the first iPhone takes **1600x1200** images while the 11 Pro takes a whopping **4032x3024** images and **3840 x 2160 (4k)** video too that the original iPhone isn't even capable of. Not only is is clear in the specs that we can see a drastic technological advancement in Apple's cameras but also the interface and features of each phone have changed significantly.

Apple's 2007 iPhone had the live display of the camera's view and only a **singular button for the shutter.** Thats it. The iPhone 11 Pro's camera app with the help of iOS 14 provides a live view along with an **multiple lens options, video recording, burst photos, night mode, flash, custom aspect ratios, self timer, slo motion, colour correction, filters, panoramas, HDR,** and more! With all these fancy new features there is endless possibilities when capturing content on the iPhone 11 Pro which is what makes it one of the leading smartphone cameras to this day and the **most popular camera in the world.**

To think that it started with a low resolution 2 megapixel camera, to a triple camera system with superb quality photo and video competing against DLSR and digital cameras today is miraculous. This evident 13 year span of camera evolution has shown us that technology can and will always be improved. What possibilities will Apple's future cameras provide?





References:

Tchebotarev, E. (2013, June 10). The Future of the iPhone Camera.Retrieved October 10, 2020, from https://petapixel.com/2013/06/10/future-of-iphone-camera-how-the-new-iphone-may-forever-change-the-way-we-think-about-pro-photography/

Eadicicco, L. (2020, July 22). Apple could launch a new iPhone in 2022 with a big camera feature. Retrieved October 10, 2020, from https://www.businessinsider.com.au/apple-iphone-periscope-camera-better-zoom-2022-report-2020-7?r=US

Shankland, S. (2019, September 10). IPhone 11 gets a wide-angle lens and new photo smarts. Retrieved October 10, 2020, from https://www.cnet.com/news/apples-iphone-11-camera-packs-wide-angle-photography-punch/

A. (2020). IPhone - Compare Models. Retrieved October 10, 2020, from https://www.apple.com/au/iphone/compare/?device1=iphone12pro

iPhone Camera Scaled Resolution Comparison

Wil Calabio