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# Don't Lose Focus

Astonishing quality photos!  
Was it always this way?





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Over the years, photography has transformed quite dramatically in the iPhone. The quality of photos found today is simply amazing. The iPhone camera now has endless selection of editing tools and the camera has become a replacement for many professional and aspiring photographers.

The original iPhone was released back in 2007 and was unquestionably a ground-breaking product. This iPhone paved the way for the modern day smartphone era. This first iPhone changed the way the world interacted with their phones, through being a widescreen iPod with touch controls, a revolutionary mobile phone and a breakthrough into mobile internet access. As for the camera, the original iPhone didn't have much to offer as it was only fixed-focus 2-megapixel camera, which was ordinary with many other phones before.

After the original iPhone came the iPhone 3G in 2008. The key feature for this iPhone, hence the name, was its 3G connection. Apple put a lot of effort into adding new features to both the hardware and the software, but did not spend time improving the camera.



As a result, the iPhone 3G still came with the fixed-focus 2-megapixel camera just like the original iPhone.

When Apple released the iPhone 3GS in 2009, they finally provided some improvement to the camera. The camera now included a 3-megapixel lens as well as the addition of autofocus. Other features like tap-to-focus and the ability to adjust the sun exposure of your photo were included. Apple had also made the 3GS camera to let users record video.

The next year, in 2010, iPhone 4 was released. The camera now supported 5-megapixels, and introduced an improved zoom with an LED flash. It was also capable of recording HD video in 720p quality. The iPhone 4 was also the first of the iPhones to have a front-facing camera, which made FaceTime one of the key selling points this phone.

The iPhone 4s with Siri then came out in 2011. Apple improved the quality of the camera yet again, with an 8-megapixel lens

and the ability to record HD video at 30fps in 1080p quality. They also added a camera sensor with the ability to let in 73% more light, improving the low-light performance. Apple also improved the aperture and real-time stabilization.

In 2012, Apple then released the iPhone 5. The iPhone 5 still contained the 8-megapixel camera, but was now able to capture photos 40% faster. They lifted improvements to macro photography and HDR quality photos. Apple had decided to cover the camera with sapphire, to prevent scratches and the effect they may have on photos. They also introduced panoramic photos in iOS 6.

The iPhone 5s was then introduced in 2013 with the same 8-megapixel camera as the iPhone 5 but a larger aperture on the lens to improve colour balancing and its ability to auto-focus due to the dual-LED flash. Apple also included the 10fps burst mode and the power to record in slower motion at 120fps.

The iPhone 6 and 6Plus came out in 2014. The iPhone 6 now had the capability of shooting video in 1080p HD video at 60 fps, slow-motion video at 240 fps, and time-lapse video however the 8-megapixel quality remained the same. As far as the front-facing iSight camera goes, it was bolstered to an 8 megapixel lens with improved low light performance. Other camera enhancements of note included improved optical image stabilization (on the iPhone 6 Plus only), better face detection, more granular exposure controls, and faster autofocus.



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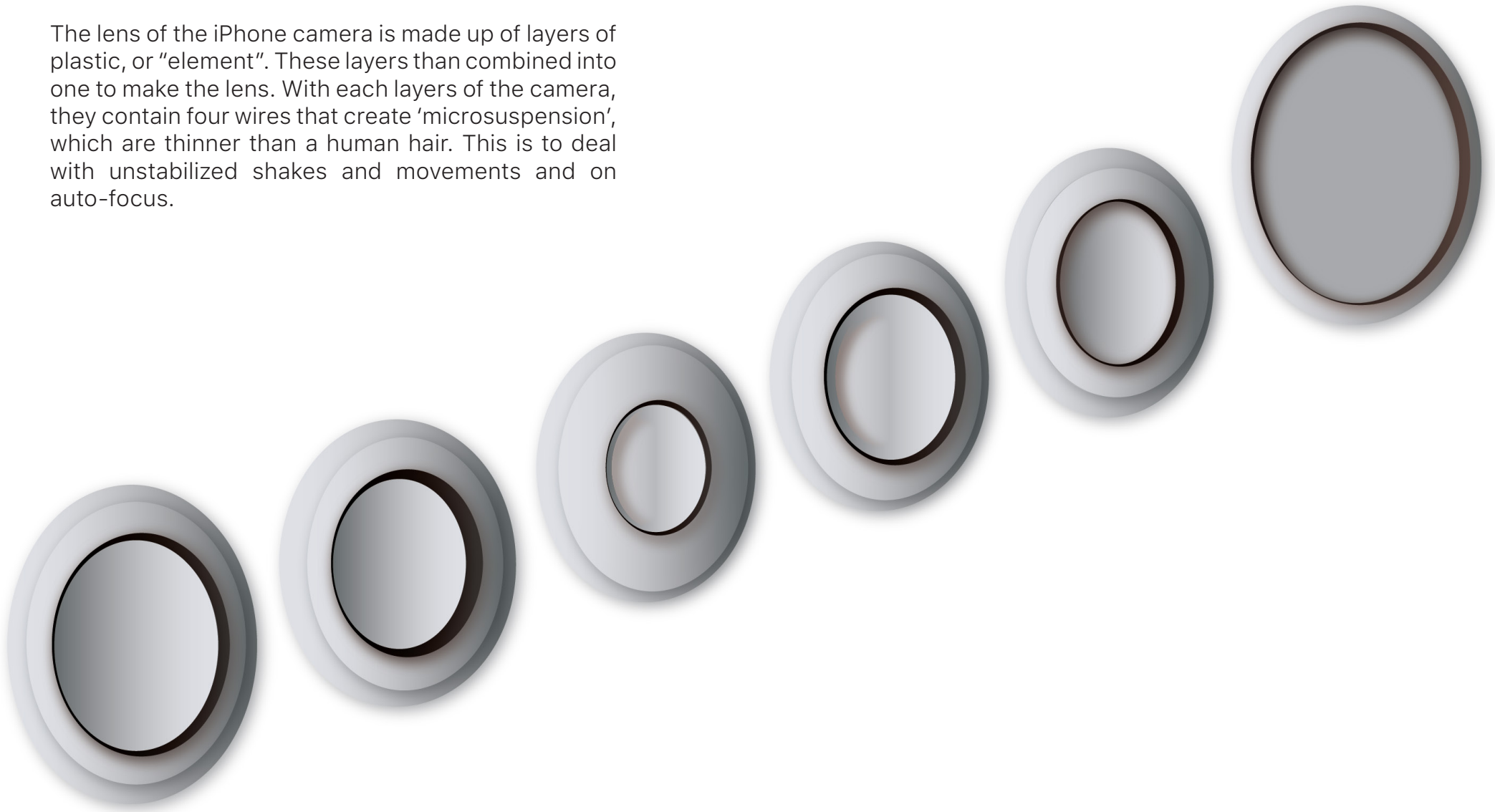
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# iPhone Camera breakdown

The lens of the iPhone camera is made up of layers of plastic, or "element". These layers than combined into one to make the lens. With each layers of the camera, they contain four wires that create 'microsuspension', which are thinner than a human hair. This is to deal with unstabilized shakes and movements and on auto-focus.





# Evolution of the Camera





