

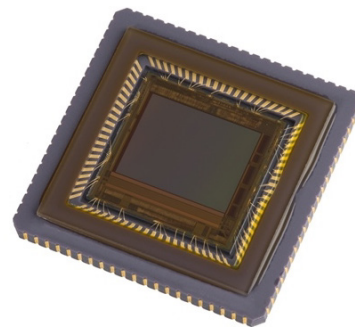
Smartphones vs. Digital Cameras

Background

- The best phone is the one that when you find a moment worth capturing
- Smartphones don't function digital cameras do
- This means there is types of camera but with each new flagship phone the line between the two gets blurred more and more.

Sensors

- This is the feature for any camera
- Typically the (physical space that it measures) the better the pictures it will capture.
- With most flagship phones sporting there isn't enough space inside the camera for multiple large sensors.
- Even the most compact camera will sport a sensor than a smartphone.
- This means that cameras will have the than smartphones.
- Shooting in ? Smartphone sensors will do fine. Low light, highly detailed, action, or creating large print images will not be as good on a smartphone.
- Cameras are the here.



Resolution

- Smartphones are increasingly able to capture pixels with
- Some using technology known as can even shoot in hundreds of megapixels.
- Cameras are usually more hovering around in the low 20 megapixels on average although larger resolution cameras are available if you want to pay more.
- Because cameras don't rely on binning, have and have fine optical lens, the pictures that they capture will typically be much sharper than smartphones.
- This crisp detail is especially important when making here although this is an area that smartphones are making great strides.

Autofocus

- Being able to on a subject and keep it in focus is crucial for shooting, especially if there is any movement in the shot. on the chip and AI powered subject detection (which finds people, animals, etc. and locks the focus on them) help to make focusing quick and effective on cameras.
- This has isn't new, it's been iterated on

- Smartphones have _____ that often works automatically and focusing manually is simple with a touch of the screen.
- Here again, with higher advances in the _____ cameras win.

Lenses

- Most current smartphones have a _____ with at least 2 or three lenses on the back, more it it's a flagship phone.
- There is typically a wide angle lens, lens and a standard lens although the camera may pack a wide and super wide angle lens if there are only two lenses.
- Point and shoot cameras will typically only have one lens that sports an _____ to provide varying degrees of magnification but typically can't do wide angle.
- DSLR and Mirrorless cameras have _____ s
 - o There are _____ types of lenses that can be applied.
 - o Prime lenses are lens that have only _____ or zoom.
 - o Other lenses provide different _____, apertures, or effects like fisheye, macro or shift tilt.
 - o Carrying a bunch of lenses is less convenient than sporting a smartphone with _____ but does provide more creativity and higher quality images.
- Here, aside from the convenience of having multiple lenses in on device, cameras win for _____



Ease of Use

- Some prefer _____ of cameras, much like some gamers prefer to play games with controllers rather than just a touch screen.
- Smartphones do everything through the _____ with no physical buttons.
- Smartphones are made to be _____ that they often lack the ability to change settings.
 - o iPhone and Android are built so user friendly that the camera app that comes with the smartphone typically _____
 - o Third party apps from app stores can allow the user to adjust I _____ and White Balance.
- While making adjustments on the camera can be crucial to getting the right exposure, smartphones simpler to use than cameras.
- Give the W to _____ here.



_____ on their own and are

Screens & Viewfinders

- Smartphones rely entirely on **touchscreen** screens.
 - o The **touchscreen** is where you will make adjustments and focus.
 - o You'll also use it to **focus** the image you've shot.
- Camera screens have been improving but are (3-4 inches at most) with resolutions below even mid tier smartphones.
- Cameras can have either **touchscreen** screens.
 - o Articulating is good for helping the subject **pose** or shots overhead.
 - o Fixed screens, much like using the rear facing camera on a smartphone do this (and front facing cameras on smartphones are usually lower resolution).
- Viewfinders, the **viewfinder** on traditional cameras, can also be used for composing shots.
 - o These will show the settings at the **top** used and help to frame the shot
 - o Some prefer the **viewfinder** of a screen or even a connected tablet
- This category really comes down to **personal preference** it's a tie.



Size & Convenience

- The best phone is the one **you have** when the perfect photo moment presents itself.
- If a camera is **too big** it's probably not going to be taken everywhere and won't be able to take that shot.
- Smartphones are like an extremity, people don't go anywhere without them so they are **always with you** to capture that shot.
- There are really great cameras that fit easily in the palm but that's a **trade-off** along.
- Camera batteries **drain quickly** by watching too much YouTube but their batteries need different chargers than smartphones... another thing to carry!
- Here the winner is clearly **smartphones**

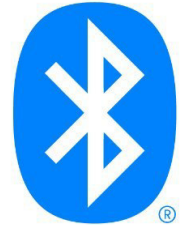
Video

- Smartphones, **especially smartphones** come with great video tools.
 - o Special **features** like time lapse, slow motion and ultra slow motion are great features to have
 - o Basic **features** is usually included and able to be done directly on the smartphone.
- Smartphones are even capable of shooting in **4K** (though shooting in the will drain your phones storage quickly).
- Cameras are fantastic for video, **but they are not as intuitive.** make it easy to change the depth of field on video.
- Editing software **isn't included** the camera and will have to be done on a separate device.

- Cameras provide more [redacted] but because of the learning curve of editing and use of the camera, this is pretty close since smartphones are more intuitive.
- Video is a [redacted]

Connectivity

- Most all modern cameras have [redacted] included in the camera to easily send from the camera to other devices like laptops, smartphones or directly to the web.
 - Bluetooth and wifi [redacted] as anyone that has tried to setup cheaper Bluetooth devices can attest.
 - Of course smartphones are [redacted] by their nature making sharing and transferring photos much faster.
 - Of course some people like to look at their pictures on a [redacted] when they return home from shooting, possibly edit them a bit and then share them.
- [redacted] are the winner here by far!



Price

- It's [redacted] to compare camera prices and smartphone prices.
 - o Both come in a [redacted]
 - o Flagship smartphones are [redacted] especially if they aren't tied to a specific carrier (unlocked).
 - o Cameras [redacted] (and so can mid to low range smartphones) but also much more expensive too.
 - o Used cameras can be [redacted] and are often found at bargain prices.
- Smartphones are [redacted] though.
- Most people will probably [redacted] so why not pay a little more for a smartphone that is capable of better photos rather than buying a second device, a camera?
- Alternatively, buy a [redacted] and spend the savings on a camera or gear.
- Since the smartphone is a [redacted] that could take great photos, it wins here too.



So which is better?

- Both are great in [redacted] will offer better image quality.
- Cameras are more [redacted] because of their lenses and accessories.
- Smartphones are very capable, [redacted] and almost always on hand when needed to take a picture.
- It really is a personal decision which is better because each person will [redacted] than another.
- At the time it's best to say that casual photographers, especially those [redacted] are going to be fine with smartphones [redacted] are something that the average photographer should have to capture a wider range of shots.