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The latest flagship phones can take photos comparable to the right camera, but they are getting convenience and portability that even the best mirrorless cameras can't give you. It tests a wide range of smartphone cameras and uses each lens or sensor on each device to take photos in different modes. In addition to the original drawings of the camera specifications, we also check image processing technology that contributes greatly to the final image. This will help you find out each camera fare in the real world, so we've made this list of the best camera phones to help you choose which one works best for you. Note: We have just completed a review of the new range of Samsung Galaxy Note 20 Ultral and iPhone 12 models and we plan to add them to our list shortly, so check back regularly for the latest updates to our rankings. Top Camera Mobile Phone Fahrenheit P40 Pro Apple iPhone 11 Pro Samsung Galaxy S20 Plus Apple iPhone 11 Vivo X50 Pro Huawei P30 Pro Xiaomi Mi Note 10 Samsung Galaxy Note 10 Plus (Image Credit: Huawei) P40 Pro has a great camera, But it's not the best phone Huawei P40 Pro is the best camera phone you can buy under £1,000/£900. In fact, for certain types of photographers (those who value a centripphoto camera), it's just the best camera phone. However, given the Huawei/Google situation, recommending it comes with its own caveats. So, despite the extensive list of stellar features, you should definitely read our P40 Pro review before picking up one. But regardless of its software limitations, that camera knocks off your socks. The P40 Pro's Leica-branded imaging system is spearheaded by a new 50MP sensor that uses RYYB (red-yellow yellow-blue) subpixel formation like the 40MP P30 Pro. Huawei claims that this allows its camera to handle dark scenes like champions well and can prove that the P40 Pro can absolutely do. The lens of the main camera is a fairly standard f/1.9 aperture on paper, but it still has a huge sensor size (for smartphones) and OIS, combined with Huawei's powerful electronic image stabilization, and is still a low light star. This phone can be seen quite a bit in the dark even in automatic mode - no other non-Huawei phone can do anything. There is also a 40MP f/1.8 ultra wide camera, a 12MP centripphoto camera with 5x optical zoom or 50x digital zoom, and a flight time (ToF) sensor to create bokeh effects. Photos taken with the P40 Pro have high detail and low noise. Like Samsung, Huawei photos don't look overly sharp, but they're not as natural and neutral as those taken with the Oppo Find X2 Pro, but many prefer Huawei photos.Punchy style. As far as zooming is concerned, the P40 Pro may not be as close as the Galaxy S20 Ultra, but the phone costs much less and, more importantly, offers more consistent image quality across the camera. The rest of the phone's hardware is top notch, it looks a treat and has plenty of power, so if you're used to the Google free software experience, the P40 Pro crams a lot into love. Read more: Huawei P40 Pro review today's best Huawei P40 Pro deals (Image credit: Apple) Previously the best points and shooting camera phone iPhone 11 Pro not only does not feature the best smartphone camera Apple has ever made It's also the best camera phone money you can buy for a particular type of user. It's reliable - you take a shot and it's likely to be a good one, even in a half-hearted light. It has a strong dynamic range, three cameras, and is versatile. The primary camera has a focal length of 26mm, perfect for grabbing daily snaps. The ultra-wide camera is a step backwards, so you don't have to get more inside a frame with a focal length of 13mm. When it comes to a photo camera, as with the iPhone XS, zoom in on your subject with a focal length of 52mm - perfect for portraits. There is no manual mode and the 12MP resolution is a slight on paper compared to some of the competition, but the results are still impressive and Apple has introduced a new night mode that allows you to keep the shutter open for incredible low light photos. It can't hit the astrophotophotophot feature on the surface or tripod steadily and steadily, but handheld, it's there at their best. Add beautiful and consistent color and tonal profiles with all three cameras to the mix, and if you're an Apple fan looking for a camera champion, this is as good as that. Read our full iPhone 11 Pro review Today's best Apple iPhone 11 Pro deals Apple iPhone 11 Pro, 64GB (Image credit: Samsung) Ultimate Flagship - A huge amount going on in the camera setup of the Samsung Galaxy S20 Ultra at the ultimate price. First of all, you have more than 200 megapixels across the front and rear cameras, then there are those smart new shooting modes to talk about. And finally - there's that huge zoom - 100x 'space zoom'. Marketing jargon? absolutely, but regardless, the camera of the S20 Ultra is a hope champion. It all starts with a 108MP primary camera sensor - the same as one of the Xiaomi Mi Note 10. This time, combined with a 48MP optical zoom camera, a 12MP ultra-wide camera and a flight time sensor around the back, it collects blurry backgrounds, sharp foreground live focus stills and video depth information. Ultra zooms are really best in class when compared to other camera phones on the market. It uses approximately 5 timesZoom with a high-resolution sensor to create a virtually lossless 10x zoom image. Packing a fun single-take mode, the entire S20 range is social media-ready, capturing a range of photos and videos at the same time so you can snap once and decide later. They also shoot the highest resolution footage on the block and are all 8K ready. Why isn't the S20 super high on our list? So you can see the photos too punchy touch. That said, this is still a stellar camera phone with excellent zoom. Read our full Samsung Galaxy S20 Ultra review Today's best Samsung Galaxy S20 Ultra Deal (Image Credit: Samsung) Samsung Galaxy S20 Plus is just a big fan of S20 Plus than Ultra, with many levels just right. Pack a low-cost, manageable footprint. Even though they don't have a 100x space zoom or a 108MP main camera, they still take better snaps than last year's S10 family. Both the S20 and S20 Plus main cameras feature traditional 12MP resolution combined with a wide open f/1.8 and 26mm focal length - quite standard for flagships. At 1.8µm pixels, the S20s won't win a big pixel award, but thanks to dual-pixel PDAF and OIS, it will be nailed nine times out of 10, even in dim scenes. The 64MP centripphoto camera may sound appetizing - all resolutions combined with all its zooms. But the 3x zoom of these phone packs is not the big picture. The S20's 64MP sensor combines with a focal length of 29mm - just 3mm larger than that of the 26mm main camera. However, the way to achieve a 3x zoom is to crop to the sensor to achieve a 3x hybrid zoom. Next, the phone cannot be stacked on the periscope camera being tested. For ultra-wide cameras on both phones, clock at 12 MP with f/2.2 aperture and 13mm focal length. If you choose the S20 Plus, you get the time of the flight sensor around the back to get depth information. This helps blur the background in live focus mode, aling both phones offer respectable portrait style shots. Like the S20 Ultra, the S20 and S20 Plus shoot 8K video at 24fps and 4K video at up to 60fps. They also capture HDR video, a relatively unique feature among today's smartphones. Read our full Samsung Galaxy S20 Plus review Today's best Samsung Galaxy S20 Plus deals (Image Credit: Apple) The most affordable iPhone gets excellent low light photos Unlike the iPhone 11 Pro, the vanilla iPhone 11 misses the perspective camera and instead stuffs the Asus ROG Phone 2-style wide + ultra-wide dual snapper on your back. Still, shooting in low light with this low-cost model will make you happy to launch a new long exposure night mode. This means the iPhone 11 can be seen in the dark even when you are holding handsThe photo quality of the phone, and its entire primary and ultra wide camera, is amazing. Another area where all the iPhones in our list are better is video capture. They all shoot 4K resolution videos up to 60fps and do so with all lenses. With a smooth transition between the lens on board and iMovie for basic editing, if we are going to pick up a smartphone for some easy-to-use, high-quality filmmaking, it will be one of the iPhones on our list. Read our full iPhone 11 review Today's best Apple iPhone 11 deal (Image Credit: Huawei) The best super zoom smartphone Huawei P30 Pro should be pretty special given the fact that it still clings to a spot on this list despite launching at the start of 2019. And its fantastic low light performance, it's not really always in night mode, but it does make the iPhone 11 Pro and Google Pixel 4s the best in automatic mode. There were plenty of cameras to test on this phone, including four of the 40MP main lens, 8MP telephoto lens, 20MP ultra wide lens and ToF (flight time) camera to sense the depth of the portrait. The Huawei P30 Pro camera uses a RYYB (red-yellow yellow-blue) sensor instead of the industry standard RGB (red-green-blue) sensor to take in more light. The snaps we took for review were more detailed and less shadowy than most competitions, but they didn't seem completely overexposed. It's great for smartphones, but it's not completely perfect. We noticed some purple fringes in the area and the camera software controls don't always respond when switching between ultra wide, 5x zoom, 10x zoom and digital 50x zoom. But the fact that you can get insanely close to the object with a 50x zoom and also shoot at night as if all the lights are on really set a new bar for the camera phone. Read our full Huawei P30 Pro review Today's best Huawei P30 pro deals (Image Credit: Vivo) Gimbal Mount Sensor and 5G Smart X50 Pro Vivo are swinging for fences. This phone requires a premium price in part because it is a beautifully built product, but mainly because of its innovative camera technology. The star of the show is the main 48MP shooter, which is attached to a mechanical gimble. This unique feature means that the lens remains locked to the target even when you are moving, providing lock-stable video footage and great low light photos, while the gimbal partially eliminates camera movement during long exposure shots. The gimbal system actually works very well. The next attraction is a 5x telescope zoom lens up to 60x using digital zoom. Again, 5x zoom worked as advertised. Then there is a 120 degree wide angle lens, a dedicated portrait mode lens and a 32MP selfie camera with flash. Unfortunately, we found the cameraBecause scene recognition is more disturbing than helping. We've rounded off that set of sensors with some onboard 5G for a quick upload and understand why Vivo is on our list for the first time. The X50 Pro may be at the top, but I think it's a bit too expensive for a brand that's still establishing a reputation in South Africa. Samsung phones' 108MP sensors beat the world's first resolution record, packing virtually more pixels than any DSLR or mirrorless camera - much less smartphones. Like all 48MP cameras introduced in 2019, the Mi Note 10 uses quad pixel technology, or pixel binning, to get standard shots. Because this technique combines four pixels into one, the 48MP sensor creates a 12MP image, and the Mi Note 10's 108MP sensor produces a 27MP image. The reason for this coupling is that it captures a wider dynamic range and better low-light performance by creating superpixels using information from multiple pixels. But if the light is correct, you can increase the resolution and capture a complete 108MP image for a jaw-dropping detailed shot - nothing close to the Mi Note 10 in this regard The main camera absolutely nails it and, in a good light, beat the competition in many ways, but the reason this megapixel monster is not high on our list is that additional cameras can conflict. We love the fact that we pack a dedicated macro camera as well as optical 2x zoom, 5x zoom and ultra wide angle, but if it's your focus, shoot most of the time with the main 108MP module. Read our full Xiaomi Mi Note 10 review today's best Xiaomi Mi Note 10 deals (Image credit: Samsung) A great all-rounder with remote shutter S PenSysan's smart dual aperture main camera introduced on the Samsung Galaxy S9 is back and flips between f/1.5 and f/2.4 without sweating. This time, the Note 10 Plus, combined with a 12mm ultra-wide camera, allows you to take shots that are virtually wider than other camera phones. This is not the only addition to the Note 10 Plus - this time we have a flight time sensor found on the Huawei P30 Pro that will drop the focus of the background when shooting in live focus (portrait) mode and capture depth information to improve bokeh. Samsung's camera UI is also incredibly comprehensive, with a pro mode that allows you to keep the shutter open for over 30 seconds and an improved night mode that tries to defeat the likes of Huawei and Google.The number of times a note is supported on a surface and a stepback group shot is snapped. Want to know more about our full Samsung Galaxy Note 10 Plus review today's best Samsung Galaxy Note 10 plus trading dual cameras? Turn your snaps into a beautiful photo book - we've chosen the best